MINUTES

JOINT CITY COUNCIL/CITY COUNCIL AS SUCCESSOR AGENCY TO DISSOLVED REDEVELOPMENT AGENCY/HOUSING AUTHORITY/COMMUNITY FACILITIES FINANCING AUTHORITY OF THE CITY OF DUARTE
REGULAR MEETING – APRIL 28, 2020

NOTE: Due to the state and local State of Emergency resulting from the threat of Novel Coronavirus (COVID-19), Governor Newsom has issued Executive Order N-29-20 in which Section 3 supersedes Paragraph 11 of Executive Order N-25-20 (issued on March 12, 2020) addressing Brown Act regulations. This new order states that the City does not need to make a physical location available for members of the public to observe a public meeting and offer public comment. The Order allows the City to hold City Council meetings via teleconferencing and allows for members of the public to observe and address the meeting electronically.

To follow the new Order issued by the Governor, the City Council meeting was closed to the public. Members of the public were able to view/listen to the live City Council meeting broadcast on the City's website. Public comments were submitted electronically by emailing duarteinfo@accessduarte.com before or during the meeting, prior to the close of public comment. Emailed public comments were read into the record.

CALL TO ORDER

The City Council/City Council as Successor Agency to Dissolved Redevelopment Agency/Housing Authority/Community Facilities Financing Authority of the City of Duarte met in a regular meeting by teleconference in the Council Chambers, 1600 Huntington Drive, Duarte, California. Mayor Kang called the meeting to order at 7:03 p.m.

RECORDATION OF ATTENDANCE

The following were in attendance:
PRESENT: Fasana, Finlay (left at 8:04 p.m.), Lewis, Paras-Caracci, Reilly, Urias, Kang
ABSENT: None
ADMINISTRATIVE STAFF PRESENT: City Manager Jordan, City Attorney Cosgrove

ADOPTION OF AGENDA

Finlay moved, Reilly seconded to adopt the Agenda, and carried by the following Roll Call vote:
AYES: Lewis, Reilly, Paras-Caracci, Finlay, Fasana, Urias, Kang
NOES: None

ANNOUNCEMENTS

Victoria Rocha presented announcements provided by the Duarte Chamber of Commerce, including COVID-19, May events, and Dine-In Duarte event, and community announcements including Parks and Recreation programs, virtual Recreation Center and Workshops, and senior food bank.

CONSENT CALENDAR

Finlay moved, Urias seconded to approve the Consent Calendar as follows, and carried by the following Roll Call vote.

	Approve Items A, B, C, E, F, G, H. Remove Item D. AYES: Lewis, Reilly, Paras-Caracci, Finlay, Fasana, Urias, Kang NOES: None
Item G – Ordinance No. 897 Second reading of adoption	ORDINANCE NO. 897 AN ORDINANCE OF THE CITY OF DUARTE IMPOSING A GENERAL TRANSACTIONS AND USE TAX TO BE ADMINISTERED BY THE CALIFORNIA DEPARTMENT OF TAX AND FEE ADMINISTRATION (Second Reading of Adoption)
ITEM REMOVED Item D – Notice of Completion Elecnor Belco Electric	Hensley answered questions from Councilmembers about the project and new signals. Fasana stated he would like to see a map of what has been done and what remains to be done regarding traffic signals, and to include information about signals for those who are sight-impaired.
ITEM D – APPROVED	Finlay moved, Fasana seconded to accept the Traffic Signal Battery Backup System (Elecnor Belco Electric, Inc.), and to authorize the City Clerk to initiate the notice of completion, and carried by the following Roll Call vote: AYES: Lewis, Reilly, Paras-Caracci, Finlay, Fasana, Urias, Kang NOES: None
ITEMS FROM CITY COUNCIL/ CITY MANAGER	JORDAN: Stated we received notice that City Council Aide Jeremy Pascua will be moving on, and his last meeting with us will be May 12. LEWIS: Attended the testing process at the San Gabriel Valley airport. REILLY: Inquired about the status of the Climatec project and the mixed use project (Hensley responded), inquired about virus testing and results at the senior facilities in Duarte (Jordan responded), and stated she would like to have a discussion at the next meeting about sending a letter to the Governor asking to re-open as soon as possible within reason. (Cosgrove suggested it could be considered when we review the emergency declaration). FASANA: Thanked the Mayor for the PPE supplies provided to our facilities, thanked staff and the Mayor for arranging the call to the County, expressed his feelings and observations about the pandemic situation, stated Metro will offer free parking for stations that are less than 30% filled on weekends, we will soon have to decide about the 3rd/4th of July event, asked if staff could look at Senator Rubio's latest bill (AB 2364) regarding requirements for the State Water Board, and stated the guidelines from the health experts are evolving, and our facilities are being cooperative. PARAS-CARACCI: Stated she is looking forward to what the Governor and County Supervisors will decide about re-opening,

once the new date is set for the roll-out and re-opening, we will need to give our businesses a heads up, thanked the Chamber for the banner program, thanked staff for volunteering at Foothill Unity, asked if the Mayor would consider possibly establishing an ad hoc committee with Councilmembers or task force to focus on COVID-19 and plans to re-open, discussed reconnecting with residents and virtual visits with Duarte leaders, and stated she will be doing a test run with the Woman's Club this week for a few conversational items and Q&A.

FINLAY: Congratulated the Chamber and City for the banner program, the dining event on Saturday worked out well, discussed L.A. Times article about sprawl saving lives, stated the Education Foundation will be working to try to help high school graduation, thanked staff for smoothing out the bike path, stated when people are walking on Royal Oaks Drive at Mt. Olive and Royal Oaks Drive North, they have to walk on the street, inquired about opening that section of the bike path, and stated in Hawaii, a $5,000 fine was issued for parking in a beach lot.

URIAS: Inquired about virus testing in Duarte, suggested promoting the availability of virus testing on our social platforms, and asked that staff bring back information about it.

KANG: Discussed working with other Councilmembers and the Supervisor's office regarding two convalescent homes in Duarte, stated all patients and workers have now been tested, discussed shortage of PPE, flattening the curve, and need for more testing, stated there are a number of shopping carts around town that are being occupied by homeless persons, suggested we could perhaps visit the ordinance again (Cosgrove discussed legislation about shopping carts, and stated we could agendize the issue with recommendations), thanked the Duarte Community Service Council and Foothill Unity for doing a great job, wished Jeremy good luck and stated he has been very helpful, and asked if we could get the names of people who have passed away in Duarte due to the virus, so we can adjourn in their memory.

ADJOURNMENT

Mayor Kang adjourned the meeting at 8:33 p.m. in memory of Nora Luna, Greg "Bobby" Prodigalidad, and Frank Samson.

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Mayor Samuel Kang

ATTEST:

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City Clerk

City of Duarte

Council Warrant Register By Vendor
By Fund

Payment Dates 04/30/2020 - 05/13/2020

Account Number	Vendor Name	Description (Item)	Payable Number	Project Account Key	Amount
Fund: 100 - GENERAL FUND					
Vendor: 1570 - A1 MAINTENANCE SERVICES CA					
100-1410-7810	A1 MAINTENANCE SERVICES	Las Brisas Sweeping 4/2020	193130		61.00
100-1410-7810	A1 MAINTENANCE SERVICES	Las Posadas Sweeping 4/2020	193131		61.00
				Vendor 1570 - A1 MAINTENANCE SERVICES CA Total:	**122.00**
Vendor: 5086 - ACCO ENGINEERED SYSTEMS					
100-1610-7652	ACCO ENGINEERED SYSTEMS	Town Ctr/Senior Ctr HVAC Maintenance (3 mo)	754951		3,296.75
100-1610-7652	ACCO ENGINEERED SYSTEMS	Teen Ctr HVAC Maintenance (3 mo)	756597		1,001.50
				Vendor 5086 - ACCO ENGINEERED SYSTEMS Total:	**4,298.25**
Vendor: 5612 - ACTIVE NETWORK LLC					
100-4406	ACTIVE NETWORK LLC	Active Net Refunds (COVID-19	AN654538_03-23-20		225.00
100-4809	ACTIVE NETWORK LLC	Active Net Refunds (COVID-19	AN654538_03-23-20		35.00
100-1605-7653	ACTIVE NETWORK LLC	Active Net Refunds (COVID-19	AN655299_03-23-20		0.50
100-4801	ACTIVE NETWORK LLC	Active Net Refunds (COVID-19	AN657221_03-30-20		51.00
100-4806	ACTIVE NETWORK LLC	Active Net Refunds (COVID-19	AN657221_03-30-20		796.00
100-4809	ACTIVE NETWORK LLC	Active Net Refunds (COVID-19	AN657221_03-30-20		35.00
100-1605-7653	ACTIVE NETWORK LLC	Active Net Refunds (COVID-19	AN657905_03-30-20		5.10
				Vendor 5612 - ACTIVE NETWORK LLC Total:	**1,147.60**
Vendor: T4216 - ADRIEN CHEW					
100-4801	ADRIEN CHEW	Class Refund-Golf (Ryan Low)	2000079.003		65.00
				Vendor T4216 - ADRIEN CHEW Total:	**65.00**
Vendor: 1388 - AIDA TORRES					
100-1205-7779	AIDA TORRES	DART Masks	4/15/2020		100.00
				Vendor 1388 - AIDA TORRES Total:	**100.00**
Vendor: T4263 - AL MARTINEZ					
100-4809	AL MARTINEZ	Recreation Refund-Soccer (Nicholas Martinez)	2000793.002		35.00
				Vendor T4263 - AL MARTINEZ Total:	**35.00**
Vendor: T3413 - ALEJANDRA LOPEZ					
100-4809	ALEJANDRA LOPEZ	Recreation Refund-Soccer (Mateo Diaz)	2000802.002		35.00
100-4809	ALEJANDRA LOPEZ	Recreation Refund-Soccer (Benjamin Cardona)	2000803.002		35.00
100-4809	ALEJANDRA LOPEZ	Rec Refund-Little All Stars (Maximiliano Diaz)	2000770.002		35.00
100-4801	ALEJANDRA LOPEZ	Class Refund-Intro to Drawing (Valentina Diaz)	2000086.003		44.00
				Vendor T3413 - ALEJANDRA LOPEZ Total:	**149.00**
Vendor: 6117 - ALL CITY MANAGEMENT SERVICE INC					
100-1205-7782	ALL CITY MANAGEMENT SERV	COVID-19 Lunch Prgm X-Guards 3/22/20 - 4/4/20	67847	202024-Lunch Program-Coron	1,242.60
100-1205-7782	ALL CITY MANAGEMENT SERV	COVID-19 Lunch Prgm X-Guard 4/5/20 - 4/18/20	67865	202024-Lunch Program-Coron	621.30
				Vendor 6117 - ALL CITY MANAGEMENT SERVICE INC Total:	**1,863.90**
Vendor: T4260 - AMANDA LEONARD					
100-4809	AMANDA LEONARD	Recreation Refund-Soccer (Maddox Curtis)	2000794.002		35.00
				Vendor T4260 - AMANDA LEONARD Total:	**35.00**

Account Number	Vendor Name	Description (Item)	Payable Number	Project Account Key	Amount
Vendor: T4249 - AMANDA SANCHEZ					
100-4809	AMANDA SANCHEZ	Rec Refund-Little All Stars (Lorenzo Sanchez)	2000777.02		35.00
				Vendor T4249 - AMANDA SANCHEZ Total:	**35.00**
Vendor: T4253 - AMY BENEDETTI					
100-4809	AMY BENEDETTI	Recreation Refund-Soccer (Jackson Crawford)	2000796.002		35.00
				Vendor T4253 - AMY BENEDETTI Total:	**35.00**
Vendor: T3533 - AMY BRITTON					
100-4801	AMY BRITTON	Class Refund-Ballet (Anita Medina)	2000070.003		34.00
100-4801	AMY BRITTON	Class Refund-Tap (Anita Medina)	2000103.003		35.00
				Vendor T3533 - AMY BRITTON Total:	**69.00**
Vendor: T3502 - ANDREA MONTERO					
100-4809	ANDREA MONTERO	Rec Refund-Little All Stars (Ariana Montero)	2000783.002		35.00
				Vendor T3502 - ANDREA MONTERO Total:	**35.00**
Vendor: T4244 - ANDREW GUZMAN					
100-4809	ANDREW GUZMAN	Rec Refund-Little All Stars (Gunner Guzman)	2000787.002		35.00
				Vendor T4244 - ANDREW GUZMAN Total:	**35.00**
Vendor: T4268 - ANGEL RAMIREZ					
100-4809	ANGEL RAMIREZ	Recreation Refund-Soccer (Michael Ramirez)	2000798.002		35.00
				Vendor T4268 - ANGEL RAMIREZ Total:	**35.00**
Vendor: 6131 - ANGELA CHIAROMONTE					
100-2023	ANGELA CHIAROMONTE	City Kitty Bereavement Gift	5062020		75.00
				Vendor 6131 - ANGELA CHIAROMONTE Total:	**75.00**
Vendor: T4199 - ANNAMARIE APPLEGARTH					
100-4801	ANNAMARIE APPLEGARTH	Class Refund-Ballet (Stella Applegarth)	2000068.003		34.00
100-4801	ANNAMARIE APPLEGARTH	Class Refund-Ballet (Rose Applegarth)	2000067.003		34.00
				Vendor T4199 - ANNAMARIE APPLEGARTH Total:	**68.00**
Vendor: T4202 - ANNE FINLAY					
100-4801	ANNE FINLAY	Class Refund-Ballet (Olivia Finlay)	2000071.003		34.00
				Vendor T4202 - ANNE FINLAY Total:	**34.00**
Vendor: 5718 - ARCHIVESOCIAL INC					
100-1020-7712	ARCHIVESOCIAL INC	ArchiveSocial Annual Renewal (Social Media)	10439		2,388.00
				Vendor 5718 - ARCHIVESOCIAL INC Total:	**2,388.00**
Vendor: T4208 - BRENDA VILLEGAS					
100-4801	BRENDA VILLEGAS	Class Refund-Ballet (Scarlet Villegas)	2000059.03		38.00
				Vendor T4208 - BRENDA VILLEGAS Total:	**38.00**
Vendor: 6006 - BRYAN URIAS					
100-1005-7649	BRYAN URIAS	Council Vehicle Allowance	5/2020		75.00
				Vendor 6006 - BRYAN URIAS Total:	**75.00**
Vendor: 4838 - BURKE, WILLIAMS & SORENSEN LLP					
100-1015-7682	BURKE, WILLIAMS & SORENSE	Labor Legal 3/2020	253773		3,283.50
				Vendor 4838 - BURKE, WILLIAMS & SORENSEN LLP Total:	**3,283.50**
Vendor: T4219 - CAITLIN STAVELEY					
100-4801	CAITLIN STAVELEY	Class Refund-Tap (Julia Staveley)	2000101.003		35.00
				Vendor T4219 - CAITLIN STAVELEY Total:	**35.00**

Account Number	Vendor Name	Description (Item)	Payable Number	Project Account Key	Amount
Vendor: 5719 - CANON FINANCIAL SERVICES INC					
100-1825-7630	CANON FINANCIAL SERVICES I	PS Copier Lease 4/1/20 - 4/30/20	21312376		399.67
100-1825-7631	CANON FINANCIAL SERVICES I	PS Copier Maintenance 3/1/20 - 3/31/20	21312376		103.55
100-1825-7630	CANON FINANCIAL SERVICES I	CH (2)/SC/TC Copier Lease 4/1/20 - 4/30/20	21342071		869.55
				Vendor 5719 - CANON FINANCIAL SERVICES INC Total:	**1,372.77**
Vendor: 5720 - CANON SOLUTIONS AMERICA INC					
100-1825-7631	CANON SOLUTIONS AMERICA	CH (2) Copier Maint 3/16/20 - 4/15/20	4032559642		218.84
100-1825-7631	CANON SOLUTIONS AMERICA	SC Copier Maint 3/16/20 - 4/15/20	4032559643		5.38
100-1825-7631	CANON SOLUTIONS AMERICA	TC Copier Maint 3/16/20 - 4/15/20	4032559644		5.92
				Vendor 5720 - CANON SOLUTIONS AMERICA INC Total:	**230.14**
Vendor: T2243 - CARIE OSBURN					
100-4801	CARIE OSBURN	Class Refund-Yoga (Carie Osburn)	2000115.003		50.00
				Vendor T2243 - CARIE OSBURN Total:	**50.00**
Vendor: 0028 - CATHERINE BRATTA					
100-1825-7674	CATHERINE BRATTA	Health Insurance Reimbursement	5/2020		435.00
				Vendor 0028 - CATHERINE BRATTA Total:	**435.00**
Vendor: T4228 - CATHERINE VAZQUEZ					
100-4801	CATHERINE VAZQUEZ	Class Refund-Yoga (Saulo Vazquez)	2000091.003		48.00
				Vendor T4228 - CATHERINE VAZQUEZ Total:	**48.00**
Vendor: 2025 - CHARLIE'S FENCE CO					
100-1610-7652	CHARLIE'S FENCE CO	Skate Park Fence Repair	05670140		525.00
100-1610-7652	CHARLIE'S FENCE CO	Skate Park Fence Repair	05670147		475.00
				Vendor 2025 - CHARLIE'S FENCE CO Total:	**1,000.00**
Vendor: 5938 - CHRISTINA HEANY					
100-1405-7690	CHRISTINA HEANY	Planning Commission Meetin	04/20/2020		50.00
				Vendor 5938 - CHRISTINA HEANY Total:	**50.00**
Vendor: 5140 - CINTAS CORPORATION #693					
100-1610-7636	CINTAS CORPORATION #693	Facility Maintenance Uniform	4046792732		35.00
100-1610-7636	CINTAS CORPORATION #693	Facility Maintenance Uniform	4048540832		34.50
100-1610-7652	CINTAS CORPORATION #693	Logo Mats	4048540832		21.04
				Vendor 5140 - CINTAS CORPORATION #693 Total:	**90.54**
Vendor: 0903 - CITY OF MONROVIA					
100-1410-7650	CITY OF MONROVIA	Fuel-Field Srvcs 2/2020	2002217		840.79
100-1605-7650	CITY OF MONROVIA	Fuel-Parks & Rec 2/2020	2002218		188.58
100-1205-7650	CITY OF MONROVIA	Fuel-Public Safety 2/2020	2002219		1,023.61
100-1405-7650	CITY OF MONROVIA	Fuel-Cmty Development 2/2020	2002220		51.61
100-1205-7781	CITY OF MONROVIA	Fuel-Sheriff's Dept 2/2020	2002221		4,410.29
				Vendor 0903 - CITY OF MONROVIA Total:	**6,514.88**
Vendor: T4221 - CLAUDINE DOMINICE					
100-4801	CLAUDINE DOMINICE	Class Refund-Yoga (Claudine Dominice)	2000113.003		50.00
100-4801	CLAUDINE DOMINICE	Class Refund-Yoga (Gabriela Kirk)	2000114.003		50.00
				Vendor T4221 - CLAUDINE DOMINICE Total:	**100.00**
Vendor: 6123 - CLIMATEC LLC					
100-1610-8100	CLIMATEC LLC	Infrastructure Modernization Project	7	202017-Infrastructure Moder	187,500.00

Account Number	Vendor Name	Description (Item)	Payable Number	Project Account Key	Amount
100-2127	CLIMATEC LLC	Rentention	7		-9,375.00
				Vendor 6123 - CLIMATEC LLC Total:	**178,125.00**
Vendor: 1202 - COASTLINE EQUIPMENT					
100-1410-7650	COASTLINE EQUIPMENT	Skid Steer Service	679414		1,417.07
				Vendor 1202 - COASTLINE EQUIPMENT Total:	**1,417.07**
Vendor: 5248 - DIVISION OF THE STATE ARCHITECT					
100-2122	DIVISION OF THE STATE ARCHI	Disability Access Fee Q1 2020	1/2020 - 3/2020		132.40
				Vendor 5248 - DIVISION OF THE STATE ARCHITECT Total:	**132.40**
Vendor: 0311 - DUARTE RECREATION PETTY CASH					
100-1605-7610	DUARTE RECREATION PETTY C	CPRS Conference Parking 3/11/20	4292020		40.00
100-1605-7610	DUARTE RECREATION PETTY C	George Dang CRPS Conference Lunch 3/12/20	4292020		14.38
100-1605-7610	DUARTE RECREATION PETTY C	Manuel Enriquez CPRS Conference Lunch 3/12/20	4292020		14.38
100-1605-7614	DUARTE RECREATION PETTY C	Staff Meeting Breakfast 3/24/20	4292020		29.53
100-1605-7730	DUARTE RECREATION PETTY C	Easter Bunny Visit Lunch 4/11/20	4292020		58.58
100-1605-7733	DUARTE RECREATION PETTY C	SC Event Pretzels	4292020		4.37
100-1605-7733	DUARTE RECREATION PETTY C	SC Display Case Supplies	4292020		13.14
100-1605-7980	DUARTE RECREATION PETTY C	Staff Lunch Meeting 3/19/20	4292020		117.72
				Vendor 0311 - DUARTE RECREATION PETTY CASH Total:	**292.10**
Vendor: 2227 - DUARTE-AZUSA ANIMAL HOSPITAL					
100-1205-7780	DUARTE-AZUSA ANIMAL HOS	Emergency Animal Care	74107		300.00
100-1205-7780	DUARTE-AZUSA ANIMAL HOS	Emergency Animal Care	75651		50.00
100-1205-7780	DUARTE-AZUSA ANIMAL HOS	Emergency Animal Care	76308		50.00
100-1205-7780	DUARTE-AZUSA ANIMAL HOS	Emergency Animal Care	76541		600.00
100-1205-7780	DUARTE-AZUSA ANIMAL HOS	Emergency Animal Care	76677		50.00
100-1205-7780	DUARTE-AZUSA ANIMAL HOS	Emergency Animal Care	79801		274.50
				Vendor 2227 - DUARTE-AZUSA ANIMAL HOSPITAL Total:	**1,324.50**
Vendor: T4193 - EDGAR AYALA					
100-4204	EDGAR AYALA	Dog License Overpayment	DL28745		15.00
				Vendor T4193 - EDGAR AYALA Total:	**15.00**
Vendor: T3887 - EDNA GARCIA					
100-4801	EDNA GARCIA	Class Refund-Karate (Kathia Garcia)	2000088.003		48.00
				Vendor T3887 - EDNA GARCIA Total:	**48.00**
Vendor: 1533 - EFREN CASTRO					
100-1825-7674	EFREN CASTRO	Health Insurance Reimbursement	5/2020		566.00
				Vendor 1533 - EFREN CASTRO Total:	**566.00**
Vendor: T4203 - ELETRICE HARRIS					
100-4801	ELETRICE HARRIS	Class Refund-Ballet (Marie Harris)	2000058.003		34.00
				Vendor T4203 - ELETRICE HARRIS Total:	**34.00**
Vendor: T4194 - ELIZABETH HUERTA					
100-4402	ELIZABETH HUERTA	CC Rent Deposit Refund (COVID-19)	R84446		100.00
				Vendor T4194 - ELIZABETH HUERTA Total:	**100.00**
Vendor: T4211 - ERRA HALIM					
100-4801	ERRA HALIM	Class Refund-Tennis (David Prasetyo)	2000107.003		58.00
				Vendor T4211 - ERRA HALIM Total:	**58.00**
Vendor: T4200 - FAVIOLA DELGADO					
100-4801	FAVIOLA DELGADO	Class Refund-Ballet (Sofia Delgado)	2000066.003		34.00
				Vendor T4200 - FAVIOLA DELGADO Total:	**34.00**

Account Number	Vendor Name	Description (Item)	Payable Number	Project Account Key	Amount
Vendor: T4226 - FRANCISCO RAZO					
100-4801	FRANCISCO RAZO	Class Refund-Yoga (Nanette Razo)	2000116.003		50.00
				Vendor T4226 - FRANCISCO RAZO Total:	**50.00**
Vendor: 4039 - FSP DESIGNS					
100-1020-7716	FSP DESIGNS	Duarte Face Masks	7028	202024-Special Comm Events-	882.00
100-1020-7980	FSP DESIGNS	Duarte Face Masks	7028	202024-Other Expenses/Coro	882.00
				Vendor 4039 - FSP DESIGNS Total:	**1,764.00**
Vendor: 4690 - FULLER ENGINEERING INC					
100-1610-7617	FULLER ENGINEERING INC	Pool Chemicals	141159		436.08
				Vendor 4690 - FULLER ENGINEERING INC Total:	**436.08**
Vendor: T4257 - GABRIEL GONZALEZ					
100-4809	GABRIEL GONZALEZ	Recreation Refund-Soccer (Gabriel Gonzalez Jr)	2000809.002		35.00
				Vendor T4257 - GABRIEL GONZALEZ Total:	**35.00**
Vendor: T3104 - GABRIELA MARQUEZ					
100-4809	GABRIELA MARQUEZ	Recreation Refund-Soccer (Oscar Marquez)	2000807.002		35.00
				Vendor T3104 - GABRIELA MARQUEZ Total:	**35.00**
Vendor: 4684 - GENTRY BROTHERS INC					
100-1820-7771	GENTRY BROTHERS INC	Emergnecy Sinkhole Repair (Duarte Rd/BV)	04222020	DMGE050-Sink Hole Repair/B	2,662.33
				Vendor 4684 - GENTRY BROTHERS INC Total:	**2,662.33**
Vendor: 5517 - GEORGE K FARRA					
100-1405-7690	GEORGE K FARRA	Planning Commission Meetin	4/20/2020		50.00
				Vendor 5517 - GEORGE K FARRA Total:	**50.00**
Vendor: T4255 - GINA CARRILLO					
100-4809	GINA CARRILLO	Recreation Refund-Soccer (Daniel Ortega)	2000800.002		35.00
				Vendor T4255 - GINA CARRILLO Total:	**35.00**
Vendor: 0124 - GINNY JOYCE BELBA					
100-1825-7674	GINNY JOYCE BELBA	Health Insurance Reimbursement	5/2020		218.00
				Vendor 0124 - GINNY JOYCE BELBA Total:	**218.00**
Vendor: T4252 - GLENN ANDERSON					
100-4809	GLENN ANDERSON	Recreation Refund-Soccer (Ethan Anderson)	2000799.002		35.00
100-4809	GLENN ANDERSON	Recreation Refund-Soccer (William Anderson)	2000812.002		35.00
				Vendor T4252 - GLENN ANDERSON Total:	**70.00**
Vendor: 1092 - GRAINGER					
100-1610-7618	GRAINGER	Plumbing Fixture	9453886468		162.18
				Vendor 1092 - GRAINGER Total:	**162.18**
Vendor: 5340 - GRAND PRINTING INC					
100-1005-7614	GRAND PRINTING INC	Finlay/Lewis/Kang Business Cards	111287		455.99
100-1825-7613	GRAND PRINTING INC	D Joedan/C Grinder Business Cards	111288		222.26
				Vendor 5340 - GRAND PRINTING INC Total:	**678.25**
Vendor: T4214 - HECTOR VILA					
100-4801	HECTOR VILA	Class Refund-Tennis (Jessica Vila)	2000106.003		58.00
100-4801	HECTOR VILA	Class Refund-Tennis (Karen Vila)	2000108.003		58.00
				Vendor T4214 - HECTOR VILA Total:	**116.00**

Account Number	Vendor Name	Description (Item)	Payable Number	Project Account Key	Amount
Vendor: 5367 - HENDERSON'S					
100-1610-7636	HENDERSON'S	Facility Maint Uniform Hats	34564		351.69
				Vendor 5367 - HENDERSON'S Total:	**351.69**
Vendor: T3173 - HEVERLIN ANGEL					
100-4801	HEVERLIN ANGEL	Class Refund-Ballet (Isbella Gamboa)	2000065.003		34.00
				Vendor T3173 - HEVERLIN ANGEL Total:	**34.00**
Vendor: T4206 - HIDEE ROESCH					
100-4801	HIDEE ROESCH	Class Refund-Ballet (Viviana Roesch)	2000061.003		34.00
				Vendor T4206 - HIDEE ROESCH Total:	**34.00**
Vendor: 4936 - HOLIDAY GOO INC					
100-1605-7730	HOLIDAY GOO INC	Spring Camp Supplies	18355		209.39
				Vendor 4936 - HOLIDAY GOO INC Total:	**209.39**
Vendor: T4204 - IRENE LOPEZ					
100-4801	IRENE LOPEZ	Class Refund-Ballet (Kimberley Lopez)	2000060.003		38.00
				Vendor T4204 - IRENE LOPEZ Total:	**38.00**
Vendor: 6177 - JACOB RUNNING					
100-1410-7636	JACOB RUNNING	Safety Work Boots	87767		400.00
				Vendor 6177 - JACOB RUNNING Total:	**400.00**
Vendor: 3821 - JACQUELINE BURCKHARD					
100-1825-7674	JACQUELINE BURCKHARD	Health Insurance Reimbursement	5/2020		218.00
				Vendor 3821 - JACQUELINE BURCKHARD Total:	**218.00**
Vendor: T4239 - JASMINE GAYTAN					
100-4801	JASMINE GAYTAN	Recreation Refund-Piano (Sofia Castillo)	2000821.002		40.00
100-4809	JASMINE GAYTAN	Rec Refund-Little All Stars (Ricardo Castillo)	2000784.002		35.00
				Vendor T4239 - JASMINE GAYTAN Total:	**75.00**
Vendor: T4220 - JEAN WALENTA					
100-4801	JEAN WALENTA	Class Refund-Cake Decorating (Hayden Walenta)	2000072.003		35.00
100-4801	JEAN WALENTA	Class Refund-Sigma Coding (Hayden Walenta)	2000098.003		75.00
				Vendor T4220 - JEAN WALENTA Total:	**110.00**
Vendor: T4198 - JENINE ABARCA					
100-4801	JENINE ABARCA	Class Refund-Ballet (Melody Abarca)	2000063.003		34.00
				Vendor T4198 - JENINE ABARCA Total:	**34.00**
Vendor: T4222 - JENNIFER LUNA-NGUYEN					
100-4801	JENNIFER LUNA-NGUYEN	Class Refund-Folklorico (Sierra Nguyen)	2000077.003		40.00
100-4801	JENNIFER LUNA-NGUYEN	Class Refund-Karate (Sierra Nguyen)	2000092.003		48.00
				Vendor T4222 - JENNIFER LUNA-NGUYEN Total:	**88.00**
Vendor: T4238 - JENNY FRARY					
100-4809	JENNY FRARY	Recreation Refund-Pickleball (Kera Frary)	2000771.002		35.00
100-4809	JENNY FRARY	Recreation Refund-Soccer (Kera Frary)	2000771.002		35.00
100-4809	JENNY FRARY	Recreation Refund-Little All Stars (Milo Frary)	2000771.002		35.00
100-4809	JENNY FRARY	Recreation Refund-Soccer (Sander Frary)	2000771.002		35.00

Account Number	Vendor Name	Description (Item)	Payable Number	Project Account Key	Amount
100-4809	JENNY FRARY	Recreation Refund-Pickleball (Sander Frary)	2000771.002		35.00
				Vendor T4238 - JENNY FRARY Total:	**175.00**
Vendor: T4232 - JESS SAENZ					
100-4809	JESS SAENZ	Class Refund-Pickleball (Jess Saenz)	2000096.003		40.00
				Vendor T4232 - JESS SAENZ Total:	**40.00**
Vendor: T4233 - JESSICA LOPEZ					
100-4809	JESSICA LOPEZ	Recreation Refund-Soccer (Oliver Lopez-Driotis)	2000804.002		35.00
100-4809	JESSICA LOPEZ	Recreation Refund-Soccer (Jonathan Lopez-Driotis)	2000804.002		35.00
100-4801	JESSICA LOPEZ	Class Refund-Guitar (Amelie Lopez-Driotis)	2000080.003		55.00
				Vendor T4233 - JESSICA LOPEZ Total:	**125.00**
Vendor: T2285 - JESUS ROBLES					
100-4809	JESUS ROBLES	Rec Refund-Little All Stars (Dylan Robles)	2000773.002		35.00
				Vendor T2285 - JESUS ROBLES Total:	**35.00**
Vendor: 0128 - JIM KIRCHNER					
100-1825-7674	JIM KIRCHNER	Health Insurance Reimbursement	5/2020		435.00
				Vendor 0128 - JIM KIRCHNER Total:	**435.00**
Vendor: 6005 - JOCELYN NUNEZ					
100-4801	JOCELYN NUNEZ	Class Refund-Ballet (Ariana Nunez)	2000069.003		34.00
				Vendor 6005 - JOCELYN NUNEZ Total:	**34.00**
Vendor: T4256 - JOHN EAGLES					
100-4809	JOHN EAGLES	Recreation Refund-Soccer (Adrian Eagles)	2000797.002		35.00
				Vendor T4256 - JOHN EAGLES Total:	**35.00**
Vendor: T4212 - JOSEPH JESUCHRISTOPHER					
100-4801	JOSEPH JESUCHRISTOPHER	Class Refund-Hip Hop Dance (Ryan Jesuchristopher)	2000085.003		45.00
100-4801	JOSEPH JESUCHRISTOPHER	Class Refund-Piano (Ryan Jesuchristopher)	2000094.003		40.00
100-4801	JOSEPH JESUCHRISTOPHER	Class Refund-Tennis (Ryan Jesuchristopher)	2000110.003		58.00
				Vendor T4212 - JOSEPH JESUCHRISTOPHER Total:	**143.00**
Vendor: T4197 - JUANA MAGDALENO					
100-4801	JUANA MAGDALENO	Class Refund-Critical Reading (Gael Aguirre)	2000056.003		93.00
				Vendor T4197 - JUANA MAGDALENO Total:	**93.00**
Vendor: T4254 - KAREN BROBECK					
100-4809	KAREN BROBECK	Recreation Refund-Soccer (Liam Brobeck)	2000814.002		35.00
				Vendor T4254 - KAREN BROBECK Total:	**35.00**
Vendor: T4223 - KAREN MARTINEZ-CASTANEDA					
100-4801	KAREN MARTINEZ-CASTANED	Class Refund-Karate (Ruben Castaneda)	2000093.003		48.00
				Vendor T4223 - KAREN MARTINEZ-CASTANEDA Total:	**48.00**
Vendor: T4261 - KARINA LOPEZ					
100-4809	KARINA LOPEZ	Recreation Refund-Soccer (Aden Lopez)	2000811.002		35.00
				Vendor T4261 - KARINA LOPEZ Total:	**35.00**

Account Number	Vendor Name	Description (Item)	Payable Number	Project Account Key	Amount
Vendor: T4210 - KELLY GREER					
100-4801	KELLY GREER	Class Refund-Tennis (Malia Alvino)	2000109.003		58.00
				Vendor T4210 - KELLY GREER Total:	**58.00**
Vendor: T4242 - KIANA DANIELS					
100-4809	KIANA DANIELS	Rec Refund-Little All Stars (Ka'layah Palmer)	2000786.002		35.00
				Vendor T4242 - KIANA DANIELS Total:	**35.00**
Vendor: T4250 - KIMBERELY VASQUEZ					
100-4809	KIMBERELY VASQUEZ	Rec Refund-Little All Stars (Jaylynn Vasquez)	2000782.002		35.00
				Vendor T4250 - KIMBERELY VASQUEZ Total:	**35.00**
Vendor: T3346 - LAN JENKINS					
100-4809	LAN JENKINS	Rec Refund-Little All Stars (Donald Jenkins)	2000769.002		35.00
100-4801	LAN JENKINS	Class Refund-Circus Gymnastics (Donald Jenkins)	2000075.003		45.00
100-4801	LAN JENKINS	Class Refund-Guitar (Emma Jenkins)	2000081.003		55.00
100-4801	LAN JENKINS	Class Refund-Vocals (Donald Jenkins)	2000111.003		45.00
				Vendor T3346 - LAN JENKINS Total:	**180.00**
Vendor: T4231 - LAURA ORTEGA ARIAS					
100-4801	LAURA ORTEGA ARIAS	Class Refund-Bachata Dance (Laura Ortega Arias)	2000057.003		40.00
100-4801	LAURA ORTEGA ARIAS	Class Refund-Salsa Dance (Laura Ortega Arias)	2000097.003		40.00
				Vendor T4231 - LAURA ORTEGA ARIAS Total:	**80.00**
Vendor: T4247 - LAUREN MORALES					
100-4809	LAUREN MORALES	Rec Refund-Little All Stars (Xander Morales)	2000780.002		35.00
				Vendor T4247 - LAUREN MORALES Total:	**35.00**
Vendor: T4217 - LETICIA NANDAYAPA					
100-4801	LETICIA NANDAYAPA	Class Refund-Tap (Alexis L Nandayapa)	2000102.003		35.00
				Vendor T4217 - LETICIA NANDAYAPA Total:	**35.00**
Vendor: T4237 - LIDIA VALDEZ					
100-4801	LIDIA VALDEZ	Class Refund-Circus Gymnastics (Sarah Alvarez)	2000073.003		45.00
				Vendor T4237 - LIDIA VALDEZ Total:	**45.00**
Vendor: 5060 - LINDA HENDERSON					
100-1825-7674	LINDA HENDERSON	Health Insurance Reimbursement	5/2020		435.00
				Vendor 5060 - LINDA HENDERSON Total:	**435.00**
Vendor: T4205 - LINDA MEZA					
100-4801	LINDA MEZA	Class Refund-Ballet (Lucy Meza)	2000062.003		34.00
				Vendor T4205 - LINDA MEZA Total:	**34.00**
Vendor: T4266 - LISA TSE					
100-4809	LISA TSE	Recreation Refund-Soccer (Lawrence Lam)	2000813.002		35.00
				Vendor T4266 - LISA TSE Total:	**35.00**
Vendor: 0056 - LOS ANGELES COUNTY SHERIFF'S DEPARTMENT					
100-1205-7781	LOS ANGELES COUNTY SHERIF	Sheriff Contract 2/2020	202871AL		336,094.42
100-1205-7781	LOS ANGELES COUNTY SHERIF	Sheriff Contract 2/2020	202871AL	201914-Sheriff Contract-Cal VI	17,381.12
				Vendor 0056 - LOS ANGELES COUNTY SHERIFF'S DEPARTMENT Total:	**353,475.54**

Account Number	Vendor Name	Description (Item)	Payable Number	Project Account Key	Amount
Vendor: 5698 - LUDECKE PROPERTY MANAGEMENT INC					
100-1020-7710	LUDECKE PROPERTY MANAGE	Chamber Lease 5/2020	1735-huntplaz-0520		1,600.00
				Vendor 5698 - LUDECKE PROPERTY MANAGEMENT INC Total:	**1,600.00**
Vendor: T4251 - LUISA VIELMA					
100-4809	LUISA VIELMA	Rec Refund-Little All Stars (Logan Vielma)	2000772.002		35.00
				Vendor T4251 - LUISA VIELMA Total:	**35.00**
Vendor: T4209 - MADHAVI BATHINA					
100-4801	MADHAVI BATHINA	Class Refund-Tennis (Shreevats Seelamsetty)	2000104.003		58.00
				Vendor T4209 - MADHAVI BATHINA Total:	**58.00**
Vendor: 5389 - MADIA TECH LAUNCH INC					
100-1405-7975	MADIA TECH LAUNCH INC	Regional Economic Development Group Membership	20102		300.00
				Vendor 5389 - MADIA TECH LAUNCH INC Total:	**300.00**
Vendor: 0285 - MARGARET FINLAY					
100-1005-7642	MARGARET FINLAY	Council Vehicle Allowance	5/2020		75.00
				Vendor 0285 - MARGARET FINLAY Total:	**75.00**
Vendor: T4192 - MARIA DE LOURDES CRUZ					
100-4204	MARIA DE LOURDES CRUZ	Dog License Overpayment	DL28733-DL28735		27.50
				Vendor T4192 - MARIA DE LOURDES CRUZ Total:	**27.50**
Vendor: T4259 - MARK ISIP					
100-4809	MARK ISIP	Recreation Refund-Soccer (Alexander Isip)	2000801.002		35.00
				Vendor T4259 - MARK ISIP Total:	**35.00**
Vendor: T4224 - MARY MORGAN					
100-4801	MARY MORGAN	Class Refund-Yoga (Mary Morgan)	2000112.003		50.00
				Vendor T4224 - MARY MORGAN Total:	**50.00**
Vendor: T2846 - MARY TAYLOR					
100-4801	MARY TAYLOR	Class Refund-Guitar (Sean Peterson)	2000082.003		55.00
				Vendor T2846 - MARY TAYLOR Total:	**55.00**
Vendor: T4230 - MARYCRUZ MORAN					
100-4801	MARYCRUZ MORAN	Class Refund-Dog Obedience/Fitness Bootcamp	2000076.003		75.00
				Vendor T4230 - MARYCRUZ MORAN Total:	**75.00**
Vendor: 4286 - MAXTREME INC					
100-1815-7965	MAXTREME INC	IT Helpdesk 4/2020	13461		8,700.00
100-1815-7980	MAXTREME INC	Crash Plan Recovery 4/2020	13461		200.00
100-1815-7632	MAXTREME INC	Gsuite Maxhavens 2/2020	13462		72.00
100-1815-7632	MAXTREME INC	Gsuite Maxhavens 3/2020	13462		72.00
100-1815-7632	MAXTREME INC	Gsuite accessduarte.com 2/2020	13462		1,062.19
100-1815-7632	MAXTREME INC	Office 365 Licenses 3/2020	13462		429.00
100-1815-7632	MAXTREME INC	Office 365 Licenses 2/2020	13462		429.00
100-1815-7632	MAXTREME INC	Gsuite accessduarte.com 3/2020	13462		1,088.12
100-1005-7646	MAXTREME INC	Paras-Caracci Computer	13463		1,771.78
100-1815-7980	MAXTREME INC	Manuel Enriquez Airpods (Desk Phone)	13463		153.29
				Vendor 4286 - MAXTREME INC Total:	**13,977.38**
Vendor: 2461 - MVP, LLC					
100-1205-7787	MVP, LLC	Public Safety Lease	5/2020		11,707.00
				Vendor 2461 - MVP, LLC Total:	**11,707.00**

Account Number	Vendor Name	Description (Item)	Payable Number	Project Account Key	Amount
Vendor: T4265 - NARCISO SALDANA					
100-4809	NARCISO SALDANA	Recreation Refund-Soccer (Alexis Saldana)	2000788.002		35.00
				Vendor T4265 - NARCISO SALDANA Total:	**35.00**
Vendor: 4607 - NAVIA BENEFIT SOLUTIONS					
100-1810-7980	NAVIA BENEFIT SOLUTIONS	FSA Processing Fee 4/2020	10249685		100.00
				Vendor 4607 - NAVIA BENEFIT SOLUTIONS Total:	**100.00**
Vendor: T4245 - NICOLE LECHNER					
100-4809	NICOLE LECHNER	Rec Refund-Little All Stars (Brandon Gutierrez)	2000775.002		35.00
				Vendor T4245 - NICOLE LECHNER Total:	**35.00**
Vendor: T3482 - NOEL NACALINTAL					
100-4809	NOEL NACALINTAL	Recreation Refund-Soccer (Reine Macalintal)	2000790.002		35.00
				Vendor T3482 - NOEL NACALINTAL Total:	**35.00**
Vendor: T2812 - NOELIA PADILLA					
100-2120	NOELIA PADILLA	CC Rent Deposit Refund	R84410		500.00
				Vendor T2812 - NOELIA PADILLA Total:	**500.00**
Vendor: T4234 - NOEMI PADILLA					
100-4801	NOEMI PADILLA	Class Refund-Intro to Drawing (Nicolas Padilla)	2000087.003		44.00
				Vendor T4234 - NOEMI PADILLA Total:	**44.00**
Vendor: T4201 - NORMA FARIAS					
100-4801	NORMA FARIAS	Class Refund-Ballet (Elizabeth Farias)	2000064.003		34.00
				Vendor T4201 - NORMA FARIAS Total:	**34.00**
Vendor: T4258 - NORMA HOMSI					
100-4809	NORMA HOMSI	Recreation Refund-Soccer (Nicholas Homsi)	2000805.002		35.00
				Vendor T4258 - NORMA HOMSI Total:	**35.00**
Vendor: 5851 - OLGALIVIER GARCIA					
100-1205-7779	OLGALIVIER GARCIA	PS Intern Stipend	4/2020		100.00
				Vendor 5851 - OLGALIVIER GARCIA Total:	**100.00**
Vendor: 5498 - PAULA WATSON-GARDNER					
100-1405-7690	PAULA WATSON-GARDNER	Planning Commission Meetin	4/20/2020		50.00
				Vendor 5498 - PAULA WATSON-GARDNER Total:	**50.00**
Vendor: 5166 - POOL & ELECTRICAL PRODUCTS INC					
100-1610-7617	POOL & ELECTRICAL PRODUC	Pool Chemicals	21099345		55.41
				Vendor 5166 - POOL & ELECTRICAL PRODUCTS INC Total:	**55.41**
Vendor: 0231 - POSTMASTER					
100-1825-7626	POSTMASTER	Permit #33 Marketing Mail Fe	3202020		240.00
				Vendor 0231 - POSTMASTER Total:	**240.00**
Vendor: 6176 - QUADIENT LEASING USA INC					
100-1825-7630	QUADIENT LEASING USA INC	Postage Machine Lease 5/23/20 - 8/22/20	N8274195		703.67
				Vendor 6176 - QUADIENT LEASING USA INC Total:	**703.67**
Vendor: T4235 - RAMON PEREZ					
100-4801	RAMON PEREZ	Class Refund-Piano (Victoria Perez)	2000095.003		40.00
				Vendor T4235 - RAMON PEREZ Total:	**40.00**
Vendor: T4264 - RANJANI RADHAKRISHNAN					
100-4809	RANJANI RADHAKRISHNAN	Recreation Refund-Soccer (Thaksan Govindaraju)	2000808.002		35.00
				Vendor T4264 - RANJANI RADHAKRISHNAN Total:	**35.00**

Account Number	Vendor Name	Description (Item)	Payable Number	Project Account Key	Amount
Vendor: T4218 - RENEE SMITH					
100-4801	RENEE SMITH	Class Refund-Golf (Renee Smith)	2000078.003		65.00
				Vendor T4218 - RENEE SMITH Total:	**65.00**
Vendor: T4191 - RICHARD & LISA NUSS					
100-2126	RICHARD & LISA NUSS	Const/Demo Deposit Refund	R1843		1,747.20
				Vendor T4191 - RICHARD & LISA NUSS Total:	**1,747.20**
Vendor: 0904 - RKA CONSULTING GROUP					
100-1405-7969	RKA CONSULTING GROUP	City of Hope Engineering Inspections 3/2020	29898	201724-COH/ADA Improv-City	1,840.00
100-1405-7969	RKA CONSULTING GROUP	ATP Cycle 4 Ped Access/Bike Safety 3/2020	29913		527.50
100-1405-7802	RKA CONSULTING GROUP	Catch Basin CPS Retrofit Project 3/2020	29914		806.25
				Vendor 0904 - RKA CONSULTING GROUP Total:	**3,173.75**
Vendor: T4229 - ROBERT GAMBOA					
100-4801	ROBERT GAMBOA	Class Refund-Hip Hop Dance (Daniel Gamboa)	2000084.003		45.00
				Vendor T4229 - ROBERT GAMBOA Total:	**45.00**
Vendor: T4236 - ROMINA STEPPUHN BLOMEYER					
100-4801	ROMINA STEPPUHN BLOMEY	Class Refund-Circus Gymnastics (Ellie Blomeyer)	2000074.003		45.00
100-4801	ROMINA STEPPUHN BLOMEY	Class Refund-Sigma Coding (Belize Blomeyer)	2000099.003		75.00
				Vendor T4236 - ROMINA STEPPUHN BLOMEYER Total:	**120.00**
Vendor: T4262 - ROSALBA LOPEZ					
100-4809	ROSALBA LOPEZ	Recreation Refund-Soccer (Leonel Cardona)	2000792.002		35.00
				Vendor T4262 - ROSALBA LOPEZ Total:	**35.00**
Vendor: 5263 - SAMUEL KANG					
100-1005-7648	SAMUEL KANG	Council Vehicle Allowance	5/2020		75.00
				Vendor 5263 - SAMUEL KANG Total:	**75.00**
Vendor: 2699 - SAN GABRIEL VALLEY COUNCIL OF GOVERNMENTS					
100-1405-7980	SAN GABRIEL VALLEY COUNCI	VMT Analysis Project	SGV-VMT-08		12,229.00
				Vendor 2699 - SAN GABRIEL VALLEY COUNCIL OF GOVERNMENTS Total:	**12,229.00**
Vendor: 5497 - SARA VASQUEZ					
100-1405-7690	SARA VASQUEZ	Planning Commission Meetin	4/20/2020		50.00
				Vendor 5497 - SARA VASQUEZ Total:	**50.00**
Vendor: 6178 - SEAN H MCBRIDE					
100-1410-7636	SEAN H MCBRIDE	Safety Work Boots	7122638		242.49
				Vendor 6178 - SEAN H MCBRIDE Total:	**242.49**
Vendor: T4227 - SHARON RIGGS					
100-4801	SHARON RIGGS	Class Refund-Karate (Mason Riggs)	2000089.003		48.00
				Vendor T4227 - SHARON RIGGS Total:	**48.00**
Vendor: T3362 - SHAWNA WINGERT					
100-4801	SHAWNA WINGERT	Class Refund-Hip Hop Dance (Bryce Barnhart)	2000083.003		45.00
				Vendor T3362 - SHAWNA WINGERT Total:	**45.00**
Vendor: T4240 - SHEILA BRIGGS					
100-4809	SHEILA BRIGGS	Recreation Refund-Soccer (Macie Briggs)	2000791.002		35.00
100-4809	SHEILA BRIGGS	Rec Refund-Little All Stars (Quinn Briggs)	2000779.002		35.00
				Vendor T4240 - SHEILA BRIGGS Total:	**70.00**
Vendor: T4241 - SINDHU CHANDRAN					
100-4809	SINDHU CHANDRAN	Rec Refund-Little All Stars (Arjun Sunil)	2000774.002		35.00

Account Number	Vendor Name	Description (Item)	Payable Number	Project Account Key	Amount
100-4809	SINDHU CHANDRAN	Recreation Refund-Soccer (Aarav Sunil)	2000810.002		35.00
				Vendor T4241 - SINDHU CHANDRAN Total:	**70.00**
Vendor: 5691 - SITEONE LANDSCAPE SUPPLY HOLDING LLC					
100-1415-7889	SITEONE LANDSCAPE SUPPLY	Lower Field Sports Park Irrigation Repairs	98849203-001		460.51
				Vendor 5691 - SITEONE LANDSCAPE SUPPLY HOLDING LLC Total:	**460.51**
Vendor: T4215 - STACY BESTPITCH					
100-4801	STACY BESTPITCH	Class Refund-Tap (Andi Bestpitch)	2000100.003		35.00
				Vendor T4215 - STACY BESTPITCH Total:	**35.00**
Vendor: 2688 - STAPLES ADVANTAGE					
100-1010-7614	STAPLES ADVANTAGE	Office Supplies	3445248585		102.91
100-1605-7614	STAPLES ADVANTAGE	Office Supplies	3445409316		57.30
100-1205-7614	STAPLES ADVANTAGE	PS Office Supplies	3445409317		66.81
100-1825-7613	STAPLES ADVANTAGE	PS Copier Paper	3445409317		108.37
100-1805-7614	STAPLES ADVANTAGE	Document Holders	3445520925		27.36
100-1805-7614	STAPLES ADVANTAGE	Expendable Files/Printer Ink	3445520926		60.28
100-1010-7614	STAPLES ADVANTAGE	Office Supplies	3445520927		231.24
100-1605-7614	STAPLES ADVANTAGE	Sharpies	3445768874		51.74
				Vendor 2688 - STAPLES ADVANTAGE Total:	**706.01**
Vendor: 0083 - STEVE ESBENSHADE					
100-1825-7674	STEVE ESBENSHADE	Health Insurance Reimbursement	5/2020		218.00
				Vendor 0083 - STEVE ESBENSHADE Total:	**218.00**
Vendor: 3661 - SUPERIOR CT OF CAL CO OF LOS ANGELES					
100-1205-7761	SUPERIOR CT OF CAL CO OF L	Citation Tax Revenue 3/2020	4202020		7,541.50
				Vendor 3661 - SUPERIOR CT OF CAL CO OF LOS ANGELES Total:	**7,541.50**
Vendor: T4248 - SUSANA MUNOZ					
100-4809	SUSANA MUNOZ	Rec Refund-Little All Stars (Osiris Lobbins)	2000781.002		35.00
				Vendor T4248 - SUSANA MUNOZ Total:	**35.00**
Vendor: T4213 - TED SUGATA					
100-4801	TED SUGATA	Class Refund-Tennis (Lewis Sugata)	2000105.003		58.00
				Vendor T4213 - TED SUGATA Total:	**58.00**
Vendor: 4241 - THE SAUCE CREATIVE SERVICES CORP					
100-1605-7739	THE SAUCE CREATIVE SERVICE	Registration Street Banner	4223		1,110.50
100-1020-7712	THE SAUCE CREATIVE SERVICE	COVID-19 Community Banner	4224	202024-Comm Information-C	1,110.50
				Vendor 4241 - THE SAUCE CREATIVE SERVICES CORP Total:	**2,221.00**
Vendor: 5029 - THE TECHNOLOGY DEPOT INC					
100-1815-7830	THE TECHNOLOGY DEPOT INC	Telephone Cloud Srvcs 5/2020	13248		564.00
100-1815-7830	THE TECHNOLOGY DEPOT INC	Mitel Maintenance 5/2020	13249		422.00
100-1815-7830	THE TECHNOLOGY DEPOT INC	SD Wan w/VELO Cloud Connect 5/2020	13250		567.60
100-1815-7821	THE TECHNOLOGY DEPOT INC	VITA Mgmt 5/2020	13251		553.00
				Vendor 5029 - THE TECHNOLOGY DEPOT INC Total:	**2,106.60**
Vendor: 6100 - TONEY LEWIS					
100-1005-7650	TONEY LEWIS	Council Vehicle Allowance	5/2020		75.00
				Vendor 6100 - TONEY LEWIS Total:	**75.00**
Vendor: T4225 - TRANG QUACH					
100-4801	TRANG QUACH	Class Refund-Karate (Kurt Gartland)	2000090.003		48.00
				Vendor T4225 - TRANG QUACH Total:	**48.00**
Vendor: T4246 - TRISHA LONG					
100-4809	TRISHA LONG	Rec Refund-Little All Stars (Amelie Long)	2000778.002		35.00

Account Number	Vendor Name	Description (Item)	Payable Number	Project Account Key	Amount
100-4809	TRISHA LONG	Rec Refund-Little All Stars (Sawyer Long)	2000785.002		35.00
				Vendor T4246 - TRISHA LONG Total:	**70.00**
Vendor: T4267 - TSUNG-YI WANG					
100-4809	TSUNG-YI WANG	Recreation Refund-Soccer (Yusuke Ono)	2000795.002		35.00
				Vendor T4267 - TSUNG-YI WANG Total:	**35.00**
Vendor: 0567 - TZEITEL PARAS-CARACCI					
100-1005-7646	TZEITEL PARAS-CARACCI	Council Vehicle Allowance	5/2020		75.00
				Vendor 0567 - TZEITEL PARAS-CARACCI Total:	**75.00**
Vendor: 4484 - U.S. BANK					
100-1405-7610	U.S. BANK	Cecilia Contreras IIMC Certification	04272020CH		125.00
100-1405-7610	U.S. BANK	Craig Hensley Online Conference (APA)	04272020CH		125.00
100-1405-7612	U.S. BANK	Large Data File Transfer (Hightail)	04272020CH		15.99
100-1405-7802	U.S. BANK	NPDES Marking Materials (4Imprint)	04272020CH		799.56
100-1405-7980	U.S. BANK	Street Sign Sales (Shopify)	04272020CH	202018 Other Exp.Street Nam	32.77
100-1020-7726	U.S. BANK	Adobe Creative Cloud	4272020KP		34.99
100-1205-7650	U.S. BANK	Vehicle 24 Tires & Brake Service	4272020KP		1,382.04
100-1405-7612	U.S. BANK	Adobe Creative Cloud	4272020KP		101.94
100-1605-7733	U.S. BANK	SC Netflix	4272020KP		8.75
100-1605-7735	U.S. BANK	TC Netflix	4272020KP		12.99
100-1805-7610	U.S. BANK	Employee Meeting 3/26/20 (T Burgers)	4272020KP		69.99
100-1805-7614	U.S. BANK	ADS Hand Sanitizer (COVID-19) (Amazon)	4272020KP	202024 -Office Supp-Coronavi	32.40
100-1805-7980	U.S. BANK	Microsoft 365 3/27/20 - 4/26/20	4272020KP		12.00
100-1815-7632	U.S. BANK	HR/Michelle-Adobe AcroPro	4272020KP		14.99
100-1815-7632	U.S. BANK	cityofduarte.com 4/7/2020 - 4/6/2021 (Zoom)	4272020KP		149.90
100-1815-7632	U.S. BANK	Adobe Creative Cloud	4272020KP		314.91
100-1815-7830	U.S. BANK	SC Elevator 911-Vonage	4272020KP		22.37
100-2121	U.S. BANK	KP Wrong Credit Card Purchase (Tactics)	4272020KP		51.05
100-2123	U.S. BANK	Special Event Insurance 1/1/20 - 3/31/20 (Alliant)	4272020KP		842.00
				Vendor 4484 - U.S. BANK Total:	**4,148.64**
Vendor: T4243 - VERONICA DEBELLIS					
100-4809	VERONICA DEBELLIS	Rec Refund-Little All Stars (Rico Hernandez)	2000776.002		35.00
				Vendor T4243 - VERONICA DEBELLIS Total:	**35.00**
Vendor: T4195 - VICTOR MUNOZ					
100-2200	VICTOR MUNOZ	CC Rent Refund (COVID-19)	R84201		100.00
				Vendor T4195 - VICTOR MUNOZ Total:	**100.00**
Vendor: 5835 - WALLACE WOLFF					
100-1405-7690	WALLACE WOLFF	Planning Commission Meetin	4/20/2020		50.00
				Vendor 5835 - WALLACE WOLFF Total:	**50.00**
Vendor: 0237 - WAXIE SANITARY SUPPLY					
100-1610-7618	WAXIE SANITARY SUPPLY	Janitorial Supplies (COVID-19)	79106493	202024-Bldg Supp-Coronaviru	74.34
				Vendor 0237 - WAXIE SANITARY SUPPLY Total:	**74.34**
Vendor: 5992 - WESTERN EXTERMINATOR COMPANY					
100-1610-7652	WESTERN EXTERMINATOR CO	SC Pest Control Srvcs 4/2020	8035617		60.00
100-1610-7652	WESTERN EXTERMINATOR CO	CC Pest Control Srvcs 4/2020	8035618		60.00
100-1610-7652	WESTERN EXTERMINATOR CO	CH Pest Control Srvcs 4/2020	8035619		60.00

Account Number	Vendor Name	Description (Item)	Payable Number	Project Account Key	Amount
100-1610-7652	WESTERN EXTERMINATOR CO	FC/Pool Pest Control Srvcs 4/2020	8035620		60.00
				Vendor 5992 - WESTERN EXTERMINATOR COMPANY Total:	**240.00**
Vendor: 4797 - WEX BANK					
100-1410-7650	WEX BANK	Fuel-CNG 3/1/20 - 3/31/20	64611539		35.87
				Vendor 4797 - WEX BANK Total:	**35.87**
Vendor: T4196 - YARLEY LOPEZ					
100-4204	YARLEY LOPEZ	Dog License Overpayment	DL28728		15.00
				Vendor T4196 - YARLEY LOPEZ Total:	**15.00**
				Fund 100 - GENERAL FUND Total:	**636,148.98**
Fund: 220 - GAS TAX FUN					
Vendor: 6141 - JTB SUPPLY COMPANY					
220-2205-8100	JTB SUPPLY COMPANY	11' Sign Arms	107261		12,285.90
220-2225-8070	JTB SUPPLY COMPANY	11' Sign Arms	107261		7,333.15
				Vendor 6141 - JTB SUPPLY COMPANY Total:	**19,619.05**
Vendor: 3844 - MARTINEZ CONCRETE INC					
220-2225-7980	MARTINEZ CONCRETE INC	AC Repair - Bike Trail	20033		24,497.60
				Vendor 3844 - MARTINEZ CONCRETE INC Total:	**24,497.60**
				Fund 220 - GAS TAX FUN Total:	**44,116.65**
Fund: 240 - LIGHTING AND LANDSCAPE DISTRICT FUND					
Vendor: 1570 - A1 MAINTENANCE SERVICES CA					
240-2426-7810	A1 MAINTENANCE SERVICES	Grocery Outlet Sweeping 4/2020	193129		784.00
				Vendor 1570 - A1 MAINTENANCE SERVICES CA Total:	**784.00**
Vendor: 2028 - COUNTY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS					
240-2405-7890	COUNTY OF LOS ANGELES DEP	Traffic Signal Maintenance 3/2020	REPW-20040605197		14,194.30
				Vendor 2028 - COUNTY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS Total:	**14,194.30**
Vendor: 5691 - SITEONE LANDSCAPE SUPPLY HOLDING LLC					
240-2410-7888	SITEONE LANDSCAPE SUPPLY	Hacienda/Thorsen Park Irrigaiton Repairs	98768319-001		737.72
				Vendor 5691 - SITEONE LANDSCAPE SUPPLY HOLDING LLC Total:	**737.72**
Vendor: 2809 - STATE OF CALIFORNIA DEPT OF TRANSPORTATION					
240-2405-7877	STATE OF CALIFORNIA DEPT O	Signal & Lighting 1/1/20 - 3/31/20	SL200784		561.75
				Vendor 2809 - STATE OF CALIFORNIA DEPT OF TRANSPORTATION Total:	**561.75**
Vendor: 1521 - WEST COAST ARBORISTS INC					
240-2410-7906	WEST COAST ARBORISTS INC	Citywide Tree Trimming	159340		20,640.00
240-2410-7909	WEST COAST ARBORISTS INC	Citywide Tree Trimming	159340		1,792.00
				Vendor 1521 - WEST COAST ARBORISTS INC Total:	**22,432.00**
				Fund 240 - LIGHTING AND LANDSCAPE DISTRICT FUND Total:	**38,709.77**
Fund: 290 - SUPPLEMENTAL LAW ENFORCEMENT FUND					
Vendor: 0056 - LOS ANGELES COUNTY SHERIFF'S DEPARTMENT					
290-2905-7781	LOS ANGELES COUNTY SHERIF	Sheriff Contract 2/2020	202871AL		10,000.00
				Vendor 0056 - LOS ANGELES COUNTY SHERIFF'S DEPARTMENT Total:	**10,000.00**
				Fund 290 - SUPPLEMENTAL LAW ENFORCEMENT FUND Total:	**10,000.00**
Fund: 440 - PROPOSITION A TRANSIT FUND					
Vendor: 0903 - CITY OF MONROVIA					
440-4405-7650	CITY OF MONROVIA	Fuel-Transportation Dept 2/2020	2002222		157.93
				Vendor 0903 - CITY OF MONROVIA Total:	**157.93**
Vendor: 3192 - FOOTHILL TRANSIT					
440-4405-8013	FOOTHILL TRANSIT	13th Installment of 3rd Bus 4/2020	F2802-0420		4,523.11

Account Number	Vendor Name	Description (Item)	Payable Number	Project Account Key	Amount
440-4405-7960	FOOTHILL TRANSIT	Duarte Local Service 3/2020	SI007483		24,469.30
				Vendor 3192 - FOOTHILL TRANSIT Total:	**28,992.41**
				Fund 440 - PROPOSITION A TRANSIT FUND Total:	**29,150.34**
Fund: 460 - PROPOSITION C TRANSIT FUND					
Vendor: 3192 - FOOTHILL TRANSIT					
460-4605-8013	FOOTHILL TRANSIT	13th Installment of 3rd Bus 4/2020	F2802-0420		2,544.25
460-4605-7960	FOOTHILL TRANSIT	Duarte Local Service 3/2020	SI007483		20,020.34
				Vendor 3192 - FOOTHILL TRANSIT Total:	**22,564.59**
				Fund 460 - PROPOSITION C TRANSIT FUND Total:	**22,564.59**
				Grand Total:	**780,690.33**

Report Summary

Fund Summary

Fund	Payment Amount
100 - GENERAL FUND	636,148.98
220 - GAS TAX FUN	44,116.65
240 - LIGHTING AND LANDSCAPE DISTRICT FUND	38,709.77
290 - SUPPLEMENTAL LAW ENFORCEMENT FUND	10,000.00
440 - PROPOSITION A TRANSIT FUND	29,150.34
460 - PROPOSITION C TRANSIT FUND	22,564.59
Grand Total:	**780,690.33**

Account Summary

Account Number	Account Name	Payment Amount
100-1005-7614	Office Supplies	455.99
100-1005-7642	Travel & Exp - Finlay	75.00
100-1005-7646	Travel & Exp - Paras	1,846.78
100-1005-7648	Travel & Exp - Kang	75.00
100-1005-7649	Travel & Exp - Urias	75.00
100-1005-7650	Travel & Exp - Lewis	75.00
100-1010-7614	Office Supplies	334.15
100-1015-7682	Labor Counsel Legal	3,283.50
100-1020-7710	Chamber Of Commerce	1,600.00
100-1020-7712	Community Information	3,498.50
100-1020-7716	Special Community Even	882.00
100-1020-7726	Council Cablecasting	34.99
100-1020-7980	Other Expenses	882.00
100-1205-7614	Office Supplies	66.81
100-1205-7650	Vehicle Maintenance	2,405.65
100-1205-7761	Parking Ticket Collect	7,541.50
100-1205-7779	Youth Programs	200.00
100-1205-7780	Animal Control	1,324.50
100-1205-7781	Contract Law Enforceme	357,885.83
100-1205-7782	Crossing Guard Contract	1,863.90
100-1205-7787	Public Safety Cntr Lease	11,707.00
100-1405-7610	Travel, Mtgs & Conf	250.00
100-1405-7612	Publications and Dues	117.93
100-1405-7650	Vehicle Maintenance	51.61
100-1405-7690	Planning Commission	250.00
100-1405-7802	NPDES Requirements	1,605.81
100-1405-7969	City Engineer	2,367.50
100-1405-7975	Economic Development	300.00
100-1405-7980	Other Expenses	12,261.77
100-1410-7636	Uniforms	642.49
100-1410-7650	Vehicle Maintenance	2,293.73
100-1410-7810	Street Sweeping	122.00
100-1415-7889	Repairs-Sports Park	460.51
100-1605-7610	Travel, Mtgs & Conf	68.76
100-1605-7614	Office Supplies	138.57
100-1605-7650	Vehicle Maintenance	188.58
100-1605-7653	Active Net Fees	5.60
100-1605-7730	Special Events	267.97
100-1605-7733	Senior Center	26.26
100-1605-7735	Teen Center	12.99
100-1605-7739	Publicity	1,110.50
100-1605-7980	Other Expenses	117.72
100-1610-7617	Pool Chemicals	491.49
100-1610-7618	Building Supplies	236.52
100-1610-7636	Uniforms	421.19
100-1610-7652	Building Maint Services	5,559.29
100-1610-8100	Other Capital Improvem	187,500.00

Account Summary

Account Number	Account Name	Payment Amount
100-1805-7610	Travel, Mtgs & Conf	69.99
100-1805-7614	Office Supplies	120.04
100-1805-7980	Other Expenses	12.00
100-1810-7980	Other Expenses	100.00
100-1815-7632	Software Maintenance	3,632.11
100-1815-7821	Personal Computer Supp	553.00
100-1815-7830	Telephones	1,575.97
100-1815-7965	Professional Services	8,700.00
100-1815-7980	Other Expenses	353.29
100-1820-7771	Repair Of City Property	2,662.33
100-1825-7613	Duplications And Photos	330.63
100-1825-7626	Postage	240.00
100-1825-7630	Equipment Lease	1,972.89
100-1825-7631	Equipment Maintenance	333.69
100-1825-7674	Retiree Health Insurance	2,525.00
100-2023	EE City Kitty Contributio	75.00
100-2120	Refundable Deposits	500.00
100-2121	Pass Through Deposits	51.05
100-2122	Disability Access & Educ	132.40
100-2123	Special Event Insurance (	842.00
100-2126	Construction and Demol	1,747.20
100-2127	Retention Payable	-9,375.00
100-2200	Unearned Revenue	100.00
100-4204	Animal Licenses	57.50
100-4402	Community Center Rent	100.00
100-4406	Restroom & Gazebo Ren	225.00
100-4801	Recreation Class Fees	2,910.00
100-4806	Excursion Fees	796.00
100-4809	Sports Program Fees	1,825.00
220-2205-8100	Other Capital Improvem	12,285.90
220-2225-7980	Other Expenses	24,497.60
220-2225-8070	Street Improvements (C	7,333.15
240-2405-7877	Electric-Traffic Signal	561.75
240-2405-7890	Repairs-Traffic Signal	14,194.30
240-2410-7888	Repairs-Citywide	737.72
240-2410-7906	Tree Trim-Citywide	20,640.00
240-2410-7909	Tree Trim-Residential	1,792.00
240-2426-7810	Street Sweeping	784.00
290-2905-7781	Contract Law Enforceme	10,000.00
440-4405-7650	Vehicle Maintenance	157.93
440-4405-7960	Foothill Transit Operatio	24,469.30
440-4405-8013	Vehicles (Capital)	4,523.11
460-4605-7960	Foothill Tranist Operatio	20,020.34
460-4605-8013	Vehicles	2,544.25
	Grand Total:	**780,690.33**

Project Account Summary

Project Account Key	Payment Amount
None	566,428.97
201724-COH/ADA Improv-City Engineer	1,840.00
201914-Sheriff Contract-Cal VIP	17,381.12
202017-Infrastructure Modernization Program	187,500.00
202018 Other Exp.Street Name Sign Sale	32.77
202024 -Office Supp-Coronavirus Response	32.40
202024-Bldg Supp-Coronavirus Response	74.34
202024-Comm Information-Coronavirus Response	1,110.50
202024-Lunch Program-Coronavirus Response	1,863.90
202024-Other Expenses/Coronavirus Response	882.00

Project Account Summary

Project Account Key	Payment Amount
202024-Special Comm Events-Coronavirus Response	882.00
DMGE050-Sink Hole Repair/Buena Vista & Duarte Rd.	2,662.33
Grand Total:	**780,690.33**

City of Duarte

Council Warrant Register By Account
By Fund

Payment Dates 04/30/2020 - 5/13/2020

Account Number	Vendor Name	Description (Item)	Payment Number	Project Account Key	Amount
Fund: 100 - GENERAL FUND					
100-1205-7780	DUARTE-AZUSA ANIMAL HOS	Emergency Animal Care	214865		300.00
100-1205-7780	DUARTE-AZUSA ANIMAL HOS	Emergency Animal Care	214865		50.00
100-1205-7780	DUARTE-AZUSA ANIMAL HOS	Emergency Animal Care	214865		50.00
100-1205-7780	DUARTE-AZUSA ANIMAL HOS	Emergency Animal Care	214865		600.00
100-1205-7780	DUARTE-AZUSA ANIMAL HOS	Emergency Animal Care	214865		50.00
100-1610-7618	GRAINGER	Plumbing Fixture	438		162.18
100-1605-7730	HOLIDAY GOO INC	Spring Camp Supplies	214885		209.39
100-1205-7781	LOS ANGELES COUNTY SHERIF	Sheriff Contract 2/2020	214903		336,094.42
100-1205-7781	LOS ANGELES COUNTY SHERIF	Sheriff Contract 2/2020	214903	201914-Sheriff Contract-Cal VI	17,381.12
100-1405-7975	MADIA TECH LAUNCH INC	Regional Economic Development Group Membership	214907		300.00
100-1825-7626	POSTMASTER	Permit #33 Marketing Mail Fe	214932		240.00
100-4406	ACTIVE NETWORK LLC	Active Net Refunds (COVID-19	429		225.00
100-4809	ACTIVE NETWORK LLC	Active Net Refunds (COVID-19	429		35.00
100-1605-7653	ACTIVE NETWORK LLC	Active Net Refunds (COVID-19	429		0.50
100-1005-7614	GRAND PRINTING INC	Finlay/Lewis/Kang Business Cards	214879		455.99
100-1825-7613	GRAND PRINTING INC	D Joedan/C Grinder Business Cards	214879		222.26
100-1410-7650	COASTLINE EQUIPMENT	Skid Steer Service	434		1,417.07
100-4801	ACTIVE NETWORK LLC	Active Net Refunds (COVID-19	429		51.00
100-4806	ACTIVE NETWORK LLC	Active Net Refunds (COVID-19	429		796.00
100-4809	ACTIVE NETWORK LLC	Active Net Refunds (COVID-19	429		35.00
100-1605-7653	ACTIVE NETWORK LLC	Active Net Refunds (COVID-19	429		5.10
100-1610-7636	CINTAS CORPORATION #693	Facility Maintenance Uniform	214855		35.00
100-1610-7652	ACCO ENGINEERED SYSTEMS	Town Ctr/Senior Ctr HVAC Maintenance (3 mo)	214832		3,296.75
100-1610-7652	CHARLIE'S FENCE CO	Skate Park Fence Repair	214853		525.00
100-1815-7830	THE TECHNOLOGY DEPOT INC	Telephone Cloud Srvcs 5/2020	446		564.00
100-1815-7830	THE TECHNOLOGY DEPOT INC	Mitel Maintenance 5/2020	446		422.00
100-1815-7830	THE TECHNOLOGY DEPOT INC	SD Wan w/VELO Cloud Connect 5/2020	446		567.60
100-1815-7821	THE TECHNOLOGY DEPOT INC	VITA Mgmt 5/2020	446		553.00
100-1205-7782	ALL CITY MANAGEMENT SERV	COVID-19 Lunch Prgm X-Guards 3/22/20 - 4/4/20	430	202024-Lunch Program-Coron	1,242.60
100-1410-7650	CITY OF MONROVIA	Fuel-Field Srvcs 2/2020	214915		840.79
100-1605-7650	CITY OF MONROVIA	Fuel-Parks & Rec 2/2020	214915		188.58
100-1205-7650	CITY OF MONROVIA	Fuel-Public Safety 2/2020	214915		1,023.61
100-1405-7650	CITY OF MONROVIA	Fuel-Cmty Development 2/2020	214915		51.61
100-1205-7781	CITY OF MONROVIA	Fuel-Sheriff's Dept 2/2020	214915		4,410.29
100-1610-7636	HENDERSON'S	Facility Maint Uniform Hats	214884		351.69
100-1610-7652	WESTERN EXTERMINATOR CO	SC Pest Control Srvcs 4/2020	214965		60.00
100-1610-7652	WESTERN EXTERMINATOR CO	CC Pest Control Srvcs 4/2020	214965		60.00
100-1610-7652	WESTERN EXTERMINATOR CO	CH Pest Control Srvcs 4/2020	214965		60.00
100-1610-7652	WESTERN EXTERMINATOR CO	FC/Pool Pest Control Srvcs 4/2020	214965		60.00
100-1825-7630	CANON FINANCIAL SERVICES I	PS Copier Lease 4/1/20 - 4/30/20	214849		399.67
100-1825-7631	CANON FINANCIAL SERVICES I	PS Copier Maintenance 3/1/20 - 3/31/20	214849		103.55
100-1825-7630	CANON FINANCIAL SERVICES I	CH (2)/SC/TC Copier Lease 4/1/20 - 4/30/20	214849		869.55
100-1410-7636	JACOB RUNNING	Safety Work Boots	214942		400.00

Account Number	Vendor Name	Description (Item)	Payment Number	Project Account Key	Amount
100-1410-7810	A1 MAINTENANCE SERVICES	Las Brisas Sweeping 4/2020	214830		61.00
100-1410-7810	A1 MAINTENANCE SERVICES	Las Posadas Sweeping 4/2020	214830		61.00
100-1405-7969	RKA CONSULTING GROUP	City of Hope Engineering Inspections 3/2020	214939	201724-COH/ADA Improv-City	1,840.00
100-1610-7617	FULLER ENGINEERING INC	Pool Chemicals	214872		436.08
100-1405-7969	RKA CONSULTING GROUP	ATP Cycle 4 Ped Access/Bike Safety 3/2020	214939		527.50
100-1405-7802	RKA CONSULTING GROUP	Catch Basin CPS Retrofit Project 3/2020	214939		806.25
100-1010-7614	STAPLES ADVANTAGE	Office Supplies	445		102.91
100-1825-7631	CANON SOLUTIONS AMERICA	CH (2) Copier Maint 3/16/20 - 4/15/20	214850		218.84
100-1825-7631	CANON SOLUTIONS AMERICA	SC Copier Maint 3/16/20 - 4/15/20	214850		5.38
100-1825-7631	CANON SOLUTIONS AMERICA	TC Copier Maint 3/16/20 - 4/15/20	214850		5.92
100-1410-7636	SEAN H MCBRIDE	Safety Work Boots	214913		242.49
100-1605-7614	STAPLES ADVANTAGE	Office Supplies	445		57.30
100-1205-7614	STAPLES ADVANTAGE	PS Office Supplies	445		66.81
100-1825-7613	STAPLES ADVANTAGE	PS Copier Paper	445		108.37
100-4204	YARLEY LOPEZ	Dog License Overpayment	214902		15.00
100-1610-7652	CHARLIE'S FENCE CO	Skate Park Fence Repair	214853		475.00
100-1815-7965	MAXTREME INC	IT Helpdesk 4/2020	442		8,700.00
100-1815-7980	MAXTREME INC	Crash Plan Recovery 4/2020	442		200.00
100-4801	JUANA MAGDALENO	Class Refund-Critical Reading (Gael Aguirre)	214908		93.00
100-4801	ANNAMARIE APPLEGARTH	Class Refund-Ballet (Stella Applegarth)	214835		34.00
100-1610-7617	POOL & ELECTRICAL PRODUC	Pool Chemicals	214931		55.41
100-1205-7761	SUPERIOR CT OF CAL CO OF L	Citation Tax Revenue 3/2020	214952		7,541.50
100-1405-7690	CHRISTINA HEANY	Planning Commission Meetin	439		50.00
100-1020-7710	LUDECKE PROPERTY MANAGE	Chamber Lease 5/2020	214904		1,600.00
100-1405-7690	PAULA WATSON-GARDNER	Planning Commission Meetin	451		50.00
100-1405-7690	GEORGE K FARRA	Planning Commission Meetin	214868		50.00
100-1405-7690	WALLACE WOLFF	Planning Commission Meetin	214967		50.00
100-1405-7690	SARA VASQUEZ	Planning Commission Meetin	214957		50.00
100-1610-7636	CINTAS CORPORATION #693	Facility Maintenance Uniform	214855		34.50
100-1610-7652	CINTAS CORPORATION #693	Logo Mats	214855		21.04
100-1205-7782	ALL CITY MANAGEMENT SERV	COVID-19 Lunch Prgm X-Guard 4/5/20 - 4/18/20	430	202024-Lunch Program-Coron	621.30
100-1610-7618	WAXIE SANITARY SUPPLY	Janitorial Supplies (COVID-19)	214964	202024-Bldg Supp-Coronaviru	74.34
100-1805-7614	STAPLES ADVANTAGE	Document Holders	445		27.36
100-1805-7614	STAPLES ADVANTAGE	Expendable Files/Printer Ink	445		60.28
100-1010-7614	STAPLES ADVANTAGE	Office Supplies	445		231.24
100-1415-7889	SITEONE LANDSCAPE SUPPLY	Lower Field Sports Park Irrigation Repairs	214947		460.51
100-4204	MARIA DE LOURDES CRUZ	Dog License Overpayment	214858		27.50
100-1825-7630	QUADIENT LEASING USA INC	Postage Machine Lease 5/23/20 - 8/22/20	214934		703.67
100-1820-7771	GENTRY BROTHERS INC	Emergnecy Sinkhole Repair (Duarte Rd/BV)	214877	DMGE050-Sink Hole Repair/B	2,662.33
100-1815-7632	MAXTREME INC	Gsuite accessduarte.com 2/2020	442		1,062.19
100-1815-7632	MAXTREME INC	Gsuite accessduarte.com 3/2020	442		1,088.12
100-1815-7632	MAXTREME INC	Office 365 Licenses 2/2020	442		429.00
100-1815-7632	MAXTREME INC	Gsuite Maxhavens 3/2020	442		72.00
100-1815-7632	MAXTREME INC	Office 365 Licenses 3/2020	442		429.00
100-1815-7632	MAXTREME INC	Gsuite Maxhavens 2/2020	442		72.00
100-1205-7779	AIDA TORRES	DART Masks	447		100.00
100-1205-7780	DUARTE-AZUSA ANIMAL HOS	Emergency Animal Care	214865		274.50
100-1205-7787	MVP, LLC	Public Safety Lease	443		11,707.00

Account Number	Vendor Name	Description (Item)	Payment Number	Project Account Key	Amount
100-1605-7614	STAPLES ADVANTAGE	Sharpies	445		51.74
100-1405-7610	U.S. BANK	Craig Hensley Online Conference (APA)	448		125.00
100-1405-7610	U.S. BANK	Cecilia Contreras IIMC Certification	448		125.00
100-1405-7612	U.S. BANK	Large Data File Transfer (Hightail)	448		15.99
100-1405-7802	U.S. BANK	NPDES Marking Materials (4Imprint)	448		799.56
100-1405-7980	U.S. BANK	Street Sign Sales (Shopify)	448	202018 Other Exp.Street Nam	32.77
100-1605-7739	THE SAUCE CREATIVE SERVICE	Registration Street Banner	444		1,110.50
100-1020-7712	THE SAUCE CREATIVE SERVICE	COVID-19 Community Banner	444	202024-Comm Information-C	1,110.50
100-1020-7726	U.S. BANK	Adobe Creative Cloud	449		34.99
100-1205-7650	U.S. BANK	Vehicle 24 Tires & Brake Service	449		1,382.04
100-1405-7612	U.S. BANK	Adobe Creative Cloud	449		101.94
100-1605-7733	U.S. BANK	SC Netflix	449		8.75
100-1605-7735	U.S. BANK	TC Netflix	449		12.99
100-1805-7610	U.S. BANK	Employee Meeting 3/26/20 (T Burgers)	449		69.99
100-1805-7614	U.S. BANK	ADS Hand Sanitizer (COVID-19) (Amazon)	449	202024 -Office Supp-Coronavi	32.40
100-1805-7980	U.S. BANK	Microsoft 365 3/27/20 - 4/26/20	449		12.00
100-1815-7632	U.S. BANK	cityofduarte.com 4/7/2020 - 4/6/2021 (Zoom)	449		149.90
100-1815-7632	U.S. BANK	Adobe Creative Cloud	449		314.91
100-1815-7632	U.S. BANK	HR/Michelle-Adobe AcroPro	449		14.99
100-1815-7830	U.S. BANK	SC Elevator 911-Vonage	449		22.37
100-2121	U.S. BANK	KP Wrong Credit Card Purchase (Tactics)	449		51.05
100-2123	U.S. BANK	Special Event Insurance 1/1/20 - 3/31/20 (Alliant)	449		842.00
100-1005-7646	MAXTREME INC	Paras-Caracci Computer	442		1,771.78
100-1815-7980	MAXTREME INC	Manuel Enriquez Airpods (Desk Phone)	442		153.29
100-4809	JENNY FRARY	Recreation Refund-Pickleball (Sander Frary)	214871		35.00
100-4809	JENNY FRARY	Recreation Refund-Soccer (Kera Frary)	214871		35.00
100-4809	JENNY FRARY	Recreation Refund-Soccer (Sander Frary)	214871		35.00
100-4809	JENNY FRARY	Recreation Refund-Little All Stars (Milo Frary)	214871		35.00
100-4809	JENNY FRARY	Recreation Refund-Pickleball (Kera Frary)	214871		35.00
100-4809	NARCISO SALDANA	Recreation Refund-Soccer (Alexis Saldana)	214944		35.00
100-4809	NOEL NACALINTAL	Recreation Refund-Soccer (Reine Macalintal)	214906		35.00
100-4809	SHEILA BRIGGS	Recreation Refund-Soccer (Macie Briggs)	214845		35.00
100-4809	ROSALBA LOPEZ	Recreation Refund-Soccer (Leonel Cardona)	214901		35.00
100-4809	TSUNG-YI WANG	Recreation Refund-Soccer (Yusuke Ono)	214963		35.00
100-4809	AMY BENEDETTI	Recreation Refund-Soccer (Jackson Crawford)	214841		35.00
100-4809	JOHN EAGLES	Recreation Refund-Soccer (Adrian Eagles)	214866		35.00
100-4809	ANGEL RAMIREZ	Recreation Refund-Soccer (Michael Ramirez)	214936		35.00
100-4809	GLENN ANDERSON	Recreation Refund-Soccer (Ethan Anderson)	214833		35.00

Account Number	Vendor Name	Description (Item)	Payment Number	Project Account Key	Amount
100-4809	GINA CARRILLO	Recreation Refund-Soccer (Daniel Ortega)	214851		35.00
100-4809	ALEJANDRA LOPEZ	Recreation Refund-Soccer (Mateo Diaz)	214897		35.00
100-4809	ALEJANDRA LOPEZ	Recreation Refund-Soccer (Benjamin Cardona)	214897		35.00
100-4809	GABRIELA MARQUEZ	Recreation Refund-Soccer (Oscar Marquez)	214909		35.00
100-4809	RANJANI RADHAKRISHNAN	Recreation Refund-Soccer (Thaksan Govindaraju)	214935		35.00
100-4809	GABRIEL GONZALEZ	Recreation Refund-Soccer (Gabriel Gonzalez Jr)	214878		35.00
100-4809	KARINA LOPEZ	Recreation Refund-Soccer (Aden Lopez)	214900		35.00
100-4809	GLENN ANDERSON	Recreation Refund-Soccer (William Anderson)	214833		35.00
100-4801	JASMINE GAYTAN	Recreation Refund-Piano (Sofia Castillo)	214876		40.00
100-1020-7716	FSP DESIGNS	Duarte Face Masks	437	202024-Special Comm Events-	882.00
100-1020-7980	FSP DESIGNS	Duarte Face Masks	437	202024-Other Expenses/Coro	882.00
100-4204	EDGAR AYALA	Dog License Overpayment	214838		15.00
100-2126	RICHARD & LISA NUSS	Const/Demo Deposit Refund	214925		1,747.20
100-2200	VICTOR MUNOZ	CC Rent Refund (COVID-19)	214921		100.00
100-4809	LAN JENKINS	Rec Refund-Little All Stars (Donald Jenkins)	214889		35.00
100-4809	ALEJANDRA LOPEZ	Rec Refund-Little All Stars (Maximiliano Diaz)	214897		35.00
100-4809	LUISA VIELMA	Rec Refund-Little All Stars (Logan Vielma)	214959		35.00
100-4809	JESUS ROBLES	Rec Refund-Little All Stars (Dylan Robles)	214940		35.00
100-4809	SINDHU CHANDRAN	Rec Refund-Little All Stars (Arjun Sunil)	214852		35.00
100-4809	NICOLE LECHNER	Rec Refund-Little All Stars (Brandon Gutierrez)	214893		35.00
100-4809	VERONICA DEBELLIS	Rec Refund-Little All Stars (Rico Hernandez)	214860		35.00
100-4809	AMANDA SANCHEZ	Rec Refund-Little All Stars (Lorenzo Sanchez)	214946		35.00
100-4809	TRISHA LONG	Rec Refund-Little All Stars (Amelie Long)	214896		35.00
100-4809	SHEILA BRIGGS	Rec Refund-Little All Stars (Quinn Briggs)	214845		35.00
100-4809	LAUREN MORALES	Rec Refund-Little All Stars (Xander Morales)	214917		35.00
100-4809	SUSANA MUNOZ	Rec Refund-Little All Stars (Osiris Lobbins)	214920		35.00
100-4809	KIMBERELY VASQUEZ	Rec Refund-Little All Stars (Jaylynn Vasquez)	214956		35.00
100-4809	ANDREA MONTERO	Rec Refund-Little All Stars (Ariana Montero)	214916		35.00
100-4809	JASMINE GAYTAN	Rec Refund-Little All Stars (Ricardo Castillo)	214876		35.00
100-4809	TRISHA LONG	Rec Refund-Little All Stars (Sawyer Long)	214896		35.00
100-4809	KIANA DANIELS	Rec Refund-Little All Stars (Ka'layah Palmer)	214859		35.00
100-4809	ANDREW GUZMAN	Rec Refund-Little All Stars (Gunner Guzman)	214881		35.00
100-4809	AL MARTINEZ	Recreation Refund-Soccer (Nicholas Martinez)	214911		35.00
100-4809	AMANDA LEONARD	Recreation Refund-Soccer (Maddox Curtis)	214894		35.00

Account Number	Vendor Name	Description (Item)	Payment Number	Project Account Key	Amount
100-4809	MARK ISIP	Recreation Refund-Soccer (Alexander Isip)	214888		35.00
100-4809	JESSICA LOPEZ	Recreation Refund-Soccer (Oliver Lopez-Driotis)	214899		35.00
100-4809	JESSICA LOPEZ	Recreation Refund-Soccer (Jonathan Lopez-Driotis)	214899		35.00
100-4809	NORMA HOMSI	Recreation Refund-Soccer (Nicholas Homsi)	214886		35.00
100-4809	SINDHU CHANDRAN	Recreation Refund-Soccer (Aarav Sunil)	214852		35.00
100-4809	LISA TSE	Recreation Refund-Soccer (Lawrence Lam)	214954		35.00
100-4809	KAREN BROBECK	Recreation Refund-Soccer (Liam Brobeck)	214847		35.00
100-1015-7682	BURKE, WILLIAMS & SORENSE	Labor Legal 3/2020	431		3,283.50
100-1605-7610	DUARTE RECREATION PETTY C	George Dang CRPS Conference Lunch 3/12/20	214864		14.38
100-1605-7610	DUARTE RECREATION PETTY C	CPRS Conference Parking 3/11/20	214864		40.00
100-1605-7610	DUARTE RECREATION PETTY C	Manuel Enriquez CPRS Conference Lunch 3/12/20	214864		14.38
100-1605-7614	DUARTE RECREATION PETTY C	Staff Meeting Breakfast 3/24/20	214864		29.53
100-1605-7730	DUARTE RECREATION PETTY C	Easter Bunny Visit Lunch 4/11/20	214864		58.58
100-1605-7733	DUARTE RECREATION PETTY C	SC Display Case Supplies	214864		13.14
100-1605-7733	DUARTE RECREATION PETTY C	SC Event Pretzels	214864		4.37
100-1605-7980	DUARTE RECREATION PETTY C	Staff Lunch Meeting 3/19/20	214864		117.72
100-4402	ELIZABETH HUERTA	CC Rent Deposit Refund (COVID-19)	214887		100.00
100-1810-7980	NAVIA BENEFIT SOLUTIONS	FSA Processing Fee 4/2020	214923		100.00
100-4801	LAURA ORTEGA ARIAS	Class Refund-Bachata Dance (Laura Ortega Arias)	214837		40.00
100-4801	ELETRICE HARRIS	Class Refund-Ballet (Marie Harris)	214883		34.00
100-4801	BRENDA VILLEGAS	Class Refund-Ballet (Scarlet Villegas)	214961		38.00
100-4801	IRENE LOPEZ	Class Refund-Ballet (Kimberley Lopez)	214898		38.00
100-4801	HIDEE ROESCH	Class Refund-Ballet (Viviana Roesch)	214941		34.00
100-4801	LINDA MEZA	Class Refund-Ballet (Lucy Meza)	214914		34.00
100-4801	JENINE ABARCA	Class Refund-Ballet (Melody Abarca)	214831		34.00
100-4801	NORMA FARIAS	Class Refund-Ballet (Elizabeth Farias)	214867		34.00
100-4801	HEVERLIN ANGEL	Class Refund-Ballet (Isbella Gamboa)	214834		34.00
100-4801	FAVIOLA DELGADO	Class Refund-Ballet (Sofia Delgado)	214861		34.00
100-4801	ANNAMARIE APPLEGARTH	Class Refund-Ballet (Rose Applegarth)	214835		34.00
100-4801	JOCELYN NUNEZ	Class Refund-Ballet (Ariana Nunez)	214924		34.00
100-4801	AMY BRITTON	Class Refund-Ballet (Anita Medina)	214846		34.00
100-4801	ANNE FINLAY	Class Refund-Ballet (Olivia Finlay)	214869		34.00
100-4801	JEAN WALENTA	Class Refund-Cake Decorating (Hayden Walenta)	214962		35.00
100-4801	LIDIA VALDEZ	Class Refund-Circus Gymnastics (Sarah Alvarez)	214955		45.00

Account Number	Vendor Name	Description (Item)	Payment Number	Project Account Key	Amount
100-4801	ROMINA STEPPUHN BLOMEY	Class Refund-Circus Gymnastics (Ellie Blomeyer)	214843		45.00
100-4801	LAN JENKINS	Class Refund-Circus Gymnastics (Donald Jenkins)	214889		45.00
100-4801	MARYCRUZ MORAN	Class Refund-Dog Obedience/Fitness Bootcamp	214918		75.00
100-4801	JENNIFER LUNA-NGUYEN	Class Refund-Folklorico (Sierra Nguyen)	214905		40.00
100-4801	RENEE SMITH	Class Refund-Golf (Renee Smith)	214948		65.00
100-4801	ADRIEN CHEW	Class Refund-Golf (Ryan Low)	214854		65.00
100-4801	JESSICA LOPEZ	Class Refund-Guitar (Amelie Lopez-Driotis)	214899		55.00
100-4801	LAN JENKINS	Class Refund-Guitar (Emma Jenkins)	214889		55.00
100-4801	MARY TAYLOR	Class Refund-Guitar (Sean Peterson)	214953		55.00
100-4801	SHAWNA WINGERT	Class Refund-Hip Hop Dance (Bryce Barnhart)	214966		45.00
100-4801	ROBERT GAMBOA	Class Refund-Hip Hop Dance (Daniel Gamboa)	214873		45.00
100-4801	JOSEPH JESUCHRISTOPHER	Class Refund-Hip Hop Dance (Ryan Jesuchristopher)	214890		45.00
100-4801	ALEJANDRA LOPEZ	Class Refund-Intro to Drawing (Valentina Diaz)	214897		44.00
100-4801	NOEMI PADILLA	Class Refund-Intro to Drawing (Nicolas Padilla)	214928		44.00
100-4801	EDNA GARCIA	Class Refund-Karate (Kathia Garcia)	214874		48.00
100-4801	SHARON RIGGS	Class Refund-Karate (Mason Riggs)	214938		48.00
100-4801	TRANG QUACH	Class Refund-Karate (Kurt Gartland)	214933		48.00
100-4801	CATHERINE VAZQUEZ	Class Refund-Yoga (Saulo Vazquez)	214958		48.00
100-4801	JENNIFER LUNA-NGUYEN	Class Refund-Karate (Sierra Nguyen)	214905		48.00
100-4801	KAREN MARTINEZ-CASTANED	Class Refund-Karate (Ruben Castaneda)	214912		48.00
100-4801	JOSEPH JESUCHRISTOPHER	Class Refund-Piano (Ryan Jesuchristopher)	214890		40.00
100-4801	RAMON PEREZ	Class Refund-Piano (Victoria Perez)	214930		40.00
100-4809	JESS SAENZ	Class Refund-Pickleball (Jess Saenz)	214943		40.00
100-4801	LAURA ORTEGA ARIAS	Class Refund-Salsa Dance (Laura Ortega Arias)	214837		40.00
100-4801	JEAN WALENTA	Class Refund-Sigma Coding (Hayden Walenta)	214962		75.00
100-4801	ROMINA STEPPUHN BLOMEY	Class Refund-Sigma Coding (Belize Blomeyer)	214843		75.00
100-4801	STACY BESTPITCH	Class Refund-Tap (Andi Bestpitch)	214842		35.00
100-4801	CAITLIN STAVELEY	Class Refund-Tap (Julia Staveley)	214950		35.00
100-4801	LETICIA NANDAYAPA	Class Refund-Tap (Alexis L Nandayapa)	214922		35.00
100-4801	AMY BRITTON	Class Refund-Tap (Anita Medina)	214846		35.00
100-4801	MADHAVI BATHINA	Class Refund-Tennis (Shreevats Seelamsetty)	214839		58.00
100-4801	TED SUGATA	Class Refund-Tennis (Lewis Sugata)	214951		58.00

Account Number	Vendor Name	Description (Item)	Payment Number	Project Account Key	Amount
100-4801	HECTOR VILA	Class Refund-Tennis (Jessica Vila)	214960		58.00
100-4801	ERRA HALIM	Class Refund-Tennis (David Prasetyo)	214882		58.00
100-4801	HECTOR VILA	Class Refund-Tennis (Karen Vila)	214960		58.00
100-4801	KELLY GREER	Class Refund-Tennis (Malia Alvino)	214880		58.00
100-4801	JOSEPH JESUCHRISTOPHER	Class Refund-Tennis (Ryan Jesuchristopher)	214890		58.00
100-4801	LAN JENKINS	Class Refund-Vocals (Donald Jenkins)	214889		45.00
100-4801	MARY MORGAN	Class Refund-Yoga (Mary Morgan)	214919		50.00
100-4801	CLAUDINE DOMINICE	Class Refund-Yoga (Claudine Dominice)	214863		50.00
100-4801	CLAUDINE DOMINICE	Class Refund-Yoga (Gabriela Kirk)	214863		50.00
100-4801	CARIE OSBURN	Class Refund-Yoga (Carie Osburn)	214926		50.00
100-4801	FRANCISCO RAZO	Class Refund-Yoga (Nanette Razo)	214937		50.00
100-1205-7779	OLGALIVIER GARCIA	PS Intern Stipend	214875		100.00
100-1410-7650	WEX BANK	Fuel-CNG 3/1/20 - 3/31/20	EFT09561		35.87
100-1610-8100	CLIMATEC LLC	Infrastructure Modernization Project	214856	202017-Infrastructure Moder	187,500.00
100-2127	CLIMATEC LLC	Rentention	214856		-9,375.00
100-1610-7652	ACCO ENGINEERED SYSTEMS	Teen Ctr HVAC Maintenance (3 mo)	214832		1,001.50
100-2120	NOELIA PADILLA	CC Rent Deposit Refund	214927		500.00
100-1405-7980	SAN GABRIEL VALLEY COUNCI	VMT Analysis Project	214945		12,229.00
100-1005-7642	MARGARET FINLAY	Council Vehicle Allowance	214870		75.00
100-1005-7646	TZEITEL PARAS-CARACCI	Council Vehicle Allowance	214929		75.00
100-1005-7648	SAMUEL KANG	Council Vehicle Allowance	214891		75.00
100-1005-7649	BRYAN URIAS	Council Vehicle Allowance	450		75.00
100-1005-7650	TONEY LEWIS	Council Vehicle Allowance	214895		75.00
100-1825-7674	CATHERINE BRATTA	Health Insurance Reimbursement	214844		435.00
100-1825-7674	LINDA HENDERSON	Health Insurance Reimbursement	440		435.00
100-1825-7674	GINNY JOYCE BELBA	Health Insurance Reimbursement	214840		218.00
100-1825-7674	EFREN CASTRO	Health Insurance Reimbursement	432		566.00
100-1825-7674	JIM KIRCHNER	Health Insurance Reimbursement	214892		435.00
100-1825-7674	STEVE ESBENSHADE	Health Insurance Reimbursement	435		218.00
100-1825-7674	JACQUELINE BURCKHARD	Health Insurance Reimbursement	214848		218.00
100-2023	ANGELA CHIAROMONTE	City Kitty Bereavement Gift	433		75.00
100-2122	DIVISION OF THE STATE ARCHI	Disability Access Fee Q1 2020	214862		132.40
100-1020-7712	ARCHIVESOCIAL INC	ArchiveSocial Annual Renewal (Social Media)	214836		2,388.00
				Fund 100 - GENERAL FUND Total:	**636,148.98**
Fund: 220 - GAS TAX FUN					
220-2205-8100	JTB SUPPLY COMPANY	11' Sign Arms	441		12,285.90
220-2225-8070	JTB SUPPLY COMPANY	11' Sign Arms	441		7,333.15
220-2225-7980	MARTINEZ CONCRETE INC	AC Repair - Bike Trail	214910		24,497.60
				Fund 220 - GAS TAX FUN Total:	**44,116.65**
Fund: 240 - LIGHTING AND LANDSCAPE DISTRICT FUND					
240-2410-7906	WEST COAST ARBORISTS INC	Citywide Tree Trimming	452		20,640.00

Account Number	Vendor Name	Description (Item)	Payment Number	Project Account Key	Amount
240-2410-7909	WEST COAST ARBORISTS INC	Citywide Tree Trimming	452		1,792.00
240-2405-7890	COUNTY OF LOS ANGELES DEP	Traffic Signal Maintenance 3/2020	214857		14,194.30
240-2426-7810	A1 MAINTENANCE SERVICES	Grocery Outlet Sweeping 4/2020	214830		784.00
240-2405-7877	STATE OF CALIFORNIA DEPT O	Signal & Lighting 1/1/20 - 3/31/20	214949		561.75
240-2410-7888	SITEONE LANDSCAPE SUPPLY	Hacienda/Thorsen Park Irrigaiton Repairs	214947		737.72
				Fund 240 - LIGHTING AND LANDSCAPE DISTRICT FUND Total:	**38,709.77**
Fund: 290 - SUPPLEMENTAL LAW ENFORCEMENT FUND					
290-2905-7781	LOS ANGELES COUNTY SHERIF	Sheriff Contract 2/2020	214903		10,000.00
				Fund 290 - SUPPLEMENTAL LAW ENFORCEMENT FUND Total:	**10,000.00**
Fund: 440 - PROPOSITION A TRANSIT FUND					
440-4405-8013	FOOTHILL TRANSIT	13th Installment of 3rd Bus 4/2020	436		4,523.11
440-4405-7650	CITY OF MONROVIA	Fuel-Transportation Dept 2/2020	214915		157.93
440-4405-7960	FOOTHILL TRANSIT	Duarte Local Service 3/2020	436		24,469.30
				Fund 440 - PROPOSITION A TRANSIT FUND Total:	**29,150.34**
Fund: 460 - PROPOSITION C TRANSIT FUND					
460-4605-8013	FOOTHILL TRANSIT	13th Installment of 3rd Bus 4/2020	436		2,544.25
460-4605-7960	FOOTHILL TRANSIT	Duarte Local Service 3/2020	436		20,020.34
				Fund 460 - PROPOSITION C TRANSIT FUND Total:	**22,564.59**
				Grand Total:	**780,690.33**

Report Summary

Fund Summary

Fund	Payment Amount
100 - GENERAL FUND	636,148.98
220 - GAS TAX FUN	44,116.65
240 - LIGHTING AND LANDSCAPE DISTRICT FUND	38,709.77
290 - SUPPLEMENTAL LAW ENFORCEMENT FUND	10,000.00
440 - PROPOSITION A TRANSIT FUND	29,150.34
460 - PROPOSITION C TRANSIT FUND	22,564.59
Grand Total:	**780,690.33**

Account Summary

Account Number	Account Name	Payment Amount
100-1005-7614	Office Supplies	455.99
100-1005-7642	Travel & Exp - Finlay	75.00
100-1005-7646	Travel & Exp - Paras	1,846.78
100-1005-7648	Travel & Exp - Kang	75.00
100-1005-7649	Travel & Exp - Urias	75.00
100-1005-7650	Travel & Exp - Lewis	75.00
100-1010-7614	Office Supplies	334.15
100-1015-7682	Labor Counsel Legal	3,283.50
100-1020-7710	Chamber Of Commerce	1,600.00
100-1020-7712	Community Information	3,498.50
100-1020-7716	Special Community Even	882.00
100-1020-7726	Council Cablecasting	34.99
100-1020-7980	Other Expenses	882.00
100-1205-7614	Office Supplies	66.81
100-1205-7650	Vehicle Maintenance	2,405.65
100-1205-7761	Parking Ticket Collect	7,541.50
100-1205-7779	Youth Programs	200.00
100-1205-7780	Animal Control	1,324.50
100-1205-7781	Contract Law Enforceme	357,885.83
100-1205-7782	Crossing Guard Contract	1,863.90
100-1205-7787	Public Safety Cntr Lease	11,707.00
100-1405-7610	Travel, Mtgs & Conf	250.00
100-1405-7612	Publications and Dues	117.93
100-1405-7650	Vehicle Maintenance	51.61
100-1405-7690	Planning Commission	250.00
100-1405-7802	NPDES Requirements	1,605.81
100-1405-7969	City Engineer	2,367.50
100-1405-7975	Economic Development	300.00
100-1405-7980	Other Expenses	12,261.77
100-1410-7636	Uniforms	642.49
100-1410-7650	Vehicle Maintenance	2,293.73
100-1410-7810	Street Sweeping	122.00
100-1415-7889	Repairs-Sports Park	460.51
100-1605-7610	Travel, Mtgs & Conf	68.76
100-1605-7614	Office Supplies	138.57
100-1605-7650	Vehicle Maintenance	188.58
100-1605-7653	Active Net Fees	5.60
100-1605-7730	Special Events	267.97
100-1605-7733	Senior Center	26.26
100-1605-7735	Teen Center	12.99
100-1605-7739	Publicity	1,110.50
100-1605-7980	Other Expenses	117.72
100-1610-7617	Pool Chemicals	491.49
100-1610-7618	Building Supplies	236.52
100-1610-7636	Uniforms	421.19
100-1610-7652	Building Maint Services	5,559.29
100-1610-8100	Other Capital Improvem	187,500.00

Account Summary

Account Number	Account Name	Payment Amount
100-1805-7610	Travel, Mtgs & Conf	69.99
100-1805-7614	Office Supplies	120.04
100-1805-7980	Other Expenses	12.00
100-1810-7980	Other Expenses	100.00
100-1815-7632	Software Maintenance	3,632.11
100-1815-7821	Personal Computer Supp	553.00
100-1815-7830	Telephones	1,575.97
100-1815-7965	Professional Services	8,700.00
100-1815-7980	Other Expenses	353.29
100-1820-7771	Repair Of City Property	2,662.33
100-1825-7613	Duplications And Photos	330.63
100-1825-7626	Postage	240.00
100-1825-7630	Equipment Lease	1,972.89
100-1825-7631	Equipment Maintenance	333.69
100-1825-7674	Retiree Health Insurance	2,525.00
100-2023	EE City Kitty Contributio	75.00
100-2120	Refundable Deposits	500.00
100-2121	Pass Through Deposits	51.05
100-2122	Disability Access & Educ	132.40
100-2123	Special Event Insurance (	842.00
100-2126	Construction and Demol	1,747.20
100-2127	Retention Payable	-9,375.00
100-2200	Unearned Revenue	100.00
100-4204	Animal Licenses	57.50
100-4402	Community Center Rent	100.00
100-4406	Restroom & Gazebo Ren	225.00
100-4801	Recreation Class Fees	2,910.00
100-4806	Excursion Fees	796.00
100-4809	Sports Program Fees	1,825.00
220-2205-8100	Other Capital Improvem	12,285.90
220-2225-7980	Other Expenses	24,497.60
220-2225-8070	Street Improvements (C	7,333.15
240-2405-7877	Electric-Traffic Signal	561.75
240-2405-7890	Repairs-Traffic Signal	14,194.30
240-2410-7888	Repairs-Citywide	737.72
240-2410-7906	Tree Trim-Citywide	20,640.00
240-2410-7909	Tree Trim-Residential	1,792.00
240-2426-7810	Street Sweeping	784.00
290-2905-7781	Contract Law Enforceme	10,000.00
440-4405-7650	Vehicle Maintenance	157.93
440-4405-7960	Foothill Transit Operatio	24,469.30
440-4405-8013	Vehicles (Capital)	4,523.11
460-4605-7960	Foothill Tranist Operatio	20,020.34
460-4605-8013	Vehicles	2,544.25
	Grand Total:	**780,690.33**

Project Account Summary

Project Account Key	Payment Amount
None	566,428.97
201724-COH/ADA Improv-City Engineer	1,840.00
201914-Sheriff Contract-Cal VIP	17,381.12
202017-Infrastructure Modernization Program	187,500.00
202018 Other Exp.Street Name Sign Sale	32.77
202024 -Office Supp-Coronavirus Response	32.40
202024-Bldg Supp-Coronavirus Response	74.34
202024-Comm Information-Coronavirus Response	1,110.50
202024-Lunch Program-Coronavirus Response	1,863.90
202024-Other Expenses/Coronavirus Response	882.00

Project Account Summary

Project Account Key	Payment Amount
202024-Special Comm Events-Coronavirus Response	882.00
DMGE050-Sink Hole Repair/Buena Vista & Duarte Rd.	2,662.33
Grand Total:	**780,690.33**

MEMORANDUM

To: Mayor and City Council

From: Craig Hensley, Community Development Director
Teresa Renteria, Assistant Civil Engineer

Date: May 12, 2020

Subject: Notice of Completion – FY 2019-20 Street Rehabilitation Project

RECOMMENDED ACTION

Staff recommends that City Council authorize the Notice of Completion for the FY 2019-20 Street Rehabilitation Project. The project has been completed in the amount of $411,401.86.

BACKGROUND

In 2017, the Public Works Division contracted with Bucknam Infrastructure Group to provide the City with a pavement management program that analyzed the condition of the City's pavement network. The analysis was conducted to assist City staff in determining the priority of street maintenance. Based on the pavement management program, staff determined the best maintenance application and locations for the FY 2019-20 Street Rehabilitation Project.

The FY 2019-20 Street Rehabilitation Project focused on the rehabilitation of six street segments shown in Attachment A. The scope of work included the grind and overlay of the asphalt street sections; replacement of curb and gutter in various areas; adjustment of valve can and covers to grade; and striping and marking per standard requirements.

On December 10, 2019, the bids were submitted electronically, and on January 28, 2020, City Council awarded the project to Hardy and Harper, Inc., in the amount of $410,244.00.

CONCLUSION

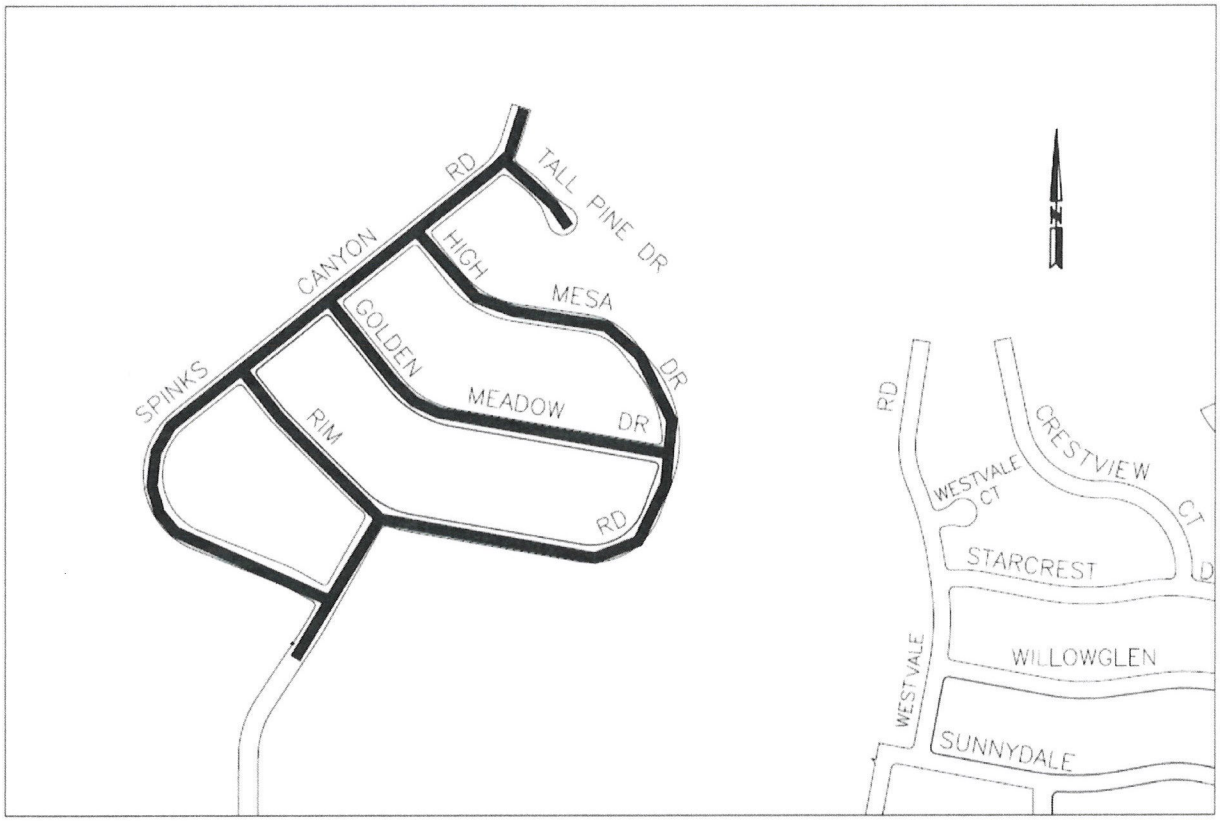
Hardy & Harper, Inc. has successfully completed the FY 2019-20 Street Rehabilitation Project. The final construction cost for this project is $411,401.86 with one change order in the amount of $1,157.86 for additional asphalt tonnage to complete the project. The funding source for this project consists of SB1 and Measure R funds. Staff recommends that City Council accept the FY 2019-20 Street Rehabilitation Project as complete and authorize the City Clerk to initiate the Notice of Completion.

Attachment A: List and map of FY 2019-20 Street Rehabilitation Project

Attachment B: Before and After Pictures of FY 2019-20 Street Rehabilitation Project

ATTACHMENT A

STREET	LIMITS
MOUNT OLIVE DR	RIM RD TO CITY LIMITS
SPINKS CANYON RD	MOUNT OLIVE DR TO N'LY TERMINUS
RIM RD	SPINKS CANYON RD TO GOLDEN MEADOW DR
GOLDEN MEADOW DR	SPINKS CANYON RD TO RIM RD
HIGH MESA DR	SPINKS CANYON RD TO RIM RD
TALL PINE DR	SPINKS CANYON RD TO E'LY TERMINUS



LOCATION MAP
NTS

ATTACHMENT B

Before and After Pictures

MT OLIVE AT CITY BOUNDARY LOOKING NORTH





HIGH MESA AT GOLDEN MEADOW





RIM RD AT MT OLIVE





Agenda Item: _____

CM Review: _____
Fiscal Review: _____

AGENDA REPORT

MEETING DATE:	May 12, 2020
TO:	Mayor and Members of the City Council
FROM:	Brian Villalobos; Director of Public Safety
SUBJECT:	Recommendation for expenditure of State Law Enforcement Supplemental Funds for FY 2020-21
RECOMMENDATION:	It is recommended that the City Council approve the expenditure of FY 2020-21 State Law Enforcement Supplemental Funds as submitted by Temple Station Captain Dave Flores
FISCAL IMPACT:	An estimated $160,000 in FY 2020-21, to be budgeted in Fund 290, the Supplemental Law Enforcement Fund

BACKGROUND

The City of Duarte annually receives State Law Enforcement Supplemental Funds (SLESF) through the Citizens Options for Public Safety (COPS) Grant Funding. This grant program provides funding for front-line law enforcement services. In FY 2020-21, the City expects to receive $160,000 under this program.

DISCUSSION/ANALYSIS

The SLESF program requires recipient agencies to file a report annually with the State on the use of these grant funds. As a part of this report, the City must submit a recommendation of the use of these funds as stated by a law enforcement official. As such, staff has discussed the expenditure of these funds with Captain Dave Flores, the Temple Station Commander, and concurs with his recommendation that the grant funds will be used as follows:

- 45% towards a motorcycle traffic enforcement deputy;
- 45% towards a school resource deputy; and
- 10% towards a special overtime account to be used to enhance the current level of service.

RECOMMENDATION

It is recommended that the City Council approve the expenditure of FY 2020-21 State Law Enforcement Supplemental Funds as submitted by Temple Station Captain Dave Flores.

FISCAL IMPACT

An estimated $160,000 in FY 2020-21, to be budgeted in Fund 290, the Supplemental Law Enforcement Fund.

ATTACHMENTS

Attachment A – Letter submitted by the Los Angeles County Sheriff Department

OFFICE OF THE SHERIFF

COUNTY OF LOS ANGELES

HALL OF JUSTICE

ALEX VILLANUEVA, SHERIFF

April 20, 2020

Mr. Daniel Jordan, City Manager
City of Duarte
1600 Huntington Drive
Duarte, California 91010

Dear Mr. Jordan:

The State Supplemental Law Enforcement Services Funds for the 2020-2021 fiscal year Citizens Options for Public Safety (COPS) program have been provided to the city of Duarte on a per capita formula. The below listed recommendations will afford us the opportunity to further enhance our community policing efforts and overall service.

Therefore, I recommend the city of Duarte utilize 45% of these funds to pay for a motorcycle traffic enforcement deputy position, 45% of these funds to pay for the school resource deputy position, and 10% of the funds in a special overtime account to be drawn upon to enhance the current level of service.

Should you have any questions, please contact me at 626-292-3300.

Sincerely,

ALEX VILLANUEVA, SHERIFF

David Flores, Captain
Temple Station

CITY COUNCIL STAFF REPORT

Date: May 12, 2020

To: Mayor and City Council

From: Dominic Milano, P.E., City Engineer
Jason Golding, Planning Manager

Subject: Acceptance of Irrevocable Offer of Dedication of two parcels totaling 5,522 square feet on Cinco Robles Drive

New Hope Village, City of Hope's hotel project, is currently under construction. As part of project approval in September 2019, a condition of approval (#6) was included to address "the discrepancies between the City right-of-way map and City of Hope property lines, which may include City vacation of right-of-way or dedication from City of Hope". During preliminary plan review, Staff discovered that portions of improved street and sidewalk along the east side of Cinco Robles Drive, adjacent to the New Hope Village project, were owned by City of Hope rather than being part of the public right-of-way. The City maintains the existing street improvements, even though the street and parkway areas have never been dedicated and the existing public improvements are technically still on private property. If approved, the proposed acceptance of the dedication will mean that the property in question will be owned by the City. The proposed dedication includes two parcels: parcel 1 contains 747 square feet and parcel 2 contains 4,775 square feet, totaling 5,522 square feet of additional right-of-way.

There will be no physical changes related to the dedication and the potential impacts to the hotel's setbacks have already been accounted for in the project's design. Furthermore, the public improvements are in place and will continue to be maintained by the City. The new right-of-way and property line will be consistent with the development pattern that exists to the south of the project site. The remainder of the east side of Cinco Robles Drive, south of the hotel site and owned by City of Hope, and several privately owned single-family houses, have similar right-of-way issues that will require future dedication upon development and/or acquisition.

Attached are the legal description and associated right-of-way dedication plat map, and a parcel map of Cinco Robles Drive highlighting the proposed locations. The City Engineer has reviewed the attachments and found them to be technically correct. If approved by the City Council, the applicant will work with the City Engineer to prepare a deed and record the documents with the County Clerk.

Staff recommends that the City Council approve the proposed dedication from City of Hope, on

behalf of Huitt-Zollars, and authorize the City Engineer and City Clerk to finalize the documents with the County Clerk.

EXHIBITS

A. Legal Description
B. Right-of-way dedication plat map
C. Cinco Robles parcel map
D. Resolution 20-R-14

HUITT-ZOLLARS

HUITT-ZOLLARS, INC. • 2603 Main Street • Suite 400 • Irvine, CA 92614-4250 • 949.988.5815 phone • 949.988.5820 fax • huitt-zollars.com

R310362.01
01-22-2020

EXHIBIT "A"
LEGAL DESCRIPTION
RIGHT OF WAY DEDICATION

Those portions of Lot 5 of Section 31, Township 1 North, Range 10 West, of the Subdivision of the Rancho Azusa de Duarte, in the City of Duarte, County of Los Angeles, State of California, as per map filed in Book 6, Pages 80 through 82, inclusive, of Miscellaneous Records, in said office of the County Recorder, described in parcels as follows:

Parcel 1:

The Westerly 18.00 feet of the Northerly 41.50 feet of the Southerly 293.18 feet of the Northerly 563.18 feet of the Easterly One-half of said Lot 5.

Containing an area of 747 square feet, more or less.

Parcel 2:

The Westerly 18.00 feet of the Northerly 758.46 feet of the Easterly One-half of said Lot 5;

Excepting therefrom that portion lying Northerly of the Southerly 70.00 feet of the Northerly 563.18 feet of the Easterly One-half of said Lot 5.

Containing an area of 4,775 square feet, more or less.

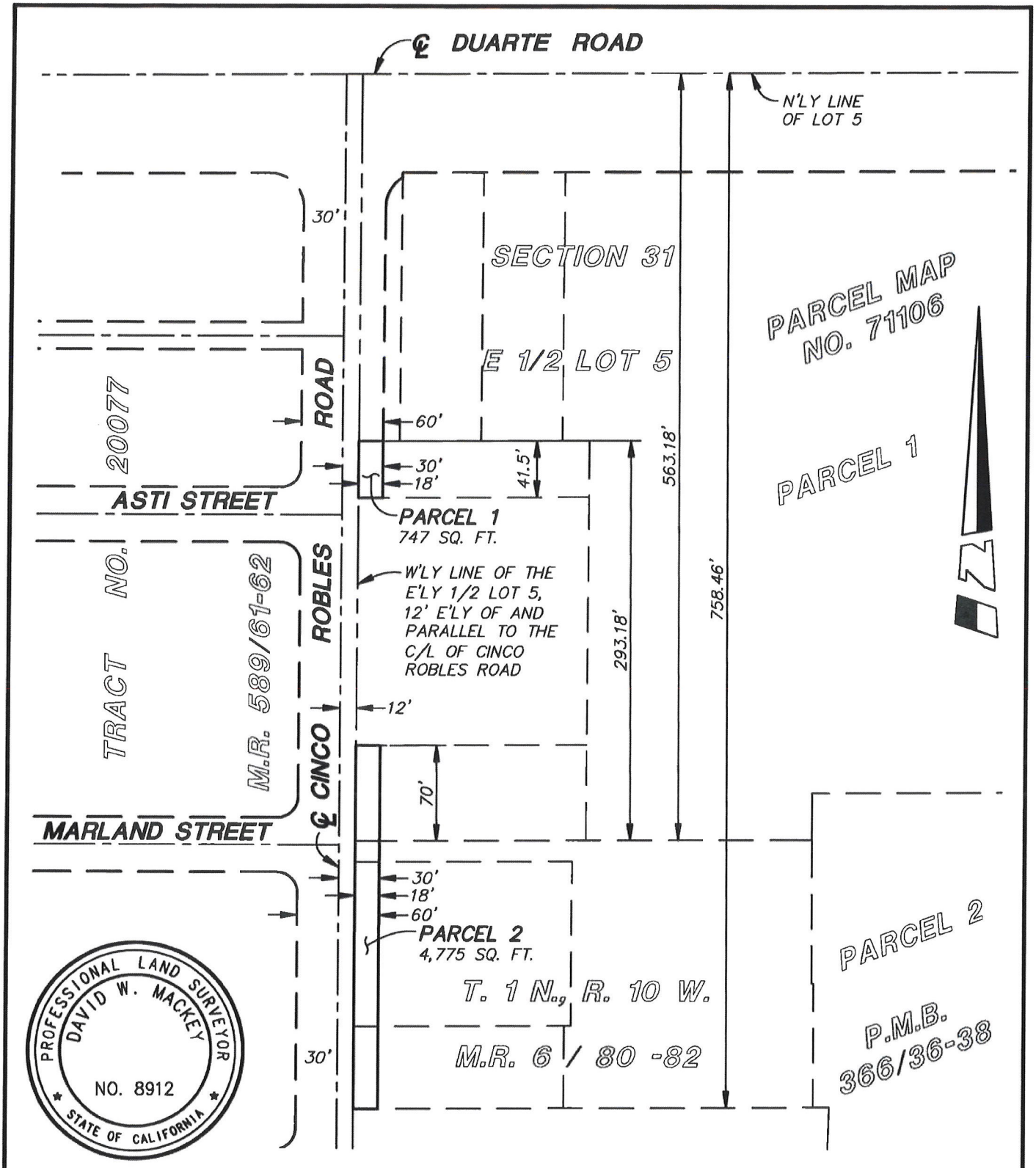
Subject to covenants, conditions, reservations, restrictions, rights-of-way and easements, if any, of record.

All as shown on Exhibit "B" attached hereto and by this reference made a part hereof.

David W. Mackey

DAVID W. MACKEY, PLS 8912





HUITT-ZOLLARS

Huitt-Zollars, Inc. Irvine
2603 Main Street, Suite 400, Irvine, CA 92614
Phone (949) 988-5815 Fax (949) 988-5820

APPROVED BY

David W. Mackey 1-22-2020

SKETCH TO ACCOMPANY A LEGAL DESCRIPTION

EXHIBIT 'B'
RIGHT OF WAY DEDICATION

SCALE	1"=100'
DRAWN BY	DWM
CHECKED BY	RHH
DATE	1/22/2020
JOB NO.	R310362.01

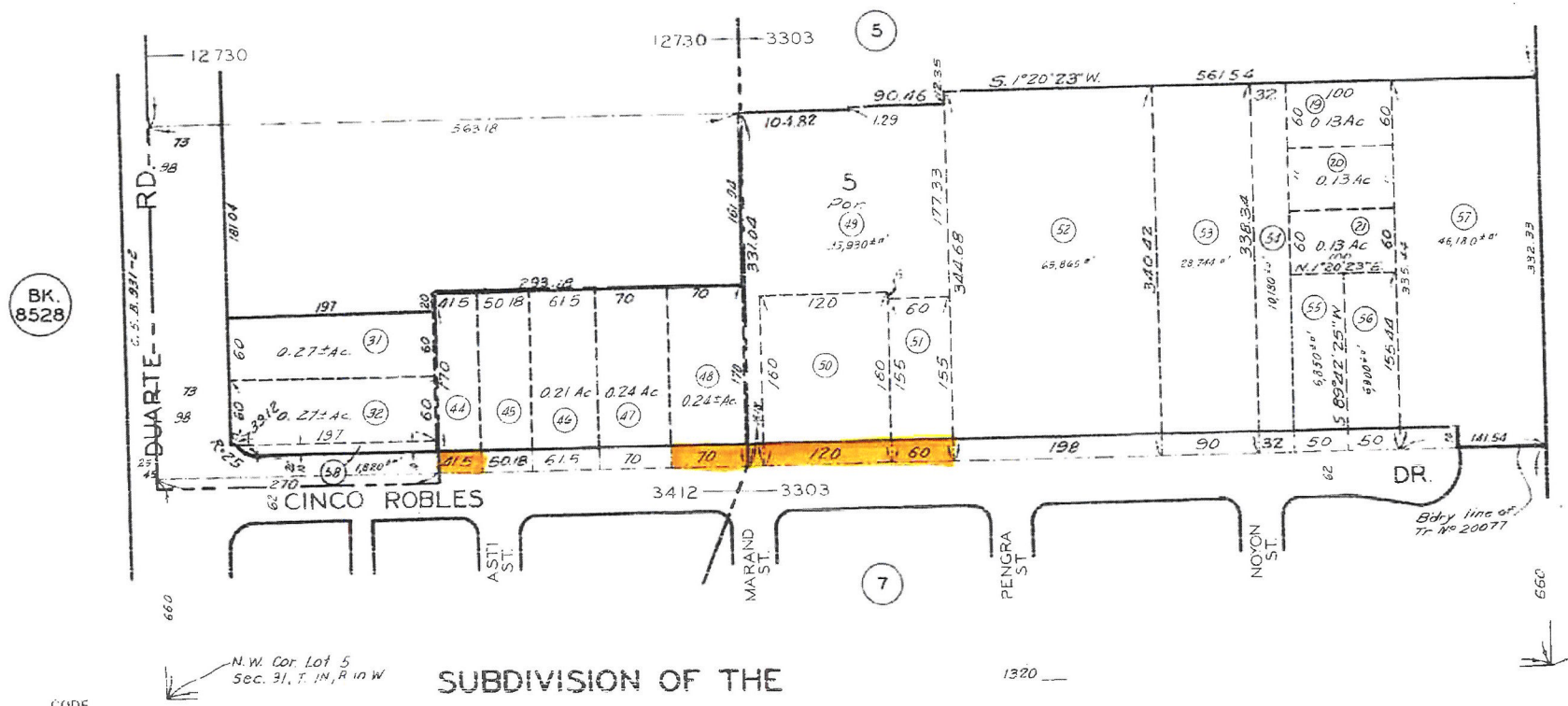
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8533 | 6

SCALE 1" = 100'

2000

EXHIBIT "C"



SUBDIVISION OF THE
RANCHO AZUSA DE DUARTE

M. R. 6-80-82
POR. SEC. 31 T. 1 N. R. 10 W.

CODE
3303
3412
12730

FOR PREV. ASSM'T SEE:
8533 – 6

ASSESSOR'S MAP
COUNTY OF LOS ANGELES, CALIF.

RESOLUTION NO.

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF DUARTE, CALIFORNIA, ACCEPTING AN IRREVOCABLE OFFER OF DEDICATION FROM CITY OF HOPE FOR PROPERTY LOCATED ALONG A PORTION OF THE EAST SIDE OF CINCO ROBLES DRIVE ASSOCIATED WITH THE NEW HOPE VILLAGE HOTEL PROJECT

WHEREAS, a majority of the properties along the east side of Cinco Robles Drive, south of Duarte Road did not completely dedicate street right-of-way to the City of Duarte when the property was originally subdivided/improved, and existing public improvements are located on private property; and

WHEREAS, conditions of approval related to the New Hope Village project required dedication of private property to address existing street right-of-way issues; and

WHEREAS, the City of Hope has provided an irrevocable offer of dedication for two parcels totaling 5,522 square feet, associated with the New Hope Village project, and as depicted in the legal description and associated map (Exhibits A & B) to the City of Duarte, as public right-of-way; and

WHEREAS, the acceptance of dedication of the Public Right-of-Way Property as a public street at this time is necessary to the public interest and convenience; and

WHEREAS, pursuant to the California Environmental Quality Act ("CEQA") and the City's local CEQA Guidelines, City Staff determined that the acceptance of dedication of the Public Right-of-Way Property (the "Project") is covered by the general rule, pursuant to Section 15061(b)(3) of the State CEQA Guidelines (14 CCR§ 15061(b)(3)), that CEQA applies only to projects which have the potential for causing a significant effect on the environment, and City Staff found that there is no possible significant effect directly related to the Project.

NOW, THEREFORE, THE CITY COUNCIL OF THE CITY OF DUARTE, CALIFORNIA, RESOLVES AS FOLLOWS:

SECTION 1. The City Council finds that all of the facts set forth in the Recitals of this Resolution are true and correct.

SECTION 2. The City Council has reviewed the Project and based upon the whole record before it, in the exercise of its independent judgment and analysis, concurs that the acceptance of the dedication is exempt from consideration under the California Environmental Quality Act ("CEQA") pursuant to CEQA Guidelines Section 15061 (b)(3), because acceptance of the dedication will not in and of itself cause any change in the environment, and therefore no further action is required under CEQA.

SECTION 3. In accordance with the provisions of Government Code Section 7050, the City Council approves and adopts the irrevocable offer of dedication for two parcels totaling 5,522 square feet, associated with the New Hope Village project, and as depicted in the legal description and associated map (Exhibits A & B) to the City of Duarte, as public right-of-way.

SECTION 4. The City Clerk is hereby authorized and directed to record such documents as are necessary to evidence this acceptance of the dedication of the Public Right-of-Way Property. The City Engineer is hereby authorized and directed to approve, accept and execute on behalf of the City such documents and instruments necessary to effectuate this acceptance of dedication of the Public Right-of-Way property.

PASSED, APPROVED, AND ADOPTED at a regular meeting of the City Council of the City of Duarte this ___ day of _____, 2020.

_____
MAYOR SAMUEL KANG

STATE OF CALIFORNIA)

COUNTY OF LOS ANGELES) ss.
CITY OF DUARTE)

I, Marla Akana, City Clerk of the City of Duarte, County of Los Angeles, State of California, hereby attest to the above signature and certify that Resolution No. ____ was adopted by the City Council of said City of Duarte at a regular meeting of said Council held on the _____ day of _____ , 2020, by the following Roll Call vote:

AYES: Councilmembers:

NOES: Councilmembers:

ABSENT: Councilmembers:

_____
City Clerk Marla Akana
City of Duarte, California

Agenda Item: _____

CM Review: _____
Fiscal Review: _____

AGENDA REPORT

MEETING DATE:	May 12, 2020
TO:	Mayor and Members of the City Council
FROM:	Craig Hensley, Community Development Director
SUBJECT:	Local Early Action Planning (LEAP) Grant Submittal
RECOMMENDATION:	Approval of Resolution 20-R-16
FISCAL IMPACT:	This grant may provide up to $150,000 to fund Housing Element preparation.

BACKGROUND

In the FY 2019-20, the State created the Local Early Action Planning (LEAP) program, allocating $119 million for cities, and counties to prioritize planning activities. These funds provide cities with the ability to receive grants for local early action planning with the specific purpose to: 1) Accelerate housing production; and 2) facilitate compliance implementing the sixth-cycle Regional Housing Needs Assessment (RHNA).

This is a grant that could greatly benefit Duarte. This grant is not technically competitive - HCD has published possible grant amounts for every city and county in the State. However, the amount granted to each community is based on how HCD believes the proposed program/project aligns to the stated goals. Duarte is eligible for up to $150,000.

DISCUSSION/ANALYSIS

Staff has recently initiated the process for the sixth cycle housing element. This covers the 2021-2029 time frame. A request for proposal (RFP) is currently circulating and Staff expects to return to the City Council at the next meeting with a contract recommendation to begin that process.

The 2021-2029 Housing Element must include several State mandated requirements that increase the cost of the process. These requirements include: update to the Safety Element of the General Plan to achieve consistency with State Law; development of Environmental Justice policies to meet SB 1000; a sites analysis to determine the location and feasibility of how the City can reasonably meets its RHNA requirements; and CEQA review that will analyze the environmental impacts.

The City has already received an SB 2 Grant for preparation of an inclusionary housing analysis. This will also be included in the housing element work.

Under the LEAP guidelines, the City Council must approve a Resolution to authorize the grant

request. Resolution 20-R-16 is attached.

Duarte has done an exceptional job in meeting, and exceeding, housing goals. Housing production has accelerated with the adoption of the Town Center and Duarte Station Specific Plans and the rezoning of property for the Third Street Townhomes and the Oliva Townhome project. Staff is working with Jamboree Housing and Metro on an affordable project for the Duarte Station area. Even with all of this good progress, there is still work to do to meet State mandates and to develop a comprehensive plan for more affordable housing. This grant will assist in meeting these goals.

RECOMMENDATION

Approval of Resolution 20-R-16

FISCAL IMPACT

This grant may provide up to $150,000 to fund Housing Element preparation.

ATTACHMENTS

Resolution 20-R-16
LEAP Grant Application

20-R-16

RESOLUTION NO.

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF DUARTE AUTHORIZING SUBMITTAL OF AN APPLICATION FOR AND RECEIPT OF LOCAL EARLY ACTION PLANNING (LEAP) GRANT PROGRAM FUNDS

WHEREAS, the State of California, Department of Housing and Community Development (Department) has issued a Notice of Funding Availability (NOFA) in February for its Local Early Action Planning Grants Program (LEAP); and

WHEREAS, the Duarte City Council desires to submit a project application for the LEAP program to accelerate the production of housing and will submit a 2020 LEAP grant application as described in the LEAP NOFA Program Guidelines released by the Department for the LEAP Program; and

WHEREAS, the Department is authorized to provide up to $119 million under the LEAP Grant Program from the 2019-20 Budget Act.

NOW, THEREFORE, THE CITY COUNCIL OF THE CITY OF DUARTE, CALIFORNIA, DOES RESOLVE AS FOLLOWS:

Section 1. The City Council is hereby authorized and directed to apply for and submit to the Department the Local Early Action Planning application in the amount of $150,000.

Section 2. In connection with the grant, if the application is approved by the Department, the Community Development Director is authorized to enter into, execute, and deliver a State of California Standard Agreement (Standard Agreement) for the amount of $150,000 and any and all other documents required or deemed necessary or appropriate to evidence and secure the grant, the City's obligations related thereto, and all amendments thereto.

Section 3. The City shall be subject to the terms and conditions as specified in the Standard Agreement, the LEAP Grants Program Guidelines, and any applicable guidelines published by the Department. Funds are to be used for allowable expenditures as specifically identified in the Standard Agreement. The application in full is incorporated as part of the Standard Agreement. Any and all activities funded, information provided, and timelines represented in the application will be enforceable through the executed Standard Agreement. The City Council hereby agrees to use the funds for eligible uses in the manner presented in the application as approved by the Department and in accordance with the LEAP Grant NOFA, the Planning Grants Program Guidelines, and LEAP Grants Program Application.

Section 4. The Community Development Director or designee is authorized to execute the City of Duarte Local Early Action Planning Grants Program application, the Grant Documents, and any amendments thereto, on behalf of the City is required by the Department for receipt of the Grant.

PASSED, APPROVED, AND ADOPTED this _____ day of _____, 2020.

_____
Sam Kang, Mayor

STATE OF CALIFORNIA)
COUNTY OF LOS ANGELES) ss.
CITY OF DUARTE)

I, Marla Akana, City Clerk of the City of Duarte, County of Los Angeles, State of California, hereby attest to the above signature and certify that Resolution 20-R-16 was adopted by the City Council of said City of Duarte at a regular meeting of said Council held on the _____ day of _____, 2020, by the following vote:

AYES: Councilmembers:

NOES: Councilmembers:

ABSENT: Councilmembers:

_____
City Clerk Marla Akana
City of Duarte, California

Local Early Action Planning Grant Application



State of California
Governor Gavin Newsom

Alexis Podesta, Secretary
Business, Consumer Services and Housing Agency

Doug McCauley, Acting Director
Department of Housing and Community Development

Zachary Olmsted, Deputy Director
Department of Housing and Community Development
Housing Policy Development

2020 West El Camino, Suite 500
Sacramento, CA 95833

Website: https://www.hcd.ca.gov/grants-funding/active-funding/leap.shtml
Email: EarlyActionPlanning@hcd.ca.gov

January 27, 2020

LEAP Application Packaging Instructions

The applicant is applying to the Department of Housing and Community Development (Department) for a grant authorized underneath the Local Early Action Planning Grants (LEAP) provisions pursuant to Health and Safety Code Sections 50515 through 50515.05. LEAP provides funding to jurisdictions for the preparation and adoption of planning documents, process improvements that accelerate housing production and facilitate compliance in implementing the sixth cycle of the regional housing need assessment. If you have questions regarding this application or LEAP, email earlyactionplanning@hcd.ca.gov.

If approved for funding, the LEAP application is incorporated as part of your Standard Agreement with the Department. In order to be considered for funding, all sections of this application, including attachments and exhibits if required, must be complete and accurate.

All applicants must submit a complete, signed, original application package and digital copy on CD or USB flash drive to the Department and postmarked by the specified due date in the NOFA. Applicants will demonstrate consistency with LEAP requirements by utilizing the following forms and manner prescribed in this application.

- Pages 3 through 14 constitute the full application (save paper, print only what is needed)
- Attachment 1: Project Timeline and Budget: Including high-level tasks, sub-tasks, begin and end dates, budgeted amounts, deliverables, and adoption and implementation dates.
- Attachment 2: Nexus to Accelerating Housing Production
- Attachment 3: State and Other Planning Priorities
- Attachment 4: Required Resolution Template
- Government Agency Taxpayer ID Form (available as a download from the LEAP webpage located at https://www.hcd.ca.gov/grants-funding/active-funding/leap.shtml
- If the applicant is partnering with another local government or other entity, include a copy of the legally binding agreement; and
- Supporting documentation (e.g., letters of support, scope of work, project timelines, etc.)

Pursuant to Section XII of the LEAP 2020 Notice of Funding Availability (NOFA), the application package must be postmarked on or before July 1, 2020, and received by the Department at the following address:

Department of Housing and Community Development
Division of Housing Policy Development
2020 West El Camino Ave, Suite 500
Sacramento, CA 95833

A. Applicant Information and Certification

Applicant (Jurisdiction)	City of Duarte		
Applicant's Agency Type	Local Government		
Applicant's Mailing Address	1600 Huntington Drive		
City	Duarte		
State	California	Zip Code	91010
County	Los Angeles		
Website	https://www.accessduarte.com/		
Authorized Representative Name	Craig Hensley		
Authorized Representative Title	Community Development Director		
Phone	626) 357-7931	Fax	626) 358-0018
Email	chensley@accessduarte.com		
Contact Person Name	Craig Hensley		
Contact Person Title	Community Development Director		
Phone	626) 357-7931	Fax	626) 358-0018
Email	chensley@accessduarte.com		
Proposed Grant Amount	$ 150,000		

Pursuant to Health and Safety Code Section 50515.03 through (d) of the Guidelines, all applicants must meet the following two requirements to be eligible for an award:

1. ***Does the application demonstrate a nexus to accelerating housing production as shown in Attachment 1?***	Yes	■	No	☐
2. ***Does the application demonstrate that the applicant is consistent with State Planning or Other Priorities; Attachment 2?***	Yes	■	No	☐
Is a fully executed resolution included with the application package?	Yes	■	No	☐
Does the address on the Government Agency Taxpayer ID Form exactly match the address listed above?	Yes	■	No	☐
Is the applicant partnering with another eligible local government entity? *If Yes, provide a fully executed copy of the legally binding agreement.*	Yes	☐	No	■

As the official designated by the governing body, I hereby certify that if approved by HCD for funding through the Local Early Action Planning Program (LEAP), the City of Duarte assumes the responsibilities specified in the Notice of Funding Availability and certifies that the information, statements and other contents contained in this application are true and correct.

Signature:_____ Name: Craig Hensley

Date:_____ Title: Community Development Director

B. Proposed Activities Checklist

Check all activities the locality is undertaking. Activities must match the project description.

1	☐	Rezoning and encouraging development by updating planning documents and zoning ordinances, such as general plans, community plans, specific plans, implementation of sustainable communities' strategies, and local coastal programs
2	☐	Completing environmental clearance to eliminate the need for project-specific review
3	■	Establishing housing incentive zones or other area based housing incentives beyond State Density Bonus Law such as a workforce housing opportunity zone pursuant to Article 10.10 (commencing with Section 65620) of Chapter 3 of Division 1 of Title 7 of the Government Code or a housing sustainability district pursuant to Chapter 11 (commencing with Section 66200) of Division 1 of Title 7 of the Government Code
4	☐	Performing infrastructure planning, including for sewers, water systems, transit, roads, or other public facilities necessary to support new housing and new residents
5	☐	Planning documents to promote development of publicly owned land such as partnering with other local entities to identify and prepare excess or surplus property for residential development
6	☐	Revamping local planning processes to speed up housing production
7	☐	Developing or improving an accessory dwelling unit ordinance in compliance with Section 65852.2 of the Government Code
8	☐	Planning documents for a smaller geography (less than jurisdiction-wide) with a significant impact on housing production including an overlay district, project level specific plan, or development standards modifications proposed for significant areas of a locality, such as corridors, downtown or priority growth areas
9	☐	Rezoning to meet requirements pursuant to Government Code Section 65583(c)(1) and other rezoning efforts to comply with housing element requirements, including Government Code Section 65583.2(c) (AB 1397, Statutes of 2018)
10	☐	Upzoning or other implementation measures to intensify land use patterns in strategic locations such as close proximity to transit, jobs or other amenities
11	☐	Rezoning for multifamily housing in high resource areas (according to Tax Credit Allocation Committee/Housing Community Development Opportunity Area Maps); Establishing Pre-approved architectural and site plans
12	■	Preparing and adopting housing elements of the general plan that include an implementation component to facilitate compliance with the sixth cycle RHNA
13	☐	Adopting planning documents to coordinate with suballocations under Regional Early Action Planning Grants (REAP) that accommodate the development of housing and infrastructure and accelerate housing production in a way that aligns with state planning priorities, housing, transportation equity and climate goals, including hazard mitigation or climate adaptation
14	☐	Zoning for by-right supportive housing, pursuant to Government Code section 65651 (Chapter 753, Statutes of 2018)
15	☐	Zoning incentives for housing for persons with special needs, including persons with developmental disabilities
16	☐	Planning documents related to carrying out a local or regional housing trust fund
17	■	Environmental hazard assessments; data collection on permit tracking; feasibility studies, site analysis, or other background studies that are ancillary (e.g., less than 15% of the total grant amount) and part of a proposed activity with a nexus to accelerating housing production
18	☐	Other planning documents or process improvements that demonstrate an increase in housing related planning activities and facilitate accelerating housing production
19	☐	Establishing Prohousing Policies

C. Project Description

Provide a description of the project and each activity using the method outlined below, and ensure the narrative speaks to ***Attachment 1: Project Timeline and Budget.***

a. *Summary of the Project and its impact on accelerating production*
b. *Description of the tasks and major sub-tasks*
c. *Summary of the plans for adoption or implementation*

Please be succinct and use Appendix A or B if more room is needed.

a. The City, as part of the Housing Element preparation, will analyze the feasibility of creative methods encouraging affordable housing development in the City to meet the 6th Cycle RHNA number for affordable housing by analyzing several options, including (1) the feasibility of Inclusionary Housing, (2) zoning overlay options in commercial areas of the city to allow for residential uses only for housing projects that include affordable units, (3) leveraging available funding sources to incentive affordable housing, and (4) identifying opportunity sites and analyzing zoning requirements to meet RHNA numbers. By incentivizing affordable housing via zoning, funding and other methods, the City will be able to achieve the unit production requirements for affordable housing. Due to the past actions of the City with regard to zoning, it is project that the City will meet both the 5th and 6th cycle RHNA requirements for above moderate housing units given current development underway as well as planned projects.

b. First, an inclusionary housing feasibility study will be prepared that analyzes the effects of requiring inclusionary housing (and potential in-lieu fees) on the development of housing in the City. This feasibility study will identify other methods to encourage and accelerate affordable housing development in the City so that the methods with the highest efficacy rates can be implemented. Second, commercial areas in the City will be reviewed and analyzed for appropriate locations for affordable housing sites, with considerations regarding proximity to goods and services, transit, schools, etc. The development feasibility on select sites will be analyzed to determine the amount of density required to make affordable projects financially feasible. If feasible, then potential commercial overlay areas will be mapped and presented to the Planning Commission and City Council for consideration. Lastly, opportunity sites (including potential zoning changes) for the Housing Element will be identified. All steps will be completed as part of the Housing Element preparation process.

c. The feasibility study examining Inclusionary Housing and other methods to encourage affordable housing will commence immediately following the grant award (estimated to begin by 10/1/20) and be completed by 12/30/20. The Housing Element preparation would also begin 10/1/20, with the examination of zoning overlays, funding sources and opportunity sites commencing no later than 12/1/20. It is anticipated that these actions will conclude by 9/30/21.

D. Legislative Information

District	#	Legislator Name
Federal Congressional District	32	Grace Napolitano
State Assembly District	48	Blanca E. Rubio
State Senate District	25	Anthony J. Portantino

Applicants can find their respective State Senate representatives at https://www.senate.ca.gov/, and their respective State Assembly representatives at https://www.assembly.ca.gov/.

Attachment 1: Project Timeline and Budget

Task	Est. Cost	Begin	End	Deliverable	Notes
Inclusionary Housing/Other Feasibility Study	$ 27,000	10/1/20	12/31/20	Study	Feasible Aff. Housing Production/Acceleration
Housing Element	$ 110,000	10/1/20	9/30/21	Housing Element	Accelerate/meet aff. unit requirements
Dev. Feasibility Analysis/Zoning/Opp. Sites	$ 13,000	12/7/20	9/30/21	Zoning and Opp. sites list	

Total Projected Cost $ 150000

Include high-level tasks, major sub-tasks (Drafting, Outreach, Public Hearings and Adoption), budget amounts, begin and end dates and deliverables. If other funding is used, please note the source and amount in the Notes section.

Attachment 2: Application Nexus to Accelerating Housing Production

Applicants shall demonstrate how the application includes a nexus to accelerating housing production by providing data regarding current baseline conditions and projected outcomes such as a reduction in timing, lower development costs, increased approval certainty, increases in number of entitlements, more feasibility, or increases in capacity. An expected outcome should be provided for each proposed deliverable. If necessary, use Appendix B to explain the activity and its nexus to accelerating housing production.

Select at least one	*Baseline	**Projected	***Difference	Notes
Timing (e.g., reduced number of processing days)				
Development cost (e.g., land, fees, financing, construction costs per unit)				
Approval certainty and reduction in discretionary review (e.g., prior versus proposed standard and level of discretion)				
Entitlement streamlining (e.g., number of approvals)				
Feasibility of development	52	200	148	Afford. RHNA #s will be furthered
Infrastructure capacity (e.g., number of units)				
Impact on housing supply and affordability (e.g., number of units)				

**** Baseline – Current conditions in the jurisdiction (e.g. 6-month development application review, or existing number of units in a planning area)***

*****Projected – Expected conditions in the jurisdiction because of the planning grant actions (e.g. 2-month development application review)***

******Difference – Potential change resulting from the planning grant actions (e.g., 4-month acceleration in permitting, creating a more expedient development process)***

Attachment 3: State and Other Planning Priorities Certification (Page 1 of 3)

Applicants must demonstrate that the locality is consistent with State Planning or Other Planning Priorities by selecting from the list below activities that are proposed as part of this application or were completed within the last five years. Briefly summarize the activity and insert a date of completion.

State Planning Priorities	
Date of Completion	**Brief Description of the Action Taken**
Promote Infill and Equity	
Rehabilitating, maintaining, and improving existing infrastructure that supports infill development and appropriate reuse and redevelopment of previously developed, underutilized land that is presently served by transit, streets, water, sewer, and other essential services, particularly in underserved areas.	
11/12/19	Duarte Station Specific Plan Amendment - adds 1,400 units in TOD. Two prelim. apps. received for 619 units to date. Town Center Specific Plan added 800 units (9/30/16).
Seek or utilize funding or support strategies to facilitate opportunities for infill development.	
Other (describe how this meets subarea objective)	
Since 2017	Over the last 2-3 years, 919 units (a 12.5% to the # of existing units in Duarte) are in planning, have been approved or are under construction.
Promote Resource Protection	
Protecting, preserving, and enhancing the state's most valuable natural resources, including working landscapes such as farm, range, and forest lands; natural lands such as wetlands, watersheds, wildlife habitats, and other wildlands; recreation lands such as parks, trails, greenbelts, and other open space; and landscapes with locally unique features and areas identified by the state as deserving special protection.	
Actively seek a variety of funding opportunities to promote resource protection in underserved communities.	
Other (describe how this meets subarea objective)	
Encourage Efficient Development Patterns	
Ensuring that any infrastructure associated with development, other than infill development, supports new development that does the following:	
(1) Uses land efficiently.	

Attachment 3: State and Other Planning Priorities Certification (Page 2 of 3)

(2) Is built adjacent to existing developed areas to the extent consistent with environmental protection.

(3) Is located in an area appropriately planned for growth.

(4) Is served by adequate transportation and other essential utilities and services.

11/12/19	Duarte Specific Plan Amendment - 1,400 units on 19 acre TOD area near Metro Gold Line Duarte/City of Hope Station.

(5) Minimizes ongoing costs to taxpayers.

Other (describe how this meets subarea objective)

Other Planning Priorities

Affordability and Housing Choices

Incentives and other mechanisms beyond State Density Bonus Law to encourage housing with affordability terms.

5/18/20	City us utilizing SB 2 grant monies to establish an acquisition and rehabilitation program to preserve and increase the number of affordable units. Work to start 5/2020.

Efforts beyond state law to promote accessory dwelling units or other strategies to intensify single-family neighborhoods with more housing choices and affordability.

Upzoning or other zoning modifications to promote a variety of housing choices and densities.

11/12/19	Duarte Station/Town Center Specific Plans - 2,200 higher density units including affordable.

Utilizing surplus lands to promote affordable housing choices.

Efforts to address infrastructure deficiencies in disadvantaged communities pursuant to Government Code Section 65302.10.

Other (describe how this meets subarea objective)

Attachment 3: State and Other Planning Priorities Certification (Page 3 of 3)

Conservation of Existing Affordable Housing Stock

Policies, programs or ordinances to conserve stock such as an at-risk preservation ordinance, mobilehome park overlay zone, condominium conversion ordinance and acquisition and rehabilitation of market rate housing programs.

5/18/20 City us utilizing SB 2 grant monies to establish an acquisition and rehabilitation program to preserve and increase the number of affordable units. Work to start 5/2020.

Policies, programs and ordinances to protect and support tenants such as rent stabilization, anti-displacement strategies, first right of refusal policies, resources to assist tenant organization and education and "just cause" eviction policies.

Other (describe how this meets subarea objective)

Climate Adaptation

Building standards, zoning and site planning requirements that address flood and fire safety, climate adaptation and hazard mitigation.

Long-term planning that addresses wildfire, land use for disadvantaged communities, and flood and local hazard mitigation.

Community engagement that provides information and consultation through a variety of methods such as meetings, workshops, and surveys and that focuses on vulnerable populations (e.g., seniors, people with disabilities, homeless, etc.).

Other (describe how this meets subarea objective)

Certification: I certify under penalty of perjury that all information contained in this LEAP State Planning and Other Planning Priorities certification form (Attachment 2) is true and correct.

Certifying Officials Name: Craig Hensley

Certifying Official's Title: Community Development Director

Certifying Official's Signature: _____ Date: _____

Attachment 4: Required Resolution Template

RESOLUTION NO. **[insert resolution number]**

A RESOLUTION OF THE **[INSERT EITHER "CITY COUNCIL" OR "COUNTY BOARD OF SUPERVISORS"]** OF **[INSERT THE NAME OF THE CITY OR COUNTY]** AUTHORIZING APPLICATION FOR, AND RECEIPT OF, LOCAL GOVERNMENT PLANNING SUPPORT GRANT PROGRAM FUNDS

WHEREAS, pursuant to Health and Safety Code 50515 et. Seq, the Department of Housing and Community Development (Department) is authorized to issue a Notice of Funding Availability (NOFA) as part of the Local Government Planning Support Grants Program (hereinafter referred to by the Department as the Local Early Action Planning Grants program or LEAP); and

WHEREAS, the [**insert either "City Council" or "County Board of Supervisors"**] of [**insert the name of the City or County**] desires to submit a LEAP grant application package ("Application"), on the forms provided by the Department, for approval of grant funding for projects that assist in the preparation and adoption of planning documents and process improvements that accelerate housing production and facilitate compliance to implement the sixth cycle of the regional housing need assessment; and

WHEREAS, the Department has issued a NOFA and Application on January 27, 2020 in the amount of $119,040,000 for assistance to all California Jurisdictions;

Now, therefore, the **[insert either "City Council" or "County Board of Supervisors"]** of **[insert the name of the city or county]** ("Applicant") resolves as follows**:**

SECTION 1. The [**insert the authorized designee's TITLE ONLY**] is hereby authorized and directed to apply for and submit to the Department the Application package;

SECTION 2. In connection with the LEAP grant, if the Application is approved by the Department, the [**insert the authorized designee's TITLE ONLY**] of the **[insert the name of the City or County]** is authorized to submit the Application, enter into, execute, and deliver on behalf of the Applicant, a State of California Agreement (Standard Agreement) for the amount of [**$ enter the dollar amount of the Applicant's request**], and any and all other documents required or deemed necessary or appropriate to evidence and secure the LEAP grant, the Applicant's obligations related thereto, and all amendments thereto; and

SECTION 3. The Applicant shall be subject to the terms and conditions as specified in the NOFA, and the Standard Agreement provided by the Department after approval. The Application and any and all accompanying documents are incorporated in full as part of the Standard Agreement. Any and all activities funded, information provided, and timelines represented in the Application will be enforceable through the fully executed Standard Agreement. Pursuant to the NOFA and in conjunction with the terms of the Standard Agreement, the Applicant hereby agrees to use the funds for eligible uses and allowable expenditures in the manner presented and specifically identified in the approved Application.

ADOPTED ON [**insert the date of adoption**], by the [**insert either "City Council" or "County Board of Supervisors"**] of [**insert the name of the City or County**] by the following vote count:

AYES: NOES: ABSENT: ABSTAIN:

_____ATTEST: APPROVED AS TO FORM:
[Signature of Attesting Officer]

_____APPROVED
[Signature of approval]

Appendix A

Appendix B

State of California
Financial Information System for California (FI$Cal)

GOVERNMENT AGENCY TAXPAYER ID FORM

2000 Evergreen Street, Suite 215
Sacramento, CA 95815
www.fiscal.ca.gov
1-855-347-2250

The principal purpose of the information provided is to establish the unique identification of the government entity.

Instructions: You may submit one form for the principal government agency and all subsidiaries sharing the same TIN. Subsidiaries with a different TIN must submit a separate form. Fields bordered in red are required. Hover over fields to view help information. Please print the form to sign prior to submittal. You may email the form to: vendors@fiscal.ca.gov, or fax it to (916) 576-5200, or mail it to the address above.

Principal Government Agency Name: City of Duarte

Remit-To Address (Street or PO Box): 1600 Huntington Drive

City: Duarte State: CA Zip Code+4: 91010

Government Type: ■ City ☐ County ☐ Special District ☐ Federal ☐ Other (Specify) _____

Federal Employer Identification Number (FEIN): 95-6005921

List other subsidiary Departments, Divisions or Units under your principal agency's jurisdiction who share the same FEIN and receives payment from the State of California.

Dept/Division/Unit Name		Complete Address	
Dept/Division/Unit Name		Complete Address	
Dept/Division/Unit Name		Complete Address	
Dept/Division/Unit Name		Complete Address	

Contact Person: Craig Hensley Title: Community Development Director

Phone number: 626) 357-7931 E-mail address: chensley@accessduarte.com

Signature: _____ Date: _____

City of Duarte

1600 Huntington Drive | Duarte, CA 91010 | Bus. 626.357.7931 | Fax 626.358.0018 | www.accessduarte.com

May 12, 2020

Mayor
Samuel Kang

Mayor Pro Tem
Bryan Urias

Councilmembers
John Fasana
Margaret Finlay
Toney Lewis
Tzeitel Paras-Caracci
Liz Reilly

City Manager
Daniel Jordan

The Honorable Senator Benjamin Allen, Chair
Senate Committee on Environmental Quality
State Capitol, Room 2205
Sacramento, CA 95814

Re: **SB-1191 (Dahle) – Organic waste: reduction goals: jurisdictions.**
Notice of Support

Dear Senator Allen:

The City of Duarte joins the Los Angeles County Solid Waste Management Committee/Integrated Waste Management Task Force (Task Force) in **support** of Senate Bill 1191 (SB-1191), as amended on March 23, 2020.

If enacted, the proposed legislation would require, among other things, the California Department of Resources Recycling and Recovery (CalRecycle), to determine whether to issue a compliance order or impose a penalty on a local jurisdiction pursuant to Senate Bill 1383's (SB-1383, Chapter 395 of the 2016 Statutes) organic waste reduction requirements, or to determine the amount of any penalties imposed pursuant to SB-1383 implementing regulations. The bill would direct CalRecycle in such determinations to consider specified information, including (a) whether a local jurisdiction has made a good faith effort to implement its organic waste reduction program, and (b) whether any of the specified factors affected the local jurisdiction's ability to implement its organic waste reduction program or otherwise comply with these regulations.

Public Resources Code (PRC) Sections 42652.5 and 41825 establish the process to determine whether a jurisdiction has made a "good faith effort" to comply with the waste reduction requirements of state law, including that CalRecycle needs to consider "good faith effort" in making its determination of a jurisdiction's compliance. However, considering that the SB-1383's implementing regulations drafted by CalRecycle do not include "good faith effort" in evaluating jurisdictional compliance, we strongly support the legislation's further clarification on this matter.

In these unprecedented times, local governments have stepped up to do their part in helping prevent the spread of the virus and save lives while maintaining essential services. We need flexibility in making decisions and allocating limited resources and this bill will help us do that.

The City of Duarte strongly **supports** SB-1191. Furthermore, we urge the legislature to consider it as a **priority bill** because it addresses significant concerns of local jurisdictions related to the COVID-19 pandemic and must be heard as soon as the legislature reconvenes.

Respectfully,

Samuel Kang
Mayor

cc: Senator Brian Dahle
Senator Anthony J. Portantino
California Contract Cities
League of California Cities
Los Angeles County Solid Waste Management Committee/Integrated Waste Management Task Force

Pasadena Star-News
Affiliated with SGV Newspaper Group
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Pasadena, CA 91109
626-962-8811 ext. 40885

(Space below for use of County Clerk Only)

5007700

CITY OF DUARTE
1600 E. HUNTINGTON DRIVE
DUARTE, CA 91010

Legal No. **0011382098**

PROOF OF PUBLICATION
(2015.5 C.C.P.)

STATE OF CALIFORNIA
County of Los Angeles

I am a citizen of the United States, and a resident of the county aforesaid. I am over the age of eighteen years and not a party to or interested in the above-entitled matter. I am the principal clerk of the printer of PASADENA STAR-NEWS, a newspaper of general circulation for the City of Pasadena, by the Superior Court of the County of Los Angles, State of California, on the date of June 22, 1927, Case Number 225647. The notice, of which the annexed is a true printed copy, has been published in each regular and entire issue of said newspaper and not in any supplement thereof on the following dates, to wit:

05/01/2020

I declare under the penalty of perjury that the foregoing is true and correct.

Executed at Monrovia, LA Co. California
On this 5th day of May, 2020.

Evangelina Almeida

Signature

CITY OF DUARTE
CITY COUNCIL

NOTICE OF PUBLIC HEARING

Notice is hereby given that the City Council of the City of Duarte will conduct a public hearing on Tuesday, May 12, 2020, at 7:00 p.m., in the Council Chambers, 1600 Huntington Drive, Duarte, California, to consider waiving penalty fees for dog licenses per Duarte Municipal Code Section 8.04.220 from July 1, 2020, to June 30, 2021.

Any interested party may submit comments electronically by emailing duarteinfo@accessduarte.com before or during the meeting, prior to the Public Hearing. If this matter is challenged in Court, there will be a limit to only those issues that were raised at the Public Hearing described in this Notice, or in written correspondence delivered to the City Council at, or prior to, the Public Hearing. Written correspondence may be sent to Duarte City Hall, City Clerk's Office, 1600 Huntington Drive, Duarte, CA 91010.

Further information may be obtained from Brian Villalobos, Director of Public Safety, at (626) 357-7938, extension 302.

Marla Akana
City Clerk

PUBLISH: Pasadena Star News, Friday, May 1, 2020
POSTED: Duarte City Hall, Duarte Public Safety Office
AD#11382098

Agenda Item: _____

CM Review: _____
Fiscal Review: _____

AGENDA REPORT

MEETING DATE:	May 12, 2020
TO:	Mayor and Members of the City Council
FROM:	Brian Villalobos; Director of Public Safety
SUBJECT:	City Council Resolution No. 20-17 Waiving Dog License Penalties
RECOMMENDATION:	It is recommended that the City Council approve Resolution No. 20-R-17 waiving dog license penalties for FY 2020-21 as set by City Council Resolution No. 16-28
FISCAL IMPACT:	By waiving all dog license penalties in FY 2020-21, staff anticipates an approximate $10,000 reduction in General Fund revenue

BACKGROUND

Due to the COVID-19 pandemic and the resulting economic impact, the Public Safety Department reviewed multiple programs to identify potential impacts to the community and the City. One such program that was identified was the upcoming dog licensing renewal period, and more specifically, the penalty that residents incur for failing to pay their required dog license fee by September 1st of any year.

DISCUSSION/ANALYSIS

The Public Safety Department is required per the Health and Safety Code Section 121690(b)(1) to conduct licensing for dogs to verify rabies vaccinations. As such, Duarte Municipal Code Section 8.04.210(a) requires dog owners to obtain a license and pay a fee as set by resolution of the City Council. Additionally, Duarte Municipal Code Section 8.04.220 requires dog owners to pay the licensing fee by September 1st of any year, or that person shall pay a penalty as set by resolution of the City Council.

The Duarte City Council, at its regularly scheduled meeting of October 11, 2016, approved Resolution No. 16-28 thereby adopting the schedule of service charges. Listed within the schedule of services charges under the Public Safety Department are the fees for a dog license and the penalty fee. The fees are as follows:

- Spayed/Neutered Dog - $25.00
- Non-Spayed/Non-Neutered Dog - $60
- **Penalty Spayed/Neutered Dog - $85.00**
- **Penalty Non-Spayed/Non-Neutered Dog - $120.00**

In reviewing these fees, staff identified the penalty portion as being potentially financially devastating to residents whose incomes have been impacted by the COVID–19 "Safer at Home"

orders. A consultation with the City Attorney revealed that in order to waive the penalty fees set by Resolution No. 16-28, the City Council must conduct a public hearing and adopt a resolution.

Staff is therefore submitting Resolution No. 20-R-17 for City Council consideration, which would waive dog licensing penalty fees for FY 2020-21. If approved, the resolution would be in effect from July 1, 2020, to June 30, 2021, after which the penalty fees would resume in full force and effect. Also, penalty fees incurred by dog owners in past years would not be waived.

RECOMMENDATION

It is recommended that the City Council approve Resolution No. 20-R-17 waiving dog license penalties for FY 2020-21 as set by City Council Resolution No. 16-28.

FISCAL IMPACT

By waiving all dog license penalties in FY 2020-21, staff anticipates an approximate $10,000 reduction in General Fund revenue.

ATTACHMENTS

Attachment A – Resolution No. 20-R-17
Attachment B – Resolution No. 16-28

Attachment A

20-R-17

RESOLUTION NO.

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF DUARTE WAIVING DOG LICENSING PENALTIES AS SET BY CITY COUNCIL RESOLUTION NO. 16-28

WHEREAS, the Duarte City Council proclaimed a local emergency on the 24th day of March, 2020, due to the COVID–19 pandemic; and

WHEREAS, on March 4, 2020, Governor Newsom of the State of California declared a State of Emergency in response to the COVID-19 (Corona Virus Disease19); and,

WHEREAS, on March 13, 2020, the President of the United States declared a National Emergency due to the continued spread and the effects of COVID-19; and,

WHEREAS, research from the University of Southern California Dornsife Center for Economic and Social Research found that only forty five percent of Los Angeles workers are still employed; and

WHEREAS, the United States Labor Department reports that 22.03 million U.S. workers have filed for unemployment; and

WHEREAS, California Health and Safety Code Section 121690(b)(1) requires that all cities in declared rabies areas must require proof of a rabies vaccination and may do so by conducting annual dog licensing; and

WHEREAS, Duarte Municipal Code Section 8.04.220 requires that a dog license fee be paid by September 1st of any year or that person shall pay a penalty fee as set by resolution of the City Council; and

WHEREAS, that penalty has been set by City Council Resolution No. 16-28.

NOW, THEREFORE, the City Council of the City of Duarte does hereby resolve as follows:

SECTION 1: The penalty for paying a dog license by September 1st of any year as set by City Council Resolution No. 16-28 shall be waived from July 1, 2020, to June 30, 2021.

SECTION 2: That effective July 1, 2021, City Council Resolution No. 16-28 that sets the penalty for failure to pay a dog license by September 1st of any year will resume in full force and effect.

SECTION 3: The waiver of this fee is approved effective as of the date of this Resolution, and the waiver of fees approved hereby shall take, and be in, effect on July 1, 2020.

SECTION 4: The adoption of this Resolution approving fees and charges is statutorily exempt from the requirements of the California Environmental Quality Act (CEQA) pursuant to Section 15273 of the State CEQA Guidelines (14 C.C.R. 15273), and is additionally and independently exempt from CEQA analysis pursuant to State CEQA Guidelines Section 15061(b)(3) [14 C.C.R. 15061(b)(3)] which provides: "CEQA applies only to projects which have the potential for causing a significant effect on the environment. Where it can be seen with certainty that there is no possibility that the activity in question may have a significant effect on the environment, the activity is not subject to CEQA."

PASSED, APPROVED AND ADOPTED this 12th day of May, 2020.

_____
Mayor Samuel Kang

STATE OF CALIFORNIA)
COUNTY OF LOS ANGELES) ss.
CITY OF DUARTE)

I, Marla Akana, City Clerk of the City of Duarte, County of Los Angeles, State of California, hereby attest to the above signature and certify that Resolution No. 20-17 was adopted by the City Council of said City of Duarte at a regular meeting of said Council held on the 12th day of May, 2020, by the following vote:

AYES: Councilmembers:

NOES: Councilmembers:

ABSENT: Councilmembers:

_____
City Clerk Marla Akana
City of Duarte, California

RESOLUTION NO. 16-28

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF DUARTE, CALIFORNIA, APPROVING A SCHEDULE OF SERVICE FEES AND CHARGES

WHEREAS, the City Council desires to update its schedule of equitable fees and charges for City services; and

WHEREAS, the City Council further desires to establish fees and charges that accurately reflect the cost of providing those City services for which the fees are charged; and

WHEREAS, an analysis of the labor, material, and equipment costs of providing City services has been prepared by City staff; and

WHEREAS, based upon the conclusions of that study, adjustments in existing fees and charges have been incorporated into a "Schedule of Service Charges;" and

WHEREAS, the City Council finds and determines that the charges set forth in the Schedule of Service Charges reasonably reflect a cost that is not more than the cost of providing the City service to which the particular fee or charge pertains; and

WHEREAS, a public hearing of the City Council on the proposed Schedule of Service Charges was duly and properly noticed in accordance with applicable law; and

WHEREAS, on October 11, 2016, the City Council opened the public hearing on the proposed Schedule of Service Charges and considered the staff report and public testimony in regard thereto.

NOW, THEREFORE, the City Council of the City of Duarte does hereby resolve as follows:

SECTION 1: Attachment 1 to this Resolution, entitled "Schedule of Service Charges," is incorporated herein and by this reference made a part hereof, and is hereby approved and adopted.

SECTION 2: The Schedule of Services Charges is approved effective as of the date of this Resolution, and the fees approved hereby shall take, and be in, effect thirty days hereafter, except for fees related to the filing, accepting, reviewing, approving, or issuing of a land use application, permit, or entitlement to use, which shall take, and be in, effect sixty days hereafter.

SECTION 3: The adoption of this Resolution approving fees and charges is statutorily exempt from the requirements of the California Environmental Quality Act ("CEQA") pursuant to Section 15273 of the State CEQA Guidelines (14 C.C.R. §15273), and is additionally and independently exempt from CEQA analysis pursuant to State CEQA Guidelines Section 1506l(b)(3) [14 C.C.R. § 1506l(b)(3)] which provides: "CEQA applies only to projects which have the potential for causing a significant effect on the environment Where it can be seen with certainty that there is no possibility that the activity in question may have a significant effect on the environment, the activity is not subject to CEQA."

SECTION 4. If any fee or charge set forth in the Schedule of Service Charges is held to be invalid, such invalidity shall not affect any other fee or charge. As such, fees and charges set forth in the Schedule are declared to be severable.

PASSED, APPROVED. AND ADOPTED this 11th day of October 2016.

/s/ Samuel Kang
Mayor Samuel Kang

STATE OF CALIFORNIA)
COUNTY OF LOS ANGELES) ss.
CITY OF DUARTE)

I, Marla Akana, City Clerk of the City of Duarte, County of Los Angeles, State of California, hereby attest to the above signature and certify that Resolution No. 16-28 was adopted by the City Council of said City of Duarte at a regular meeting of said Council held on the 11th day of October, 2016, by the following vote:

AYES:	Councilmembers:	Fasana, Finlay, Paras-Caracci, Reilly, Kang
NOES:	Councilmembers:	None
ABSENT:	Councilmembers:	None

/s/ Marla Akana
City Clerk Marla Akana
City of Duarte, California

CITY OF DUARTE - SCHEDULE OF SERVICE CHARGES
Adopted October 11, 2016
Effective November 11, 2016 (Development & Land Use Fees effective December 12, 2016)

	Code Section	Total Cost	Prior Fee (est. 2011)	Proposed Fee	Recovery Rate
City Managers Office:					
Amusement and Entertainment Permit:					
Application Fee	5.82.040	$624	$400	$500	80%
Permit - Burlesque		$3,729	$3,594	$3,700	99%
Permit - Other		$557	$500	$500	90%
Candidate Filing Fee	2.40.010	$252	$25	$25	10%
Construction and Demolition:					
Administrative Fee	6.10.130	$578	$150	$300	52%
Fireworks Sale License:					
Application Fee	15.05.050	$1,306	$50	$50	4%
Park Cleanup Deposit		$407	$375	$400	98%
Fortune Telling Permit Application Fee	9.08.030 (f)	$1,609	$1,500	$1,600	99%
	9.08.060 (d)				
Initiative Petition Filing Fee	EC 9202-B	$851	$200	$200	24%
Public Safety Department:					
Animal Impound Fee	8.04.150	$65	1st - $50	1st - $60	92%
			2nd - $70	2nd - $80	
			3rd - $90	3rd - $100	
Bicycle License	11.20.060	$7	$5	$7	100%
Bingo Permit Application	9.13.040	$262	$170	$190	73%
			Renewal - $85	Renewal - $100	
Cat License (permanent)	8.04.240	$44	$40	$40	91%
		$44	Neutered - $20	Neutered - $20	45%
Dog License (annual):					
Daily Boarding		$31	$15	$30	97%
License	8.04.210 (a)	$64	$48	$60	94%
		$64	Neutered - $25	Neutered - $25	39%
Penalty (annual)	8.04.220	$66	$50	$60	91%
Handicapped Parking Administrative Fee	11.12.041	$42	$40	$40	95%
Overnight Parking Fees					
Annual permit	11.13.060	$128	$100	$100	78%
Temporary permit	11.13.080	$13	.50 per day	$1 per day	75%
Parking Citation Fine		$79	$45	$60	76%
Public Dance	5.76	$262	Appl. - $235	$250	95%
Removal of Political Campaign Signs	9.34.090	$64	$35	$45	70%
Removal of Real Estate Signs	19.80.100 (e)	$43	$35	$40	93%
Tobacco Retailer License Fee	5.09.100	$125	$100	$125	100%
Vehicle Impound Fee		$142	$95	$140	99%
Wild Animal Permit:					
Application Fee	8.04610 (b)	$252	$225	$250	99%
Application Appeal	8.04.680	$295	$230	$290	98%
Community Development Department:					
Land Use:					
Administrative Variance	19.126.030	$757	$300	$300	40%
Conditional Use Permit	19.114.030	$4,798	$3,000	$3,000	63%
Development Code Amendment	19.142.030	$8,031	$4,000	$5,000	62%
General Plan Amendment	19.142.030	$10,396	$5,000	$5,000	48%
Minor Use Permit	19.114.030	$2,048	$800	$800	39%
Planned Development Permit	19.118.030	$14,817	$5,000 deposit	$5,000 deposit	34%
Specific Plan	19.150	$18,118	$5,000 deposit	$5,000 deposit	28%
Specific Plan Amendment	19.150.080	$12,424	$5,000 deposit	$5,000 deposit	40%
Use Classification	19.04.040	$905	$700	$700	77%
Variance	19.126.030	$5,815	$3,000	$3,000	52%
Zone Change	19.142.030	$7,735	$4,000	$4,000	52%

CITY OF DUARTE - SCHEDULE OF SERVICE CHARGES
Adopted October 11, 2016
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	Code Section	Total Cost	Prior Fee (est. 2011)	Proposed Fee	Recovery Rate
General Planning:					
Site Plan and Design Review					
SF Addition up to 600 sf					
R-1, R-2 & 250 sq ft in R1D	19.122.040	$177	$50	$75	42%
Pools, SF façade changes	19.122.040	$33	$0	$0	0%
Single Story over 600 sq ft					
R-1, R-2 & 250 sq ft in R1D	19.122.040	$585	$300	$300	51%
Additions in R1D over 250 sq ft	19.122.040	$892	$500	$500	56%
Second story additiona less than 250 sq ft	19.122.040	$585	$300	$300	51%
Second story additions 251 sq ft - 600 sq ft	19.122.040	$919	$600	$600	65%
Second story additions over 600 sq ft	19.122.040	$1,934	$750	$750	39%
New single story house	19.122.040	$1,506	$1,400	$1,400	93%
New two story sf house	19.122.040	$2,554	$2,000	$2,000	78%
Major multi family improvements	19.122.040	$865		$500	58%
Addition to multi family	19.122.040	$1,587	$1,000	$1,000	63%
Second Units	19.122.040	$1,086	$950	$1,000	92%
Commercial additions up to 250 sf, minor pkg & façade changes	19.122.040	$164		$100	61%
Commercial additions 251 sf to 2500 sf	19.122.040	$1,587	$1,000	$1,000	63%
Commercial additions over 2500 sf	19.122.040	$3,094	$2,500	$2,500	81%
New multi family and mixed use	19.122.040	$8,972	$5,000	$5,000	56%
Minor commercial/multifamily remodel	19.122.040	$247		$100	40%
New commercial less than 2500 sf	19.122.040	$6,567	$4,000	$4,000	61%
New commercial over 2500 sf to 20,000 sf	19.122.040	$7,570	$5,000	$5,000	66%
New commercial over 20,000sf	19.122.040	$8,715	$6,000	$6,000	69%
Director Review process, items not listed	19.122.040	$567	$300	$300	53%
Major Exterior Improvement - Commercial	19.122.040	$865		$500	58%
ARB Review, items not listed	19.122.040	$3,620	$2,000	$2,000	55%
Reasonable Accommodation	19.120.030	$337	$300	$300	89%
Signs					
Freeway Sign	19.122.040	$1,453	$1,100	$1,400	96%
Monument Sign	19.122.040	$561	$400	$400	71%
Sign Program	19.122.040	$981	$500	$500	51%
Temporary Sign	19.122.040	$30	$15	$15	50%
Wall Sign	19.122.040	$49	$25	$25	51%
Determinations					
Director Decision	19.122.030	$601	$250	$250	42%
Zoning Clearance	19.128.030	$19	$0	$0	0%
Other					
Appeal (to one hearing body)	19.144.030	$2,769	$250	$250	9%
Landscape Plan Review					
Subject to Water Efficient Requirements	19.122.040	$384	Consultant cost + 10%	$300 or Consultant cost + 10%	78%
Landscape Plan Review					
No Water Efficient Requirements	19.122.040	$196	$100	$100	51%
Lighting Plan Review	19.122.040	$489	Consultant cost + 10%	$400 or Consultant cost + 10%	82%
CC&R, Covenant and other Legal Review	19.48	$1,672	Attorney cost +10%	Attorney cost +15%	
Development Agreement	19.148.030	$4,250	Consultant cost + 10%	Attorney cost +15%	
Time Extension - Land Use, ARB, etc.	19.130.070	$189	$150	$150	79%
Subdivisions					
Certificate of Compliance	19.76.020	$1,011	$1,000	$1,000	99%
Lot Line Adjustment	19.76.030	$1,474	$1,300	$1,300	88%
Parcel Merger	19.76.040	$1,989	$1,200	$1,200	60%
Parcel Map	19.74	$4,682	$3,500	$3,500	75%
Tentative Tract Map	19.72.020	$17,196	$7,500	$7,500	44%
Time Extension - Subdivision	19.72.110	$401	$300	$400	100%
Environmental					

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	Code Section	Total Cost	Prior Fee (est. 2011)	Proposed Fee	Recovery Rate
Categorical Exemption w/o Initial Study	State Law	$354	$75	$100	28%
Categorical Exemption with Initial Study	State Law	$1,593	$1,100	$1,500	94%
Negative Declaration (MND, ND)	State Law	$4,386	$3,000	$3,000	68%
EIR	State Law	$17,739	Consultant cost + 10%	Consultant cost + 10%	
Other					
ABC Letter of Necessity		$66	$50	$65	98%
Address Change		$211	$150	$150	71%
Aerials		$27	$10	$10	37%
Development Code (entire document)		$100	$30	$30	30%
General Plan (text)		$76	$25	$25	33%
GP & Zoning Maps (up to 11 x 17)		$6	$5	$5	89%
Hourly Research Fee		$53-$148	$35-$50	$37-$104	57%
Large Family Day Care	19.60.100	$209	$150	$150	72%
Large Map cost (18x24 and above)		$14	Offsite print cost +	$5	36%
Planning Inspection Fee		$53-$148	$35-$50	$37-$104	57%
Public Notice	19.146	$564	$450	$450	80%
Recordation Fee		$18	$15	$15	83%
Reinspection Fee	19.154.120	$53-$148	$35-$50	$37-$104	57%
Special Event Permit	19.124.050	$210	$25	$25	12%
Temporary Use Permit	19.124	$165	$100	$100	61%
Zoning Conformance Letter	19.128.030	$69	$50	$50	72%
Public Works Fees					
Curb &/or Gutter		$150	$125	$125	83%
Curb Core		$104	$75	$75	72%
Driveway Approach		$196	$170	$170	87%
Engineering Fees - Large Developments		$5,872	% of Project Value	% of Project Value	
NPDES Inspection		$216		$200	93%
Right of Way Vacation		$655	$400	$400	61%
Sewer in the Public ROW		$251	$200	$200	80%
Sidewalk		$196	$160	$160	82%
Street Cut in Public ROW		$212	$180	$180	85%
Transportation Route Permit		$114		$100	88%
Parks & Recreation Department:					
City Picnic		$46,666	$75 per booth	$75 per booth	4%
Classess & Camps					
Nature Camp		$466	$190	$210	45%
Recreation Classes		$62,257	Varies	Varies	27%
Senior Classes		$29,220	Varies	Varies	14%
Swim Lessons		$88	$30	Res - $35	43%
				Non Res - $45	70%
Swim Team		$202	$150	$175	87%
Youth Sports		$178	$30	$35	20%
Excursions					
Senior/Adult Excursions		$63	$45	$45	71%
Fitness Center:					
Membership:		$431,221			24%
Aquatics, Exercise, & Aerobics or					
Racquetball, Exercise, & Aerobics			Res - $160	Res - $150	
			Non Res - $220	Non Res - $200	
			Corporate 10-19 - $115	Corporate 10-19 - $115	
			Corporate 20+ - $110	Corporate 20+ - $110	
Total Facility - Individual			Res - $220	Res - $200	
			Non Res - $295	Non Res - $275	
			Corporate 10-19 - $160	Corporate 10-19 - $160	
			Corporate 20+ - $150	Corporate 20+ - $150	

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	Code Section	Total Cost	Prior Fee (est. 2011)	Proposed Fee	Recovery Rate
Total Facility - Individual Senior				Res - $120	
Total Facility - Individual Senior & Spouse				Res - $220	
Total Facility - Family			Res - $320	Res - $300	
			Non Res - $420	Non Res - $400	
Day Use Rates:					
Racquetball or Walleyball (per hour):					
Per Person			$6	$6	
No Show Penalty			$10	$10	
Exercise room/Aerobics:					
Adults 16 & Over			$5	$5	
Senior			$4	$4	
Open Swim/Lap Swim		$7	Adult - $2	Adult - $2	29%
Rental - Community Center:					
Full Auditorium:					
First Hour		$624	Res - $150	Res - $300	48%
		$624	Non Res - $300	Non Res - $600	96%
Each Additional Hour			Res - $50	Res - $50	
			Non Res - $100	Non Res - $100	
Half Auditorium:					
First Hour		$317	Res - $100	Res - $150	47%
		$317	Non Res - $200	Non Res - $300	95%
Each Additional Hour			Res - $40	Res - $40	
			Non Res - $80	Non Res - $80	
Kitchen			$100	$100	
Audio/Visual Equipment			$60	$60	
Optional Cleaning Fee			$250	$250	
Rental - Courts (per hour)					
Basketball, Futsol, Tennis or Volleyball		$115	Res - $17	Res - $25	22%
		$115	Non Res - $34	Non Res - $40	35%
		Duarte Youth Non Profit - $0		Duarte Youth Non Profit - $0	0%
Rental - Gazebos (Small) 8hr		$178	Res - $50	Res - $50	28%
		$178	Non Res - $75	Non Res - $75	42%
Rental - Gazebos (Large) 8hr		$178	Res - $75	Res - $75	42%
		$178	Non Res - $100	Non Res - $100	56%
Rental - Park Restroom (per hour)		$148	Res - $20	Res - $20	14%
		$148	Non Res - $40	Non Res - $40	27%
		Duarte Youth Non Profit - $12		Duarte Youth Non Profit - $12	8%
Rental - Parks (No Lights) per hr					
Soccer/Open Field		$133	Res - $10	Res - $10	8%
		$133	Non Res - $30	Non Res - $30	23%
		Duarte Youth Non Profit - $0		Duarte Youth Non Profit - $0	0%
Rental - Royal Oaks Park Building:					
First Hour		$296	Res - $90	Res - $90	30%
		$296	Non Res - $180	Non Res - $180	61%
Each Additional Hour			Res - $35	Res - $35	
			Non Res - $70	Non Res - $70	
Rental - Skate Park		$129	Res - $30	Res - $30	23%
		$129	Non Res - $55	Non Res - $55	43%
		Duarte Youth Non Profit - $0		Duarte Youth Non Profit - $0	0%
Rental - Sports Fields (per hour):					
With Lights		$133	Res - $30	Res - $30	23%
		$133	Non Res - $55	Non Res - $55	41%
		Duarte Youth Non Profit - $15		Duarte Youth Non Profit - $15	11%
Without Lights		$217	Res - $10	Res - $10	5%
		$217	Non Res - $20	Non Res - $20	9%
		Duarte Youth Non Profit - $0		Duarte Youth Non Profit - $0	0%

CITY OF DUARTE - SCHEDULE OF SERVICE CHARGES
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	Code Section	Total Cost	Prior Fee (est. 2011)	Proposed Fee	Recovery Rate
Rental - Swimming Pool (per hour):					
Pool Party:					
50 Persons & Under		$278	Res - $60	Res - $60	22%
		$278	Non Res - $120	Non Res - $120	43%
51 to 100 Persons		$278	Res - $75	Res - $75	27%
		$278	Non Res - $150	Non Res - $150	54%
101 to 125 Persons		$278	Res - $100	Res - $100	36%
		$278	Non Res - $200	Non Res - $200	72%
126 to 200 Persons		$310	Res - $150.	Res - $150.	48%
		$310	Non Res - $300	Non Res - $300	97%
Lifeguard		$33	$20	$20	61%
Rental - Teen Center:					
Game/Mtg/Patio					
First Hour		$487	Res - $125	Res - $125	26%
			Non Res - $250	Non Res - $250	51%
Each Additional Hour			Res - $45	Res - $45	
			Non Res - $90	Non Res - $90	
Mtg Room Only		$347			
First Hour			Res - $50	Res - $50	14%
			Non Res - $100	Non Res - $100	29%
Each Additional Hour			Res - $20	Res - $20	
			Non Res - $40	Non Res - $40	
Audio/Visual Equipment		$43	$20	$20	47%
Gas BBQ Grill		$42	$40	$40	95%
Optional Cleaning Fee		$551	$200	$200	36%
Administrative Services Department:					
Auctioneer License Application Fee	5.12.060,070	$1,021	$500	$500	49%
Budget - City of Duarte		$27	Res - $50	Res - $20	74%
			Other - $65	Other - $25	93%
Business License:					
Application Fee		$83	$35	$35	42%
Duplicate License	5.04.090	$19	$7	$10	53%
Business Listing		$154	$45	$150	97%
Business on a Vacant Lot Permit	5.36.040	$795	$425	$750	94%
Close out sale Permit		$231	$200	$230	100%
Copy Charge - Paper		$16	Res - $0.25	Res - $0.35	2%
			Non Res - $0.35	Non Res - $0.45	3%
Copy Charge - Scan		$2	Res - $0.25	Res - $0.35	18%
			Non Res - $0.35	Non Res - $0.45	23%
Distribution of Advertising Material Permit	5.32.070	$158	$75	$75	47%
			+ $10/Badge	+ $10/Badge	
Filming Permit Fee	5.40.030 C.	$1,369	$1,300	$1,300	95%
Financial Statements - City Comprehensive		$29	$20	$20	69%
Garage & Lawn Sale Application Permit		$15	$0	$0	0%
Massage Establishment Business License Fee	5.04 , 5.56	$1,035	$354	$800	77%
			Renewal - $191	Renewal - $300	
Massage Technician License Fee	5.04 , 5.56	$418	$96	$200	48%
			Renewal - $62	Renewal - $125	
Returned Check Charge		$77	$40	$40	52%
Special Event Insurance:					
Application Fee		$160	$90	$90	56%
Premium		$81-$847+	Actual Cost	Actual Cost	100%

MEMORANDUM

To: Honorable Mayor and Members of the City Council

From: Craig Hensley, Community Development Director

Date: May 12, 2020

Subject: Resolution Approving Participation in the Los Angeles Urban County Community Development Block Grant (CDBG) Program by Entering into a Three-Year Cooperation Agreement with the County of Los Angeles

RECOMMENDATION

Staff recommends that the City Council:

1. Adopt Resolution No. 20-R-13 approving continued participation in the Los Angeles Urban County Community Development Block Grant (CDBG) Program by entering into a three-year Cooperation Agreement for Fiscal Years (FY) 2021, 2022, and 2023 with the County of Los Angeles; and,

2. Authorize the City Manager, or designee, to execute any and all documents necessary for participation in the Los Angeles Urban County CDBG Program.

BACKGROUND

Duarte has been a participating city in the Los Angeles County Development Authority's (LACDA) federal Community Development Block Grant (CDBG) Program for many years. The mission of the CDBG Program is to principally benefit low and moderate income persons, aid in the prevention of neighborhood deterioration and meet other urgent community development needs. The City's annual allocation of approximately $148,000 in federal CDBG funds supports activities such as construction of American with Disabilities Act (ADA) compliant improvements.

ANALYSIS

In order to continue participating in the Los Angeles Urban County CDBG Program, the City must enter into a Three-Year Cooperation Agreement with LACDA for FY 2021, 2022, and 2023, and adopt a Resolution authorizing the City Manager or designee to sign the Cooperation Agreement on behalf of the City Council. The Three-Year Cooperation Agreement with LACDA includes a provision for automatic renewal annually thereafter.

CONCLUSION

Thus, staff recommends that the City Council adopt Resolution No. 20-XXXX approving continued participation in the Los Angeles Urban County Community Development Block Grant (CDBG) Program by entering into a three-year Cooperation Agreement for the Fiscal Years (FY) 2021, 2022, and 2023 with the County of Los Angeles and authorizing the City Manager, or designee, to execute any and all documents necessary for participation in the Los Angeles Urban County CDBG Program.

ATTACHMENTS

1. Resolution No. 20-R-13
2. Cooperation Agreement for the 2021-2023 Los Angeles Urban County Community Development Block Grant (CDBG) Program Qualification Period

RESOLUTION NO.

A RESOLUTION OF THE DUARTE CITY COUNCIL APPROVING PARTICIPATION IN THE LOS ANGELES URBAN COUNTY COMMUNITY DEVELOPMENT BLOCK GRANT PROGRAM BY ENTERING INTO A THREE-YEAR COOPERATION AGREEMENT WITH THE COUNTY OF LOS ANGELES

WHEREAS, the City of Duarte desires to participate in the Los Angeles Urban County Community Development Block Grant (CDBG) Program for the qualification period beginning July 1, 2021; and

WHEREAS, the City authorizes the execution of a Cooperation Agreement with the County of Los Angeles in order to receive said CDBG funds; and

WHEREAS, the Los Angeles County Development Authority is the County entity responsible for the disbursement of Community Development Block Grant Funds through the Small Cities Program to the City of Duarte.

NOW, THEREFORE, THE DUARTE CITY COUNCIL DOES HEREBY ORDER AND RESOLVE AS FOLLOWS:

SECTION 1. The City Council hereby adopts and approves the County of Los Angeles Participating City Cooperation Agreement between the City of Duarte and the County of Los Angeles for the time period of July 1, 2021 through June 30, 2024 and self-renewing thereafter.

SECTION 2. The City Council authorizes the City Manager, or designee, to execute any and all documents necessary for participation in the Los Angeles Urban County CDBG Program on behalf of the City.

SECTION 3. The City Council further authorizes the Community Development Director or designee to timely execute all necessary CDBG Program contracts and agreements with the Los Angeles County Development Authority, together with any changes therein which may be approved by the City Manager and, as necessary, the City Attorney.

SECTION 4. The City Clerk shall certify to the adoption of this Resolution and thenceforth and thereafter the same shall be in full force and effect.

PASSED, APPROVED, AND ADOPTED this 12th day of May, 2020.

_____

Mayor Samuel Kang

STATE OF CALIFORNIA)
COUNTY OF LOS ANGELES) ss.
CITY OF DUARTE)

I, Marla Akana, City Clerk of the City of Duarte, County of Los Angeles, State of California, hereby attest to the above signature and certify that Resolution 20-13 was adopted by the City Council of said City of Duarte at a regular meeting of said Council held on the 12th day of May, 2020, by the following vote:

AYES: Councilmembers:

NOES: Councilmembers:

ABSENT: Councilmembers:

_____
City Clerk Marla Akana
City of Duarte, California

COUNTY OF LOS ANGELES
COMMUNITY DEVELOPMENT BLOCK GRANT PROGRAM
HOME INVESTMENT PARTNERSHIPS PROGRAMS

PARTICIPATING CITY COOPERATION AGREEMENT

This Agreement is being entered into on this ____ day of _____, to be effective on the 1st day of July 2021, by and between the City of Duarte, hereinafter referred to as "City," and the County of Los Angeles, by and through the Executive Director of the Los Angeles County Development Authority, hereinafter referred to as "County" and shall remain in effect for the three-year qualification period through the 30th day of June 2024. After this date, this Agreement provides for automatic renewal of participation in successive three-year qualification periods, unless the County, or the City provides written notice it elects not to participate in a new qualification period.

WITNESSETH THAT:

WHEREAS, in 1974, the U.S. Congress enacted and the President signed a law entitled, the Housing and Community Development Act of 1974, as amended, herein called the "Act;" and

WHEREAS, County and City desire to cooperate to undertake, or assist in undertaking, community development, community renewal of lower income housing assistance activities, specifically urban renewal and publicly assisted housing, including, but not limited to, the improvement or development of housing for persons of low- to moderate-incomes, and other community or urban renewal activities authorized by the Act, the Cranston-Gonzalez National Affordable Housing Act (NAHA), and the U.S. Housing Act of 1937, as amended;

WHEREAS, the Community Development Block Grant (CDBG) Program, the HOME Investment Partnerships (HOME) Program, and the Emergency Solutions Grant (ESG) Program are required to have an approved comprehensive housing strategy as authorized under NAHA;

WHEREAS, the County has requested of the U.S. Department of Housing and Urban Development, hereinafter referred to as "HUD," that the County be designated as an "Urban County;"

WHEREAS, the City desires to participate with the County in said program;

WHEREAS, as the Urban County designee, the County will take responsibility and assume all obligations of an applicant under federal statues, including: the analysis of needs, the setting of objectives, the development of community development and housing assistance plans, the consolidated plan, and the assurances of certifications;

WHEREAS, the terms and provisions of this Agreement are fully authorized under State and local law, and this Agreement provides full legal authority for the County, by and through its agents and instrumentalities including the Los Angeles County Development Authority, herein referred as "County," to undertake, or assist in undertaking, essential community development and housing assistance activities, specifically urban renewal and publicly assisted housing; and

WHEREAS, by executing this Agreement, the parties hereby give notice of the intention to participate in the Urban County CDBG Program.

NOW, THEREFORE, the parties agree as follows:

1. The City hereby authorizes the County to perform, or cause to be performed, those acts necessary or appropriate to implement the community development and housing assistance activities, specifically urban renewal and publicly assisted housing, including, but not limited to, improvement or development of housing for persons of low- to moderate-income, and other community or urban renewal activities authorized under the Act specified for the City in the County's Consolidated Plan which will be funded from annual CDBG and applicable HOME Programs from Federal annual appropriations and from any program income generated from the expenditure of such funds. County shall have final authority and responsibility for selecting projects and annually filing its Final Housing and Community Development Plan with HUD.

   In the event this Agreement extends into succeeding fiscal years and funds have not been appropriated, this Agreement will automatically terminate as of June 30 of the then current fiscal year. The County will endeavor to notify the City in writing within ten (10) days of receipt of non-appropriation notice.

2. This Agreement covers the following formula funding programs administered by HUD where the County is awarded and accepts funding directly from HUD: The CDBG Entitlement Program, the HOME Program and the ESG Program.

3. In executing this Agreement, the City understands that it shall not be eligible to apply for grants under the Small Cites or State CDBG Programs for appropriations for fiscal years during the period in which the City is participating in the Urban County CDBG entitlement program; and further, the City shall not be eligible to participate in the HOME and ESG programs except through the Urban County.

4. The City may participate in a HOME Program only through the County. Thus, even if the County does not receive a HOME formula allocation, the City cannot form a HOME consortium with other local governments.

5. The term of this Agreement shall commence on **July 1, 2021**, the beginning date of the first year of the new Urban County Qualification Period, which will end on **June 30, 2024**. After this three (3) year Qualification Period ends, this Agreement will automatically renew for another period of three (3) years, unless the City provides written notice at least 60 days prior to the end of the term that it elects not to participate in a new qualification period. A copy of that notice must be sent to the HUD Field Office. Towards the end of the three-year term, the County will notify the City in writing of its right not to participate in the Urban County for a successive three-year term.

   The parties agree to adopt amendments to this Agreement incorporating changes necessary to meet the requirements for cooperation agreements set forth in the Urban County Qualification Notice by HUD, prior to the subsequent three-year extension of the term. Any amendment to this Agreement shall be submitted to

HUD as required by the regulations and any failure to adopt required amendments will void the automatic renewal of the Agreement for the subsequent three-year term.

6. This Agreement shall be effective for the period of time required for the expenditure of all CDBG and/or applicable HOME funds allocated to the City under this Agreement and appropriations from any program income therefrom and for the completion of the funded activities. The County and City agree that they cannot terminate or withdraw from this Agreement while it remains in effect.

   The City and the County agree to cooperate to undertake, or assist in undertaking, community renewal and lower income housing assistance activities, specifically urban renewal and publicly assisted housing, including, but not limited to, the improvement or development of housing for persons of low- to moderate-incomes, and other community or urban renewal activities authorized by the Act.

   The City and the County in the performance of this Agreement shall take all actions necessary or appropriate to assure compliance with the Urban County's certification under Section 104 (b) of Title I of the Act, as amended, regarding Title VI of the Civil Rights Act of 1964; the Fair Housing Act and affirmatively furthering fair housing as cited in 24 CFR 91.225(a); Section 109 of Title I of the Act, which incorporates Section 504 of the Rehabilitation Act of 1973; the Age Discrimination Act of 1975, and all other applicable laws and regulations.

   Urban County funding is prohibited for activities in, or in support of, any City that does not affirmatively further fair housing within its local jurisdiction or that impedes the County's action to comply with the Fair Housing Certification.

7. The City and County agree that CDBG and HOME funding is prohibited for any activities in or in support of any cooperating City that do not affirmatively further fair housing within its own jurisdiction or that impede the County's action to comply with its fair housing certification.

8. Pursuant to 24 CFR 570.501 (b), the City is subject to all requirements applicable to subrecipients, including the requirement of a written agreement as set forth in 24 CFR 570.503.

9. The City shall report to the County of any income generated by the use of CDBG or HOME funds received by the City. Any such program income must be remitted to the County within 30 days of receipt if applicable. Such program income may be used for eligible activities in accordance with all CDBG and HOME requirements as may then apply.

10. The County shall be responsible for monitoring and reporting to HUD on the use of any program income; therefore, the City shall be required to maintain appropriate record keeping and reporting for this purpose.

11. The City may not sell, trade or otherwise transfer all or any portion of CDBG funds at another metropolitan city, urban county, unit of general local government, or Indian tribe, or insular area that directly or indirectly receives CDBG funds in

exchange for any other funds, credits or non-Federal consideration, but must use such funds for activities eligible under title I of the Housing and Community Act of 1974.

12. In the event of grant close-out or termination of this Agreement, any program income that is on hand or received subsequent to the close-out or change in status shall be paid to the County within 60 days after grant closeout.

13. All program income generated from the disposition or transfer of real property acquired or improved by the City, using CDBG and/or HOME funds or program income, during the term of this Agreement, shall be subject to all the terms and conditions of this Agreement, particularly Sections 6 through 11.

14. Any real property which is acquired or improved by the City during the term of this Agreement, in whole or in part, using CDBG and/or HOME funds or program income in excess of $25,000, shall be subject to the following standards:

    a. The County shall be notified by the City in writing of any modification or change in the use or disposition of such real property from that planned at the time of the acquisition or improvement. Such notification shall be made prior to the modification, change in use or disposition.

    b. If such real property is sold within five (5) years or transferred for a use which does not qualify as an eligible activity under CDBG and/or HOME regulations, the City shall reimburse to the County an amount equal to the pro-rata share of the current fair market value of the property or proceeds from the sales. The pro-rata share shall be calculated by multiplying the current market value by the percentage of the purchase price paid with CDBG funds or program income.

15. The City shall make available for inspection and audit to County's and HUD's representatives, upon request, at any time during the duration of this Agreement and for a period of five (5) years, thereafter, all of its books and records relating to CDBG and HOME program activities and income.

16. Following the end of the three-year reimbursable contract period and after resolving any financial or programmatic findings, if a City elects to leave the Los Angeles County Grant Program, and is not eligible to become an entitlement City, the City will be unable to request that its allocation or any remaining balance be transferred to the City. Any remaining balance will be transferred to the funding pool of the Supervisorial District in which the City is located.

17. The City has adopted and is enforcing:

    a. A policy prohibiting the use of excessive force by law enforcement agencies within its jurisdiction against any individuals engaged in non-violent civil rights demonstrations; and

    b. A policy of enforcing applicable State and local laws against physically barring entrance to or exit from a facility or location which is the subject of

such non-violent civil rights demonstrations within its jurisdiction.

18. The City shall provide a drug-free workplace by:

a. Publishing a statement notifying employees that the unlawful manufacture, distribution, dispensing, possession, or use of a controlled substance is prohibited in the City's workplace and specifying the actions that will be taken against employees for violation of such prohibition.

b. Establishing an ongoing drug-free awareness program to inform employees about:

i The dangers of drug abuse in the workplace;

ii The City's policy of maintaining a drug-free workplace;

iii Any available drug counseling, rehabilitation, and employee assistance programs; and

iv The penalties that may be imposed upon employees for drug abuse violations occurring in the workplace.

c. Making it a requirement that each employee to be engaged in the performance of the grant be given a copy of the statement required by paragraph "a" of this Section 18.

d. Notifying the employee in the statement required by paragraph "a" of this Section 18 that, as a condition of employment funded by the CDBG and/or HOME grant, the employee will:

i Abide by the terms of the statement; and

ii Notify the City in writing of his or her conviction for a violation of a criminal drug statute occurring in the workplace no later than five (5) calendar days after such conviction.

e. Notifying the County in writing, within ten (10) calendar days after receiving notice under subparagraph d(ii) of this Section 18 from an employee or otherwise receiving actual notice of any such conviction; and the City must provide written notice, including position or title, of any City employees convicted of any criminal drug statute to every County officer or other designee who processed a CDBG or HOME grant which funded any activity on which the convicted employee was working, unless HUD has designated an identification number(s) of each affected grant.

f. Taking one (1) of the following actions, within thirty (30) calendar days of receiving notice under subparagraph d(ii) of this Section 18, with respect to any employee who is so convicted:

i Taking appropriate personnel action against such an employee, up to and including termination, consistent with the requirements of the

Rehabilitation Act of 1973, as amended; or

ii Requiring such employee to participate satisfactorily in a drug abuse assistance or rehabilitation program approved for such purpose by a federal, State, local health, law enforcement, or other appropriate agency.

g. Making a good faith effort to continue to maintain a drug-free workplace through implementation of paragraphs a, b, c, d, e, and f, of this Section 18.

IN WITNESS WHEREOF, the Board of Supervisors of the County of Los Angeles has caused this Agreement to be subscribed by the Executive Director of the Los Angeles County Development Authority, and the City has subscribed the same through its duly authorized officers, on the day, month, and year first above written.

County Counsel Certification

The office of the County Counsel hereby certifies that the terms and provisions of this Agreement are fully authorized under State and local laws, and that the Agreement provides full legal authority for the County to undertake or assist in undertaking essential community development and housing assistance activities, specifically urban renewal and public assisted housing.

By: _____ _____
Deputy County Counsel Date

COUNTY OF LOS ANGELES

By _____
EMILIO SALAS
Acting Executive Director
Los Angeles County Development Authority

CITY OF DUARTE

By _____
MAYOR OR DESIGNEE

ATTEST:

City Clerk

By _____

APPROVED AS TO FORM:

MARY C. WICKHAM
County Counsel

By _____
Deputy

APPROVED AS TO FORM:

By _____
City Attorney

CITY COUNCIL STAFF REPORT

Date: May 12, 2020

To: Mayor and City Council

From: Carolyn J. Harshman, Emergency Planning Consultants; and Jason Golding, Planning Manager

Subject: Adoption of Local Hazard Mitigation Plan; Resolution 20-R-15

Purpose

The Disaster Mitigation Act of 2000 requires communities to develop, implement, and update hazard mitigation plans recognizing potential natural hazards and to identify and consider mitigation measures to reduce the risks associated with those hazards. The plan is a tool to aid in facility and infrastructure planning and improvements and is a requirement to qualify for federal hazard mitigation grants. The federal regulations require hazard mitigation plans to be updated every five years. The City's existing Hazard Mitigation Plan was approved by FEMA in 2014. The updated plan must first be adopted by the local jurisdiction's governing body and then approved by FEMA before being provided a Final Letter of Approval. Staff is seeking the adoption of Resolution No. 20-R-15 finalizing the hazard mitigation planning process.

Background/Analysis

The Hazard Mitigation Plan (HMP) process began in December 2018 with assistance from Emergency Planning Consultants (EPC) and the City's Hazard Mitigation Planning Team, made up of representatives from the City's Public Safety Department and Engineering, Field Services, and Planning Divisions (Planning Team). Four Planning Team meetings were held before the first draft of the HMP. The Planning Team invited the general public to participate in the planning process by making the Second Draft Plan available during the plan writing phase. The public was informed of the Plan's availability through several mediums including the City's website "City News/Latest News" on the website landing page, bi-monthly "Community Development Update", "City Hall Happenings" (July 11 and 17, 2019), and Facebook (July 7, 2019). In addition, external agencies (including: utility providers, DUSD, special districts and adjoining jurisdictions) were provided an invitation to comment on the Second Draft Plan. The Second Draft Plan was announced and posted on the City's website from July 3-15, 2019 along with a hard copy of the HMP available to the public at City Hall.

Carolyn Harshman, President of EPC, was selected by the City Council in November 2018 to prepare the update to our local HMP. Ms. Harshman facilitated a total of four meetings, development of the 2020 HMP, and will finalize the approval process with California Office of Emergency Services (Cal OES) and the Federal Emergency Management Agency (FEMA).

Through the planning process, the Planning Team developed a Mitigation Actions Matrix that identifies desired and planned projects including those from the existing City plans, including the General Plan and Capital Improvement Program and reflects the following goals: (1) protect life and property, (2) enhance public awareness, (3) preserve natural systems, (4) encourage partnerships and implementation, and (5) strengthen emergency services. The adoption of the HMP will allow the City to seek mitigation grant funding when the opportunity becomes available. The HMP will be a living document and will be reviewed by the Planning Team members on a quarterly basis to ensure the Mitigation Actions Matrix is implemented.

A final draft of the 2020 HMP will be provided electronically to the City Council, with a digital copy provided through a link on the City Council agenda available through the City's website.

Alignment with Strategic Goals

The adoption of the Hazard Mitigation Plan is the key to qualifying for Hazard Mitigation Grant Program funding that follows Presidential Disaster Declarations. Seeking out such opportunities meets the City's goal to be fiscally responsible. This HMP provides a framework for planning for natural hazards. The resources and background information in the plan are applicable citywide and to City-owned facilities outside of the City boundaries, and the goals and recommendations provide groundwork for local mitigation plans and partnerships. Finally, the HMP helps meet the goals and objectives of the General Plan Land Use and Safety elements and provides implementation strategies for future mitigation planning activities.

Recommendation

It is recommended that the City Council adopt Resolution 20-R-15, approving the updated 2020 Hazard Mitigation Plan, and authorize Staff to forward the resolution of approval to FEMA for issuance of a Final Letter of Approval.

ATTACHMENTS:

A. Final Draft, 2020 Hazard Mitigation Plan (electronic)
B. Resolution 20-R-15

RESOLUTION NO.

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF DUARTE, CALIFORNIA, ADOPTING THE 2020 LOCAL HAZARD MITIGATION PLAN

WHEREAS, the City of Duarte is vulnerable to natural and human-caused hazards which may result in loss of life and property, economic hardship, and threats to public health and safety; and

WHEREAS, Section 322 of the Disaster Mitigation Act of 2000 (DMA 2000) requires state and local governments to develop and submit for approval a mitigation plan that outlines processes for identifying their respective natural hazards, risks, and vulnerabilities; and

WHEREAS, the City of Duarte acknowledges the requirements of Section 322 of DMA 2000 to update the 2014 Hazard Mitigation Plan in order to be eligible for pre- and post-disaster federal hazard mitigation grant funds; and

WHEREAS, the City of Duarte developed by a Planning Team with representatives from the City, pertinent municipalities and other stakeholders; and

WHEREAS, a public involvement process consistent with the requirements of DMA 2000 was conducted to develop the Hazard Mitigation Plan; and

WHEREAS, the 2020 Hazard Mitigation Plan recommends mitigation activities that will reduce losses to life and property affected by both natural and human-caused hazards that face the City; and

WHEREAS, pursuant to the California Environmental Quality Act ("CEQA"), City Staff determined that the adoption of the 2020 Hazard Mitigation Plan ("Project") is covered by the general rule, pursuant to Section 15061(b)(3) of the State CEQA Guidelines (14 CCR§ 15061(b)(3)), that CEQA applies only to projects which have the potential for causing a significant effect on the environment, and City Staff found that there is no possible significant effect directly related to the Project. Furthermore, CEQA Guidelines Sections 15262 and 15269 provide additional guidance, in the context, that the Project is a planning study that does not tacitly approve projects that would otherwise require independent environmental review under CEQA.

NOW, THEREFORE, THE CITY COUNCIL OF THE CITY OF DUARTE, CALIFORNIA, RESOLVES AS FOLLOWS:

SECTION 1. The City Council finds that all of the facts set forth in the Recitals of this Resolution are true and correct.

SECTION 2. The City Council has reviewed the Project and based upon the whole record before it, in the exercise of its independent judgment and analysis, concurs that the adoption of the City of Duarte 2020 Local Hazard Mitigation Plan is exempt from consideration under the California Environmental Quality Act ("CEQA") pursuant to CEQA Guidelines Section 15061 (b)(3) because it can

be seen with certainty that there is no possibility that the adoption of this Plan, in and of itself, may have a significant effect on the environment; and future projects described within the Plan may be subject to independent environmental review pursuant to CEQA, and therefore no further action is required under CEQA at this time.

SECTION 3. The City Council hereby approves and adopts the City of Duarte 2020 Local Hazard Mitigation Plan.

PASSED, APPROVED, AND ADOPTED at a regular meeting of the City Council of the City of Duarte this 12th day of May, 2020.

_____
Mayor Samuel Kang

STATE OF CALIFORNIA)
COUNTY OF LOS ANGELES) ss.
CITY OF DUARTE)

I, Marla Akana, City Clerk of the City of Duarte, County of Los Angeles, State of California, hereby attest to the above signature and certify that Resolution No. ____ was adopted by the City Council of said City of Duarte at a regular meeting of said Council held on the _____ day of _____, 2020, by the following Roll Call vote:

AYES: Councilmembers:

NOES: Councilmembers:

ABSENT: Councilmembers:

_____
City Clerk Marla Akana
City of Duarte, California

April 19, 2020 | # Hazard Mitigation Plan















emergency planning consultants

City of Duarte

Q&A | ELEMENT A: PLANNING PROCESS | A1c.

Q: Does the plan identify who represented each jurisdiction? (At a minimum, it must identify the jurisdiction represented and the person's position or title and agency within the jurisdiction.) (Requirement §201.6(c)(1))

A: See **Credits** below.

Credits

Special Thanks

Hazard Mitigation Planning Team:

Agency	*Name*	*Department*	*Position*
City of Duarte	Jason Golding	Community Development	Planning Division Manager
	Amanda Hamilton	Community Development	Public Works Manager
	Gerard Batista	Community Development	Field Services Manager
	Nick Baldwin	Community Development	Associate Planner
	Brian Villalobos	Public Safety	Public Safety Services Director
	Larry Breceda	Public Safety	Public Safety Manager
Emergency Planning Consultants	Carolyn J. Harshman	Consultant	President

Acknowledgements

City of Duarte

- ✓ Tzeitel Paras-Caracci, Mayor
- ✓ Samuel Kang, Mayor Pro Tem
- ✓ John Fasana, Council Member
- ✓ Liz Reilly, Council Member
- ✓ Margaret Finlay, Council Member
- ✓ Bryan Urias, Council Member
- ✓ Toney Lewis, Council Member

Point of Contact

To request information or provide comments regarding this mitigation plan, please contact:

Name & Position Title	Jason Golding, Planning Division Manager
Email	goldingj@accessduarte.com
Mailing Address	1600 Huntington Drive, Duarte, CA 91010
Telephone Number	(626) 357-7931 x231

Consulting Services

Emergency Planning Consultants

- ✓ Project Manager: Carolyn J. Harshman, CEM, President
- ✓ Lead Research Assistant: Alex L. Fritzler
- ✓ HAZUS/GIS: Zoe Schumacher

3665 Ethan Allen Avenue
San Diego, California 92117
Phone: 858-483-4626
epc@pacbell.net
www.carolynharshman.com

Mapping

The maps in this plan were provided by the City of Duarte, County of Los Angeles, Federal Emergency Management Agency (FEMA), or were acquired from public Internet sources. Care was taken in the creation of the maps contained in this Plan, however they are provided "as is". The City of Duarte cannot accept any responsibility for any errors, omissions or positional accuracy, and therefore, there are no warranties that accompany these products (the maps). Although information from land surveys may have been used in the creation of these products, in no way does this product represent or constitute a land survey. Users are cautioned to field verify information on this product before making any decisions.

Mandated Content

In an effort to assist the readers and reviewers of this document, the jurisdiction has inserted "markers" emphasizing mandated content as identified in the Disaster Mitigation Act of 2000 (Public Law – 390). Following is a sample marker:

EXAMPLE

Q&A | ELEMENT A: PLANNING PROCESS | A1a.

Q Does the plan document the planning process, including how it was prepared (with a narrative description, meeting minutes, sign-in sheets, or another method)? (Requirement §201.6(c)(1))

A:

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Part I: PLANNING PROCESS

Q&A | ELEMENT B: HAZARD IDENTIFICATION AND RISK ASSESSMENT | A1b.

Q: Does the plan list the jurisdiction(s) participating in the plan that are seeking approval? (Requirement §201.6(c)(1))

A: See **Introduction** below.

Introduction

The Hazard Mitigation Plan (Mitigation Plan) was prepared in response to Disaster Mitigation Act of 2000 (DMA 2000). DMA 2000 (also known as Public Law 106-390) requires state and local governments to prepare mitigation plans to document their mitigation planning process, and identify hazards, potential losses, mitigation needs, goals, and strategies. This type of planning supplements the City's comprehensive land use planning and emergency management planning programs. This document is a federally mandated update to the City of Duarte 2014 Hazard Mitigation Plan and ensures continuing eligibility for Hazard Mitigation Grant Program (HMGP) funding.

DMA 2000 was designed to establish a national program for pre-disaster mitigation, streamline disaster relief at the federal and state levels, and control federal disaster assistance costs. Congress believed these requirements would produce the following benefits:

- ✓ Reduce loss of life and property, human suffering, economic disruption, and disaster costs.
- ✓ Prioritize hazard mitigation at the local level with increased emphasis on planning and public involvement, assessing risks, implementing loss reduction measures, and ensuring critical facilities/services survive a disaster.
- ✓ Promote education and economic incentives to form community-based partnerships and leverage non-federal resources to commit to and implement long-term hazard mitigation activities.

The following FEMA definitions are used throughout this plan (Source: FEMA, 2002, *Getting Started, Building Support for Mitigation Planning*, FEMA 386-1):

Hazard Mitigation – "Any sustained action taken to reduce or eliminate the long-term risk to human life and property from hazards".

Planning – "The act or process of making or carrying out plans; specifically, the establishment of goals, policies, and procedures for a social or economic unit."

Planning Approach

The four-step planning approach outlined in the FEMA publication, *Developing the Mitigation Plan: Identifying Mitigation Actions and Implementing Strategies* (FEMA 386-3) was used to develop this plan:

- ✓ **Develop mitigation goals and objectives -** The risk assessment (hazard characteristics, inventory, and findings), along with municipal policy documents, were utilized to develop mitigation goals and objectives.
- ✓ **Identify and prioritize mitigation actions -** Based on the risk assessment, goals and objectives, existing literature/resources, and input from participating entities, mitigation activities were identified for each hazard. Activities were 1) qualitatively evaluated against the goals and objectives, and other criteria; 2) identified as high, medium, or low priority; and 3) presented in a series of hazard-specific tables.
- ✓ **Prepare implementation strategy -** Generally, high priority activities are recommended for implementation first. However, based on community needs and goals, project costs, and available funding, some medium or low priority activities may be implemented before some high priority items.
- ✓ **Document mitigation planning process -** The mitigation planning process is documented throughout this plan.

Hazard Land Use Policy in California

Planning for hazards should be an integral element of any City's land use planning program. All California cities and counties have General Plans (also known as Comprehensive Plans) and the implementing ordinances that are required to comply with the statewide land use planning regulations.

The continuing challenge faced by local officials and state government is to keep the network of local plans effective in responding to the changing conditions and needs of California's diverse communities, particularly in light of the very active seismic region in which we live.

Planning for hazards requires a thorough understanding of the various hazards facing the City and region as a whole. Additionally, it's important to take an inventory of the structures and contents of various City holdings. These inventories should include the compendium of hazards facing the City, the built environment at risk, the personal property that may be damaged by hazard events and most of all, the people who live in the shadow of these hazards. Such an analysis is found in this hazard mitigation plan.

State and Federal Partners in Hazard Mitigation

All mitigation is local and the primary responsibility for development and implementation of risk reduction strategies and policies lies with each local jurisdiction. Local jurisdictions, however, are not alone. Partners and resources exist at the regional, state and federal levels. Numerous California state agencies have a role in hazards and hazard mitigation.

Some of the key agencies include:

- ✓ California Office of Emergency Services (Cal OES) is responsible for disaster mitigation, preparedness, response, recovery, and the administration of federal funds after a major disaster declaration;
- ✓ Southern California Earthquake Center (SCEC) gathers information about earthquakes, integrates information on earthquake phenomena, and communicates this to end-users and the general public to increase earthquake awareness, reduce economic losses, and save lives.

- ✓ California Department of Forestry and Fire Protection (CAL FIRE) is responsible for all aspects of wildland fire protection on private and state properties, and administers forest practices regulations, including landslide mitigation, on non-federal lands.
- ✓ California Division of Mines and Geology (DMG) is responsible for geologic hazard characterization, public education, and the development of partnerships aimed at reducing risk.
- ✓ California Division of Water Resources (DWR) plans, designs, constructs, operates, and maintains the State Water Project; regulates dams; provides flood protection and assists in emergency management. It also educates the public, serves local water needs by providing technical assistance
- ✓ FEMA provides hazard mitigation guidance, resource materials, and educational materials to support implementation of the capitalized DMA 2000.
- ✓ United States Census Bureau (USCB) provides demographic data on the populations affected by natural disasters.
- ✓ United States Department of Agriculture (USDA) provides data on matters pertaining to land management.

Q&A | ELEMENT A: PLANNING PROCESS | A3

Q: Does the Plan document how the public was involved in the planning process during the drafting stage? (Requirement §201.6(b)(1))

A: See **Stakeholders** below.

Stakeholders

A Hazard Mitigation Planning Team (Planning Team) consisting of department representatives from City of Duarte staff worked with Emergency Planning Consultants to create the updated Plan. ***The Planning Team served as the primary stakeholders throughout the planning process. The general public and external agencies served as secondary stakeholders with an opportunity to contribute to the plan during the Plan Writing Phase of the planning process.***

As required by DMA 2000, the Planning Team invited the "general public" to participate in the planning process by making the Second Draft Plan available during the plan writing phase. The public was informed of the Plan's availability through several mediums (see Attachments) including the City's website "City News/Latest News" on the website landing page, bi-monthly "Community Development Update", and "City Hall Happenings" (July 11 and 17, 2019), and Facebook (July 7, 2019). In addition, external agencies (including utility providers, special districts and adjoining jurisdictions) were directed to the Second Draft Plan via an email invitation. The Second Draft Plan was announced and posted on the City's website from July 3-15, 2019 along with a request to forward any comments to the Chair of the Planning Team Jason Golding. A hard copy of the Second Draft Plan was available to the public at City Hall. See website screenshots below.

Hazard Mitigation Legislation

Hazard Mitigation Grant Program

In 1974, Congress enacted the Robert T. Stafford Disaster Relief and Emergency Act, commonly referred to as the Stafford Act. In 1988, Congress established the Hazard Mitigation Grant Program (HMGP) via Section 404 of the Stafford Act. Regulations regarding HMGP implementation based on the DMA 2000 were initially changed by an Interim Final Rule (44 CFR Part 206, Subpart N) published in the Federal Register on February 26, 2002. A second Interim Final Rule was issued on October 1, 2002.

The HMGP helps states and local governments implement long-term hazard mitigation measures for natural hazards by providing federal funding following a federal disaster declaration. Eligible applicants include state and local agencies, Indian tribes or other tribal organizations, and certain nonprofit organizations.

In California, the HMGP is administered by Cal OES. Examples of typical HMGP projects include:

- ✓ Property acquisition and relocation projects
- ✓ Structural retrofitting to minimize damages from earthquake, flood, high wind, wildfire, or other natural hazards
- ✓ Elevation of flood-prone structures
- ✓ Vegetative management programs, such as:
  - Brush control and maintenance
  - Fuel break lines in shrubbery
  - Fire-resistant vegetation in potential wildland fire areas

"Floods and hurricanes happen. The hazard itself is not the disaster – it's our habits, it's how we build and live in those areas…that's the disaster."

Craig Fugate, Former FEMA Administrator

Pre-Disaster Mitigation Program

The Pre-Disaster Mitigation Program (PDM) was authorized by §203 of the Stafford Act, 42 United States Code, as amended by §102 of the DMA 2000. Funding is provided through the National Pre-Disaster Mitigation Fund to help state and local governments (including tribal governments) implement cost-effective hazard mitigation activities that complement a comprehensive mitigation program.

In Fiscal Year 2009, two types of grants (planning and competitive) were offered under the PDM Program. Planning grants allocate funds to each state for Mitigation Plan development. Competitive grants distribute funds to states, local governments, and federally recognized Indian tribal governments via a competitive application process. FEMA reviews and ranks the submittals based on pre-determined criteria. The minimum eligibility requirements for competitive grants include participation in good standing in the National Flood Insurance Program (NFIP) and a FEMA-approved Mitigation Plan. (Source: http://www.fema.gov/fima/pdm.shtm)

Flood Mitigation Assistance Program

The Flood Mitigation Assistance (FMA) Program was created as part of the National Flood Insurance Reform Act (NFIRA) of 1994 (42 U.S.C. 4101). Financial support is provided through the National Flood Insurance Fund to help states and communities implement measures to reduce or eliminate the long-term risk of flood damage to buildings, manufactured homes, and other structures insurable under the NFIP.

Three types of grants are available under FMA: planning, project, and technical assistance. Planning grants are available to states and communities to prepare Flood Mitigation Plans. NFIP-participating communities with approved Flood Mitigation Plans can apply for project grants to implement measures to reduce flood losses. Technical assistance grants in the amount of 10 percent of the project grant are available to the state for program administration. Communities that receive planning and/or project grants must participate in the NFIP. Examples of eligible projects include elevation, acquisition, and relocation of NFIP-insured structures. (Source: http://www.fema.gov/fima/fma.shtm)

Q&A | ELEMENT C. MITIGATION STRATEGY | C2

Q: Does the Plan address each jurisdiction's participation in the NFIP and continued compliance with NFIP requirements, as appropriate? (Requirement §201.6(c)(3)(ii))

A: See **NFIP Participation** below.

National Flood Insurance Program

Established in 1968, the NFIP provides federally-backed flood insurance to homeowners, renters, and businesses in communities that adopt and enforce floodplain management ordinances to reduce future flood damage. The City of Duarte adopted a floodplain management ordinance and has Flood Insurance Rate Maps (FIRM) that show floodways, 100-year flood zones, and 500-year flood zones. The Public Works Manager (Community Development) is designated as the floodplain administrator.

The City will maintain its participation with NFIP by continuing to enforce the Zoning Ordinance. Enforcement takes place when a prospective developer submits a permit request or building plans and the Community Department staff member looks up the zoning on the property. If the property is located in or near a designated floodplain, the applicant is provided with an NFIP brochure.

NFIP Participation

The City of Duarte participates in NFIP and the FEMA FIRM maps for the City of Duarte were last updated September 26, 2008. These studies and maps represent flood risk at the point in time when FEMA completed the studies and does not incorporate planning for floodplain changes in the future due to new development. Although FEMA is considering changing that policy, it is optional for local communities. According to FEMA, the City of Duarte is designated a No Special Flood Hazard Area (NSFHA). A Non-Special Flood Hazard Area (NSFHA) is an area that is in a moderate- to low-risk flood zone (Zones B, C, X Pre- and Post-FIRM). The City of Duarte is located within flood Zones X and D.

The NSFHA is not in any immediate danger from flooding caused by overflowing rivers or hard rains. However, it's important to note that structures within a NSFHA are still at risk. In fact, over 20% of all flood insurance claims come from areas outside of mapped high-risk flood zones.

Q&A | ELEMENT B: HAZARD IDENTIFICATION AND RISK ASSESSMENT | B4

Q: Does the Plan address NFIP insured structures within the jurisdiction that have been repetitively damaged by floods? (Requirement §201.6(c)(2)(ii))

A: See **Repetitive Loss Properties** below.

Repetitive Loss Properties

Repetitive Loss Properties (RLPs) are most susceptible to flood damages; therefore, they have been the focus of flood hazard mitigation programs. Unlike a Countywide program, the Floodplain Management Plan (FMP) for repetitive loss properties involves highly diversified property profiles, drainage issues, and property owner's interest. It also requires public involvement processes unique to each RLP area. The objective of an FMP is to provide specific potential mitigation measures and activities to best address the problems and needs of communities with repetitive loss properties. A repetitive loss property is one for which two or more claims of $1,000 or more have been paid by the National Flood Insurance Program (NFIP) within any given ten-year period. According to FEMA resources, there are no Repetitive Loss Properties (RLPs) within the City of Duarte.

State and Federal Guidance in Hazard Mitigation

While local jurisdictions have primary responsibility for developing and implementing hazard mitigation strategies, they are not alone. Various state and federal partners and resources can help local agencies with mitigation planning.

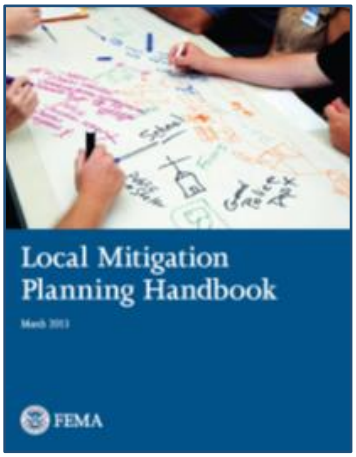
The Mitigation Plan was prepared in accordance with the following regulations and guidance documents:

- ✓ DMA 2000 (Public Law 106-390, October 10, 2000)
- ✓ 44 CFR Parts 201 and 206, Mitigation Planning and Hazard Mitigation Grant Program, Interim Final Rule, October 1, 2002
- ✓ 44 CFR Parts 201 and 206, Mitigation Planning and Hazard Mitigation Grant Program, Interim Final Rule, February 26, 2002
- ✓ How-To Guide for Using HAZUS-MH for Risk Assessment, (FEMA 433), February 2004
- ✓ Mitigation Planning "How-to" Series (FEMA 386-1 through 9 available at: http://www.fema.gov/fima/planhowto.shtm)
- ✓ Getting Started: Building Support for Mitigation Planning (FEMA 386-1)
- ✓ Understanding Your Risks: Identifying Hazards and Estimating Losses (FEMA 386-2)
- ✓ Developing the Mitigation Plan: Identifying Mitigation Actions and Implementing Strategies (FEMA 386-3)
- ✓ Bringing the Plan to Life: Implementing the Mitigation Plan (FEMA 386-4)
- ✓ Using Benefit-Cost Review in Mitigation Planning (FEMA 386-5)

- ✓ Integrating Historic Property and Cultural Resource Considerations into Mitigation Planning (FEMA 386-6)
- ✓ Integrating Manmade Hazards into Mitigation Planning (FEMA 386-7)
- ✓ Multi-Jurisdictional Mitigation Planning (FEMA 386-8)
- ✓ Using the Mitigation Plan to Prepare Successful Mitigation Projects (FEMA 386-9)
- ✓ State and Local Plan Interim Criteria Under the DMA 2000, July 11, 2002, FEMA
- ✓ Mitigation Planning Workshop for Local Governments-Instructor Guide, July 2002, FEMA
- ✓ Report on Costs and Benefits of Natural Hazard Mitigation, Document #294, FEMA
- ✓ LHMP Development Guide – Appendix A - Resource, Document, and Tool List for Local Mitigation Planning, December 2, 2003, Cal OES
- ✓ Local Mitigation Plan Review Guide (FEMA 2011)
- ✓ Local Mitigation Planning Handbook (FEMA 2013)

How is the Plan Organized?

The structure of the plan enables the reader to use a section of interest to them and allows the City to review and update sections when new data is available. The ease of incorporating new data into the plan will result in a Mitigation Plan that remains current and relevant.



Following is a description of each section of the plan:

Part I: Planning Process

Introduction

Describes the background and purpose of developing a mitigation plan.

Planning Process

Describes the mitigation planning process including stakeholders and integration of existing data and plans.

Part II: Risk Assessment

Community Profile

Summarizes the history, geography, demographics, and socioeconomics of the City.

Risk Assessment

This section provides information on hazard identification, vulnerability and risk associated with hazards in the City.

City-Specific Hazard Analysis

Describes the hazards posing a significant threat to the City including:

Earthquake | Wildfire | Landslide | Flooding | Dam Failure | Windstorm | Hazardous Materials

Each City-Specific Hazard Analysis includes information on previous occurrences, local conditions, hazard assessment, and local impacts.

Part III: Mitigation Strategies

Mitigation Strategies

Documents the goals, community capabilities, and priority setting methods supporting the Plan. Also highlights the Mitigation Actions Matrix: 1) goals met; 2) identification, assignment, timing, and funding of mitigation activities; 3) benefit/cost/priorities; 4) plan implementation method; and 5) activity status.

Plan Maintenance

Establishes tools and guidelines for maintaining and implementing the Mitigation Plan.

Part IV: Appendix

The plan appendices are designed to provide users of the Mitigation Plan with additional information to assist them in understanding the contents of the mitigation plan, and potential resources to assist them with implementation.

General Hazard Overviews

Generalized subject matter information discussing the science and background associated with the identified hazards.

Attachments

FEMA Letter of Approval
City Council Staff Report
City Council Resolution
Planning Team sign-in sheets
Web postings and notices

Plan Adoption and Approval

As per DMA 2000 and supporting Federal regulations, the Mitigation Plan is required to be adopted by the City Council and approved by FEMA. See the **Planning Process Section** for details.

Who Does the Mitigation Plan Affect?

This plan provides a framework for planning for natural hazards. The resources and background information in the plan are applicable City-wide and to City-owned facilities outside of the City boundaries, and the goals and recommendations provide groundwork for local mitigation plans and partnerships.

Planning Process

Throughout the project, the City followed its traditional approach to developing policy documents which included preparation of a First Draft Plan for internal review by the City's authors (Hazard Mitigation Planning Team) who served as the primary stakeholders. Next, following any necessary revisions, a Second Draft Plan was shared with the secondary stakeholders - general public and external agencies (utilities, special districts, adjoining jurisdictions) during the plan writing phase. The comments gathered from the secondary stakeholders were incorporated into a Third Draft Plan which was submitted to Cal OES and FEMA. Next, the Planning Team completed any mandated amendments to satisfy input from Cal OES and FEMA.

Following receipt of FEMA's "Approval Pending Adoption", the Final Draft Plan was posted as per jurisdictional practices in advance of the City Council meeting. Any questions or comments gathered in advance of the City Council meeting were incorporated into the City Council Staff Report. Following consideration and adoption by the City Council, proof of the Plan's adoption was forwarded to FEMA along with a request for final approval. The planning process described above is portrayed below in a timeline:

Q&A | ELEMENT A: PLANNING PROCESS | A1a.

Q: Does the plan document the planning process, including how it was prepared (with a narrative description, meeting minutes, sign-in sheets, or another method)?

A: See **Planning Phases Timeline** and **Plan Methodology** below.

Q&A | ELEMENT A: PLANNING PROCESS | A3

Q: Does the Plan document how the public was involved in the planning process during the drafting stage? (Requirement §201.6(b)(1))

A: See **Planning Phases Timeline** below.

Table: Planning Phases Timeline

PLANNING PHASES TIMELINE				
Plan Writing Phase (First & Second Draft Plan)	**Plan Review Phase (Third Draft Plan)**	**Plan Adoption Phase (Final Draft Plan)**	**Plan Approval Phase (Final Plan)**	**Plan Implementation Phase**
• Planning Team input – research, meetings, writing, review of First Draft Plan • Incorporate input from the Planning Team into Second Draft Plan • Invite general public and external agencies to comment and contribute to the Second Draft Plan • Incorporate and document gathered input into the Third Draft Plan	• Third Draft Plan sent to Cal OES and FEMA for "Approval Pending Adoption" • Address any mandated revisions identified by Cal OES and FEMA into Final Draft Plan	• Post Final Draft Plan along with public notice of City Council meeting • Present Final Draft Plan to the City Council • City Council Adopted Plan • Submit Proof of Adoption to FEMA with request for final approval	• Receive FEMA final approval • Incorporate FEMA approval into the Final Plan	• Conduct annual Planning Team meetings • Integrate mitigation action items into budget, CIP and other funding and strategic documents

Plan Methodology

The Planning Team discussed knowledge of natural hazards and past historical events, as well as planning and zoning codes, ordinances, and recent planning decisions.

The rest of this section describes the mitigation planning process including 1) Planning Team involvement, 2) public and external agency involvement; and 3) integration of existing data and plans.

Q&A | ELEMENT A: PLANNING PROCESS | A1a.

Q: Does the plan document the planning process, including how it was prepared (with a narrative description, meeting minutes, sign-in sheets, or another method)? (Requirement §201.6(c)(1))

A: See **Table: Planning Team Involvement** and **Level of Participation** below.

Planning Team Involvement

The Planning Team consisted of representatives from City of Duarte departments related to hazard mitigation processes. The Chair of the Planning Team (Planning Division Manager) sent an email to the department heads requesting names of representatives to serve on the Planning Team. The Planning Team members served as primary stakeholders throughout the planning process. Next, the Chair of the Planning Team sent an email to the identified representatives describing the nature of the Mitigation Plan, the need for their participation and attendance at four Planning Team Meetings and contribute to the First Draft Plan.

Citizens and businesses ("general public") along with external agencies served as secondary stakeholders in the planning process. The Planning Team was responsible for the following tasks:

- ✓ Confirming planning goals
- ✓ Prepare timeline for plan update
- ✓ Ensure plan meets DMA 2000 requirements
- ✓ Organize and solicit involvement of public and external agencies
- ✓ Analyze existing data and reports
- ✓ Update hazard information
- ✓ Review HAZUS loss projection estimates
- ✓ Update status of Mitigation Action Items
- ✓ Develop new Mitigation Action Items
- ✓ Participate in Planning Team meetings and City Council public meeting
- ✓ Provide existing resources including maps and data

The Planning Team, with assistance from Emergency Planning Consultants, identified and profiled hazards; determined hazard rankings; estimated potential exposure or losses; evaluated development trends and specific risks; and developed mitigation goals and action items (see Mitigation Strategies section).

Table: Planning Team Meeting Dates and Content

Item	Meeting #1 12/19/18	Meeting #2 1/9/18	Meeting #3 2/26/19	Meeting #4 3/14/19
Hazard Identification and Ranking	X			
Update and Develop New Mitigation Action Items		X	X	
Review First Draft Plan				X

Table: Planning Team Level of Participation

Name	Research and Writing of Plan	Planning Team Meeting 12/19/18	Planning Team Meeting 1/9/19	Planning Team Meeting 2/26/19	Planning Team Meeting 3/14/19	Planning Team Comment on First Draft Plan	Input from general public and external agencies of the Second Draft Plan	Submit Third Draft Plan to Cal OES/FEMA for Approval Pending Adoption	Post Final Draft Plan in advance of City Council Public Meeting	Present Final Draft Plan to City Council at Public Meeting for Plan Adoption	Submit Proof of Adoption and Request for FEMA for Final Approval	Receive FEMA Final Approval. Issue Final Plan
City of Duarte												
Jason Golding		X	X	X	X	X	X	X				
Amanda Hamilton		X	X	X	X	X						
Gerard Batista		X	X	X	X	X						
Nick Baldwin		X	X	X	X	X						
Brian Villalobos		X	X	X		X						
Larry Breceda		X		X	X	X						
Emergency Planning Consultants												
Carolyn Harshman	X	X	X	X	X		X	X				
Alex Fritzler	X											
Zoe Schumacher	X											

Table: Planning Team Timeline

	December 2018	January 2019	February	March	April	May	June	July	August	September	October	November	December	January 2020	February	March	April	May
Research and Writing of First Draft Plan	X	X	X	X														
Planning Team Meetings	X	X	X	X														
Planning Team Review and Comment on First Draft Plan				X														
Input from general public and external agencies of Second Draft Plan								X										
Third Draft Plan to Cal OES/FEMA for Approval Pending Adoption										X								
Incorporate mandated amendments into Final Draft Plan																	X	
Post Final Draft Plan in advance of City Council meeting.																	X	
Present Final Draft Plan to City Council at Public Meeting																		
Submit Proof of Adoption to FEMA with Request for Final Approval																		
Receive FEMA Final Approval																		
Incorporate FEMA Approval into Final Plan																		

Q&A | ELEMENT A: PLANNING PROCESS | A2a.

Q: Does the plan document an opportunity for neighboring communities, local, and regional agencies involved in hazard mitigation activities, agencies that have the authority to regulate development, as well as other interested parties to be involved in the planning process? (Requirement §201.6(b)(2))

A: See **Secondary Stakeholder Involvement** below.

Q&A | ELEMENT A: PLANNING PROCESS | A2b.

Q: Does the plan document an opportunity for neighboring communities, local, and regional agencies involved in hazard mitigation activities, agencies that have the authority to regulate development, as well as other interested parties to be involved in the planning process? (Requirement §201.6(b)(2))

A: See **Secondary Stakeholder Involvement** below.

Q&A | ELEMENT A: PLANNING PROCESS | A3

Q: Does the Plan document how the public was involved in the planning process during the drafting stage? (Requirement §201.6(b)(1))

A: See **General Public and External Agency Input and Table** below.

General Public and External Agency Input

In addition to the Planning Team, the secondary stakeholders also provided information, expertise, and other resources during plan writing phase. The secondary stakeholders included: general public and external agencies (e.g. utilities, special districts, adjoining jurisdictions, etc.).

Following review and input by the Planning Team of the First Draft Plan, a Second Draft Plan incorporating any revisions was made available to the secondary stakeholders as identified above. The gathered input from the secondary stakeholders was directed to the Chair of the Planning Team who reviewed the input and incorporated it as appropriate into the Third Draft Plan. Following is a specific accounting of comments received from the review of the Second Draft Plan by the secondary stakeholders:

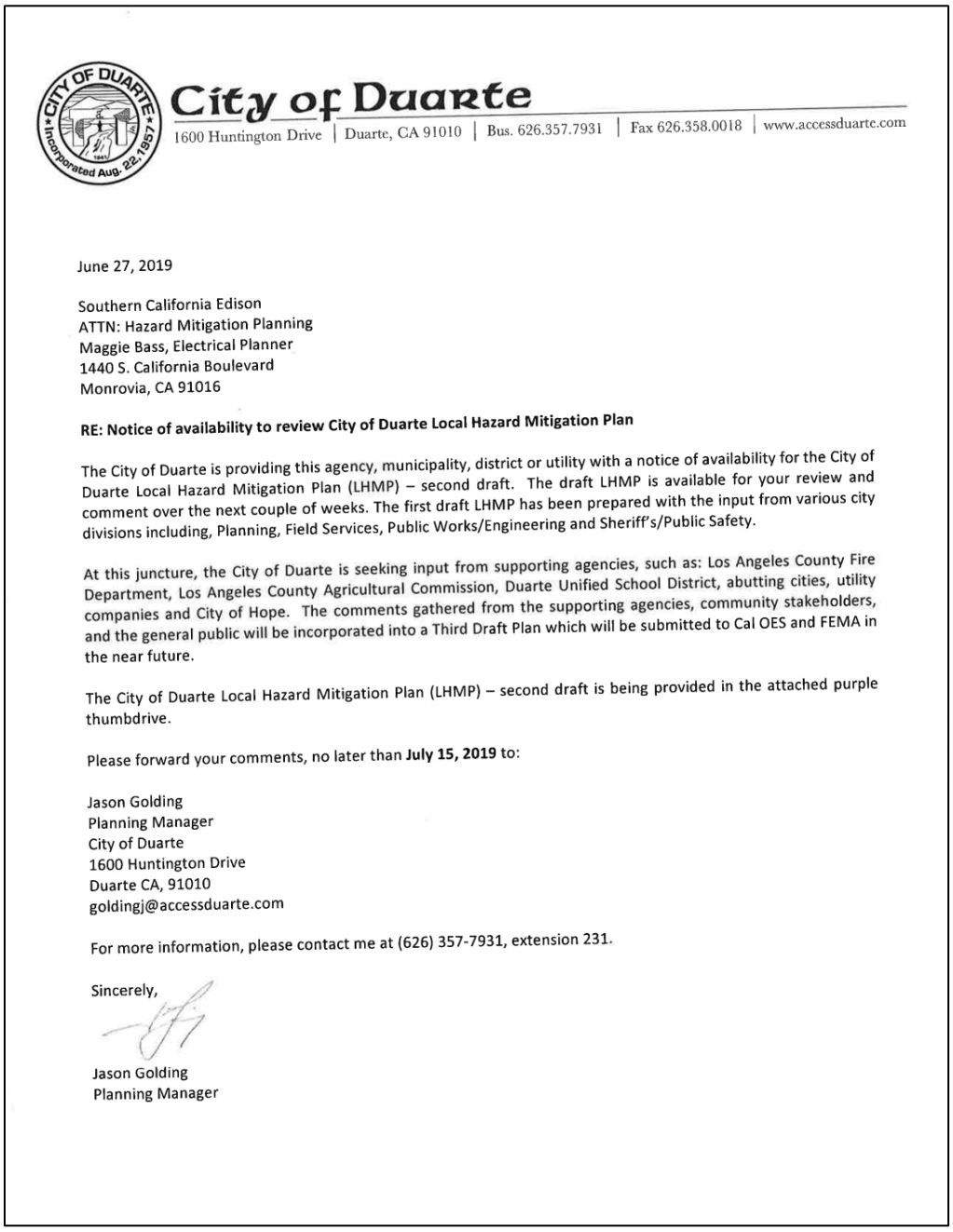
Table: General Public and External Agency Input

Date Informed	Agency, Name, Title	Date & Information Received	How Information was Addressed
GENERAL PUBLIC			
June 27, 2019	Extensive distribution of invitations to encourage public input (See Attachments)	N/A	No Comments Received
EXTERNAL AGENCIES			
June 27, 2019	California-American Water Company, Mark Reifer, PE, Operations Manager		No Comments Received

Date Informed	Agency, Name, Title	Date & Information Received	How Information was Addressed
June 27, 2019	Southern California Edison, Maggie Bass, Electrical Planner		No Comments Received
June 27, 2019	Southern California Gas Company, William Vanettes, Field Planning Associate		No Comments Received
June 27, 2019	Area D Office of Disaster Management, Diana Manzano-Garcia, Area D Coordinator		No Comments Received
June 27, 2019	City of Hope National Medical Center, Jon Reuter, Vice President - Supply Chain, Facilities, & Construction Management		No Comments Received
June 27, 2019	City of Azusa, Matt Marquez Director of Economic and Community Development		No Comments Received
June 27, 2019	City of Bradbury, Kevin Kearney, City Manager		No Comments Received
June 27, 2019	City of Irwindale, Marilyn Simpson, Community Development Manager		No Comments Received
June 27, 2019	City of Monrovia, Craig Jimenez, Community Development Director		No Comments Received
June 27, 2019	Duarte Unified School District, Jim Bauler, Assistant Superintendent, Business Services		No Comments Received
June 27, 2019	LA County Agricultural Commissioner/Weights & Measures, Richard Lizuka, Chief Contact		No Comments Received
June 27, 2019	LA County Fire Department – Forestry Division, J. Lopez, Assistant Chief	July 15, 2019 Language pertaining to LA County Fire Department has been deemed accurate and acceptable.	No Revisions Required
June 27, 2019	LA County Department of Public Works, Rossana D'antonio, Deputy Director Development Services and Emergency Management		No Comments Received
June 27, 2019	LA County Sheriff's Department – Temple Station, David Flores, Captain		No Comments Received

External agencies listed above were invited via email and provided with an electronic link to the City's website. Following is the email distributed along with the invitation to comments:

Figure: Emailed Letter to Secondary Stakeholders



City of Duarte
1600 Huntington Drive | Duarte, CA 91010 | Bus. 626.357.7931 | Fax 626.358.0018 | www.accessduarte.com

June 27, 2019

Southern California Edison
ATTN: Hazard Mitigation Planning
Maggie Bass, Electrical Planner
1440 S. California Boulevard
Monrovia, CA 91016

RE: Notice of availability to review City of Duarte Local Hazard Mitigation Plan

The City of Duarte is providing this agency, municipality, district or utility with a notice of availability for the City of Duarte Local Hazard Mitigation Plan (LHMP) – second draft. The draft LHMP is available for your review and comment over the next couple of weeks. The first draft LHMP has been prepared with the input from various city divisions including, Planning, Field Services, Public Works/Engineering and Sheriff's/Public Safety.

At this juncture, the City of Duarte is seeking input from supporting agencies, such as: Los Angeles County Fire Department, Los Angeles County Agricultural Commission, Duarte Unified School District, abutting cities, utility companies and City of Hope. The comments gathered from the supporting agencies, community stakeholders, and the general public will be incorporated into a Third Draft Plan which will be submitted to Cal OES and FEMA in the near future.

The City of Duarte Local Hazard Mitigation Plan (LHMP) – second draft is being provided in the attached purple thumbdrive.

Please forward your comments, no later than **July 15, 2019** to:

Jason Golding
Planning Manager
City of Duarte
1600 Huntington Drive
Duarte CA, 91010
goldingj@accessduarte.com

For more information, please contact me at (626) 357-7931, extension 231.

Sincerely,

Jason Golding
Planning Manager

Following receipt of FEMA's "Approval Pending Adoption" and in advance of the City Council public meeting, the general public (via public noticing) and external agencies (via email) were informed of the web posting of the Final Draft Plan and encouraged to attend the public meeting. Gathered comments on the Plan during the posting period were noted in the City Council Staff Report and added to the Final Plan.

Q&A | ELEMENT C. MITIGATION STRATEGY | C1a.

Q: Does the plan document each jurisdiction's existing authorities, policies, programs and resources? (Requirement §201.6(c)(3))

A: See **Capability Assessment – Existing Processes and Programs** below.

Capability Assessment – Existing Processes and Programs

The City will incorporate mitigation planning as an integral component of daily operations. This will be accomplished by the Planning Team working with their respective departments to integrate mitigation strategies into the planning documents and operational guidelines within the City. In addition to the Capability Assessment below, the Planning Team will strive to identify additional policies, programs, practices, and procedures that could be created or modified to address mitigation activities.

Table: Capability Assessment - Existing Processes and Programs

Resource Type	Resource Name	Ability to Support Mitigation
Personnel	Administrative Services Department	*The Administrative Services Department covers a broad range of areas of service within the City including Finance, Human Resources, Risk Management, Transit Services and Information Technology.*
Personnel	City Attorney's Office	*The Office of the City Attorney represents the City as a municipal corporation. The City Attorney is responsible for representational advice to the City Council, the Successor Agency to the Duarte Redevelopment Agency, Boards, Commission and all City officer and staff in all matters of law pertaining to the City.*
Personnel	City Manager's Office	*The City Manager is appointed by the City Council to serve as the City's chief executive officer. The City Manager recommends policy actions and implements City Council policy direction and decisions through various City Departments. The City Manager is also responsible for providing overall project supervision, promoting economic stability through business development and retention, and promoting organizational stability through financial and human resources management.*
Personnel	City Clerk's Office	*City Clerk's Office is responsible for City Council Agendas, Meetings and Minutes, Bids and RFPs, Claims, Document Central Public Portal, Fair Political Practices Commission, Legislative Representatives, Municipal Code, Passport Services, Public Notices, and Public Records Requests.*
Personnel	Community Development Department	*Community Development includes the following functional areas: Planning, Building, Public Works, Economic Development, and Field Services*

Resource Type	Resource Name	Ability to Support Mitigation
		A wide range of mitigation actions can be managed by this department.
Personnel	Parks and Recreation Department	*The Parks and Recreation Department works with City staff in matters pertaining to parks, recreation areas, facilities, programs, and other associated activities, and cooperates with other governmental agencies and civic groups in the advancement of sound park and recreation planning and programming.*
Personnel	Public Safety Department	*Public Safety Department manages and provides an array of safety and security related services in the City of Duarte. The City's law enforcement services are contracted through the Los Angeles County Sheriff's Department. The City's fire protection services are provided by Los Angeles County Fire Department. Public Safety also partners with a number of community organizations to help residents address various issues. The Department also provides animal control and code enforcement services.*
Personnel	Hazard Mitigation Planning Team	*Hazard Mitigation Planning Team is made up of representatives from departments assigned responsibilities in the Hazard Mitigation Plan, including the 5-year plan updates as required by FEMA. The Planning Team is responsible for implementing, monitoring, and evaluating the plan during its annual meetings.*
Plans	Emergency Operations Plan	*Emergency Operations Plan is a reference and guidebook to operations during a major emergency impacting Duarte. The Plan includes a discussion on a wide range of hazards, organization and staffing of the Emergency Operations Center, and connectivity with field responders and external agencies. The Emergency Operations Plan is an excellent source of hazard information for the Hazard Mitigation Plan.*
Plans	Hazard Mitigation Plan	*The City's Hazard Mitigation Plan identifies the risks from hazards present in the community and includes strategies to reduce these risks. Updates to the Plan are coordinated with the hazard information and mitigation activities identified in the County of Los Angeles HMP as well as the HMP for the State of California in order to ensure a more consistent and unified approach to hazard mitigation.*
Plans	General Plan	*General Plan outlines long-term direction for development and policy in Duarte. There are opportunities to coordinate local hazard mitigation actions with policies governed by the General Plan. Also, the General Plan is an excellent resource to*

Resource Type	Resource Name	Ability to Support Mitigation
		assist with implementing many of the mitigation action items identified in the Hazard Mitigation Plan.
Plans	Capital Improvement Program	*The City is now in the process of preparing its first Capital Improvement Program which will direct construction activities for City-owned facilities and infrastructure for the next future years. Mitigation actions may involve construction of new or upgraded facilities and infrastructure.*
Plans	Storm Water Management Plan	*Storm Water Management Plan provides long-range planning of water supplies and water use to ensure a stable water supply and compliance with water conservation efforts. Mitigation actions that involve reducing water use may be incorporated into the next update to the Storm Water Management Plan.*
Policy	Zoning Ordinance	*Zoning Ordinance implements the City's General Plan by establishing specific regulations for development. It includes standards for where development can be located, how buildings must be sized, shaped, and positioned, and what types of activities can occur in an area. Hazard mitigation actions that pertain to new or substantially redeveloped buildings can be adopted into the Zoning Ordinance.*
Policy	Building Code	*Building Code specifies how new structures can be built. It includes the California Building Code, in addition to any amendments made by the City. Mitigation actions may involve amending the Building Code to improve a building's safety or structural stability.*

Q&A | ELEMENT A: PLANNING PROCESS | A4

Q: Does the Plan describe the review and incorporation of existing plans, studies, reports, and technical information? (Requirement §201.6(b)(3))

A: See **Use of Existing Data** below.

Use of Existing Data

The Planning Team gathered and reviewed existing data and plans during plan writing and specifically noted as "sources". Numerous electronic and hard copy documents were used to support the planning process:

City of Duarte General Plan and Elements
www.accessduarte.com
Applicable Incorporation: Land Use map, Community Profile section – geography, environmental, population, housing, transportation and demographic data, Safety Element – hazard information and maps.

County of Los Angeles All-Hazards Mitigation Plan (2014)
www.lacoa.org
Applicable Incorporation: Information about hazards in the County contributed to the hazard-specific sections in the City's Mitigation Plan.

California State Hazard Mitigation Plan (2018)
www.caloes.ca.gov
Applicable Incorporation: Used to identify hazards posing greatest hazard to State.

HAZUS Maps and Reports
Created by Emergency Planning Consultants
Applicable Incorporation: Numerous HAZUS results have been included for earthquake scenarios to determine specific risk to City of Duarte.

California Department of Finance
www.dof.ca.gov/
Applicable Incorporation: Community Profile section – demographic and population data

FEMA "How To" Mitigation Series (386-1 to 386-9)
www.fema.gov/media
Applicable Incorporation: Mitigation Measures Categories and 4-Step Planning Process are quoted in the Executive Summary.

National Flood Insurance Program
www.fema.gov/national-flood-insurance-program
Applicable Incorporation: Used to confirm there are no repetitive loss properties within the City

Local Flood Insurance Rate Maps
www.msc.fema.gov
Applicable Incorporation: Provided by FEMA and included in Flood Hazard section.

California Department of Forestry and Fire Protection (CAL FIRE)
www.fire.ca.gov
Applicable Incorporation: Wildland fire hazard mapping

California Department of Conservation
www.conservation.ca.gov/cgs
Applicable Incorporation: Seismic hazards mapping

U.S. Geological Survey (USGS)
www.usgs.gov
Applicable Incorporation: Earthquake records and statistics

Q&A | ELEMENT E: PLAN ADOPTION | E1

Q: Does the Plan include documentation that the plan has been formally adopted by the governing body of the jurisdiction requesting approval? (Requirement §201.6(c)(5))

A: See **Plan Adoption Process** below.

Plan Adoption Process

Adoption of the plan by the local governing body demonstrates the City's commitment to meeting mitigation goals and objectives. Governing body approval legitimizes the plan and authorizes responsible agencies to execute their responsibilities.

The City Council must adopt the Mitigation Plan before the Plan can be approved by FEMA.

In preparation for the public meeting with the City Council, the Planning Team prepared a Staff Report including an overview of the Planning Process, Risk Assessment, Mitigation Goals, and Mitigation Actions. The staff presentation concluded with a summary of the input received during the public review of the document in advance of the City Council meeting. The meeting participants were encouraged to present their views and make suggestions on possible mitigation actions.

The City Council heard the item on _____. The City Council voted _____ to adopt the updated Mitigation Plan. The Resolution of adoption by the City Council is in the **Appendix**.

Plan Approval

FEMA issued an Approval Pending Adoption notice on March 18, 2020. Upon adoption by the City Council, the resolution was forwarded to FEMA. The FEMA Letter of Approval was issued on _____. A copy of the FEMA Letter of Approval is in the **Appendix**.

Part II: RISK ASSESSMENT

Community Profile

Geography and the Environment



The City of Duarte is a small community in eastern Los Angeles County encompassing 6.7 square miles with an estimated population of 21,855 residents as of 2019. The City is located at the foot of the San Gabriel Mountains approximately 20 miles northeast of the City of Los Angeles. It borders the cities of Monrovia to the west, Bradbury to the north, Azusa to the east, and Irwindale to the south. The San Gabriel River and Santa Fe Flood Control Basin abuts Duarte to the east and south. Major transportation corridors serve Duarte including Interstate 210 (I-210), Interstate 605 (I-605), and Huntington Drive (Route 66). The City is bisected by I-210, which runs east-west through the City and acts as a barrier that divides the City into a northern and southern area. **Map: Regional Location**, depicts Duarte's location to neighboring cities.

Climate

According to the National Weather Service, the City has a moderate climate, including dry summers with an average temperature of about 75°F and cool, wet winters with an average temperature of 56°F. The average annual rainfall for the region is between 9-14 inches.

Actual rainfall in the Southern California region tends to fall in large amounts during sporadic and often heavy storms rather than consistently over storms at somewhat regular intervals. In short, rainfall in Southern California might be characterized as feast or famine within a single year.

Population and Demographics

According to the City's website, the City was incorporated in 1957 with a population of 13,962. As of 2019, the population has grown to 21,855. From 2010 to 2019, the City experienced a growth rate of 2.5 percent, with a projected growth rate of 2.3 percent from 2019-2024.

According to the U.S. Census Bureau, the demographic makeup of the City is as follows:

Table: City of Duarte Demographics
(Source: U.S. Census Bureau, Est. 2019)

Racial/Ethnic Group	Population	Percentage (%)
White	10,577	48.4%
Black	1,496	6.8%
American Indian or Alaska Native	180	0.8%
Asian or Pacific Islander	4,192	19.1%
Other	4,345	19.8%
Multiracial	1,065	4.9%
Non-Hispanic	11,243	51.4%
Hispanic	10,612	48.6%

Housing and Community Development

Table: City of Duarte Housing
(Source: U.S. Census Bureau, 2017)

2015	Number	Percent %
Housing Type:		
1-unit, detached	4,379	61.0%
1-unit, attached	984	13.7%
2-4 Units	287	4.0%
5+ Units	1,376	19.2%
Mobile homes/Other	148	2.1%
Housing Statistics:		
Total Occupied Housing Units	6,980	96.7%
Owner-Occupied Housing	4,703	67.1%
Renter-Occupied	2,310	32.9%
Average Household Size:	3.1 persons	
Median Home Price:	$422,000	

Employment and Industry

According to the Census data, the predominant employment industries for Duarte residents are Educational, Health and Social Services (25.7%); Retail Trade (12.4%); and Professional, scientific, and management services (11.6%).

The City's top employers include City of Hope, Duarte School District, GE Aviation, and Wal-Mart.

Table: City of Duarte Industry
(Source: American Community Survey - 2017)

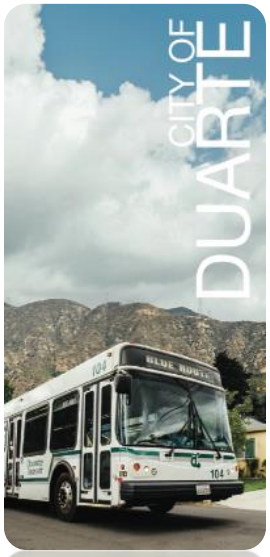
Industry	2017	
	Number	Percent %
Agriculture, forestry, fishing and hunting, and mining	56	0.5%
Construction	544	5.2%
Manufacturing	839	8.0%
Wholesale Trade	268	2.6%
Retail Trade	1,300	12.4%
Transportation and Warehousing, and Utilities	433	4.1%
Information	311	3.0%
Finance and insurance, and real estate and rental and leasing	748	7.1%
Professional, scientific, and management, and administrative and waste management services	1,215	11.6%
Educational services, and health care and social assistance	2,701	25.7%
Arts, entertainment, and recreation, and accommodation and food services	1,023	9.7%
Other services, except public administration	738	7.0%
Public administration	327	3.1%

Table: City of Duarte Occupation
(Source: American Community Survey - 2017)

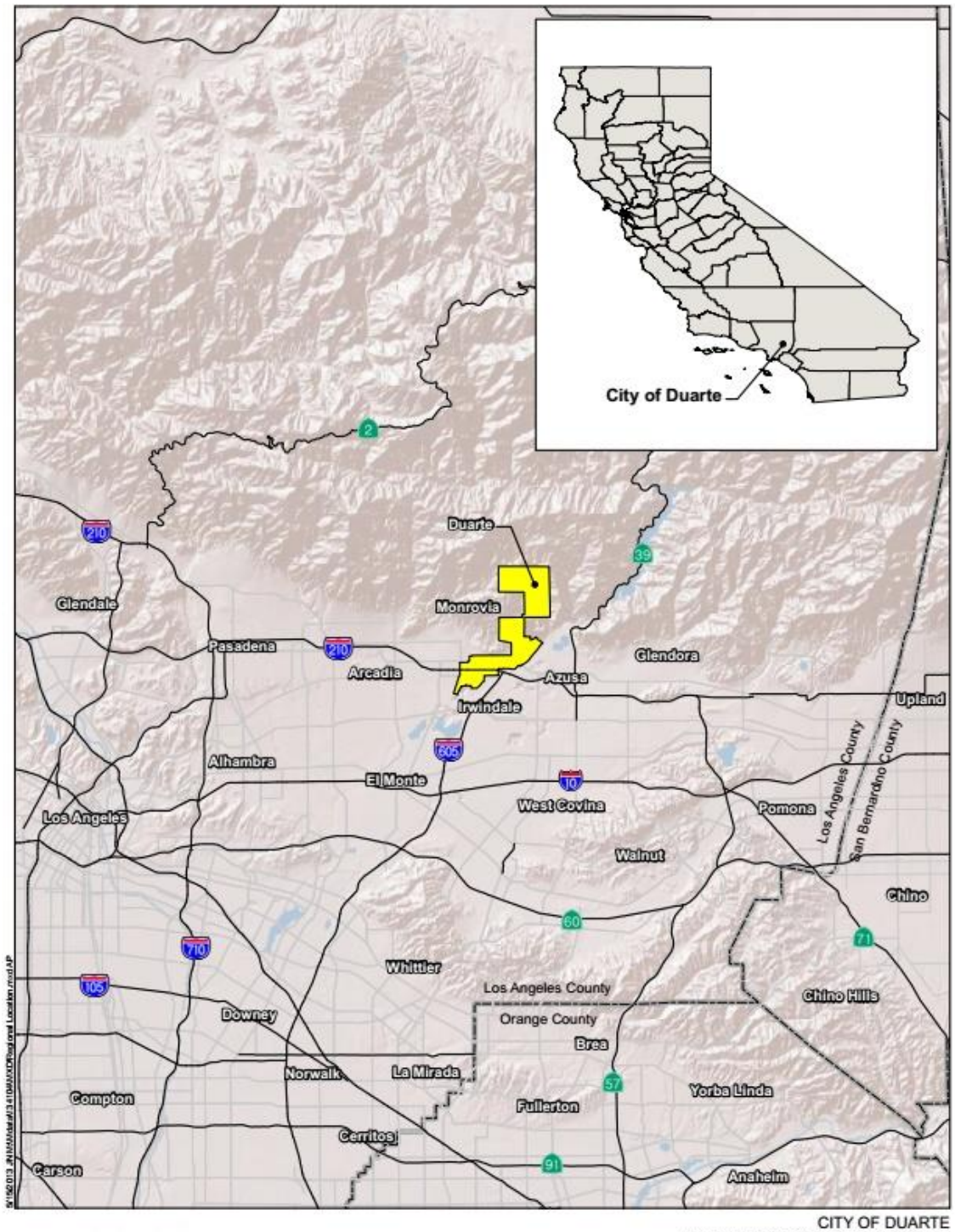
Occupation	2015	
	Number	Percent
Civilian employed population (16 years and over)	10,503	36.0%
Management, business, science, and arts occupations	3,781	19.9%
Service occupations	2,095	26.9%
Sales and office occupations	2,822	7.2%
Natural resources, construction, and maintenance occupations	761	9.9%
Production, transportation, and material moving	1,044	36.0%

Transportation and Commuting Patterns

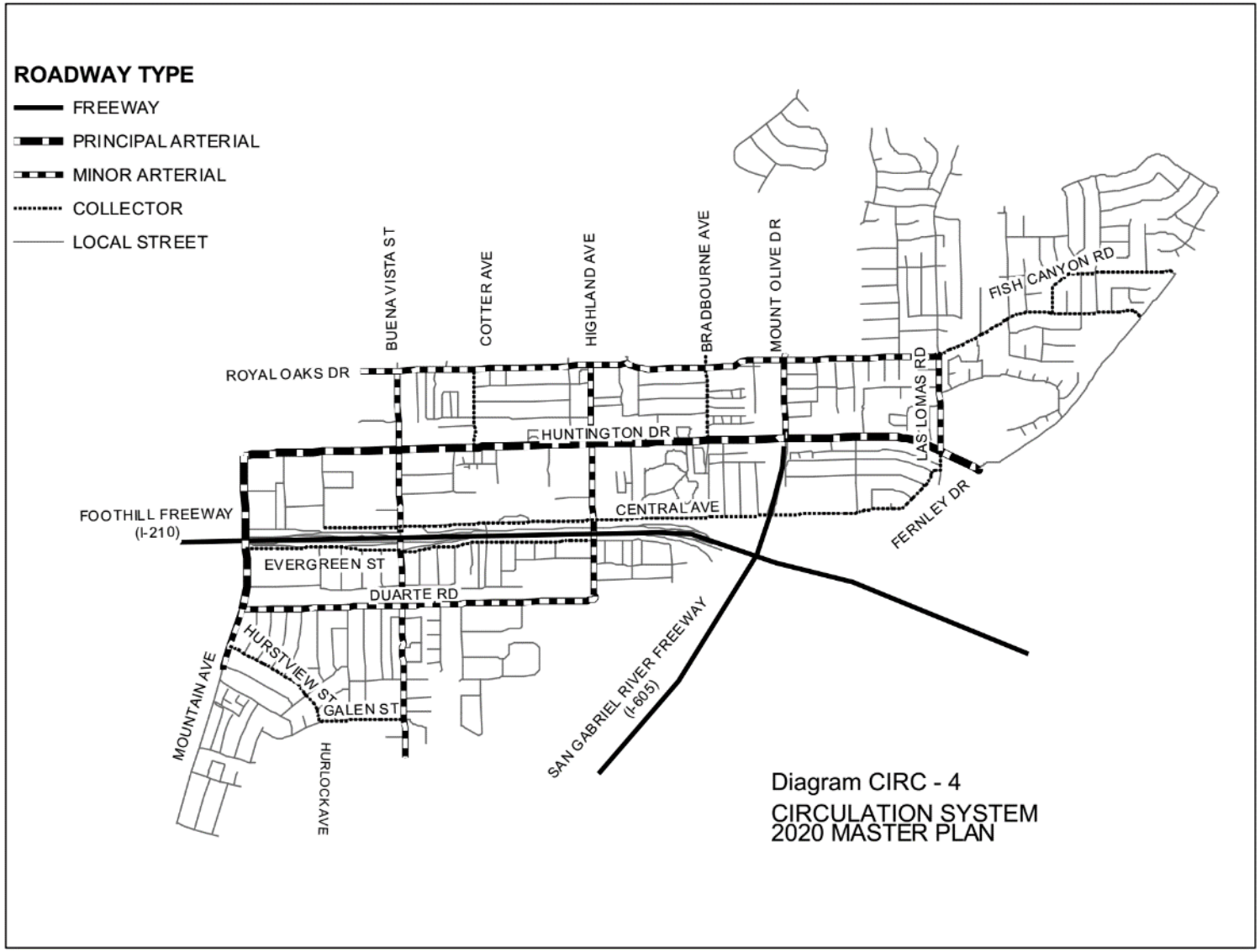
The City's Transportation Division is responsible for managing the Duarte Transit bus service and the City's fleet services. Duarte Transit has operated since 1984 and currently serves approximately 24,000 riders per month. The City in conjunction with Foothill Transit has introduced a fleet of new, 35- foot electric buses that operate on the existing Duarte Transit routes. The Green Route buses travel in a counterclockwise direction around the City and the Blue Route travels clockwise, each complete the route once every hour. Fleet Services maintains all of the City owned vehicles. The City currently owns approximately 40 vehicles, ranging from hybrid sedans to heavy duty aerial lift trucks. Fleet Services is also responsible for monitoring all employees driving qualifications and specialized license requirements.



Map: Regional Location
(Source: City of Duarte 2014 Hazard Mitigation Plan)



Map: Roadway Classifications
(Source: City of Duarte General Plan - 2007)



Risk Assessment

What is a Risk Assessment?

Conducting a risk assessment can provide information regarding: the location of hazards; the value of existing land and property in hazard locations; and an analysis of risk to life, property, and the environment that may result from natural hazard events. Specifically, the five levels of a risk assessment are as follows:

1. *Hazard Identification*
2. *Profiling Hazard Events*
3. *Vulnerability Assessment/Inventory of Existing Assets*
4. *Risk Analysis*
5. *Assessing Vulnerability/Analyzing Development Trends*

Q&A | ELEMENT B: HAZARD IDENTIFICATION AND RISK ASSESSMENT | B1a.

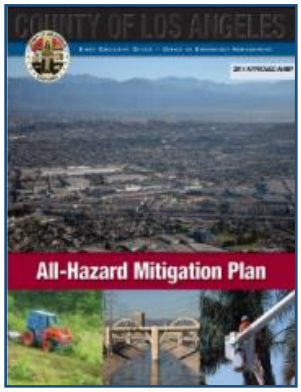
Q: Does the plan include a general **description** of all natural hazards that can affect each jurisdiction? (Requirement §201.6(c)(2)(i))

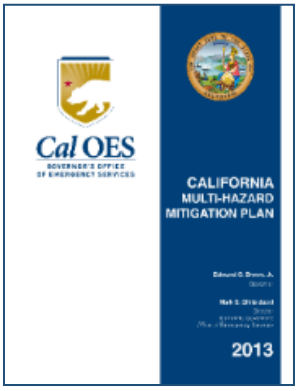
A: See **Hazard Identification** below.

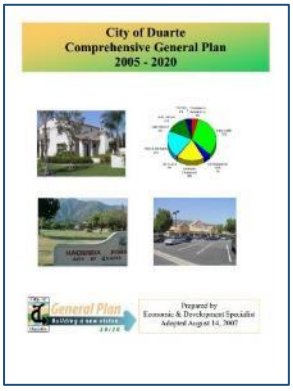
1) Hazard Identification

This section is the description of the geographic extent, potential intensity, and the probability of occurrence of a given hazard. Maps are used in this plan to display hazard identification data. ***The City of Duarte utilized the categorization of hazards as identified in California's State Hazard Mitigation Plan, including: Earthquakes, Floods, Levee Failures, Wildfires, Landslides and Earth Movements, Tsunami, Climate-related hazards, Volcanoes, and Other Hazards (including Drought)***.

Next, the Planning Team reviewed existing documents to determine which of these hazards posed the most significant threat to the City. In other words, which hazard would likely result in a local declaration of emergency.







The geographic extent of each of the identified hazards was identified by the Planning Team utilizing maps and data contained in the City's General. In addition, numerous internet resources and the County of Los Angeles All-Hazards Mitigation Plan served as valuable resources. Utilizing the Calculated Priority Risk Index (CPRI) ranking technique, the Planning Team concluded the following hazards posed a significant threat against the City:

Earthquake | Wildfire | Landslide | Flooding

Dam Failure | Windstorm | Hazardous Materials

The hazard ranking system is described in **Table: Calculated Priority Risk Index**, while the actual ranking is shown in **Table: Calculated Priority Risk Index Ranking for City of Duarte**.

Table: Calculated Priority Risk Index
(Source: Federal Emergency Management Agency)

CPRI Category	Degree of Risk			Assigned Weighting Factor
	Level ID	Description	Index Value	
Probability	Unlikely	Extremely rare with no documented history of occurrences or events. Annual probability of less than 1 in 1,000 years.	1	45%
	Possibly	Rare occurrences. Annual probability of between 1 in 100 years and 1 in 1,000 years.	2	
	Likely	Occasional occurrences with at least 2 or more documented historic events. Annual probability of between 1 in 10 years and 1 in 100 years.	3	
	Highly Likely	Frequent events with a well-documented history of occurrence. Annual probability of greater than 1 every year.	4	
Magnitude/ Severity	Negligible	Negligible property damages (less than 5% of critical and non-critical facilities and infrastructure. Injuries or illnesses are treatable with first aid and there are no deaths. Negligible loss of quality of life. Shut down of critical public facilities for less than 24 hours.	1	30%
	Limited	Slight property damage (greater than 5% and less than 25% of critical and non-critical facilities and infrastructure). Injuries or illnesses do not result in permanent disability, and there are no deaths. Moderate loss of quality of life. Shut down of critical public facilities for more than 1 day and less than 1 week.	2	
	Critical	Moderate property damage (greater than 25% and less than 50% of critical and non-critical facilities and infrastructure). Injuries or illnesses result in permanent disability and at least 1 death. Shut down of critical public facilities for more than 1 week and less than 1 month.	3	
	Catastrophic	Severe property damage (greater than 50% of critical and non-critical facilities and infrastructure). Injuries and illnesses result in permanent disability and multiple deaths. Shut down of critical public facilities for more than 1 month.	4	
Warning Time	> 24 hours	Population will receive greater than 24 hours of warning.	1	15%
	12–24 hours	Population will receive between 12-24 hours of warning.	2	
	6-12 hours	Population will receive between 6-12 hours of warning.	3	
	< 6 hours	Population will receive less than 6 hours of warning.	4	
Duration	< 6 hours	Disaster event will last less than 6 hours	1	10%
	< 24 hours	Disaster event will last less than 6-24 hours	2	
	< 1 week	Disaster event will last between 24 hours and 1 week.	3	
	> 1 week	Disaster event will last more than 1 week	4	

Table: Calculated Priority Risk Index Ranking for City of Duarte

Hazard	Probability	Weighted 45% (x.45)	Magnitude Severity	Weighted 30% (x.3)	Warning Time	Weighted 15% (x.15)	Duration	Weighted 10% (x.1)	CPRI Total
Earthquake – San Andreas M7.8	3	1.35	3	0.90	4	0.60	1	0.10	**2.95**
Earthquake – Sierra Madre M7.2	2	0.90	4	1.20	4	0.60	1	0.10	**2.80**
Earthquake – Puente Hills M7.0	2	0.90	2	0.60	4	0.60	1	0.10	**2.20**
Wildfire	3	1.35	3	0.90	4	0.60	3	0.30	**3.15**
Landslide	3	1.35	2	0.60	4	0.60	1	0.10	**2.65**
Flood	2	0.90	2	0.60	2	0.30	1	0.10	**1.90**
Dam Failure	2	0.90	3	0.90	4	0.60	2	0.20	**2.60**
Windstorm	3	1.35	2	0.60	1	0.15	2	0.20	**2.30**
Hazardous Materials	2	0.90	2	0.60	4	0.60	1	0.10	**2.20**

2) Profiling Hazard Events

This process describes the causes and characteristics of each hazard and what part of the City's facilities, infrastructure, and environment may be vulnerable to each specific hazard. A profile of each hazard discussed in this plan is provided in the City-Specific Hazard Analysis. **Table: Vulnerability: Location, Extent, and Probability for City of Duarte** indicates a generalized perspective of the community's vulnerability of the various hazards according to extent (or degree), location, and probability.

Q&A | ELEMENT B: HAZARD IDENTIFICATION AND RISK ASSESSMENT | B1b.

Q: Does the plan provide rationale for the omission of any natural hazards that are commonly recognized to affect the jurisdiction(s) in the planning area? (Requirement §201.6(c)(2)(i))

A: See **Table: Vulnerability: Location, Extent, and Probability for City of Duarte** below.

Q&A | ELEMENT B: HAZARD IDENTIFICATION AND RISK ASSESSMENT | B1c.

Q: Does the plan include a description of the **location** for all natural hazards that can affect each jurisdiction? (Requirement §201.6(c)(2)(i))

A: See **Table: Vulnerability: Location, Extent, and Probability for City of Duarte** below.

Q&A | ELEMENT B: HAZARD IDENTIFICATION AND RISK ASSESSMENT | B1d.

Q: Does the plan include a description of the **extent** for all natural hazards that can affect each jurisdiction? (Requirement §201.6(c)(2)(i))

A: See **Table: Vulnerability: Location, Extent, and Probability for City of Duarte** below.

Q&A | ELEMENT B: HAZARD IDENTIFICATION AND RISK ASSESSMENT | B2a.

Q: Does the plan include information on **previous occurrences** of hazard events for each jurisdiction? (Requirement §201.6(c)(2)(i))

A: See **Table: Vulnerability: Location, Extent, and Probability for City of Duarte** below.

Q&A | ELEMENT B: HAZARD IDENTIFICATION AND RISK ASSESSMENT | B2b.

Q: Does the plan include information on the **probability** of future hazard events for each jurisdiction? (Requirement §201.6(c)(2)(i))

A: See **Table: Vulnerability: Location, Extent, and Probability for City of Duarte** below.

Table: Vulnerability: Location, Extent, and Probability for City of Duarte

Hazard	Location (Where)	Extent (How Big an Event)	Probability (Frequency of an Event of Disaster Proportions) *	Most Recent Occurrence
Earthquake	Entire Project Area	The Southern California Earthquake Center (SCEC) in 2007 concluded that there is a 99.7% probability that an earthquake of M6.7 or greater will hit California within 30 years.[1]	Likely	Northridge Earthquake – January 1994
Wildfire	Northern foothills, Southern & Eastern City Boundaries	Severe fire hazard severity ratings indicate potential for major residential damages.	Likely	San Gabriel Complex Fire – June 2016
Landslide	North-eastern foothills	Major property damage and displacement of residents.	Likely	January 2017
Flood	Entire Project Area	Urban flooding to streets and underpasses from heavy rains.	Possibly	January 2017
Dam Failure	Southern, built-out areas of the City	Flood waters would reach the City within 20 minutes.	Unlikely	None
Windstorm	Entire Project Area	50 miles per hour or greater.	Likely	November 2011
Hazardous Materials	Entire Project Area – most vulnerable near critical facilities	Extent varies greatly depending on the scope, and magnitude of incident	Possibly	None

* Probability is defined as: Unlikely = 1:1,000 years, Possibly = 1:100-1:1,000 years, Likely = 1:10-1:100 years, Highly Likely = 1:1 year

[1] Uniform California Earthquake Rupture Forecast

3) Vulnerability Assessment/Inventory of Existing Assets

A Vulnerability Assessment in its simplest form is a simultaneous look at the geographical location of hazards and an inventory of the underlying land uses (populations, structures, etc.). Facilities that provide critical and essential services following a major emergency are of particular concern because these locations house staff and equipment necessary to provide important public safety, emergency response, and/or disaster recovery functions.

Q&A | ELEMENT B: HAZARD IDENTIFICATION AND RISK ASSESSMENT | B3b.

Q: Is there a description of each identified hazard's overall **vulnerability** (structures, systems, populations, or other community assets defined by the community that are identified as being susceptible to damage and loss from hazard events) for each jurisdiction? (Requirement §201.6(c)(2)(ii))

A: See **Critical Facilities** below.

Critical Facilities

FEMA separates critical buildings and facilities into the five categories shown below based on their loss potential. All of the following elements are considered critical facilities:

Essential Facilities are essential to the health and welfare of the whole population and are especially important following hazard events. Essential facilities include hospitals and other medical facilities, police and fire stations, emergency operations centers and evacuation shelters, and schools.

Transportation Systems include airways – airports, heliports; highways – bridges, tunnels, roadbeds, overpasses, transfer centers; railways – trackage, tunnels, bridges, rail yards, depots; and waterways – canals, locks, seaports, ferries, harbors, drydocks, piers.

Lifeline Utility Systems such as potable water, wastewater, oil, natural gas, electric power and communication systems.

High Potential Loss Facilities are facilities that would have a high loss associated with them, such as nuclear power plants, dams, and military installations.

Hazardous Material Facilities include facilities housing industrial/hazardous materials, such as corrosives, explosives, flammable materials, radioactive materials, and toxins.

Table: Impacts to Critical Facilities illustrates the hazards with potential to impact critical facilities owned by or providing services to the City of Duarte.

Table: Impacts to Critical and Essential Facilities

Y – Yes facility is within hazard zone **N** – No facility is not within hazard zone

Name of Facility	Earthquake	Wildfire	Landslide	Flooding	Dam Failure	Windstorm	Hazardous Materials
Andres Duarte Arts Academy	Y	N	N	N	Y	Y	Y
Beardslee Dual Language Academy	Y	N	N	N	Y	Y	N
California School of the Arts – San Gabriel Valley	Y	N	N	N	Y	Y	N
City of Hope (hospital)	Y	N	N	N	Y	Y	Y
Duarte City Hall	Y	N	N	N	Y	Y	Y
Duarte City Yard	Y	N	N	N	Y	Y	Y
Duarte Community Center/Duarte Fitness Center	Y	N	N	N	Y	Y	N
Duarte High School	Y	N	N	N	Y	Y	N
Duarte Teen Center	Y	N	N	N	Y	Y	N
Duarte Public Safety/ Sheriff's Substation	Y	N	N	N	Y	Y	Y
Duarte School District	Y	N	N	N	Y	Y	Y
Duarte Senior Center	Y	N	N	N	Y	Y	N
Encanto Park	Y	Y	N	N	Y	Y	N
Foothill Oaks Academy	Y	N	N	N	Y	Y	N
Highland Convalescent Hospital	Y	N	N	N	Y	Y	N
Huntington/Foothill Bridge	Y	N	N	N	Y	Y	N
Los Angeles County Fire Station #44	Y	N	N	N	Y	Y	N
Maryvale Family Services (Preschool)	Y	N	N	N	Y	Y	N
Monrovia Convalescent Hospital	Y	N	N	N	Y	Y	Y
Mt. Olive Innovation & Technology High School	Y	N	N	N	Y	Y	Y
North Facilities Maintenance Yard	Y	N	N	N	Y	Y	N
North View Intermediate School	Y	N	N	N	Y	Y	Y
Royal Oaks Park	Y	N	N	N	Y	Y	N
Royal Oaks STEAM Academy	Y	N	N	N	Y	Y	N

Name of Facility	Earthquake	Wildfire	Landslide	Flooding	Dam Failure	Windstorm	Hazardous Materials
Santa Teresita Campus & Hayden Child Care Center	Y	N	N	N	Y	Y	N
Smart & Final Extra	Y	N	N	N	Y	Y	Y
Target	Y	N	N	N	Y	Y	Y
Walmart	Y	N	N	N	Y	Y	Y
Valley View Academy of Technology & Creative Learning	Y	Y	N	N	Y	Y	N

4) Risk Analysis

Estimating potential losses involves assessing the damage, injuries, and financial costs likely to be sustained in a geographic area over a given period of time. This level of analysis involves using mathematical models. The two measurable components of risk analysis are magnitude of the harm that may result and the likelihood of the harm occurring. Describing vulnerability in terms of dollar losses provides the community and the state with a common framework in which to measure the effects of hazards on assets. For each hazard where data was available, quantitative estimates for potential losses have been included in the hazard assessment. Data was not available to make vulnerability determinations in terms of dollar losses for all of the identified hazards. The **Mitigation Actions Matrix** includes an action item to conduct such an assessment in the future.

5) Assessing Vulnerability/ Analyzing Development Trends

This step provides a general description of City facilities and contents in relation to the identified hazards so that mitigation options can be considered in land use planning and future land use decisions. This Mitigation Plan provides comprehensive description of the character of the City of Duarte in the **Community Profile Section**. This description includes the geography and environment, population and demographics, land use and development, housing and community development, employment and industry, and transportation and commuting patterns. Analyzing these components of the City of Duarte can help in identifying potential problem areas and can serve as a guide for incorporating the goals and ideas contained in this mitigation plan into other community development plans.

Hazard assessments are subject to the availability of hazard-specific data. Gathering data for a hazard assessment requires a commitment of resources on the part of participating organizations and agencies. Each hazard-specific section of the plan includes a section on hazard identification using data and information from City, County, state, or federal sources.

Regardless of the data available for hazard assessments, there are numerous strategies the City can take to reduce risk. These strategies are described in the action items detailed in the Mitigation Actions Matrix in the **Mitigation Strategies Section**. Mitigation strategies can further reduce disruption to critical services, reduce the risk to human life, and alleviate damage to personal and public property and infrastructure.

Land and Development

The City of Duarte General Plan provides the framework for the growth and development of the City. This Plan is one of the City's most important tools in addressing environmental challenges including transportation and air quality; growth management; conservation of natural resources; clean water and open spaces.

According to the City's General Plan (2007), the City is divided into three districts: the San Gabriel Mountain Range of the Angeles National Forest, the foothills and canyons of the San Gabriel Mountains, and the alluvial slopes of the mountains. The latter is the area where the City's urban development is concentrated. The largest land use within the City is wilderness area, totaling 2,331 acres (53 percent of the City's total land area), which includes 1,909 acres within the Angeles National Forest. As a national forest, this land is protected from urbanization and is designated Open Space.

Q&A | ELEMENT B: HAZARD IDENTIFICATION AND RISK ASSESSMENT | B3a.

Q: Is there a description of each hazard's **impacts** on each jurisdiction (what happens to structures, infrastructure, people, environment, etc.)? (Requirement §201.6(c)(2)(ii))

A: See **Impacts to Types of Land Uses** below.

Impacts to Types of Land Uses

City of Duarte's General Plan identifies primarily residential land uses with other land uses consisting of commercial, industrial, public facilities, research & development, and open space.

Table: Impacts to Existing and Future Land Uses in the City of Duarte (Source: EPC Analysis Based on City of Duarte General Plan - 2007)

Category of Land Use Designation	Acres (Area)	Earthquake	Wildfire	Landslide	Flooding	Dam Failure	Windstorm	Hazardous Materials
Residential	906	X	X	X	X	X	X	X
Commercial	99	X			X	X	X	X
Hospital	78	X	X		X	X	X	X
Industrial	68	X	X		X	X	X	X
Public Facilities	94	X	X	X	X	X	X	X
Open Space	2,943	X	X	X	X	X	X	X
Specific Plan	342	X	X		X	X	X	X

Q&A | ELEMENT D: MITIGATION STRATEGY | D1

Q: Was the plan revised to reflect changes in development? (Requirement §201.6(d)(3))

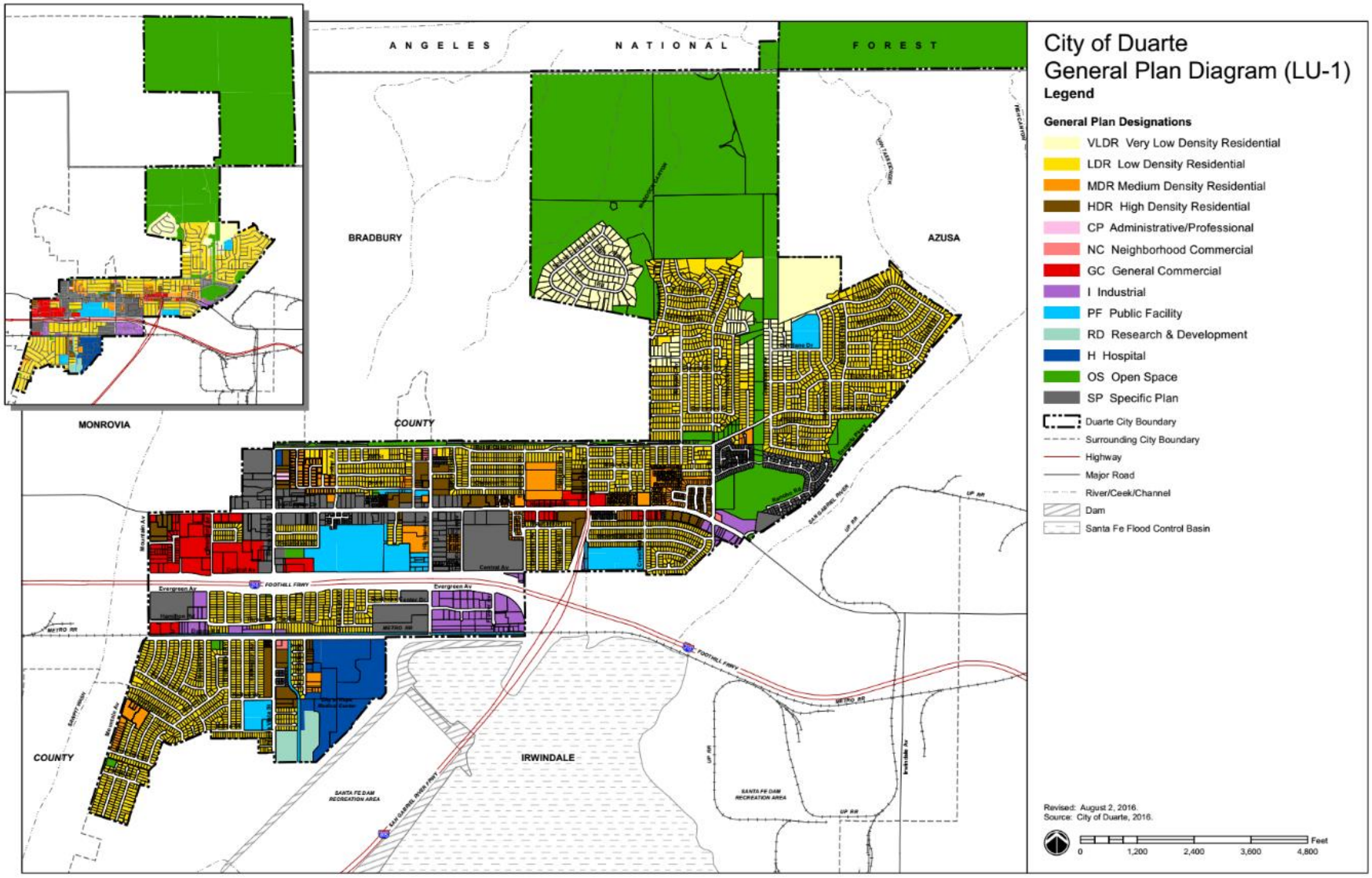
A: See **Changes in Development** below

Changes in Development

The City of Duarte was incorporated as a general law/charter city in 1957. Since its incorporation, Duarte has grown into a flourishing urban city. The City of Duarte has essentially been built out for many years, with very little vacant land remaining for new development. The majority of future development in the City is likely to consist of remodeling of existing structures or redevelopment of properties requiring demolition and replacement of existing buildings.

Since the adoption of the 2014 Plan, there have been no significant alterations to the development pattern of the City in the hazard prone areas. This conclusion was reached after a thorough review of the General Plan and discussion with the Planning Team. Furthermore, the Planning Team concluded the overall vulnerability to identified hazards remained approximately the same.

Map: Land Use Map
(Source: City of Duarte General Plan, 2007)



Earthquake Hazards

Previous Occurrences of Earthquakes in the City of Duarte

Q&A | ELEMENT B: HAZARD IDENTIFICATION AND RISK ASSESSMENT | B2a.

Q: Does the plan include information on **previous occurrences** of hazard events for each jurisdiction? (Requirement §201.6(c)(2)(i))

A: See **Previous Occurrences of Earthquakes in the City of Duarte** below.

The following earthquake events significantly impacted the region surrounding the City of Duarte.

In January 1994, the magnitude 6.7 Northridge Earthquake (thrust fault) which produced severe ground motion, caused 57 deaths, 9,253 injuries and left over 20,000 displaced. Scientists have stated that such devastating shaking should be considered the norm near any large thrust earthquake. Recent reports from scientists of the U.S. Geological Survey and the Southern California Earthquake Center say that the Los Angeles Area could expect one earthquake every year of magnitude 5.0 or more for the foreseeable future.

Since the writing of the 2014 Mitigation Plan, there have been no significant earthquake events in the City of Duarte.

Previous Occurrences of Earthquakes in Los Angeles County

Southern California has a history of powerful and relatively frequent earthquakes, dating back to the powerful magnitude 8.0+ 1857 San Andreas Earthquake which did substantial damage to the relatively few buildings that existed at the time.

Paleoseismological research indicates that large magnitude (8.0+) earthquakes occur on the San Andreas Fault at intervals between 45 and 332 years with an average interval of 140 years. Other lesser faults have also caused very damaging earthquakes since 1857. Notable earthquakes include the 1933 Long Beach Earthquake, the 1971 San Fernando Earthquake, the 1987 Whittier Earthquake and the 1994 Northridge Earthquake.



Q&A | ELEMENT B: HAZARD IDENTIFICATION AND RISK ASSESSMENT | B1a.

Q: Does the plan include a general **description** of all natural hazards that can affect each jurisdiction? (Requirement §201.6(c)(2)(i))

A: See **Local Conditions** below.

Q&A | ELEMENT B: HAZARD IDENTIFICATION AND RISK ASSESSMENT | B3b.

Q: Is there a description of each identified hazard's overall **vulnerability** (structures, systems, populations, or other community assets defined by the community that are identified as being susceptible to damage and loss from hazard events) for each jurisdiction? (Requirement §201.6(c)(2)(ii))

A: See **Local Conditions** below.

Local Conditions

The City lies within a metropolitan area that has historically been seismically active. Faults are prevalent throughout California and are commonly classified as either "active" or "potentially active." An active fault is a break that has moved in recent geologic time (the last 11,000 years) and that is likely to move within the next approximately 100 years. Active faults are the primary focus of concern in attempting to prevent earthquake hazards. A potentially active fault is one that has shifted but not in the recent geologic period (or, between 11,000 and 3,000,000 years ago) and is therefore considered dormant or unlikely to move in the future.

Several active faults have been identified within close proximity or within the City boundaries which, most importantly, indicates that the community falls under the State Earthquake Fault Zoning Act and the State Hazards Mapping Act. These Acts require that local governments, in the general plan update process, adopt policies and criteria to ensure the structural adequacy of buildings erected across active faults for human occupancy. In some cases, the development of structures must be prohibited.

Earthquakes that could affect the City would most likely originate from the San Andreas (M7.8), Sierra Madre (M7.2), or Puente Hills (M7.0) Faults. These faults are close enough in proximity or expected to generate strong enough shaking that could significantly impact the City. **Map: Local Faults** plots the various major faults located closest to the City of Duarte.

Active Fault Zones

San Andreas Fault Zone

The San Andreas Fault Zone is located approximately 23 miles northeast of the City of Duarte. This fault zone extends from the Gulf of California northward to the Cape Mendocino area where it continues northward along the ocean floor. The total length of the San Andreas Fault Zone is approximately 750 miles. The activity of the fault has been recorded during historic events, including the 1906 (M8.0) event in San Francisco and the 1857 (M7.9) event between Cholame and San Bernardino, where at least 250 miles of surface rupture occurred. These seismic events are among the most significant earthquakes in California history. Geologic evidence suggests that the San Andreas Fault has a 50 percent chance of producing a magnitude 7.5 to 8.5 quake (comparable to the great San Francisco earthquake of 1906) within the next 30 years.

Sierra Madre Fault Zone

The Sierra Madre Fault zone passes through the northern portions of Pasadena, Arcadia, Monrovia, Duarte, Azusa, and portions of San Dimas. Movement along these frontal faults has resulted in the uplift of the San Gabriel Mountains. According to the Southern California Earthquake Data Center, rupture on the Sierra Madre fault zone (theoretically) could be limited to one segment at a time, it has recently been suggested that a large event on the San Andreas fault to the north (like that of 1857) could cause simultaneous rupture on reverse faults south of the San Gabriel Mountains – the Sierra Madre fault zone being a prime example of such. Whether this could rupture multiple Sierra Madre fault zone segments simultaneously is unknown. Seismic activity on the Sierra Madre Fault is expected to have a maximum credible magnitude of 7.2.

Puente Hills Fault

The Puente Hills fault is located approximately 8 miles south of the City. According to USGS, the Puente Hills Fault was most recently responsible for the M5.1 La Habra earthquake on March 28, 2014 which caused an estimated $2.6 million in damage. Seismic activity on the Puente Hills Fault is expected to have a maximum credible magnitude of 7.0.

Potentially Active Fault Zones

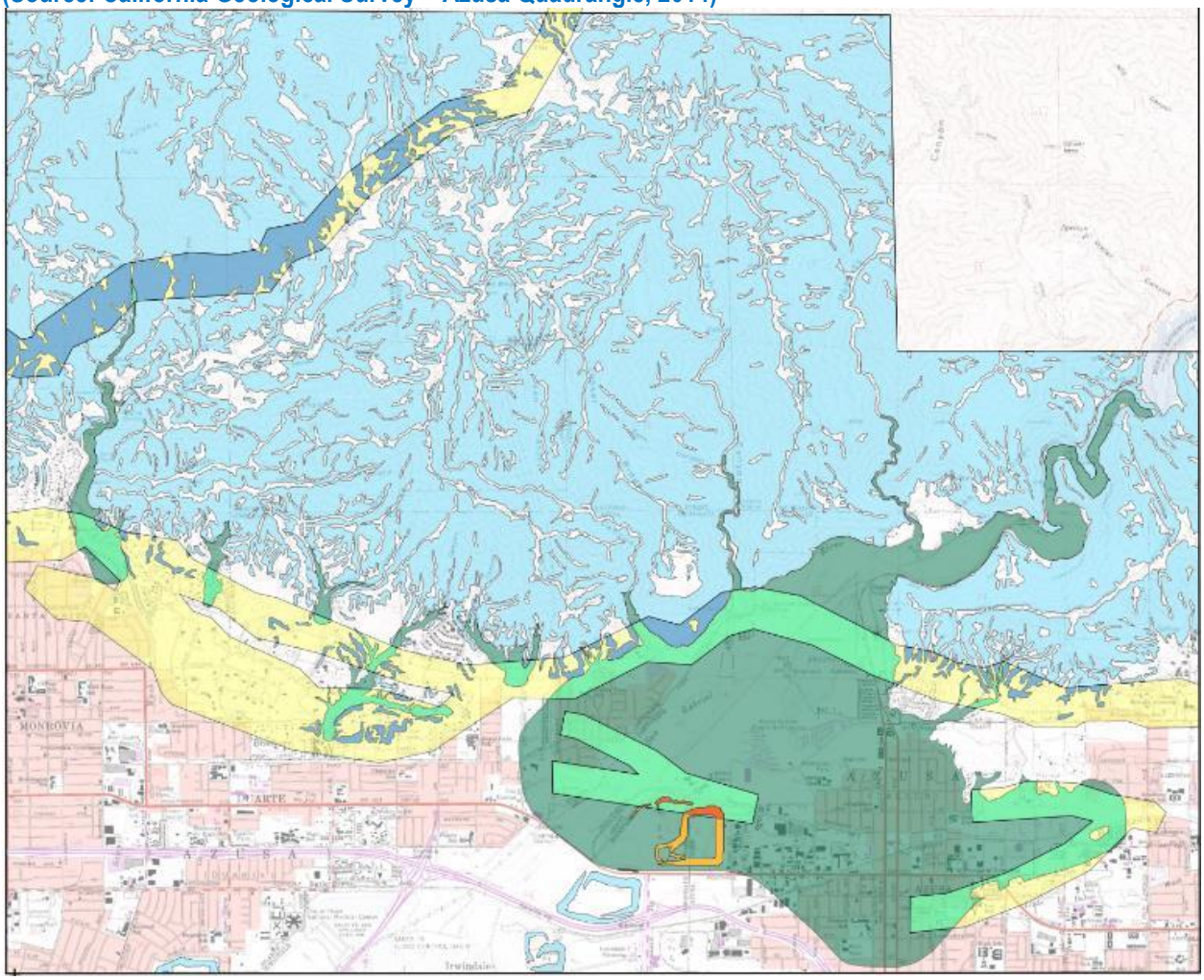
Duarte Fault

The Duarte Fault is a southern play of the Sierra Madre-Cucamonga Fault Zone that crosses the City of Duarte in the northeastern section of the City. The fault extends through the San Gabriel River and into the City of Azusa based on vegetation lineaments observed on aerial photographs and geophysical evidence. The Duarte Fault is designated as a potentially active fault, however, has not been zoned under the Alquist-Priolo Act because the timing of the latest movement has not been determined.

Raymond Fault

The Raymond Fault extends across the Los Angeles Basin from the Los Angeles River to the foot of the San Gabriel Mountains in Monrovia. This fault has been delineated as an Earthquake Fault Zone under the Alquist-Priolo Act. Seismic evidence and aftershock analyses indicate that the 1988 Pasadena earthquake (M4.9) occurred on the Raymond Fault. Future seismic activity on the Raymond Fault is expected to have a maximum magnitude of 6.5.

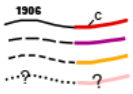
Map: Earthquake Fault Zones
(Source: California Geological Survey – Azusa Quadrangle, 2014)



MAP EXPLANATION

EARTHQUAKE FAULT ZONES

Earthquake Fault Zones
Zone boundaries are delineated by straight-line segments; the boundaries define the zone encompassing active faults that constitute a potential hazard to structures from surface faulting or fault creep such that avoidance as described in Public Resources Code Section 2621.5(a) would be required.



Active Fault Traces
Faults considered to have been active during Holocene time and to have potential for surface rupture: Solid Line in Black or Red where Accurately Located; Long Dash in Black or Solid Line in Purple where Approximately Located; Short Dash in Black or Solid Line in Orange where Inferred; Dotted Line in Black or Solid Line in Rose where Concealed; Query (?) indicates additional uncertainty. Evidence of historic offset indicated by year of earthquake-associated event or C for displacement caused by fault creep.

SEISMIC HAZARD ZONES

Liquefaction Zones
Areas where historical occurrence of liquefaction, or local geological, geotechnical and ground water conditions indicate a potential for permanent ground displacements such that mitigation as defined in Public Resources Code Section 2693(c) would be required.

Earthquake-Induced Landslide Zones
Areas where previous occurrence of landslide movement, or local topographic, geological, geotechnical and subsurface water conditions indicate a potential for permanent ground displacements such that mitigation as defined in Public Resources Code Section 2693(c) would be required.

Overlapping Liquefaction and Earthquake-Induced Landslide Zones
Areas that lie within zones of required investigation for both liquefaction and earthquake-induced landslides.

Q&A | ELEMENT B: HAZARD IDENTIFICATION AND RISK ASSESSMENT | B3a.

Q: Is there a description of each hazard's **impacts** on each jurisdiction (what happens to structures, infrastructure, people, environment, etc.)? (Requirement §201.6(c)(2)(ii))

A: See **Impact of Earthquakes in the City of Duarte** below.

Impact of Earthquakes in the City of Duarte

Based on the risk assessment, it is evident that earthquakes will continue to have potentially devastating economic impacts to certain areas of the City. Impacts that are not quantified, but can be anticipated in future events, include:

- ✓ Injury and loss of life
- ✓ Commercial and residential structural damage
- ✓ Disruption of and damage to public infrastructure
- ✓ Secondary health hazards (e.g. mold and mildew)
- ✓ Damage to roads/bridges resulting in loss of mobility
- ✓ Significant economic impact (e.g. jobs, sales, tax revenue) upon the community
- ✓ Negative impact on commercial and residential property values
- ✓ Significant disruption to students and teachers as temporary facilities and relocations would likely be needed

Earthquake-Induced Landslides

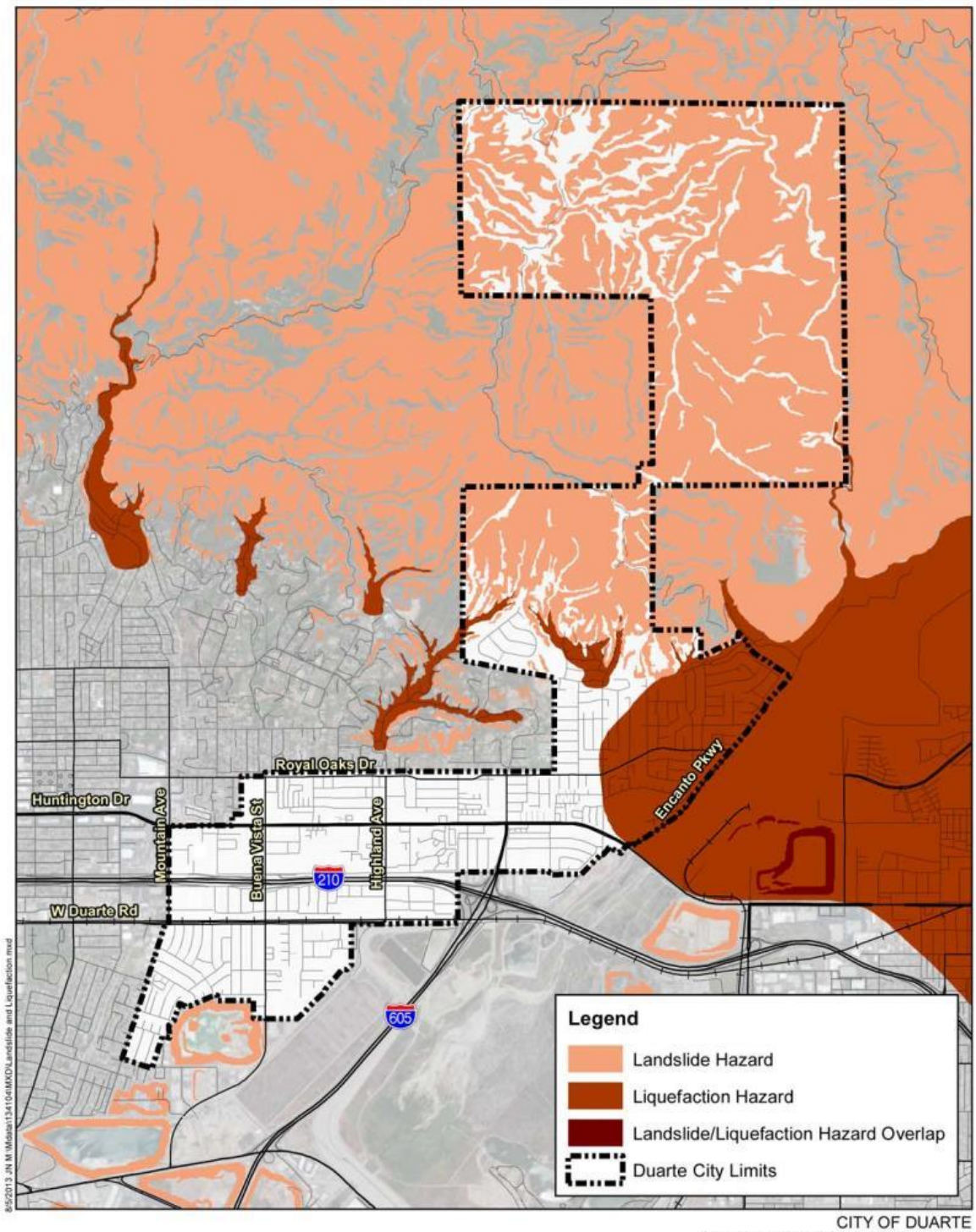
Earthquake-induced landslides are secondary earthquake hazards that occur from ground shaking. They can destroy the roads, buildings, utilities, and other critical facilities necessary to respond and recover from an earthquake. Many communities in Southern California have a high likelihood of encountering such risks, especially in areas with steep slopes. Seismically induced landslides have the potential to occur in limited areas, but proper geotechnical investigation and mitigation will minimize these secondary seismic hazards. The northeast mountainous areas of the City are generally too steep, and bedrock is too unstable for typical construction. Erosion, landslides and shaking from earthquakes can be severe hazards within these areas.

Liquefaction

Liquefaction is a phenomenon in which the strength and stiffness of a soil is reduced by earthquake shaking or other events. Liquefaction occurs in saturated soils, which are soils in which the space between individual soil particles is completely filled with water. This water exerts a pressure on the soil particles that influences how tightly the particles themselves are pressed together. Prior to an earthquake, the water pressure is relatively low. However, earthquake shaking can cause the water pressure to increase to the point where the soil particles can readily move with respect to each other. Because liquefaction only occurs in saturated soil, its effects are most commonly observed in low lying areas. Typically, liquefaction is associated with shallow groundwater, which is less than 50 feet beneath the earth's surface.

According to the City of Duarte's General Plan (2007), liquefaction presents the most prominent secondary earthquake ground failure issue in the City. The most notable areas of liquefaction potential are along the eastern portion of the City to the north of Encanto Park and Rancho Duarte Golf Course.

Map: Earthquake-Induced Liquefaction & Landslide Areas
(Source: City of Duarte 2014 Hazard Mitigation Plan)

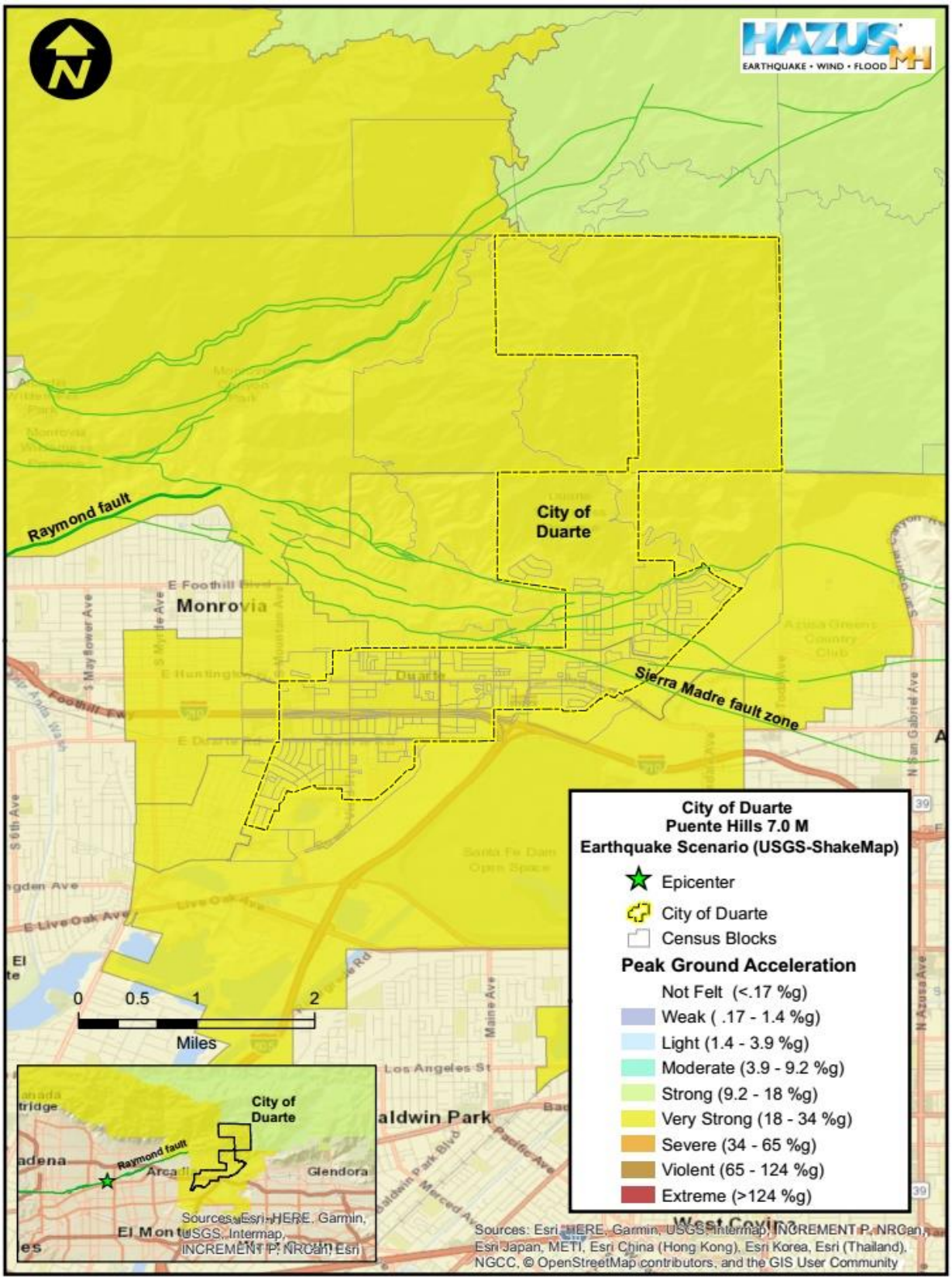


HAZUS Loss Projection Maps and Reports

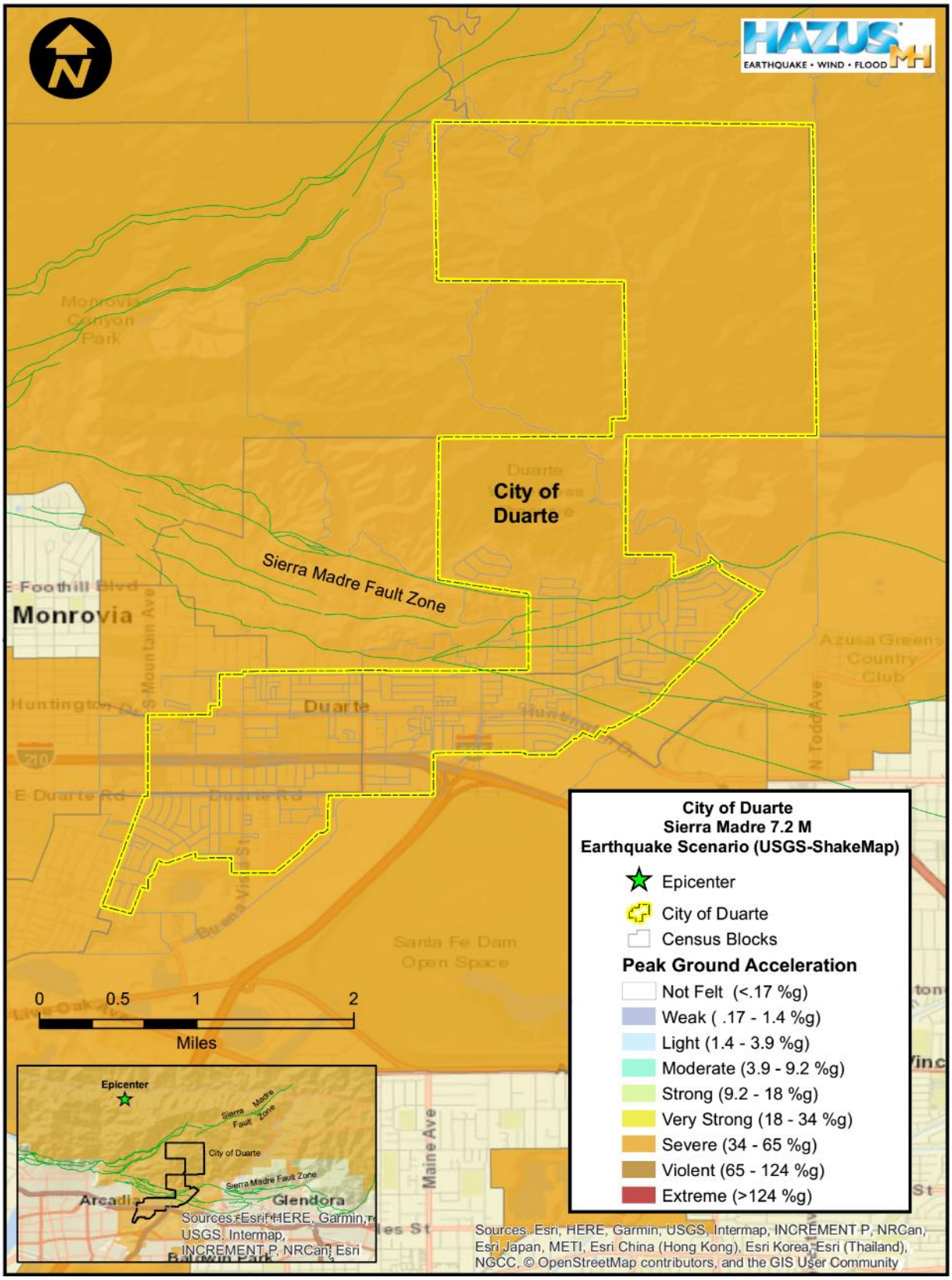
FEMA develop a loss projection software program that yields maps and data reports for hazards including earthquake, hurricane, flooding, and tsunami. The software is known as “HAZUS” which is an acronym for “Hazards United States”. Once the location and size of a hypothetical earthquake are identified, HAZUS-MH estimates the intensity of the ground shaking, the number of buildings damaged, the number of casualties, the amount of damage to transportation systems and utilities, the number of people displaced from their homes, and the estimated cost of repair and clean up.

Following are the maps created by Emergency Planning Consultants from HAZUS for the San Andreas Fault, Sierra Madre Fault, and Puente Hills Fault. The supporting HAZUS reports are located in the Attachments section at the end of the Mitigation Plan.

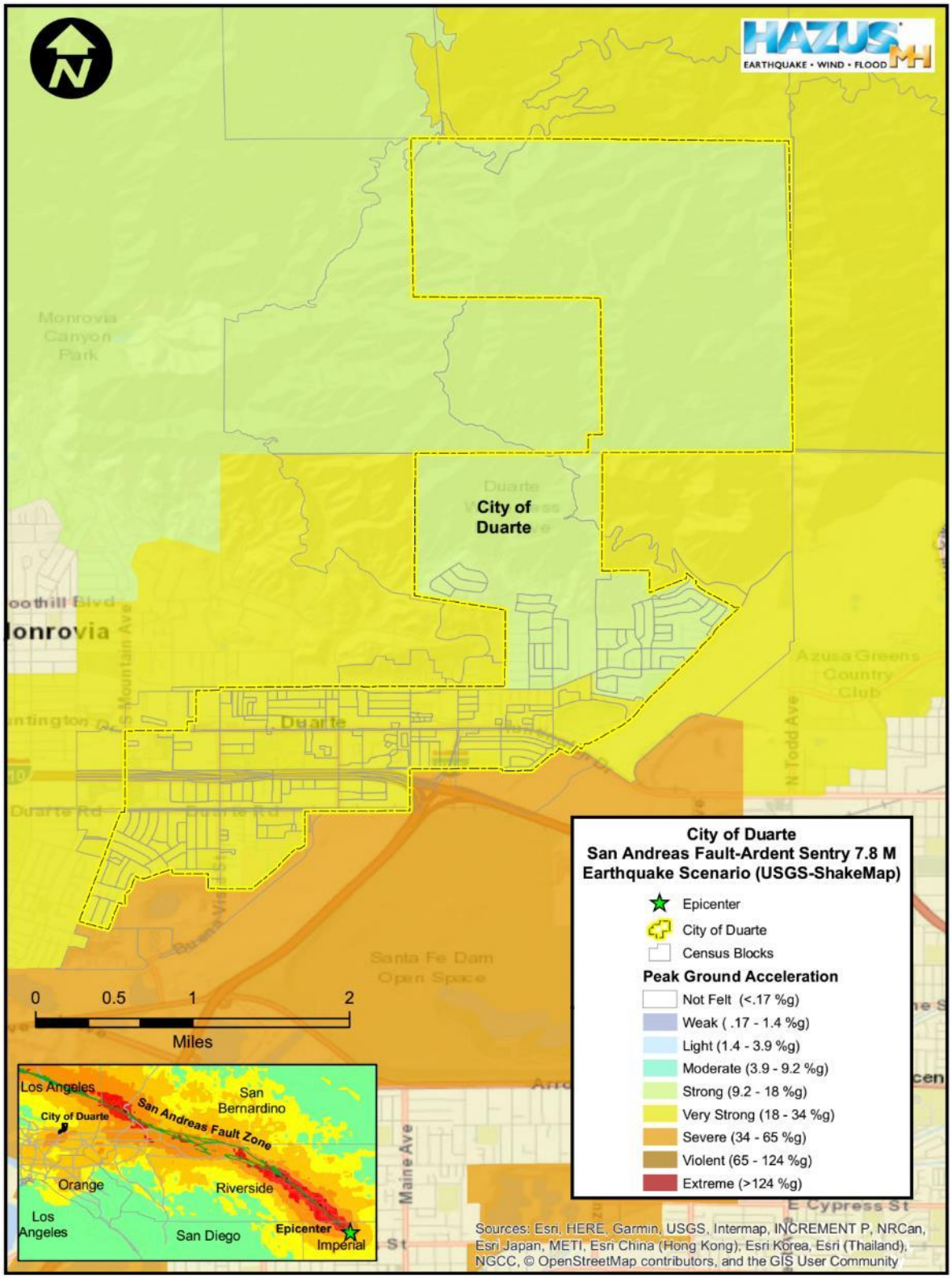
Map: Earthquake Scenario Map – Puente Hills M7.0
(Source: Emergency Planning Consultants)



Map: Earthquake Scenario Map – Sierra Madre M7.2
(Source: Emergency Planning Consultants)



Map: Earthquake Scenario – San Andreas M7.8
(Source: Emergency Planning Consultants)



Structures and Building Code

The built environment is susceptible to damage from earthquakes. Buildings that collapse can trap and bury people. Lives are at risk, and the cost to clean up the damages is great. In most California communities, including the City of Duarte, many buildings were built before 1993 when building codes were not as strict. In addition, retrofitting is not required except under certain conditions and can be expensive. Therefore, the number of buildings at risk remains high.

The greatest of those threats exists with unreinforced masonry buildings which are very vulnerable to catastrophic collapse during a significant earthquake. At present, the City of Duarte has identified 8-10 unreinforced masonry buildings and is working with the owners to comply with the California Building Code.

Implementation of earthquake mitigation policy most often takes place at the local government level. The City of Duarte Building Division enforces building codes pertaining to earthquake hazards.

Additionally, the City has implemented basic building requirements that are above and beyond what the State demands for hazard mitigation. Newly constructed buildings in Duarte that are built in an area subject to earthquake-induced landslide or liquefaction are typically built with extra foundation support. Such support is found in the post-tension reinforced concrete foundation; this same technique is used by coastal cities to prevent home destruction during cases of liquefaction.

Generally, these codes seek to discourage development in areas that could be prone to flooding, landslide, wildfire and/or seismic hazards; and where development is permitted, that the applicable construction standards are met. Developers in hazard-prone areas may be required to retain a qualified professional engineer to evaluate level of risk on the site and recommend appropriate mitigation measures.

Wildfire Hazards

Q&A | ELEMENT B: HAZARD IDENTIFICATION AND RISK ASSESSMENT | B2a.

Q: Does the plan include information on **previous occurrences** of hazard events for each jurisdiction? (Requirement §201.6(c)(2)(i))

A: See **Previous Occurrences of Wildfire in the City of Duarte** below.

Previous Occurrences of Wildfire in the City of Duarte

The most recent wildfire outbreak closest to Duarte was the San Gabriel Complex fire which ignited the morning of June 20, 2016. According to InciWeb (Source), the San Gabriel Complex fire consisted of 2 fires, the Reservoir Fire and the Fish Fire. Both fires originated northeast of the City limits as shown on **Map: San Gabriel Complex Fire Progression**. The cause of the Reservoir Fire was due to a vehicle crash while the cause of the Fish Fire is still under investigation. The fires were burning in fuel that was 30+ years old with 6 to 8-foot chaparral and large grass crop.

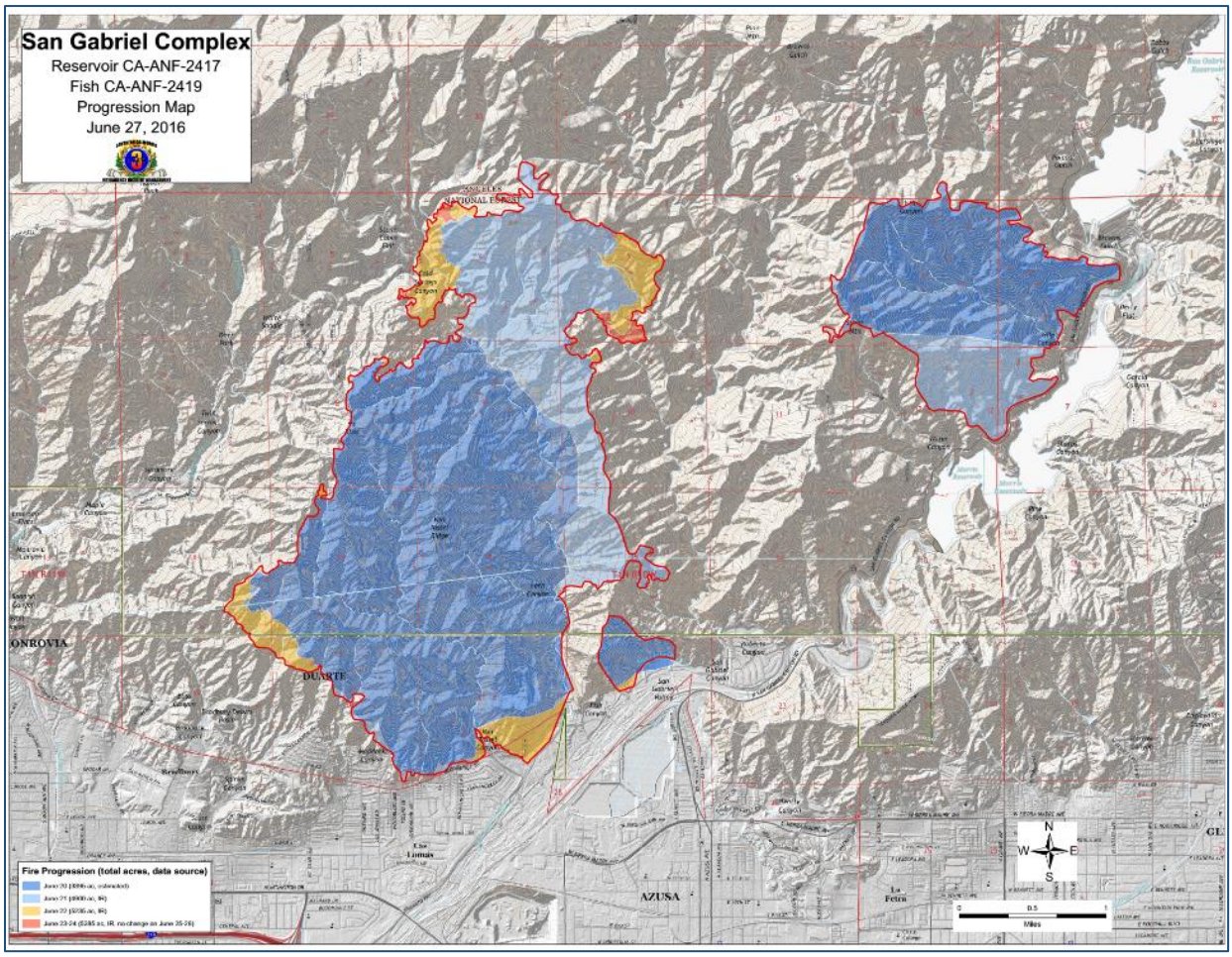
At the height of the fire, 1,376 homes were evacuated. The American Red Cross established an Evacuation Center and 1,460 staff from multiple local, state and federal agencies worked to protect property and suppress the fire. Road closures were in place and law enforcement patrolled for security while firefighters worked through the night to contain the fire.

Although the San Gabriel Complex Fire threatened homes in the City, no property damage was reported. Also see **Landslide Hazards** for discussion of post-fire impacts.

Photo: 2017 Fish Fire Impacted Duarte
Source: Duarte Public Safety



Map: San Gabriel Complex Fire Progression
(Source: CAL FIRE)



Previous Occurrences of Wildfire in Los Angeles County

Due to its weather, topography, and native vegetation, the majority of Los Angeles County is at risk from wildland fires. The extended droughts characteristic of California's Mediterranean climate result in large areas of dry vegetation that provide fuel for wildland fires. Furthermore, the native vegetation typically has a high oil content that makes it highly flammable. The area is also intermittently impacted by Santa Ana winds, the hot, dry winds that blow across southern California in the spring and late fall.

The most recent significant wildfire event to impact the County of Los Angeles was the Station Fire in 2009. The Station Fire destroyed 209 structures and burned a total of 160,577 acres within Los Angeles County. According to the United States Forest Service (Source), the Station Fire was the 10th largest in modern California history, and the largest wildfire in Los Angeles County to date.

Q&A | ELEMENT B: HAZARD IDENTIFICATION AND RISK ASSESSMENT | B1a.

Q: Does the plan include a general **description** of all natural hazards that can affect each jurisdiction? (Requirement §201.6(c)(2)(i))

A: See **Local Conditions** below.

Q&A | ELEMENT B: HAZARD IDENTIFICATION AND RISK ASSESSMENT | B3b.

Q: Is there a description of each identified hazard's overall **vulnerability** (structures, systems, populations, or other community assets defined by the community that are identified as being susceptible to damage and loss from hazard events) for each jurisdiction? (Requirement §201.6(c)(2)(ii))

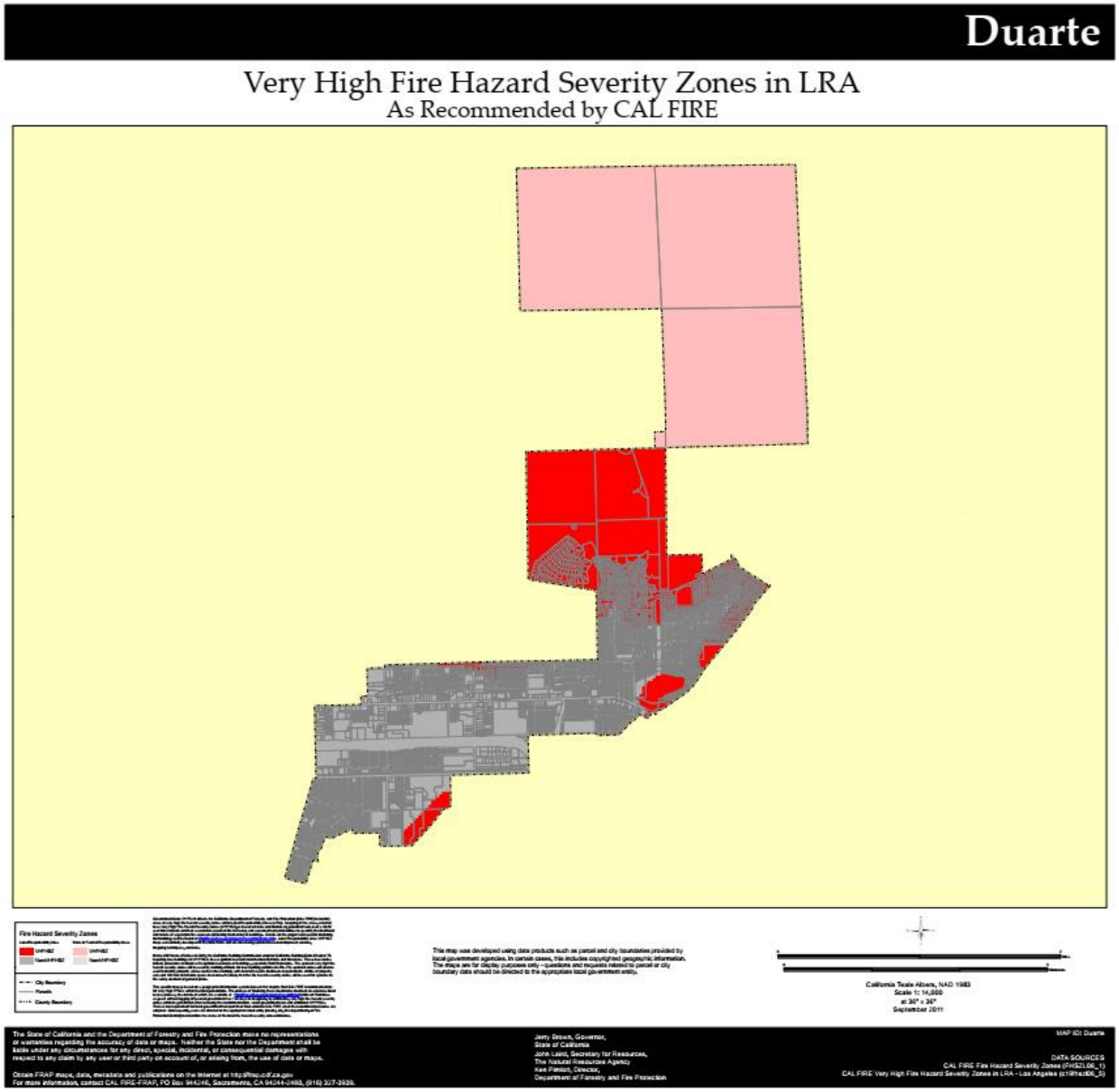
A: See **Local Conditions** below.

Local Conditions

Duarte's location at the base of the San Gabriel Mountains creates an urban/wildland interface that makes Duarte more susceptible to wildfires than cities that do not border the foothills. According to **Map: Very High Fire Hazard Severity Zones** shows properties closest to the foothills to be at greatest risk to wildfires. These areas are at significant risk during the summer months, extended periods of heat, and long periods of no rain. Strong periodic Santa Ana winds add to the fire danger in the City.



Map: Very High Fire Hazard Severity Zones (Source: CAL FIRE, September 2011)



Q&A | ELEMENT B: HAZARD IDENTIFICATION AND RISK ASSESSMENT | B3a.

Q: Is there a description of each hazard's **impacts** on each jurisdiction (what happens to structures, infrastructure, people, environment, etc.)? (Requirement §201.6(c)(2)(ii))

A: See **Impact of Wildfire in the City of Duarte** below.

Impact of Wildfire in the City of Duarte

Wildfires and their impact vary by location and severity of any given wildfire event and will likely only affect certain areas of the county during specific times. Based on the risk assessment, it is evident that wildfires will have a potentially devastating economic impact to certain areas of the City.

Impacts that are not quantified, but which may be anticipated in future events include:

- ✓ Injury and loss of life
- ✓ Commercial and residential structural damage
- ✓ Disruption of and damage to public infrastructure
- ✓ Secondary health hazards e.g. mold and mildew
- ✓ Damage to roads/bridges resulting in loss of mobility
- ✓ Significant economic impact (jobs, sales, tax revenue) upon the community
- ✓ Negative impact on commercial and residential property values
- ✓ Significant disruption to students and teachers as temporary facilities and relocations would likely be needed

Landslide Hazards

Q&A | ELEMENT B: HAZARD IDENTIFICATION AND RISK ASSESSMENT | B2a.

Q: Does the plan include information on **previous occurrences** of hazard events for each jurisdiction? (Requirement §201.6(c)(2)(i))

A: See **Previous Occurrences of Landslides in the City of Duarte** below.

Previous Occurrences of Landslides in the City of Duarte

In Duarte, wildfires have been the contributing factor for debris and mudflows that have impacted residential neighborhoods in the north foothills of the City. The first hazard event occurred in 1952 when large quantities of debris were carried down Vineyard Avenue. The second hazard event occurred in 1980 following the Stables Fire. The third hazard event occurred in January 2017 downslope of the Fish and Reservoir fire. Duarte was impacted by fire-related mudflows that filled the following Debris Basins: Duarte/Bliss Canyon, Spinks Canyon, Maddock, Las Lomas, Crestview, Upper Dominic, Cedarwood, and Green Bank.

Q&A | ELEMENT B: HAZARD IDENTIFICATION AND RISK ASSESSMENT | B1a.

Q: Does the plan include a general **description** of all natural hazards that can affect each jurisdiction? (Requirement §201.6(c)(2)(i))

A: See **Local Conditions** below.

Q&A | ELEMENT B: HAZARD IDENTIFICATION AND RISK ASSESSMENT | B3b.

Q: Is there a description of each identified hazard's overall **vulnerability** (structures, systems, populations, or other community assets defined by the community that are identified as being susceptible to damage and loss from hazard events) for each jurisdiction? (Requirement §201.6(c)(2)(ii))

A: See **Local Conditions** below.

Local Conditions

The City's location at the base of the San Gabriel Mountains makes it susceptible to landslide hazards. These mountains are traversed by deep, steep- sided canyons cut into highly fractured crystalline basement rocks that form the bedrock underpinnings of the mountains. The sides of most canyons are blanketed by unstable hill-slope rock debris that constantly is being stripped away by slope failures from earthquakes and stormwater runoff then washed out to the range fronts.

Heavy rainfall can produce another kind of earth movement: mudflow. A mudflow (or debris flow) is a rapidly moving slurry of water, mud, rock, vegetation, and debris. Larger debris flows are capable of moving trees, large boulders, and even cars. This type of failure is especially dangerous, as it can move at speeds more than 10 miles per hour, is capable of crushing

buildings, and can strike with very little warning. As with soil slips, the development of debris flows is strongly tied to storm periods of prolonged rainfall.

Ground failure occurs during an intense rainfall event following saturation of the soil by previous rains. Even relatively small amounts of debris can cause damage from inundation and/or impact. Due to Duarte's hillsides and steep slopes, mud and debris flow can be a factor, particularly after prolonged rainfall.

1952 Landslide

According to the U.S. Army Corp of Engineers, in September 1952, a fire burned 500 acres of watershed in the foothills north and northeast of the City of Duarte. Of the 500 acres, approximately, 150 acres of vegetation cover was destroyed in the Maddock Canyon Area just north of Duarte Mesa and Vineyard Avenue in the City of Duarte. Maddock Canyon is one of two small canyons located between Fish Canyon and Spinks Canyon and it extends from the mountains toward Vineyard Avenue. In December 1952, four months after the fire, a light rainstorm caused post fire canyon flows in Maddock Canyon. The debris flow caused considerable damage to a new residential subdivision and other residential properties along Vineyard Avenue, Conata Street, and Royal Oaks Drive. Due to the potential for more debris flow and mudslides, the residents of the area sent a petition to the Los Angeles County Board of Supervisors requesting aid.

In July 1953, the County of Los Angeles committed to the building of a debris basin in Maddock Canyon. This was followed by the adoption of a U.S. Congress Bill that provided a million dollars in funding for the construction of five debris basins along the San Gabriel foothills as well as improvements for Sawpit Wash.

1980 Landslide

On November 16, 1980 the Stables Fire fanned by Santa Ana Wind conditions swept down from the foothills and destroyed 35 homes in the City of Duarte. Reports indicated that the fire had moved from the City of Azusa, east of the San Gabriel River to the Duarte and Duarte homes in 8 to 10 minutes, due to strong shift in winds. The fire was responsible for defoliating several steep slopes and exposed a residential subdivision to mudslides.

Immediately after the “Stable Fire”, City and County personnel began taking measures to deal with possible floods and mudslides. Mud diversion structures were constructed, 50,000 sandbags were distributed, and parking was restricted on streets with potential slides. Since the Stable Fire occurred during California’s rainy season, “Storm Watch” flyers were also issued to residents in Duarte’s hillside areas. A Disaster Center was also established at City Hall to monitor weather reports and storm situations and to inform residents. The City prepared to mobilize personnel and equipment if needed to clear mud flows from the public streets and parkways.

As quickly as possible, several temporary debris basins were constructed, and existing debris basins were cleared and reinforced with sandbags. The City also provided erosion control consultation to residents. In the months that followed the City encouraged the re-seeding of hillside areas.

2017 Debris Flow

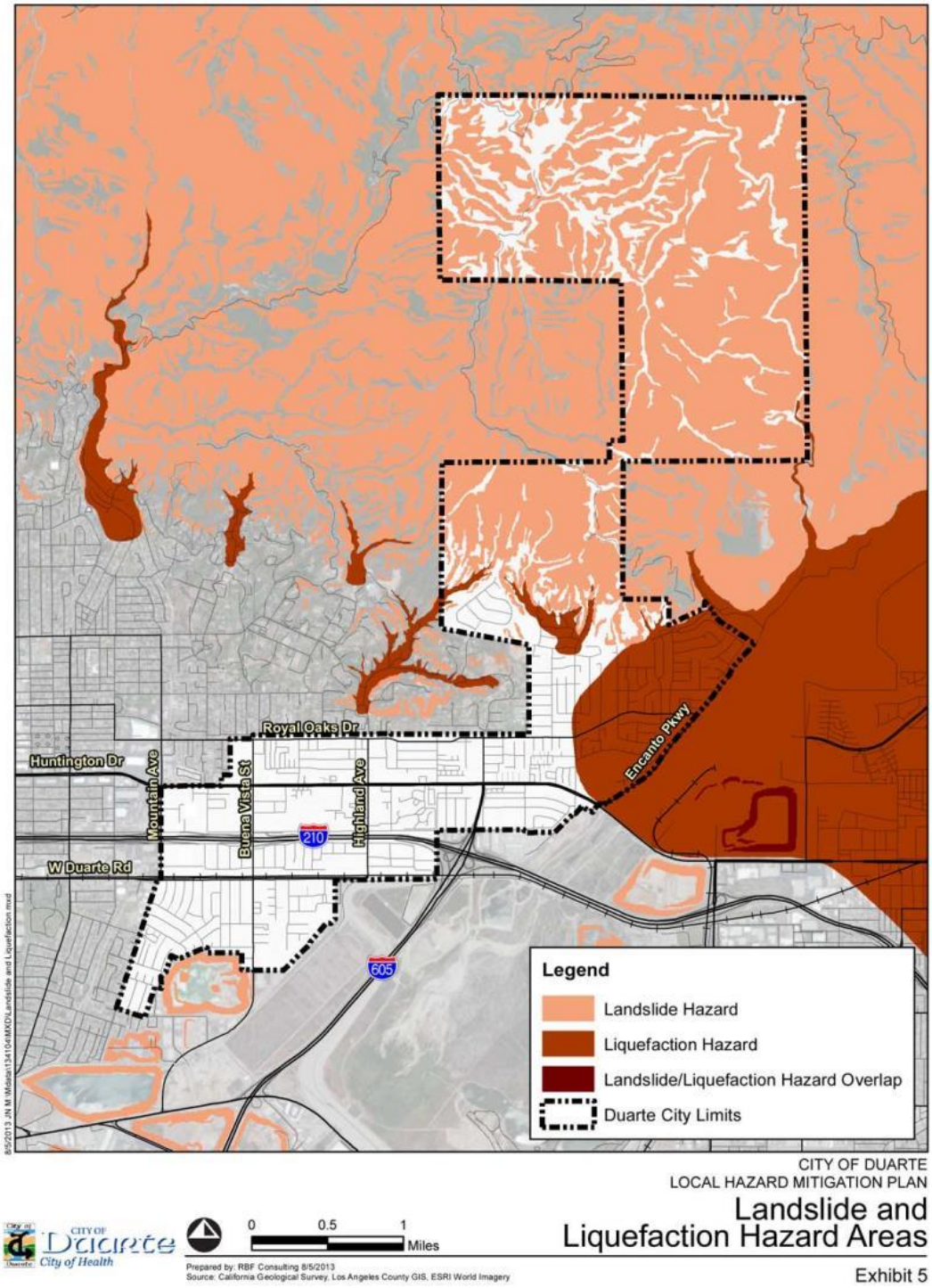
On January 22, 2017, authorities issued mandatory evacuation orders for homes below the Fish fire burn area in the City of Duarte as powerful storms threatened to drop up to 6 inches of rain, prompting fears of mudslides and flooding. The storms caused mud and debris flows that swept past K-rails and clogged up several roadways in the hillside communities.





The **Map: Landslide Zones** identifies areas in the City of Duarte that are considered at highest risk for landslides.

Map: Landslide Zones
(Source: City of Duarte 2014 Hazard Mitigation Plan)



Q&A | ELEMENT B: HAZARD IDENTIFICATION AND RISK ASSESSMENT | B3a.

Q: Is there a description of each hazard's **impacts** on each jurisdiction (what happens to structures, infrastructure, people, environment, etc.)? (Requirement §201.6(c)(2)(ii))

A: See **Impacts of Landslides in the City of Duarte** below.

Impacts of Landslides in the City of Duarte

Based on the risk assessment, it is evident that landslides continue to have potentially devastating economic impact to certain areas of the City.

Impacts that are not quantified, but can be anticipated in future events, include:

- ✓ Injury and loss of life
- ✓ Commercial and residential structural damage
- ✓ Disruption of and damage to public infrastructure
- ✓ Secondary health hazards e.g. mold and mildew
- ✓ Damage to roads/bridges resulting in loss of mobility
- ✓ Significant economic impact (jobs, sales, tax revenue) upon the community
- ✓ Negative impact on commercial and residential property values
- ✓ Significant disruption to students and teachers as temporary facilities and relocations would likely be needed

Flood Hazards

Q&A | ELEMENT B: HAZARD IDENTIFICATION AND RISK ASSESSMENT | B2a.

Q: Does the plan include information on **previous occurrences** of hazard events for each jurisdiction? (Requirement §201.6(c)(2)(i))

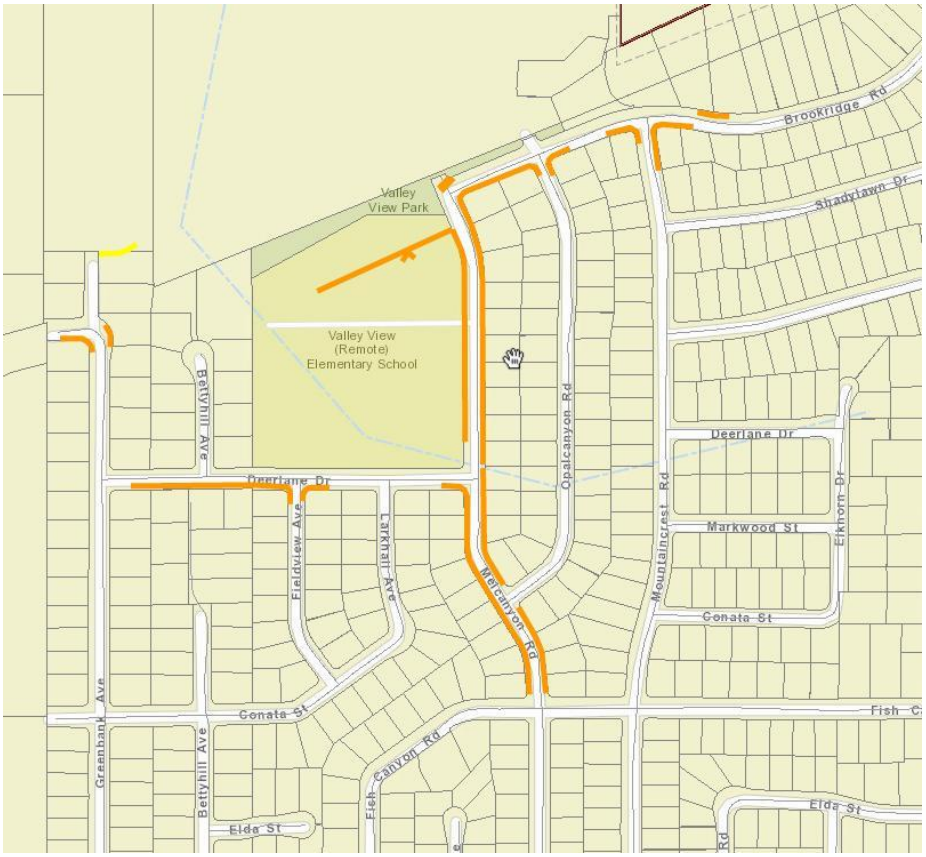
A: See **Previous Occurrences of Flood in the City of Duarte** below.

Previous Occurrences of Flooding in the City of Duarte

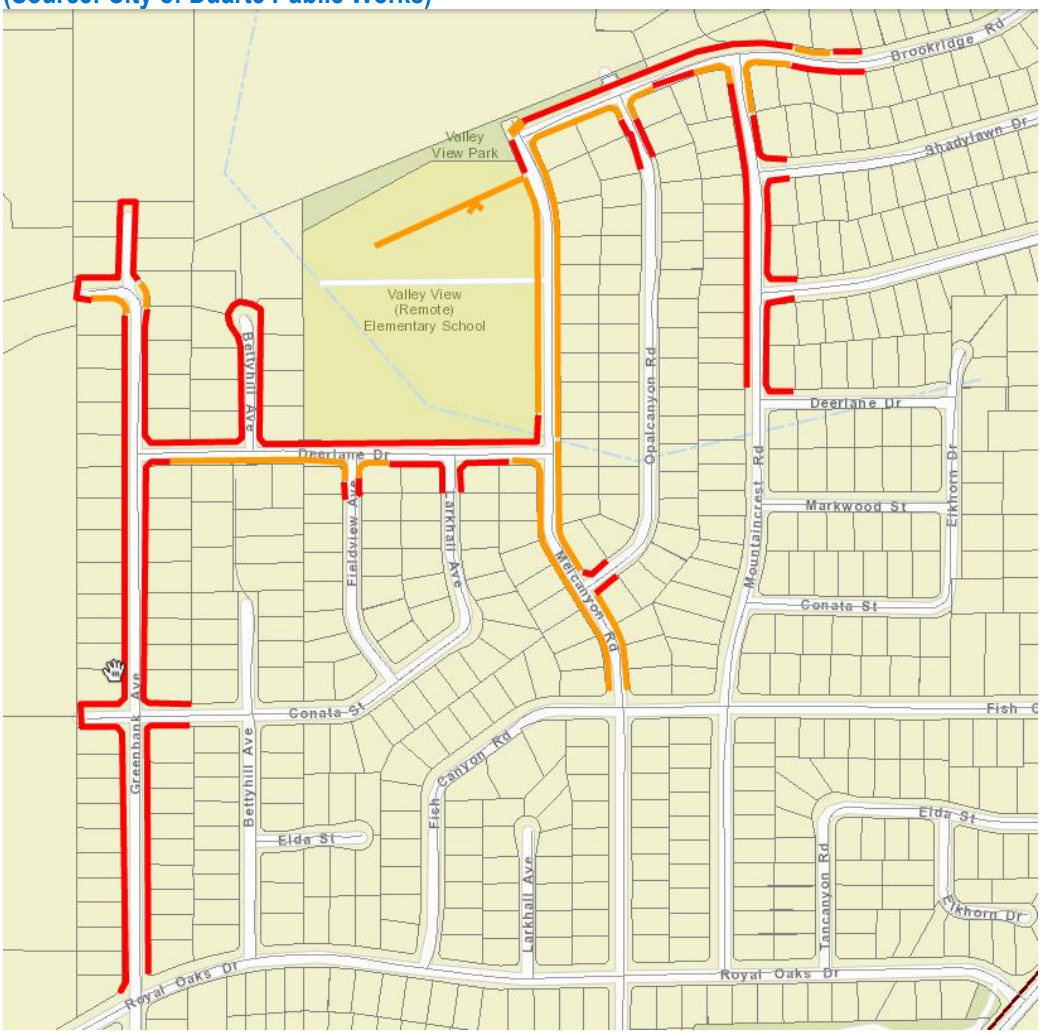
Flooding has not been a serious hazard to Duarte in several decades, and the risk of serious flooding in the City is considered minimal. Duarte does not lie within a 100- or 500- year floodplain, as delineated by the Federal Emergency Management Agency (FEMA). However, the potential for a localized flood event still exists within Duarte, and it is an important hazard to be addressed in the City's Hazard Mitigation Plan.

Since the writing of the 2014 Mitigation Plan, heavy rains in January and February of 2017 resulted in flooding and debris accumulation to several streets in the foothills of Duarte as shown in the following maps and photos provided by Duarte Public Works.

Map: Location of K-Rails Following 2017 Fish Fire
(Source: City of Duarte Public Works)



Map: Location of Parking Restrictions Following 2017 Fish Fire (Source: City of Duarte Public Works)



Previous Occurrences of Flooding in Los Angeles County

Los Angeles County records reveal since 1861, the Los Angeles River has flooded 30 times, on average once every 6.1 years. But averages are deceiving, for the Los Angeles basin goes through periods of drought and then periods of above average rainfall. Between 1889 and 1891 the river flooded every year, from 1941 to 1945, the river flooded 5 times. Conversely, from 1896 to 1914, and again from 1944 to 1969, a period of 25 years, the river did not have serious floods.

Average annual precipitation in Los Angeles County ranges from 13 inches on the coast to approximately 40 inches on the highest point of the Peninsular Mountain Range that transects the County. Several factors determine the severity of floods, including rainfall intensity and duration. A large amount of rainfall over a short time span can result in flash flood conditions. A sudden thunderstorm or heavy rain, dam failure, or sudden spills can cause flash flooding. The National Weather Service's definition of a flash flood is a flood occurring in a watershed where the time of travel of the peak of flow from one end of the watershed to the other is less than six hours.

The towering mountains that give the Los Angeles region its spectacular views also wring a great deal of rain out of the storm clouds that pass through. Because the mountains are so steep, the rainwater moves rapidly down the slopes and across the coastal plains on its way to the ocean.

Naturally, this rainfall moves rapidly downstream, often with severe consequences for anything in its path. In extreme cases, flood-generated debris flows will roar down a canyon at speeds near 40 miles per hour with a wall of mud, debris and water, tens of feet high. Flooding occurs when climate, geology, and hydrology combine to create conditions where water flows outside of its usual course.

Q&A | ELEMENT B: HAZARD IDENTIFICATION AND RISK ASSESSMENT | B1a.

Q: Does the plan include a general **description** of all natural hazards that can affect each jurisdiction? (Requirement §201.6(c)(2)(i))

A: See **Local Conditions** below.

Q&A | ELEMENT B: HAZARD IDENTIFICATION AND RISK ASSESSMENT | B3b.

Q: Is there a description of each identified hazard's overall **vulnerability** (structures, systems, populations, or other community assets defined by the community that are identified as being susceptible to damage and loss from hazard events) for each jurisdiction? (Requirement §201.6(c)(2)(ii))

A: See **Local Conditions** below.

Local Conditions

Although the San Gabriel River is adjacent to the City, the majority of the City's flooding concerns are on urban flooding. While urban flooding is not a major problem in the City, it is one that requires on-going maintenance of existing storm drains and flood control channels. Debris accumulation in storm drains and flood control channels is one of the largest maintenance problems for the City. Low-lying areas of the City are particularly susceptible to urban flooding. As identified in the 2014 Hazard Mitigation Plan, the following areas are considered at risk due to urban flooding:

- Huntington Drive, north side, west of Buena Vista Street
- Encanto Parkway, north of Huntington Drive
- Encanto Parkway near Fish Canyon Road
- Central Avenue, north side, east of Santo Domingo Avenue
- Buena Vista Street, east side, south of Galen Street
- Vineyard Avenue north of Royal Oaks

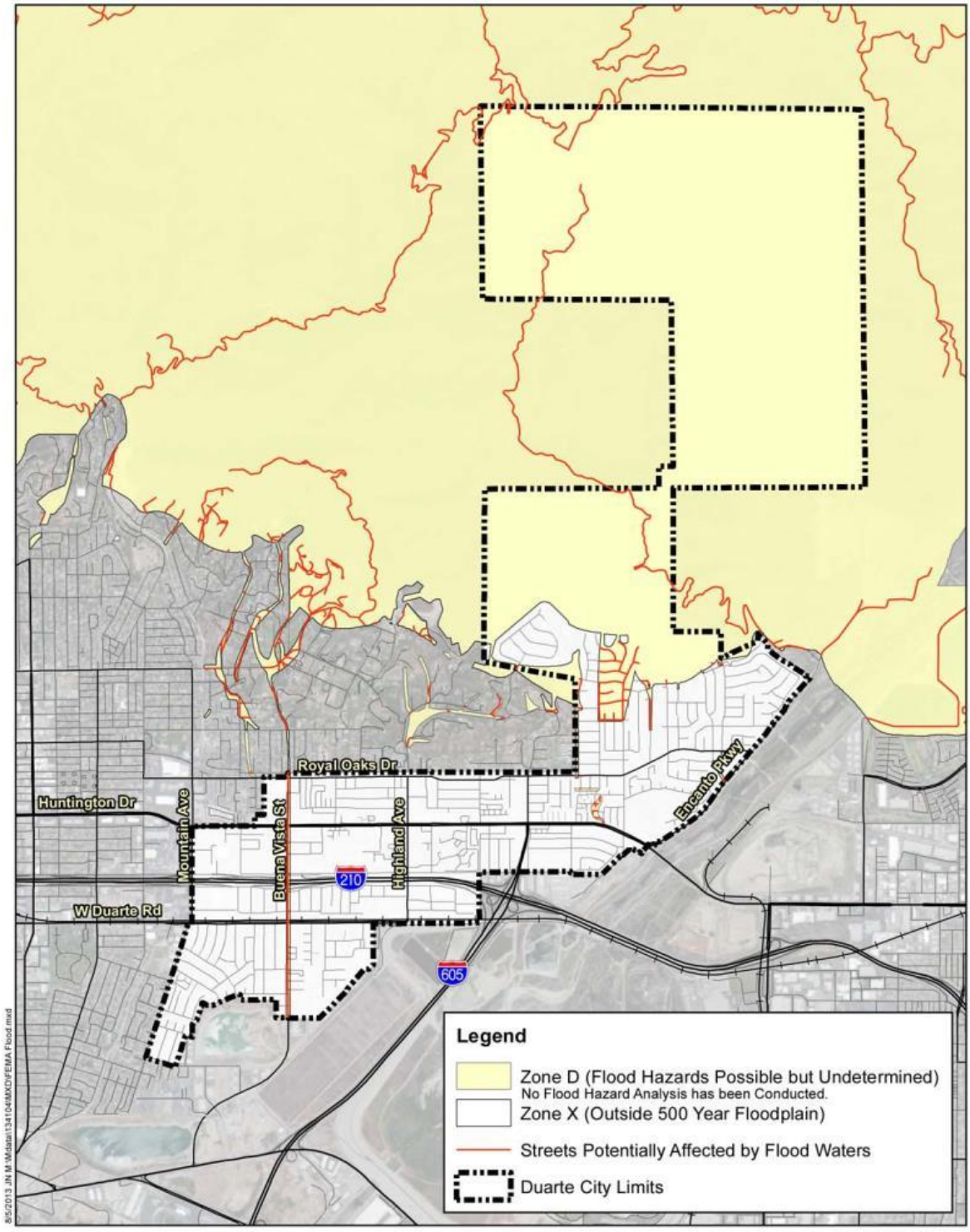
According to FEMA, the City of Duarte is designated a No Special Flood Hazard Area (NSFHA). A No Special Flood Hazard Area (NSFHA) is an area that is in a moderate- to low-risk flood zone (Zones B, C, X Pre- and Post-FIRM). According to **Map: Flood Insurance Rate Map**, the built areas of the City are in "Flood Zone X" and "Flood Zone D". Zone X is defined as the area outside the 500-year flood and protected by levee from 100-year flood. Zone D is defined as areas in which flood hazards are undetermined (no analysis of flood hazards has been conducted), but possible.

An NSFHA is not in any immediate danger from flooding caused by overflowing rivers or hard rains. However, it's important to note that structures within a NSFHA are still at risk. In fact, over 20-percent of all flood insurance claims come from areas outside of mapped high-risk flood zones.

National Flood Insurance Program

The City participates in the National Flood Insurance Program (NFIP). Created by Congress in 1968, the NFIP makes flood insurance available in communities that enact minimum floodplain management rules consistent with the Code of Federal Regulations §60.3.

Map: FEMA Flood Zones
(Source: City of Duarte 2014 Hazard Mitigation Plan)

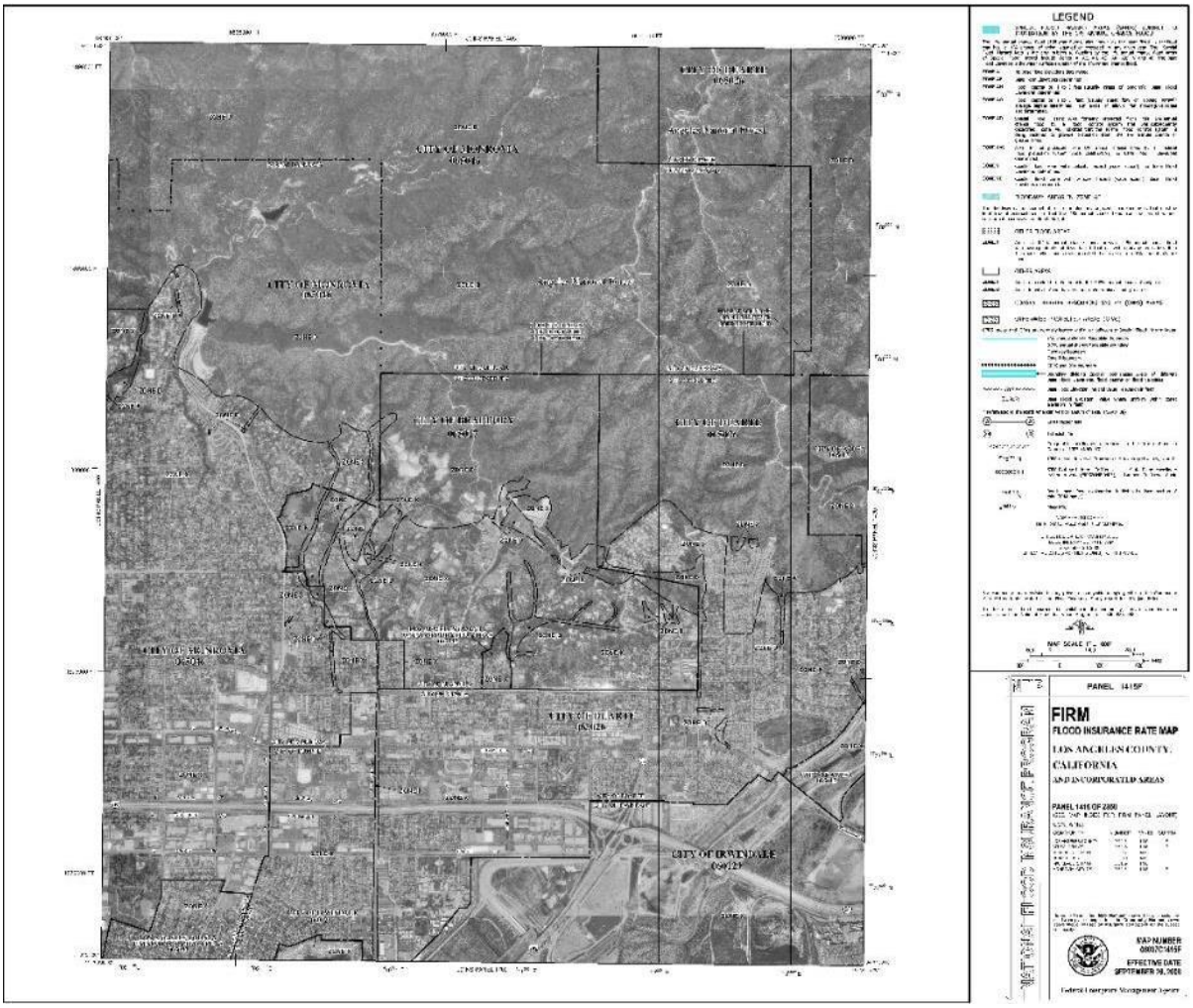


CITY OF DUARTE
LOCAL HAZARD MITIGATION PLAN

FEMA Flood Zones

Exhibit 10

Map: Flood Insurance Rate Map
(Source: FEMA Flood Map Service Center)



Q&A | ELEMENT B: HAZARD IDENTIFICATION AND RISK ASSESSMENT | B3a.

Q: Is there a description of each hazard's **impacts** on each jurisdiction (what happens to structures, infrastructure, people, environment, etc.)? (Requirement §201.6(c)(2)(ii))

A: See **Impact of Flooding in the City of Duarte** below.

Impact of Flooding in the City of Duarte

Floods and their impacts vary by location and severity of any given flood event, and likely only affect certain areas of the County during specific times. Based on the risk assessment, it is evident that floods will continue to have devastating economic impact to certain areas of the City.

Impact that is not quantified, but anticipated in future events includes:

- ✓ Injury and loss of life
- ✓ Commercial and residential structural damage
- ✓ Disruption of and damage to public infrastructure
- ✓ Secondary health hazards e.g. mold and mildew
- ✓ Damage to roads/bridges resulting in loss of mobility
- ✓ Significant economic impact (jobs, sales, tax revenue) upon the community
- ✓ Negative impact on commercial and residential property values
- ✓ Significant disruption to students and teachers as temporary facilities and relocations would likely be needed

Dam Failure Hazards

Q&A | ELEMENT B: HAZARD IDENTIFICATION AND RISK ASSESSMENT | B2a.

Q: Does the plan include information on **previous occurrences** of hazard events for each jurisdiction? (Requirement §201.6(c)(2)(i))

A: See **Previous Occurrences of Dam Failure in the City of Duarte** below.

Previous Occurrences of Dam Failure in the City of Duarte

The City of Duarte has not been recently affected by a release/failure of any of the dam facilities identified in **Table: Dams Near City of Duarte**.

Since the writing of the 2014 Mitigation Plan, there have been no dam failure incidents that have impacted the City of Duarte.

Previous Occurrences of Dam Failure in Los Angeles County

There are a total of 103 dams in Los Angeles County, owned by 23 agencies or organizations, ranging from the Federal government to Home Owner Associations. These dams hold billions of gallons of water in reservoirs. Releases of water from the major reservoirs are designed to protect Southern California from flood waters and to store domestic water. Seismic activity can compromise the dam structures, and the resultant flooding could cause catastrophic flooding. Following the 1971 Sylmar earthquake the Lower Van Norman Dam showed signs of structural compromise, and tens of thousands of persons had to be evacuated until the dam could be drained. The dam has never been refilled. In the latter half of the twentieth century, enormous public work projects were completed, which served to mitigate flood damage in the Los Angeles area.

Q&A | ELEMENT B: HAZARD IDENTIFICATION AND RISK ASSESSMENT | B1a.

Q: Does the plan include a general **description** of all natural hazards that can affect each jurisdiction? (Requirement §201.6(c)(2)(i))

A: See **Local Conditions** below.

Q&A | ELEMENT B: HAZARD IDENTIFICATION AND RISK ASSESSMENT | B3b.

Q: Is there a description of each identified hazard's overall **vulnerability** (structures, systems, populations, or other community assets defined by the community that are identified as being susceptible to damage and loss from hazard events) for each jurisdiction? (Requirement §201.6(c)(2)(ii))

A: See **Local Conditions** below.

Local Conditions

If not for the successful flood control system, the City of Duarte could experience major flood events based on its location at the base of the San Gabriel Mountains. The range's major watershed is the San Gabriel River with three main forks and countless tributaries that fully drain

20 percent of the mountain's precipitation. The San Gabriel River runs in a north/south direction near the east boundary of the City of Duarte.

The San Gabriel River is controlled by a network of dams and flood control measures. This network of carefully planned dams has protected the City of Duarte from any serious flooding events. The natural water cycle and flow are significantly altered to protect the adjacent communities from flood damage and to better use local water resources for urban and agricultural water supplies. The network of dams and flood control measures have been very effective in controlling flood waters in Los Angeles County; however, a major earthquake could cause sudden failure of one of these dams resulting in major damage.

There are four dams in the Los Angeles network that could have a direct impact on the City:

Table: Dams Near City of Duarte

Name of Facility	Owner	Primary Purpose
Sawpit Reservoir	Los Angeles County Department of Public Works	Flood Control
Cogswell Dam	Los Angeles County Department of Public Works	Flood Control/Water Conservation
San Gabriel Dam	Los Angeles County Department of Public Works	Flood Control
Morris Dam	Los Angeles County Department of Public Works	Flood Control/Water Conservation

Sawpit Reservoir

The Sawpit Reservoir was constructed by the Los Angeles County Department of Public Works in 1927 in Sawpit Canyon. Sawpit Canyon drains the southern slopes of Monrovia Peak. The reservoir has a 157' crest height and it holds 10 acres of water. The Sawpit Reservoir is located 2.5 miles northeast of the City of Duarte.

Cogswell Dam

The Cogswell Dam and Reservoir is owned by the Los Angeles County Department of Public Works and is operated by the Department of Power and Water. It was completed in April of 1934 at a cost of $3.1 million. It is a rock-filled structure with a concrete cutoff wall and rises 255 feet above the original stream bottom. Used both for flood control and water conservation, Cogswell Dam is located 22 miles north of the cities of Azusa and Duarte in San Gabriel Canyon.

San Gabriel Dam

The San Gabriel Dam and Reservoir is owned by the Los Angeles County Department of Public Works. Construction of this dam began in 1932 and finished in 1939 at a cost of $17 million. It is a compacted, earth-filled and rock-filled dam with a concrete crest. San Gabriel Dam is located seven miles north of the Cities of Azusa and Duarte.

Morris Dam

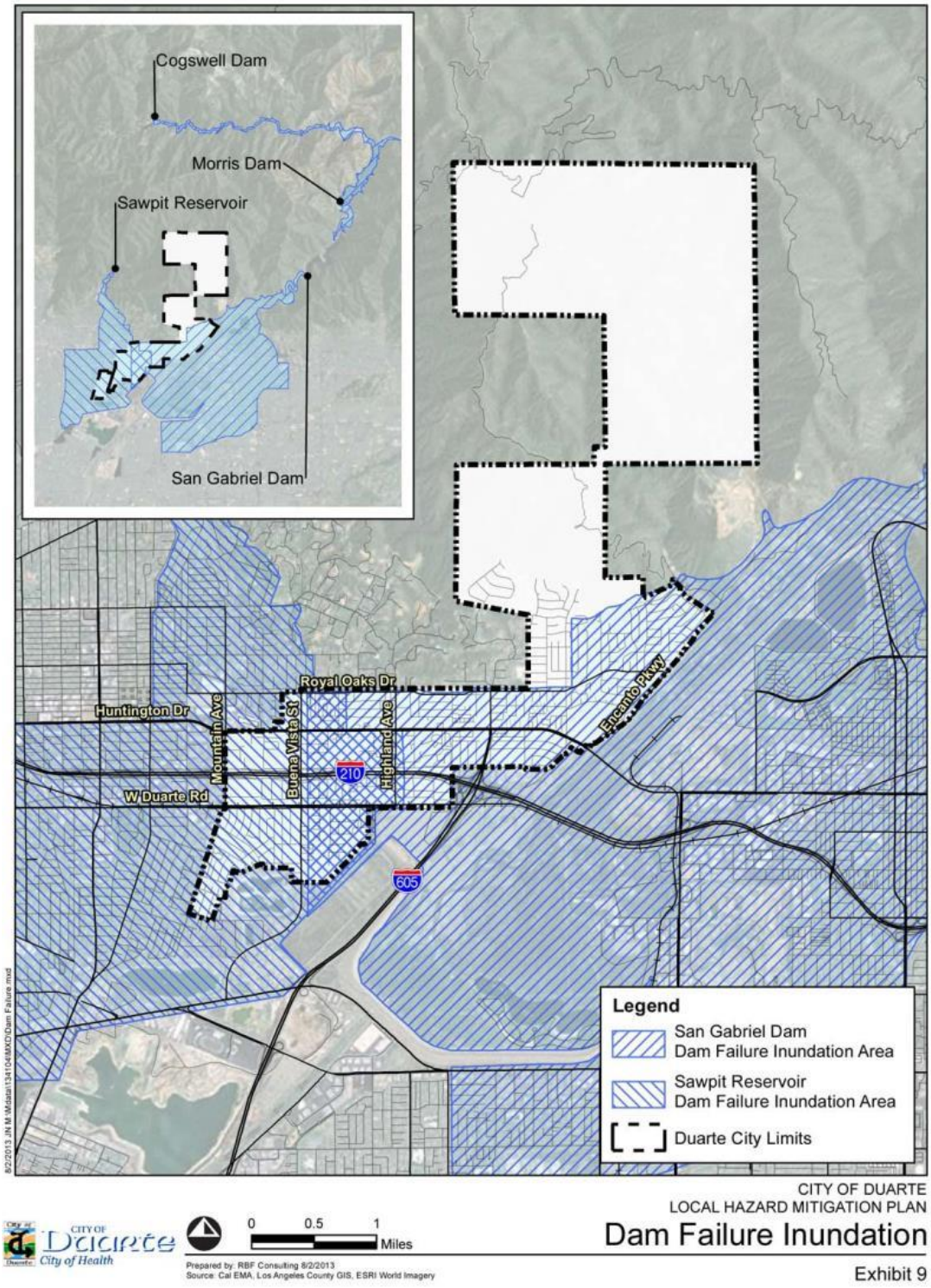
The Morris Dam and Reservoir was built by the City of Pasadena in 1934 at a cost of $7.6 million. It was later relinquished to the Metropolitan Water District (MWD) of Southern California. In 1955,

it was transferred to the Los Angeles County Department of Public Works. Morris Dam is a concrete, partially-arched gravity structure. It is 800 feet long and rises 245 feet above the original streambed. Morris Dam is located just a few miles below the San Gabriel Dam and its primary use is water conservation.

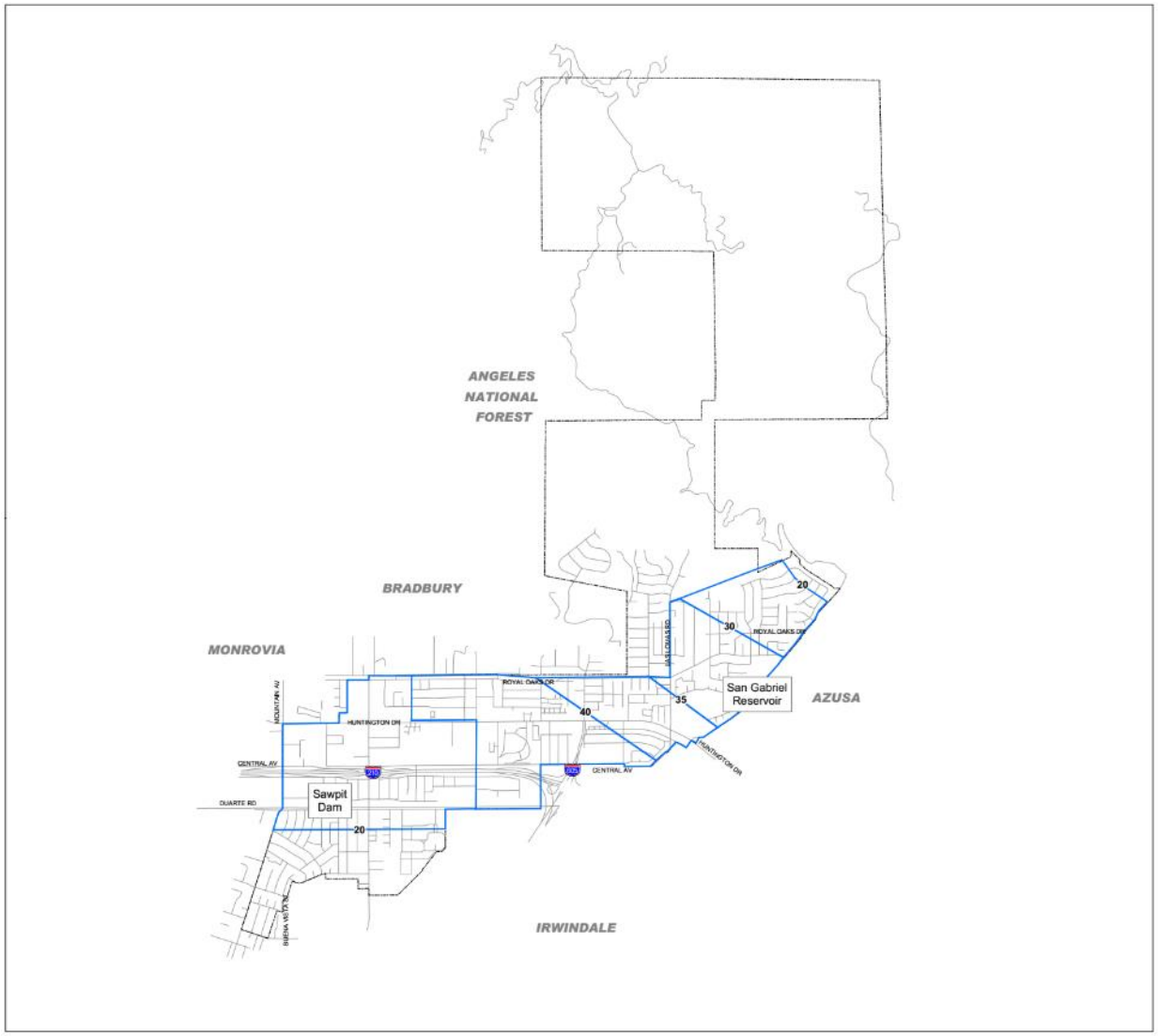
According to the City's 2014 Hazard Mitigation Plan, the entire City and all critical facilities are susceptible to dam failure, making dam failure inundation one of the City's most significant hazards and placing the greatest number of residents and structures at risk. The Dam Failure Inundation Map below shows that all of the City's critical facilities are located within dam failure inundation areas. Analysis of the dam failure inundation overlay shows that the populated area affected by dam failure is a total of 1,643 acres. A total of 18,773 residents (88.05 percent of the City's total population) would be affected in the event of a dam failure. Of these residents, 3,750 comprise the total number of employees that would be affected.

Map: Dam Failure Inundation Areas below shows the potential flood inundation areas in the event of a catastrophic dam failure at any of the aforementioned facilities.

Map: Dam Failure Inundation Areas
(Source: City of Duarte 2014 Hazard Mitigation Plan)



Map: Dam Failure Timing Scenario
(Source: City of Duarte General Plan, 2007)



City of Duarte General Plan
Building a new vision.
2020

Diagram Safe - 4

LEGEND

City Limits

35 Elapsed time in minutes from dam failure to arrival of first water

Source: City of Duarte - June 2006

NORTH

0 700 1,400 2,800 4,200 Feet

July 10, 2006

Q&A | ELEMENT B: HAZARD IDENTIFICATION AND RISK ASSESSMENT | B3a.

Q: Is there a description of each hazard's **impacts** on each jurisdiction (what happens to structures, infrastructure, people, environment, etc.)? (Requirement §201.6(c)(2)(ii))

A: See **Impact of Dam Failure in the City of Duarte** below.

Impacts of Dam Failure in the City of Duarte

Based on the risk assessment, it is evident that dam failures will continue to have potentially devastating economic impacts to certain areas of the City.

Impacts that are not quantified, but can be anticipated in future events, include:

- ✓ Injury and loss of life
- ✓ Commercial and residential structural damage
- ✓ Disruption of and damage to public infrastructure
- ✓ Secondary health hazards e.g. mold and mildew
- ✓ Damage to roads/bridges resulting in loss of mobility
- ✓ Significant economic impact (jobs, sales, tax revenue) upon the community
- ✓ Negative impact on commercial and residential property values
- ✓ Significant disruption to students and teachers as temporary facilities and relocations are needed

Windstorm Hazards

Q&A | ELEMENT B: HAZARD IDENTIFICATION AND RISK ASSESSMENT | B2a.

Q: Does the plan include information on **previous occurrences** of hazard events for each jurisdiction? (Requirement §201.6(c)(2)(i))

A: See **Previous Occurrences of Windstorms in the City of Duarte** below.

Previous Occurrences of Windstorms in the City of Duarte

According to City of Duarte, the most recent windstorm on record occurred in the winter of 2011. High winds caused about $50.3 million in damages within Los Angeles County. This amount did not meet the federal threshold for public damages and therefore, a federal disaster declaration was not warranted. However, the Duarte City Council declared a local emergency due to the effects of this windstorm. The City incurred damages of approximately $82,000.

At the windstorms peak, 440,000 customers throughout Los Angeles County lost power. Very strong gusts reached 67 mph in Saugus, 69 mph in Warm Springs, 36 mph in Santa Monica, 47 mph at Los Angeles International Airport, and 97 mph was reported at Whitaker Peak in the Angeles National Forest.

Since the writing of the 2014 Mitigation Plan, there have been no significant windstorms in the City of Duarte.





Q&A | ELEMENT B: HAZARD IDENTIFICATION AND RISK ASSESSMENT | B1a.

Q: Does the plan include a general **description** of all natural hazards that can affect each jurisdiction? (Requirement §201.6(c)(2)(i))

A: See **Local Conditions** below.

Q&A | ELEMENT B: HAZARD IDENTIFICATION AND RISK ASSESSMENT | B3b.

Q: Is there a description of each identified hazard's overall **vulnerability** (structures, systems, populations, or other community assets defined by the community that are identified as being susceptible to damage and loss from hazard events) for each jurisdiction? (Requirement §201.6(c)(2)(ii))

A: See **Local Conditions** below.

Local Conditions

Based on the 2011 windstorm, it is not difficult to assume that a future windstorm event could generate similar damage. Severe windstorms pose a significant risk to life and property in the City of Duarte by creating conditions that disrupt essential systems such as public utilities, telecommunications, and transportation routes. High winds can and do occasionally cause tornado-like damage to local homes and businesses in and near the community. High winds have destructive impact, especially to trees, power lines, and utility services.

The most common wind condition is a Santa Ana Wind. This condition has generated winds that have exceeded 100 mph. Wind velocities of up to 111 mph have been generated from the same Santa Ana wind, resulting in the loss of life due to flying debris.

The entire City and all critical facilities are susceptible to windstorm damage. A majority of windstorm damage that occurs is associated with fallen trees/tree limbs. Facilities located in close proximity to large trees may be more susceptible to windstorm damage as a result. However, it is highly unlikely that a windstorm would completely destroy any of the identified critical facilities.



Q&A | ELEMENT B: HAZARD IDENTIFICATION AND RISK ASSESSMENT | B3a.

Q: Is there a description of each hazard's **impacts** on each jurisdiction (what happens to structures, infrastructure, people, environment, etc.)? (Requirement §201.6(c)(2)(ii))

A: See **Impact of Windstorms in the City of Duarte** below.

Impacts of Windstorms in the City of Duarte

Based on the risk assessment, it is evident that Windstorms continue to have potentially devastating economic impact to certain areas of the City.

Impacts that is not quantified, but can be anticipated in future events, include:

- ✓ Injury and loss of life
- ✓ Commercial and residential structural damage
- ✓ Disruption of and damage to public infrastructure
- ✓ Secondary Health hazards e.g. mold and mildew
- ✓ Damage to roads/bridges resulting in loss of mobility
- ✓ Significant economic impact (jobs, sales, tax revenue) upon the community
- ✓ Negative impact on commercial and residential property values
- ✓ Significant disruption to students and teachers as temporary facilities and relocations would likely be needed

Hazardous Materials Hazards

Q&A | ELEMENT B: HAZARD IDENTIFICATION AND RISK ASSESSMENT | B2a.

Q: Does the plan include information on **previous occurrences** of hazard events for each jurisdiction? (Requirement §201.6(c)(2)(i))

A: See **Previous Occurrences of Hazardous Materials in the City of Duarte** below.

Previous Occurrences of Hazardous Materials in the City of Duarte

The City of Duarte has not been recently affected by a significant hazardous materials release. In 2018, the California State Warning Center received approximately 1,200 hazardous material spill reports on hazardous material incidents within Los Angeles County. Of these incidents, most are minor, but some do cause significant impacts such as injuries, evacuation, and the need for cleanup. (Source: https://www.caloes.ca.gov/for-individuals-families/hazardous-materials/spill-release-reporting)

The table below contains a list of spills documented within the City on the California Office of Emergency Services (Cal OES) Hazardous Materials Spill Report website between 2011 and the beginning of 2019. Since 1993, there have been 32 incidents documented within the City of Duarte. (Source: https://w3.calema.ca.gov/operational/malhaz.nsf/)

Date	Agency	Substance	Location
9/2/2018	Southern California Edison	Oil	1442 3rd Street
2/5/2018	California American Water	Sodium Hypochlorite	2654 Royal Oaks Dr
8/15/2015	Southern California Edison	Hydraulic Fluid	1088 Hamilton Road
8/3/2015	Edison	Sodium Hypochlorite	Not Provided
2/16/2013	Los Angeles County Public Works	Sewage	245 Vineyard Ave
6/27/2012	Los Angeles County Public Works	Sewage	Vineyard Ave & Markwood Ave
11/1/2011	Los Angeles County Public Works	Sewage	1300 Pengra Street

Q&A | ELEMENT B: HAZARD IDENTIFICATION AND RISK ASSESSMENT | B1a.

Q: Does the plan include a general **description** of all natural hazards that can affect each jurisdiction? (Requirement §201.6(c)(2)(i))

A: See **Local Conditions** below.

Q&A | ELEMENT B: HAZARD IDENTIFICATION AND RISK ASSESSMENT | B3b.

Q: Is there a description of each identified hazard's overall **vulnerability** (structures, systems, populations, or other community assets defined by the community that are identified as being susceptible to damage and loss from hazard events) for each jurisdiction? (Requirement §201.6(c)(2)(ii))

A: See **Local Conditions** below.

Local Conditions

Hazardous materials sites in the City include medical and medical research and development facilities; pharmacies; automotive-related businesses; industrial businesses; and aviation-related businesses.

Medical facilities and medical research and development facilities, such as City of Hope and Santa Teresita Campus, often must use hazardous materials, equipment and processes, including radiation, to conduct biomedical research and employ life-saving techniques. Specifically, Santa Teresita Campus is noted to have a 3,500-gallon liquid petroleum gas (LPG) above-ground tank, and City of Hope powers its emergency generators with both on-site diesel and propane fuel supplies. In addition, pharmacies must also store items considered to be hazardous in the normal course of business. A number of drug entities and pharmaceutical formulations meet the definition of hazardous waste, including such common drugs as epinephrine, nitroglycerin, warfarin, nicotine, and seven common chemotherapy agents. Pharmacies within the City include those at both the City of Hope and Santa Teresita Campus, as well as Target Pharmacy, Rite-Aid and CVS Pharmacy.

Industrial businesses generally store hazardous materials on their premises. Such facilities in the City include several automotive body shops, a pool/spa supply company, Delafield welding and pipe-fitting company, and Justice Brothers automotive chemical company. Of these industrial businesses, Justice Brothers has the greatest potential for storage and use of on-site hazardous materials. A portion of Justice Brothers campus is located in the City of Irwindale, abutting Duarte. Delafield uses acetylene and other chemicals used in the welding process.

Automotive-related businesses, such as car wash and repair facilities, generate hazardous waste in the form of used motor oil, automotive chemicals, fluorescent lamps and tubes, electronics, appliances, automotive tires and batteries. In addition, gas stations store and sell petroleum products. Automotive-related businesses located in the City include the 76 Gas Station and Car Wash, Mobil Gas Station, and Arco Gas Station.

In addition, the Rancho Duarte Golf Course located in the eastern portion of the City was formerly a landfill, redeveloped as a golf course, and is the site of a methane gas recovery system.

One concern in particular regarding hazardous materials spills is the potential for chemicals and substances to migrate into the groundwater table. The City is served by California American Water, who relies mainly on groundwater pumped from local wells for its supplies. These wells are located in the Main San Gabriel, Central and Raymond basins. The basins are large underground reservoirs that cover hundreds of square miles. Any potential contaminants entering the groundwater aquifer could impact California American Water's ability to serve its customers.

Q&A | ELEMENT B: HAZARD IDENTIFICATION AND RISK ASSESSMENT | B3a.

Q: Is there a description of each hazard's **impacts** on each jurisdiction (what happens to structures, infrastructure, people, environment, etc.)? (Requirement §201.6(c)(2)(ii))

A: See **Impact of Hazardous Materials in the City of Duarte** below.

Impact of Hazardous Materials in the City of Duarte

Based on the risk assessment, it is evident that hazardous materials will continue to have a potentially devastating economic impact to certain areas of the City.

Impact that is not quantified, but anticipated in future events includes:

- ✓ Injury and loss of life
- ✓ Commercial and residential structural damage
- ✓ Disruption of and damage to public infrastructure
- ✓ Secondary health hazards e.g. mold and mildew
- ✓ Damage to roads/bridges resulting in loss of mobility
- ✓ Significant economic impact (jobs, sales, tax revenue) upon the community
- ✓ Negative impact on commercial and residential property values
- ✓ Significant disruption to students and teachers as temporary facilities and relocations would likely be needed

PART III: MITIGATION STRATEGIES

Mitigation Strategies

Overview of Mitigation Strategy

As the cost of damage from natural disasters continues to increase nationwide, the City of Duarte recognizes the importance of identifying effective ways to reduce vulnerability to disasters. Mitigation Plans assist communities in reducing risk from natural hazards by identifying resources, information and strategies for risk reduction, while helping to guide and coordinate mitigation activities throughout the City.

The plan provides a set of action items to reduce risk from natural hazards through education and outreach programs, and to foster the development of partnerships. Further, the plan provides for the implementation of preventative activities, including programs that restrict and control development in areas subject to damage from natural hazards.

The resources and information within the Mitigation Plan:

1. Establish a basis for coordination and collaboration among agencies and the public in the City of Duarte
2. Identify and prioritize future mitigation projects
3. Assist in meeting the requirements of federal assistance programs

The Mitigation Plan is integrated with other City plans including the City of Duarte Emergency Operations Plan, General Plan as well as department-specific standard operating procedures.

Mitigation Measure Categories

Following is FEMA's list of mitigation categories. The activities identified by the Planning Team are consistent with the six broad categories of mitigation actions outlined in FEMA publication 386-3 *Developing the Mitigation Plan: Identifying Mitigation Actions and Implementing Strategies*.

- ✓ **Prevention:** Government administrative or regulatory actions or processes that influence the way land and buildings are developed and built. These actions also include public activities to reduce hazard losses. Examples include planning and zoning, building codes, capital improvement programs, open space preservation, and storm water management regulations.
- ✓ **Property Protection:** Actions that involve modification of existing buildings or structures to protect them from a hazard, or removal from the hazard area. Examples include acquisition, elevation, relocation, structural retrofits, storm shutters, and shatter-resistant glass.
- ✓ **Public Education and Awareness:** Actions to inform and educate citizens, property owners, and elected officials about hazards and potential ways to mitigate them.

  Such actions include outreach projects, real estate disclosure, hazard information centers, and school-age and adult education programs.
- ✓ **Natural Resource Protection:** Actions that, in addition to minimizing hazard losses preserve or restore the functions of natural systems. Examples include sediment and

erosion control, stream corridor restoration, watershed management, forest and vegetation management, and wetland restoration and preservation.

- ✓ **Emergency Services:** Actions that protect people and property during and immediately following a disaster or hazard event. Services include warning systems, emergency response services, and protection of critical facilities.
- ✓ **Structural Projects:** Actions that involve the construction of structures to reduce the impact of a hazard. Such structures include dams, levees, floodwalls, retaining walls, and safe rooms.

Q&A | ELEMENT C. MITIGATION STRATEGY | C3

Q: Does the Plan include goals to reduce/avoid long-term vulnerabilities to the identified hazards? (Requirement §201.6(c)(3)(i))

A: See **Goals** below.

Goals

In the 2014 Hazard Mitigation Plan, the Planning Team identified the overall goal of avoiding or reducing long-term vulnerabilities to hazards. The 2019 Planning Team agreed to maintain the overall goal as well as the five mitigation goals as identified below.

The goals are based on the risk assessment and Planning Team input and represents a long-term vision for hazard reduction or enhanced mitigation capabilities. They are compatible with community needs and goals expressed in other planning documents prepared by the City.

Each goal is supported by mitigation action items. The Planning Team developed these action items through its knowledge of the local area, risk assessment, review of past efforts, identification of mitigation activities, and qualitative analysis.

The five mitigation goals and descriptions are listed below.

FEMA defines **Goals** as general guidelines that explain what you want to achieve. They are usually broad policy-type statements, long-term, and represent global visions.

FEMA defines **Mitigation Activities** as specific actions that help you achieve your goals and objectives.

Protect Life and Property

Implement activities that assist in protecting lives by making homes, businesses, infrastructure, critical facilities, and other property more resistant to losses from natural, human-caused, and technological hazards.

Improve hazard assessment information to make recommendations for avoiding new development in high hazard areas and encouraging preventative measures for existing development in areas vulnerable to natural, human-caused, and technological hazards.

Enhance Public Awareness

Develop and implement education and outreach programs to increase public awareness of the risks associated with natural, human-caused, and technological hazards.

Provide information on tools; partnership opportunities, and funding resources to assist in implementing mitigation activities.

Preserve Natural Systems

Support management and land use planning practices with hazard mitigation to protect life.

Preserve, rehabilitate, and enhance natural systems to serve hazard mitigation functions.

The Planning Team tied the mitigation action items to the goals. See below for the **Mitigation Actions Matrix**.

How are the Mitigation Action Items Organized?

The action items are a listing of activities in which City agencies and citizens can be engaged to reduce risk. Each action item includes an estimate of the timeline for implementation.

The action items are organized within the following **Mitigation Actions Matrix**, which lists all of the multi-hazard (actions that reduce risks for more than one specific hazard) and hazard-specific action items included in the mitigation plan. Data collection and research and the public participation process resulted in the development of these action items. The Matrix includes the following information for each action item:

Funding Source

The action items can be funded through a variety of sources, possibly including operating budget/general fund, development fees, Community Development Block Grant (CDBG), Hazard Mitigation Grant Program (HMGP), other Grants, private funding, Capital Improvement Program, and other funding opportunities.

Coordinating Organization

The Mitigation Actions Matrix assigns primary responsibility for each of the action items. The hierarchies of the assignments vary – from positions to departments to committees. The primary responsibility for implementing the action items falls to the entity shown as the "Coordinating Organization". The coordinating organization is the agency with regulatory responsibility to address hazards, or that is willing and able to organize resources, find appropriate funding, or oversee activity implementation, monitoring, and evaluation. Coordinating organizations may include local, County, or regional agencies that are capable of or responsible for implementing activities and programs.

Plan Goals Addressed

The plan goals addressed by each action item are included as a way to monitor and evaluate how well the mitigation plan is achieving its goals once implementation begins.

The plan goals are organized into the following five areas:

- ✓ Protect Life and Property
- ✓ Enhance Public Awareness
- ✓ Preserve Natural Systems

Planning Mechanism

It's important that each action item be implemented. Perhaps the best way to ensure implementation is through integration with one or many of the City's existing "planning mechanisms" including the General Plan, Capital Improvement Program, General Fund and Grants. Opportunities for integration will be simple and easy in cases where the action item is already compatible with the content of the planning mechanism. As an example, if the action item calls for the creation of a floodplain ordinance and the same action is already identified in the General Plan's policies, then the General Plan will assist in implementation. On the contrary, if preparation of a floodplain ordinance is not already included in the General Plan policies then the item will need to be added during the next update to the General Plan. The General Plan was last updated in 2007 and was used as a resource throughout the Mitigation Plan. The next General Plan update will likely not take place for another 10 years.

The Capital Improvement Program (CIP), depending on the budgetary environment, is updated every 5 years. The CIP includes infrastructure projects built and owned by the City. As such, the CIP is an excellent medium for funding and implementing action items from the Mitigation Plan. The Mitigation Actions Matrix includes several items from the existing CIP. The authors of the CIP served on the Planning Team and are already looking to funding addition Mitigation Plan action items in future CIPs.

The General Fund is the budget document that guides all of the City's expenditures and is updated on an annual basis. Although primarily a funding mechanism, it also includes descriptions and details associated with tasks and projects.

Grants come from a wide variety of sources – some annually and other triggered by events like disasters. Whatever the source, the City uses the General Fund to identify successful grants as funding sources.

Building and Infrastructure

This addresses the issue of whether or not a particular action item results in the reduction of the effects of hazards on new and existing buildings and infrastructure.

Comments

The purpose of the "Comments" is to capture the notes and status of the various action items. Since Planning Team members frequently change between plan updates and annual reviews, the Comments provide a sort of history to help in tracking the progress and status of each action. Comments are expressed in terms of Completed, Revised, Deleted, New, Deferred, and Notes.

Q&A | ELEMENT C. MITIGATION STRATEGY | C5a.

Q: Does the plan explain how the mitigation actions and projects will be prioritized (including cost benefit review)? (Requirement §201.6(c)(3)(iv)); (Requirement §201.6(c)(3)(iii))

A: See **Benefit/Cost Ratings** and **Priority Rating** below.

Benefit/Cost Ratings

The benefits of proposed projects were weighed against estimated costs as part of the project prioritization process. The benefit/cost analysis was not of the detailed variety required by FEMA for project grant eligibility under the Hazard Mitigation Grant Program (HMGP) and Pre-Disaster Mitigation (PDM) grant program. A less formal approach was used because some projects may not be implemented for up to 10 years, and associated costs and benefits could change dramatically in that time. Therefore, a review of the apparent benefits versus the apparent cost of each project was performed. Parameters were established for assigning subjective ratings (high, medium, and low) to the costs and benefits of these projects.

Cost ratings were defined as follows:

High: Existing jurisdictional funding will not cover the cost of the action item so other sources of revenue would be required.

Medium: The action item could be funded through existing jurisdictional funding but would require budget modifications.

Low: The action item could be funded under existing jurisdictional funding.

Benefit ratings were defined as follows:

High: The action item will provide short-term and long-term impacts on the reduction of risk exposure to life and property.

Medium: The action item will have long-term impacts on the reduction of risk exposure to life and property.

Low: The action item will have only short-term impacts on the reduction of risk exposure to life and property.

Priority Rating

The 2014 Hazard Mitigation Plan did not identify "priorities" for mitigation action items. However, the 2019 Planning Team chose to adopt the following process for rating the "priority" of each mitigation action item. Designations of "High", "Medium", and "Low" priority have been assigned to each action item using the following criteria:

Does the Action:
- solve the problem?
- address Vulnerability Assessment?
- reduce the exposure or vulnerability to the highest priority hazard?
- address multiple hazards?
- benefits equal or exceed costs?
- implement a goal, policy, or project identified in the General Plan or Capital Improvement Plan?

Can the Action:
- be implemented with existing funds?
- be implemented by existing state or federal grant programs?
- be completed within the 5-year life cycle of the LHMP?
- be implemented with currently available technologies?

Will the Action:
- be accepted by the community?
- be supported by community leaders?
- adversely impact segments of the population or neighborhoods?
- require a change in local ordinances or zoning laws?
- positive or neutral impact on the environment?
- comply with all local, state and federal environmental laws and regulations?

Is there:
- sufficient staffing to undertake the project?
- existing authority to undertake the project?

As mitigation action items were updated or written the Planning Team, representatives were provided worksheets for each of their assigned action items. Answers to the criteria above determined the priority according to the following scale.

- 1-6 = Low priority
- 7-12 = Medium priority
- 13-18 = High priority

Q&A | ELEMENT C. MITIGATION STRATEGY | C1b.

Q: Does the plan document each jurisdiction's ability to expand on and improve these existing policies and programs? (Requirement §201.6(c)(3)) c

A: See **Mitigation Actions Matrix** below.

Q&A | ELEMENT C. MITIGATION STRATEGY | C4a.

Q: Does the plan identify and analyze a comprehensive range (different alternatives) of specific mitigation actions and projects to reduce the impacts from hazards? (Requirement §201.6(c)(3)(ii))

A: See **Mitigation Actions Matrix** below.

Q&A | ELEMENT C. MITIGATION STRATEGY | C4b.

Q: Does the plan identify mitigation actions for every hazard posing a threat to each participating jurisdiction? (Requirement §201.6(c)(3)(ii))

A: See **Mitigation Actions Matrix** below.

Q&A | ELEMENT C. MITIGATION STRATEGY | C4c.

Q: Do the identified mitigation actions and projects have an emphasis on new and existing buildings and infrastructure? (Requirement §201.6(c)(3)(ii))

A: See **Mitigation Actions Matrix** below.

Q&A | ELEMENT C. MITIGATION STRATEGY | C5a.

Q: Does the plan explain how the mitigation actions and projects will be prioritized (including cost benefit review)? (Requirement §201.6(c)(3)(iv)); (Requirement §201.6(c)(3)(iii))

A: See **Mitigation Actions Matrix** below.

Q&A | ELEMENT C. MITIGATION STRATEGY | C5b.

Q: Does the plan identify the position, office, department, or agency responsible for implementing and administering the action/project, potential funding sources and expected timeframes for completion? (Requirement §201.6(c)(3)(iv)); (Requirement §201.6(c)(3)(iii))

A: See **Mitigation Actions Matrix** below.

Q&A | ELEMENT D. MITIGATION STRATEGY | D1

Q: Was the plan revised to reflect changes in development? (Requirement §201.6(d)(3))

A: See **Mitigation Actions Matrix** below.

Q&A | ELEMENT D. MITIGATION STRATEGY | D2

Q: Was the plan revised to reflect progress in local mitigation efforts? (Requirement §201.6(d)(3))

A: See **Mitigation Actions Matrix** below.

Q&A | ELEMENT D. MITIGATION STRATEGY | D3

Q: Was the plan revised to reflect changes in priorities? (Requirement §201.6(d)(3))

A: See **Mitigation Actions Matrix** below.

Mitigation Actions Matrix

Following is **Table: Mitigation Actions Matrix** which identifies the existing and future mitigation activities developed by the Planning Team.

Table: Mitigation Actions Matrix

Mitigation Action Item	Coordinating Department	Timeline	Goal: Protect Life and Property	Goal: Public Awareness	Goal: Natural Systems	Goal: Minimize Risk	Funding Source: GF-General Fund, GR-Grant, U-Utilities	Planning Mechanism: GP-General Plan, CIP, GF-General Fund, GR – Grant, MC – Municipal Code, GF – General Fund	Buildings & Infrastructure: Does the Action Item impact New and/or Existing Buildings and/or Infrastructure? Yes (Y)	Priority L-Low, M-Medium, H-High	Benefit: L-Low, M-Medium, H-High	Cost: L-Low, M-Medium, H-High	2020 Comments and Status – C-Completed, R-Revised, D-Deleted, N-New, P- Postponed, and Notes
Earthquake and Liquefaction													
EQLQ-1A Continue to adopt and enforce the most up-to-date California Building Code and California Fire Code with local amendments and continue to support the training of City staff in the provisions of the latest codes, to provide for seismic safety and fire safety design.	Community Development Department: Planning and Building Divisions, LACoFD	Ongoing	X	X		X	GF	MC	Y	H	H	L	Revised
EQLQ-1B Regulate the location of new essential or critical facilities in areas that would be directly affected by seismic and geologic hazards (including surface fault rupture, liquefaction, and slope instability) to ensure the facility will not be located in	Community Development Department: Planning and Building Divisions	Ongoing	X	X		X	GF	MC	Y	H	H	L	Revised

Mitigation Action Item	Coordinating Department	Timeline	Goal: Protect Life and Property	Goal: Public Awareness	Goal: Natural Systems	Goal: Minimize Risk	Funding Source: GF-General Fund, GR-Grant, U-Utilities	Planning Mechanism: GP-General Plan, CIP, GF-General Fund, GR – Grant, MC – Municipal Code, GF – General Fund	Buildings & Infrastructure: Does the Action Item impact New and/or Existing Buildings and/or Infrastructure? Yes (Y)	Priority L-Low, M-Medium, H-High	Benefit: L-Low, M-Medium, H-High	Cost: L-Low, M-Medium, H-High	2020 Comments and Status – C-Completed, R-Revised, D-Deleted, N-New, P- Postponed, and Notes
an area identified as susceptible to damage from a natural hazard.													
EQLQ-1C Continue to require fault rupture hazard assessment studies for qualifying projects proposed in the Alquist-Priolo Earthquake Fault Zones and Fault Hazard Management Zones mapped through the City.	Community Development Department: Planning and Building Divisions	Ongoing	X	X		X	GF	MC	Y	H	H	L	Revised
EQLQ-1D Continue to require liquefaction assessment studies for qualifying projects proposed in areas of the City mapped as susceptible to liquefaction, and in areas where geotechnical testing shows the sediments are susceptible to liquefaction, require the implementation of mitigation measures as a condition of approval.	Community Development Department: Planning and Building Divisions	Ongoing	X	X		X	GF	MC	Y	H	H	L	Revised
EQLQ-1E Develop and make available to all residents and businesses literature on hazard prevention and disaster response, including information on how to earthquake-proof residences and places of business, and information on what to	Public Safety Department	Ongoing	X	X		X	GF	GF	Y	H	H	L	Revised

Mitigation Action Item	Coordinating Department	Timeline	Goal: Protect Life and Property	Goal: Public Awareness	Goal: Natural Systems	Goal: Minimize Risk	Funding Source: GF-General Fund, GR-Grant, U-Utilities	Planning Mechanism: GP-General Plan, CIP, GF-General Fund, GR – Grant, MC – Municipal Code, GF – General Fund	Buildings & Infrastructure: Does the Action Item impact New and/or Existing Buildings and/or Infrastructure? Yes (Y)	Priority L-Low, M-Medium, H-High	Benefit: L-Low, M-Medium, H-High	Cost: L-Low, M-Medium, H-High	2020 Comments and Status – C-Completed, R-Revised, D-Deleted, N-New, P- Postponed, and Notes
do before, during and after an earthquake. Reminders will be issued periodically to encourage the review and renewal of earthquake-preparedness kits and other emergency preparedness materials and procedures.													
EQLQ-2 Create inventory of potentially hazardous buildings, including pre-1952 wood-frame structures, concrete tilt-ups, pre-1971 reinforced masonry, soft-story, and multi-family residential buildings, to assess the seismic vulnerability of their structures and conduct seismic retrofitting as necessary to improve the building's resistance to seismic shaking.	Community Development Department	1-5 years	X	X		X	GF	GF	Y	H	H	M	Revised
EQLQ-3 Encourage the evaluation of the above-ground water storage tanks in the City to assess their potential inundation hazard in the event of catastrophic failure and ensure that all tanks are fitted with the appropriate seismic safeguards, including shut-off valves, in accordance	Community Development Department: Public Works Division; Cal-American Water	1-5 years	X			X	U	GF	Y	H	H	L	Revised

Mitigation Action Item	Coordinating Department	Timeline	Goal: Protect Life and Property	Goal: Public Awareness	Goal: Natural Systems	Goal: Minimize Risk	Funding Source: GF-General Fund, GR-Grant, U-Utilities	Planning Mechanism: GP-General Plan, CIP, GF-General Fund, GR – Grant, MC – Municipal Code, GF – General Fund	Buildings & Infrastructure: Does the Action Item impact New and/or Existing Buildings and/or Infrastructure? Yes (Y)	Priority L-Low, M-Medium, H-High	Benefit: L-Low, M-Medium, H-High	Cost: L-Low, M-Medium, H-High	2020 Comments and Status – C-Completed, R-Revised, D-Deleted, N-New, P- Postponed, and Notes
with the most recent water tank design guidelines.													
EQLQ-4 Conduct a seismic evaluation of City-owned essential and critical facilities that are located in or near mapped faults or in areas mapped as susceptible to liquefaction or earthquake-induced slope instability.	Community Development Department	1-5 years	X	X		X	GR	GR	Y	H	H	M	Revised
EQLQ-5 Where appropriate, relocate, strengthen, or retrofit those City-owned essential and critical facilities found to be at risk from seismic hazards.	Community Development Department	1-5 years	X	X		X	GR	GR	Y	M	H	H	Revised
Wildfire													
WLD-1 Ensure City equipment is up to date and maintained to supplement the Los Angeles County Fire Department efforts (including City water trucks, City trucks, and tools), especially during red flag warning days.	Community Development Department: Public Works and Field Services Divisions, LACoFD	Ongoing	X	X		X	GR	GR	N	L	H	M	Revised
WLD-2 Ensure that there are an appropriate number of generators for emergency power, and compatibility with LACoFD supply.	Community Development Department - Public	Ongoing	X	X		X	GR	GR	N	L	H	M	Revised

Mitigation Action Item	Coordinating Department	Timeline	Goal: Protect Life and Property	Goal: Public Awareness	Goal: Natural Systems	Goal: Minimize Risk	Funding Source: GF-General Fund, GR-Grant, U-Utilities	Planning Mechanism: GP-General Plan, CIP, GF-General Fund, GR – Grant, MC – Municipal Code, GF – General Fund	Buildings & Infrastructure: Does the Action Item impact New and/or Existing Buildings and/or Infrastructure? Yes (Y)	Priority L-Low, M-Medium, H-High	Benefit: L-Low, M-Medium, H-High	Cost: L-Low, M-Medium, H-High	2020 Comments and Status – C-Completed, R-Revised, D-Deleted, N-New, P- Postponed, and Notes
Specifically, these generators will be used to provide back-up power systems in the event of an electrical power failure in order to pump water supply into water tanks for fire suppression.	Works and Field Services Divisions; LACoFD												
WLD-3 Continue fire inspections and brush clearance programs sponsored by the Los Angeles County Fire Department and LA County Agricultural Commission.	Community Development Department, LACoFD	Ongoing	X	X		X	GF	GF	Y	H	H	L	Revised
WLD-4 Continue to enforce development standards and distribute zoning handouts to property owners and contractors that describe the fire prevention measures contained within the Hillside Overlay Zone including unobstructed fire protection equipment access easements, Class A roof materials, fire hydrant locations, and water main minimum requirements.	Community Development Department: Planning, Public Works Divisions; LACoFD	Ongoing	X	X	X	X	GF	GF	Y	M	H	L	Revised
WLD-5 Update the development standards of the Hillside Development Standards with new fire prevention measures as needed to	Community Development Department: Planning, Public	Ongoing	X		X	X	GR	GF	Y	M	M	L	Revised

Mitigation Action Item	Coordinating Department	Timeline	Goal: Protect Life and Property	Goal: Public Awareness	Goal: Natural Systems	Goal: Minimize Risk	Funding Source: GF-General Fund, GR-Grant, U-Utilities	Planning Mechanism: GP-General Plan, CIP, GF-General Fund, GR – Grant, MC – Municipal Code, GF – General Fund	Buildings & Infrastructure: Does the Action Item impact New and/or Existing Buildings and/or Infrastructure? Yes (Y)	Priority L-Low, M-Medium, H-High	Benefit: L-Low, M-Medium, H-High	Cost: L-Low, M-Medium, H-High	2020 Comments and Status – C-Completed, R-Revised, D-Deleted, N-New, P- Postponed, and Notes
address the construction of new buildings and infrastructure.	Works Divisions; LACoFD												
WLD-6 Update the public on vegetative and fire management activities via communication mechanisms in Duarte such as temporary signs at affected properties; the City web sites; newspapers; and direct mailings.	Community Development Department: Public Works Division; City Manager's Office; LACoFD	Ongoing	X	X	X	X	GF	GF	Y	L	M	L	Revised
WLD-7 Distribute public information brochures that encourage residents to plant fire resistant landscaping, to clear dry brush, and to consider fire-resistant building materials.	Community Development Department: Planning, Building, Safety Divisions; LASD; LACoFD	Ongoing	X	X	X	X	GF	GF	Y	L	M	L	Revised
WLD-8 Publish fire prevention articles in City newsletter related to fire evacuation, fire escape plans, and fire safety.	Community Development: Planning, Public Works, and Building and Safety Divisions	Ongoing	X	X		X	GF	GF	Y	M	H	L	Revised
WLD-9 Build a community message board to be placed in a strategic location in the City to alert the public to wildfire hazards	Community Development Department	Completed	X	X		X	GR	GR	Y	L	L	M	Revised

Mitigation Action Item	Coordinating Department	Timeline	Goal: Protect Life and Property	Goal: Public Awareness	Goal: Natural Systems	Goal: Minimize Risk	Funding Source: GF-General Fund, GR-Grant, U-Utilities	Planning Mechanism: GP-General Plan, CIP, GF-General Fund, GR – Grant, MC – Municipal Code, GF – General Fund	Buildings & Infrastructure: Does the Action Item impact New and/or Existing Buildings and/or Infrastructure? Yes (Y)	Priority L-Low, M-Medium, H-High	Benefit: L-Low, M-Medium, H-High	Cost: L-Low, M-Medium, H-High	2020 Comments and Status – C-Completed, R-Revised, D-Deleted, N-New, P- Postponed, and Notes
and provide the community information related to hazards.													
WLD-10 Explore funding sources and advocate with Cal-American Water Company to install fire-resistant electrical pump systems or to install back-up power generators at each water tank to ensure adequate fire suppression.	Community Development Department: Public Works Division; LASD; LACoFD	1-5 years	X			X	GR, U	GP	Y	L	M	M	Revised
WLD-11 Seek funding for replacement and/or retrofit of rain cannons for Wildland urban Interface areas throughout the City.	Public Safety Department; Community Development Department; City Manager's Office	1-5 years	X		X	X	GR, U	GP	Y	L	M	M	Revised
WLD-12 Use information from different sources such as field evaluations, aerial maps and photography, and public feedback to continually evaluate vegetative health and develop recommendations for the Fish Fire Impact Area.	Public Safety Department; Community Development Department; LACoFD	7/2021	X	X	X	X	GF	GF	Y	M	L	M	Revised

Mitigation Action Item	Coordinating Department	Timeline	Goal: Protect Life and Property	Goal: Public Awareness	Goal: Natural Systems	Goal: Minimize Risk	Funding Source: GF-General Fund, GR-Grant, U-Utilities	Planning Mechanism: GP-General Plan, CIP, GF-General Fund, GR – Grant, MC – Municipal Code, GF – General Fund	Buildings & Infrastructure: Does the Action Item impact New and/or Existing Buildings and/or Infrastructure? Yes (Y)	Priority L-Low, M-Medium, H-High	Benefit: L-Low, M-Medium, H-High	Cost: L-Low, M-Medium, H-High	2020 Comments and Status – C-Completed, R-Revised, D-Deleted, N-New, P- Postponed, and Notes
WLD-13 Monitor and evaluate outbreaks on a continual basis due to the dynamic nature of insects and disease.	Public Safety Department; LACoFD	Ongoing	X	X		X	GF	GF	Y	L	L	L	Revised
WLD-14 Develop a brush clearance plan that addresses fuel modification/reduction on annual schedule for public-owned parcels. The schedule will remain flexible to meet staff workload and funding options, management objectives, neighborhood groups and other strategic inputs. Work with neighborhood groups who have demonstrated a commitment to hazardous fuels reduction and those neighborhoods who would benefit from a demonstration site where one has been proposed.	Community Development Department: Public Works Division; LACoFD	Ongoing	X	X	X	X	GR, GF	GF		M	M	L	Revised
WLD-15 A brush clearance and fuel modification/reduction plan will identify a schedule for completion for maintenance of City-owned properties identified as needing a management plan. Work collaboratively with state and federal agencies to plan, prepare, and implement fuel treatment	Community Development Department	10/2020	X		X	X	GF	GF		H	M	M	Revised

Mitigation Action Item	Coordinating Department	Timeline	Goal: Protect Life and Property	Goal: Public Awareness	Goal: Natural Systems	Goal: Minimize Risk	Funding Source: GF-General Fund, GR-Grant, U-Utilities	Planning Mechanism: GP-General Plan, CIP, GF-General Fund, GR – Grant, MC – Municipal Code, GF – General Fund	Buildings & Infrastructure: Does the Action Item impact New and/or Existing Buildings and/or Infrastructure? Yes (Y)	Priority L-Low, M-Medium, H-High	Benefit: L-Low, M-Medium, H-High	Cost: L-Low, M-Medium, H-High	2020 Comments and Status – C-Completed, R-Revised, D-Deleted, N-New, P- Postponed, and Notes
options for the landscape, particularly as funding and cooperative opportunities become available for these items.													
WLD-16 Annually reevaluate evacuation resources and update the evacuation plan.	Public Safety Department; Community Development Department; LACoFD	Annually	X	X		X	GF	GF, GR	Y	L	M	L	Revised
WLD-17 Use social media and a cell phone registration service to help notify residents of emergency events requiring evacuation.	City Manager's Office	Ongoing	X	X		X	GF	GF	Y	L	M	L	Revised
WLD-18 Require all existing roofs in Very High Fire Hazard areas to only be replaced by roofing as required by Fire and Building Codes.	Community Development Department: Building and Safety Division	Ongoing	X	X		X	GF	GF	Y	M	H	L	Revised
WLD-19 Require vacant parcel inspections for weeds and other vegetation, insect, and disease issues.	Community Development Department: Field Services Division; LACoFD; Public	Annually			X	X	GF	GF		M	M	L	Revised

Mitigation Action Item	Coordinating Department	Timeline	Goal: Protect Life and Property	Goal: Public Awareness	Goal: Natural Systems	Goal: Minimize Risk	Funding Source: GF-General Fund, GR-Grant, U-Utilities	Planning Mechanism: GP-General Plan, CIP, GF-General Fund, GR – Grant, MC – Municipal Code, GF – General Fund	Buildings & Infrastructure: Does the Action Item impact New and/or Existing Buildings and/or Infrastructure? Yes (Y)	Priority L-Low, M-Medium, H-High	Benefit: L-Low, M-Medium, H-High	Cost: L-Low, M-Medium, H-High	2020 Comments and Status – C-Completed, R-Revised, D-Deleted, N-New, P- Postponed, and Notes
	Safety; Los Angeles County Department of Agriculture												
WLD-20 Require property owners to remove wood piles, fast burning vegetation, and other fuel sources from the perimeter of residences.	Public Safety Department; LACoFD	Annually	X	X		X	GF	GF		M	H	L	Revised
Windstorm													
WND-1 Continue to send requests for tree trimming in the City to Southern California Edison (SCE) for trees located in close proximity to overhead power lines.	Community Development Department: Public Works	Ongoing	X		X	X	GF	GF	Y	H	M	L	Revised
WND-2 Seek funding for tree-trimming contractor to provide proactive pruning and trimming services prior to wind events.	Field Services	1-5 years	X		X	X	GR, GF	GR, GF		M	H	M	New
WND-3 Concrete repair to hardscape caused by wind event.	Field Services; Public Works	As needed	X			X	GR, GF	GR, GF	Y	M	M	M	New
Hazardous Materials													
HZMT-1 Coordinate with the Los Angeles County Department of Environmental Health Services, on enforcement of State and local	Public Safety Department; Community	Ongoing	X			X	GF	GF	Y	L	L	L	Revised

Mitigation Action Item	Coordinating Department	Timeline	Goal: Protect Life and Property	Goal: Public Awareness	Goal: Natural Systems	Goal: Minimize Risk	Funding Source: GF-General Fund, GR-Grant, U-Utilities	Planning Mechanism: GP-General Plan, CIP, GF-General Fund, GR – Grant, MC – Municipal Code, GF – General Fund	Buildings & Infrastructure: Does the Action Item impact New and/or Existing Buildings and/or Infrastructure? Yes (Y)	Priority L-Low, M-Medium, H-High	Benefit: L-Low, M-Medium, H-High	Cost: L-Low, M-Medium, H-High	2020 Comments and Status – C-Completed, R-Revised, D-Deleted, N-New, P- Postponed, and Notes
statutes and regulations pertaining to hazardous materials/waste storage, use, and disposal.	Development Department: Public Works Division; LACoFD; LASD												
HZMT-2 Support staff training and education requirements regarding emergency response procedures associated with transportation-based hazardous materials releases.	Public Safety Department; Community Development Department: Public Works Division; LACoFD; LASD	Ongoing	X		X	X	GF	GF	Y	L	H	L	Revised
Land Subsidence													
LS-1 Evaluate the stability of the roadways surrounding the Rancho Duarte Golf Course to ensure that they meet current engineering standards and are constructed with an adequate factor of safety to provide emergency access/evacuation during a disaster event.	Community Development Department: Public Works Division; LACoFD; LASD	Ongoing	X			X	GR, GF	GR	Y	L	M	M	Revised
LS-2 Fund and conduct repairs based on evaluation results from LS-1.	Community Development Department: Public	1-5 years	X			X	GR, GF	GR	Y	L	M	M	New

Mitigation Action Item	Coordinating Department	Timeline	Goal: Protect Life and Property	Goal: Public Awareness	Goal: Natural Systems	Goal: Minimize Risk	Funding Source: GF-General Fund, GR-Grant, U-Utilities	Planning Mechanism: GP-General Plan, CIP, GF-General Fund, GR – Grant, MC – Municipal Code, GF – General Fund	Buildings & Infrastructure: Does the Action Item impact New and/or Existing Buildings and/or Infrastructure? Yes (Y)	Priority L-Low, M-Medium, H-High	Benefit: L-Low, M-Medium, H-High	Cost: L-Low, M-Medium, H-High	2020 Comments and Status – C-Completed, R-Revised, D-Deleted, N-New, P- Postponed, and Notes
	Works Division; LACoFD; LASD												
LS-3 Seek funding to construct a methane collection system at the former landfill site.	Community Development Department: Public Works Division; LACoFD; LASD	1-5 years	X			X	GR, GF	GR	Y	L	M	M	New
Landslide													
LM-1 Continue to require that geologic/engineering reports be prepared for any proposed construction near landslide subsidence area and require mitigation of landslide hazards before issuing any building or grading permits, in accordance with the seismic guidelines provided in the City's *Seismic Hazards Report* (July 2013).	Community Development Department: Building and Safety, Public Works Divisions	Ongoing	X	X	X	X	GF	GF	Y	M	M	L	Revised
LM-2 Improve mapping capabilities in order to allow City, developers, and residents to make better decisions. Soil types, slope percentage, drainage, or other critical factors are used to identify landslide prone areas.	Community Development Department: Public Works and Planning Divisions	Ongoing	X	X		X	GR	GR	Y	L	M	M	New

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Dam Failure													
DAM-1 Prepare a Dam Failure evacuation plan that can be incorporated into the City's Emergency Operations Plan.	Public Safety Department; LACoFD	1 year	X			X	GR, GF	GF, GR		L	M	L	Revised
DAM-2 Acquire Dam Inundation Maps from Cal OES.	Public Safety Department	1 year	X	X	X	X	GF	GF		H	H	L	New
Flood													
FLD-1 Continually monitor and review FEMA's National Flood Insurance Program (NFIP) requirements to ensure that Title 16.40, Floodplain Management Regulations, of the City's Municipal Code is in compliance. Participate in the FEMA NFIP Community Rating System (CRS).	Community Development Department: Public Works Division	Ongoing	X	X		X	GF	GF		L	M	L	Revised
FLD-2 Work in coordination with the Los Angeles County Flood Control District to develop and disseminate public education materials on flood protection and mitigation by working collaboratively with community groups, non-governmental organizations and the local media.	Community Development Department	Ongoing	X	X		X	GF	GF	Y	M	L	L	Revised

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FLD-3 Review and update Title 16.40, Floodplain Management Regulations, of the City's Municipal Code as it relates to storm/flooding hazards, consistent with the risks identified in this LHMP.	Community Development Department	1-5 years	X		X	X	GR, GF	GP	Y	L	M	L	Revised
FLD-4 Utilize land acquisition in situations where land with structures could be purchased by and titled in the name of the City. The City would then remove structures and enforce permanent restrictions on development.	Community Development Department: Public Works Division	1-3 years	X			X	GR	GR	Y	H	L	H	New
FLD-5 Review and update Zoning Ordinance to ensure utilization of methods that mitigate against flooding including: 1) adopting ordinances that limit development in the floodplain; 2) limiting the density of developments in the floodplain; and 3) requiring that floodplains be kept as open space.	Community Development Department	5 years	X			X	GR	GR	Y	M	M	M	New
FLD-6 Conduct review of existing storm drain system. Flood mitigation can involve installing, re-routing, or increasing the	Community Development Department	5 years	X			X	GR	GR	Y	M	L	M	New

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capacity of a storm drainage system that may involve detention and retention ponds, drainage easements, or creeks and streams. It can include separation of storm and sanitary sewerage systems as well as higher engineering standards for drain and sewer capacity.													
FLD-7 Consider drainage easements for planned and regulated public use of privately-owned land for temporary water retention and drainage.	Community Development Department	5 years	X			X	GR	GR	Y	M	L	M	New
FLD-8 Properly designed and maintained roads are needed to get people and goods from place to place. In addition to planning for traffic control during floods, there are various construction and placement factors to consider when building roads. To maintain dry access, roads should be elevated above the base flood elevation. However, if a road creates a barrier it can cause water to pond. Where ponding is problematic, drainage and flow may be	Community Development Department	5 years	X			X	GR	GR	Y	M	M	M	New

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addressed by making changes to culvert size and placement. In situations where flood waters tend to wash roads out, construction, reconstruction, or repair can include not only attention to drainage but also stabilization or armoring of vulnerable shoulders or embankments.													
FLD-9 Structural flood control measures (e.g., levees, dams, or floodwalls) should be examined as means to channel water away from people and property. Structural measures may also increase drainage or absorption capacities (e.g., detention and retention basins, relief drains, spillways, drain widening/dredging or rerouting, logjam and debris removal, extra culverts, bridge modification, dike setbacks, flood gates and pumps, or channel redirection). However, structural measures may cause an increase in the base flood elevation. History has shown that structures that channel water may create a false sense of security and	Community Development Department	10 years	X			X	GR	GR	Y	M	L	L	New

Mitigation Action Item	Coordinating Department	Timeline	Goal: Protect Life and Property	Goal: Public Awareness	Goal: Natural Systems	Goal: Minimize Risk	Funding Source: GF-General Fund, GR-Grant, U-Utilities	Planning Mechanism: GP-General Plan, CIP, GF-General Fund, GR – Grant, MC – Municipal Code, GF – General Fund	Buildings & Infrastructure: Does the Action Item impact New and/or Existing Buildings and/or Infrastructure? Yes (Y)	Priority L-Low, M-Medium, H-High	Benefit: L-Low, M-Medium, H-High	Cost: L-Low, M-Medium, H-High	2020 Comments and Status – C-Completed, R-Revised, D-Deleted, N-New, P- Postponed, and Notes
result in greater damage to nearby properties if the structures fail.													
FLD-10 Consider back-up generators for pumping and lift stations in sanitary sewer systems, along with other measures (e.g., alarms, meters, remote controls, and switchgear upgrades).	Community Development Department	5 years	X			X	GR	GR	Y	H	L	M	New
FLD-11 Dry well installation plan or storm water drain extension of areas considered at risk due to urban flooding: 1) Huntington Drive – north side, with Buena Vista; 2) Encanto Parkway- north of Huntington; 3) Encanto Parkway near Fish Canyon; 4) Central Avenue – northside, east of Santo Domingo; 5) Buena Vista Street – east side, south of Galen Street; 6) Vineyard Avenue south of Royal Oaks.	Community Development Department / Public Works	5 years	X		X	X	GR, GF	GR, GF	Y	M	M	M	New
Multi-Hazard													
MH-1 Coordinate hazard mitigation progress/efforts with the Los Angeles County Office of Emergency Management	Public Safety Department; Community Development	Ongoing	X		X	X	GF	GF	Y	M	L	L	Revised

Mitigation Action Item	Coordinating Department	Timeline	Goal: Protect Life and Property	Goal: Public Awareness	Goal: Natural Systems	Goal: Minimize Risk	Funding Source: GF-General Fund, GR-Grant, U-Utilities	Planning Mechanism: GP-General Plan, CIP, GF-General Fund, GR – Grant, MC – Municipal Code, GF – General Fund	Buildings & Infrastructure: Does the Action Item impact New and/or Existing Buildings and/or Infrastructure? Yes (Y)	Priority L-Low, M-Medium, H-High	Benefit: L-Low, M-Medium, H-High	Cost: L-Low, M-Medium, H-High	2020 Comments and Status – C-Completed, R-Revised, D-Deleted, N-New, P- Postponed, and Notes
and other agencies and cities within Los Angeles County.	Department; LACoFD; LASD; City Manager's Office												
MH-2 Continue to work with Los Angeles 911 and other relevant agencies to maintain a coordinated and effective emergency communication system.	Public Safety Department; Community Development Department; LACoFD; LASD	Ongoing	X		X	X	GF	GF	Y	M	M	L	Revised
MH-3 Continue to update and enhance mapping data and the City's GIS for all hazards.	Community Development Department	Ongoing	X		X	X	GF	GF	Y	M	L	L	Revised
MH-4 Work with the appropriate cellular phone service providers to ensure there is always adequate cellular services to critical facilities within the City and that a contingency plan is available to provide cellular services to City and Public Safety personnel during emergencies.	Public Safety Department; Community Development Department	Ongoing	X		X	X	GF	GF	Y	M	M	L	Revised

Mitigation Action Item	Coordinating Department	Timeline	Goal: Protect Life and Property	Goal: Public Awareness	Goal: Natural Systems	Goal: Minimize Risk	Funding Source: GF-General Fund, GR-Grant, U-Utilities	Planning Mechanism: GP-General Plan, CIP, GF-General Fund, GR – Grant, MC – Municipal Code, GF – General Fund	Buildings & Infrastructure: Does the Action Item impact New and/or Existing Buildings and/or Infrastructure? Yes (Y)	Priority L-Low, M-Medium, H-High	Benefit: L-Low, M-Medium, H-High	Cost: L-Low, M-Medium, H-High	2020 Comments and Status – C-Completed, R-Revised, D-Deleted, N-New, P- Postponed, and Notes
MH-5 Review and update the city's existing ordinances as they relate to hazards and risks identified in this LHMP.	Community Development Department	Ongoing	X	X		X	GF	GF		L	H	M	Revised
MH-6 Replace generator for EOC and Civic Center Complex.	Parks & Recreation Department	2022	X			X	GR	GR	Y	M	H	L	New
MH-7 Update Emergency Operations Plan.	Public Safety Department	2021	X	X	X	X	GF, GR	GF, GR		L	M	M	New
MH-8 Continue to encourage CERT participation through LACoFD, including funding for training and equipment.	Public Safety Department	Ongoing	X	X		X	GR	GR		M	M	M	New
MH-9 Emergency response personnel need to be trained for various contingencies and response activities, such as evacuation, traffic control, search and rescue.	Public Safety Department	Ongoing	X	X		X	GR	GR		H	M	H	New

Plan Maintenance

The plan maintenance process includes a schedule for monitoring and evaluating the Plan annually and producing a plan update every five years. This section describes how the City will integrate public participation throughout the plan maintenance process.

Q&A | ELEMENT A: PLANNING PROCESS | A6a.

Q: Does the plan identify how, when, and by whom the plan will be **monitored** (how will implementation be tracked) over time? (Requirement §201.6(c)(4)(i))

A: See **Method and Scheduling of Plan Implementation** below.

Method and Scheduling of Plan Implementation

The Planning Team that was involved in research and writing of the Plan will also be responsible for implementation. The Planning Team will be led by the Chair of the Planning Team (Jason Golding – Community Development Department – Planning Manager) who will be referred to as the Local Mitigation Officer.

	Year 1	Year 2	Year 3	Year 4	Year 5
Monitoring	X	X	X	X	X
Evaluating					X
Internal Planning Team Evaluation	X	X	X	X	X
Cal OES and FEMA Evaluation					X
Updating					X

Monitoring and Implementing the Plan

Plan Adoption

The City Council will be responsible for adopting the Mitigation Plan. This governing body has the authority to promote sound public policy regarding hazards. Once the plan has been adopted, the Local Mitigation Officer will be responsible for submitting it to the State Hazard Mitigation Officer at California Office of Emergency Services (Cal OES). Cal OES will then submit the plan to the Federal Emergency Management Agency (FEMA) for review and approval. This review will address the requirements set forth in 44 C.F.R. Section 201.6 (Local Mitigation Plans). Upon acceptance by FEMA, City of Duarte will gain eligibility for Hazard Mitigation Grant Program funds.

Local Mitigation Officer

Under the direction of the Local Mitigation Officer, the Planning Team will take responsibility for plan maintenance and implementation. The Local Mitigation Officer will facilitate the Planning Team meetings and will assign tasks such as updating and presenting the Plan to the members of the Planning Team. Plan implementation and evaluation will be a shared responsibility among all of the Planning Team members. The Local Mitigation Officer will coordinate with City leadership to ensure funding and support for 5-year updates to Plan as required by FEMA.

The Planning Team will be responsible for coordinating implementation of plan action items and undertaking the formal review process. The Local Mitigation Officer will be authorized to make changes in assignments to the current Planning Team.

The Planning Team will meet no less than annually to review the status of the mitigation action items. Meeting dates will be scheduled once the final Planning Team has been established. These meetings will provide an opportunity to discuss the progress of the action items and maintain the partnerships that are essential for the sustainability of the mitigation plan.

Q&A | ELEMENT C. MITIGATION STRATEGY | C6a.

Q: Does the plan identify the local planning mechanisms where hazard mitigation information and/or actions may be incorporated? (Requirement §201.6(c)(4)(ii))

A: See **Implementation through Existing Program** below.

Implementation through Existing Programs

The City of Duarte addresses statewide planning goals and legislative requirements through its General Plan, its Capital Improvement Program, and the State's Building and Safety Codes. The Mitigation Plan provides a series of recommendations - many of which are closely related to the goals and objectives of existing planning programs. The City of Duarte will incorporate hazard information and implement recommended mitigation action items through existing programs and procedures.

The City of Duarte Community Development Department is responsible for adhering to the State of California's Building and Safety Codes. In addition, the Planning Team will work with other agencies at the state level to review, develop and ensure the adopted Building and Safety Codes are adequate to mitigate or present damage by hazards. This is to ensure that life-safety criteria are met for new construction.

Some of the goals and action items in the Mitigation Plan will be achieved through activities recommended in the CIP. Various City departments develop the CIP and review it on an annual basis. Upon annual review of the CIP, the Planning Team will work with the City departments to identify areas that the Mitigation Plan action items are consistent with CIP goals and integrate them where appropriate.

Upon FEMA approval, the Planning Team will begin the process of incorporating existing planning mechanisms at the City level. The meetings of the Planning Team will provide an opportunity for Planning Team members to report back on the progress made on the integration of mitigation planning elements into City planning documents and procedures.

Upon FEMA approval, the Planning Team will begin the process of incorporating risk information and mitigation action items into existing planning mechanisms including the General Plan, Capital Improvement Program, and other planning mechanisms (see Mitigation Action Matrix for links between individual action items and associated planning mechanism). The meetings of the Planning Team will provide an opportunity for Planning Team members to report back on the progress made on the integration of mitigation planning elements into City planning documents and procedures.

Specifically, the Planning Team will utilize the updates of the following documents to implement the Mitigation Plan:

- ✓ Risk Assessment, Community Profile, Planning Process (stakeholders) – General Plan Land Use Element, City's Emergency Operations Plan
- ✓ Community Profile – General Plan Housing Element
- ✓ Risk Assessment, Hazard-Specific Sections, General Hazard Overviews – General Plan Safety Element
- ✓ Mitigation Actions Matrix – Annual Budget, Capital Improvement Program

It's important to note that since the approval and adoption of the 2014 Hazard Mitigation Plan, the only document that was updated was the Annual Budget. Although the Annual Budget did provide funding for a few of the mitigation action items, those items were not specifically identified as coming from the 2014 Hazard Mitigation Plan.

Economic Analysis of Mitigation Projects

FEMA's approach to identify the costs and benefits associated with hazard mitigation strategies, measures, or projects fall into two general categories: benefit/cost analysis and cost-effectiveness analysis.

Conducting benefit/cost analysis for a mitigation activity can assist communities in determining whether a project is worth undertaking now, in order to avoid disaster-related damages later.

Cost-effectiveness analysis evaluates how best to spend a given amount of money to achieve a specific goal. Determining the economic feasibility of mitigating hazards can provide decision-makers with an understanding of the potential benefits and costs of an activity, as well as a basis upon which to compare alternative projects.

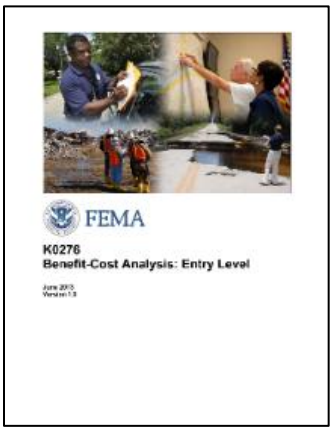
Given federal funding, the Planning Team will use a FEMA-approved benefit/cost analysis approach to identify and prioritize mitigation action items. For other projects and funding sources, the Planning Team will use other approaches to understand the costs and benefits of each action item and develop a prioritized list.

The "benefit", "cost", and overall "priority" of each mitigation action item was included in the Mitigation Actions Matrix located in Part III: Mitigation Strategies. A more technical assessment will be required in the event grant funding is pursued through the Hazard Mitigation Grant Program. FEMA Benefit-Cost Analysis Guidelines are discussed below.

FEMA Benefit-Cost Analysis Guidelines

The Stafford Act authorizes the President to establish a program to provide technical and financial assistance to state and local governments to assist in the implementation of hazard mitigation measures that are cost effective and designed to substantially reduce injuries, loss of life, hardship, or the risk of future damage and destruction of property. To evaluate proposed hazard mitigation projects prior to funding FEMA requires a Benefit-Cost Analysis (BCA) to validate cost effectiveness. BCA is the method by which the future benefits of a mitigation project are estimated and compared to its cost. The end result is a benefit-cost ratio (BCR), which is derived from a project's total net benefits divided by its total project cost. The BCR is a numerical expression of the cost effectiveness of a project. A project is considered to be cost effective when the BCR is

1.0 or greater, indicating the benefits of a prospective hazard mitigation project are sufficient to justify the costs.



Although the preparation of a BCA is a technical process, FEMA has developed software, written materials, and training to support the effort and assist with estimating the expected future benefits over the useful life of a retrofit project. It is imperative to conduct a BCA early in the project development process to ensure the likelihood of meeting the cost-effective eligibility requirement in the Stafford Act.

The BCA program consists of guidelines, methodologies and software modules for a range of major natural hazards including:

- ✓ Flood (Riverine, Coastal Zone A, Coastal Zone V)
- ✓ Hurricane Wind
- ✓ Hurricane Safe Room
- ✓ Damage-Frequency Assessment
- ✓ Tornado Safe Room
- ✓ Earthquake
- ✓ Wildfire

The BCA program provides up to date program data, up to date default and standard values, user manuals and training. Overall, the program makes it easier for users and evaluators to conduct and review BCAs and to address multiple buildings and hazards in a single BCA module run.

Q&A | ELEMENT A: PLANNING PROCESS | A6a.

Q: Does the plan identify how, when, and by whom the plan will be **monitored** (how will implementation be tracked) over time? (Requirement §201.6(c)(4)(i))

A: See **Evaluating and Updating the Plan** below.

Q&A | ELEMENT A: PLANNING PROCESS | A6c.

Q: Does the plan identify how, when, and by whom the plan will be **updated** during the 5-year cycle? (Requirement §201.6(c)(4)(i))

A: See **Evaluating and Updating the Plan** below.

Evaluating and Updating the Plan

The Planning Team will be responsible for coordinating implementation of plan by monitoring the progress of the mitigation action items and documenting progress notes for each item. It will be up to the Local Mitigation Officer to announce the meeting with the coordinating agencies. The purpose of the meeting will be to track the status on each of the mitigation action items. The monitoring meetings will take place no less than annually. These meetings will provide an opportunity to discuss the progress of the action items and maintain the partnerships that are essential for the sustainability of the mitigation plan. See the **Annual Implementation Report** discussed below which will be a valuable tool for the Planning Team to measure the success of the Hazard Mitigation Plan.

Quarterly Implementation Report

The Quarterly Implementation Report is the same as the Mitigation Action Matrix but with a column added to the far right to track the quarterly status of each Action Item. Upon approval and adoption of the Plan, the Quarterly Implementation Report will be added to the Appendix of the Plan. Following is a sample page of the First Quarter Implementation Report:

Mitigation Action Item	Coordinating Department	Timeline	Goal: Protect Life and Property	Goal: Public Awareness	Goal: Natural Systems	Goal: Minimize Risk	Funding Source: GF-General Fund, GR-Grant, U-Utilities	Planning Mechanism: GP-General Plan, CIP, GF-General Fund, GR – Grant, MC – Municipal Code, GE – General Fund	Buildings & Infrastructure: Does the Action Item impact New and/or Existing Buildings and/or Infrastructure? Yes (Y)	Priority L-Low, M-Medium, H-High	Benefit: L-Low, M-Medium, H-High	Cost: L-Low, M-Medium, H-High	2020 Comments and Status – C-Completed, R-Revised, D-Deleted, N-New, P- Postponed, and Notes	First Quarter 2020 Comments
Earthquake and Liquefaction														
EQLQ-1A Continue to adopt and enforce the most up-to-date California Building Code and California Fire Code with local amendments and continue to support the training of City staff in the provisions of the latest codes, to provide for seismic safety and fire safety design.	Community Development Department: Planning and Building Divisions, LACoFD	Ongoing	X	X		X	GF	MC	Y	H	H	L	Revised	
EQLQ-1B Regulate the location of new essential or critical facilities in areas that would be directly affected by seismic and geologic hazards (including surface fault rupture, liquefaction, and slope instability) to ensure the facility will not be located in an area identified as susceptible to damage from a natural hazard.	Community Development Department: Planning and Building Divisions	Ongoing	X	X		X	GF	MC	Y	H	H	L	Revised	

An equally part of the monitoring process is the need to maintain a strategic planning process which needs to include funding and organizational support. In that light, at least one year in advance of the FEMA-mandated 5-year submission of an update, the Local Mitigation Officer will convene the Planning Team to discuss funding and timing of the update planning process. On the fifth year of the planning cycles, the Planning Team will broaden its scope to include discussions and research on all of the sections within the Plan with particular attention given go goal achievement and public participation.

Q&A | ELEMENT A: PLANNING PROCESS | A6b.

Q: Does the plan identify how, when, and by whom the plan will be **evaluated** (assessing the effectiveness of the plan at achieving stated purpose and goals) over time? (Requirement §201.6(c)(4)(i))

A: See **Evaluation** below.

Evaluation

At the conclusion of the meeting each year, the Local Mitigation Officer will lead a discussion with the Planning Team on the success (or failure) of the Mitigation Plan to meet the Plan Goals. The results of that discussion will be added to the 4th Quarterly Report and inclusion in the 5-year update to the Plan. Efforts will be made immediately by the Local Mitigation Officer to address any failed Plan Goals.

Formal Update Process

The Mitigation Plan will be monitored on an annual basis to determine the effectiveness of mitigation action items and to reflect changes in land development or programs that may affect mitigation actions or their priorities. The evaluation process includes a firm schedule and timeline, and identifies the agencies and organizations participating in plan evaluation. The Local Mitigation Officer or designee will be responsible for contacting the Planning Team members and organizing the annual meeting. Planning Team members will also be responsible for participating in the formal update to the Plan every fifth year of the planning cycle.

The Planning Team will review the goals and mitigation action items to determine their relevance to changing situations in the City, as well as changes in State or Federal policy, and to ensure they are addressing current and expected conditions. The Planning Team will also review the Plan's **Risk Assessment** portion of the Plan to determine if this information should be updated or modified, given any new available data. The **coordinating organizations** responsible for the various action items will report on the status of their projects, including the success of various implementation processes, difficulties encountered, success of coordination efforts, and which strategies should be revised. Amending will be made to the Mitigation Actions Matrix and other sections in the Plan as deemed necessary by the Planning Team.

Q&A | ELEMENT A: PLANNING PROCESS | A5

Q: Is there discussion of how the community(ies) will continue public participation in the plan maintenance process? (Requirement §201.6(c)(4)(iii))

A: See **Continued Public Involvement** below.

Continued Public Involvement

The City of Duarte is dedicated to involving the public directly in the continual review and updates to the Mitigation Plan. Copies of the plan will be catalogued and made available at Public Safety and Community Development. The existence and location of these copies will be publicized in City newsletters and on the City website. This site will also contain an email address and phone number where people can direct their comments and concerns. A public meeting will also be held after each evaluation or when deemed necessary by the Planning Team. The meetings will provide the public a forum in which they can express their concerns, opinions, or ideas about the Plan.

The Local Mitigation Officer will be responsible for using City resources to publicize the annual public meetings and maintain public involvement through the public access channel, web page, and newspapers.

PART IV: APPENDIX

General Hazard Overviews

Earthquake Hazards

Measuring and Describing Earthquakes

An earthquake is a sudden motion or trembling that is caused by a release of strain accumulated within or along the edge of the Earth's tectonic plates. The effects of an earthquake can be felt far beyond the site of its occurrence. They usually occur without warning and, after just a few seconds, can cause massive damage and extensive casualties. Common effects of earthquakes are ground motion and shaking, surface fault ruptures, and ground failure. Ground motion is the vibration or shaking of the ground during an earthquake. When a fault ruptures, seismic waves radiate, causing the ground to vibrate. The severity of the vibration increases with the amount of energy released and decreases with distance from the causative fault or epicenter. Soft soils can further amplify ground motions. The severity of these effects is dependent on the amount of energy released from the fault or epicenter. One way to express an earthquake's severity is to compare its acceleration to the normal acceleration due to gravity. The acceleration due to gravity is often called "g". A ground motion with a peak ground acceleration of 100%g is very severe. Peak Ground Acceleration (PGA) is a measure of the strength of ground motion. PGA is used to project the risk of damage from future earthquakes by showing earthquake ground motions that have a specified probability (10%, 5%, or 2%) of being exceeded in 50 years. These ground motion values are used for reference in construction design for earthquake resistance. The ground motion values can also be used to assess relative hazard between sites, when making economic and safety decisions.

When a fault ruptures, seismic waves radiate, causing the ground to vibrate. The severity of the vibration increases with the amount of energy released and decreases with distance from the causative fault or epicenter.

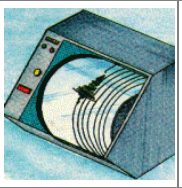
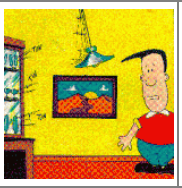
Another tool used to describe earthquake intensity is the Magnitude Scale. The Magnitude Scale is sometimes referred to as the Richter Scale. The two are similar but not exactly the same. The Magnitude Scale was devised as a means of rating earthquake strength and is an indirect measure of seismic energy released. The Scale is logarithmic with each one-point increase corresponding to a 10-fold increase in the amplitude of the seismic shock waves generated by the earthquake. In terms of actual energy released, however, each one-point increase on the Richter scale corresponds to about a 32-fold increase in energy released. Therefore, a Magnitude 7 (M7) earthquake is 100 times (10 X 10) more powerful than a M5 earthquake and releases 1,024 times (32 X 32) the energy.

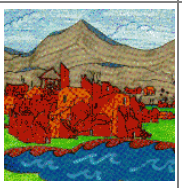
An earthquake generates different types of seismic shock waves that travel outward from the focus or point of rupture on a fault. Seismic waves that travel through the earth's crust are called body waves and are divided into primary (P) and secondary (S) waves. Because P waves move faster (1.7 times) than S waves, they arrive at the seismograph first. By measuring the time delay between arrival of the P and S waves and knowing the distance to the epicenter, seismologists can compute the magnitude for the earthquake.

The duration of an earthquake is related to its magnitude but not in a perfectly strict sense. There are two ways to think about the duration of an earthquake. The first is the length of time it takes for the fault to rupture and the second is the length of time shaking is felt at any given point (e.g. when someone says, "I felt it shake for 10 seconds" they are making a statement about the duration of shaking). (Source: www.usgs.gov)

The Modified Mercalli Scale (MMI) is another means for rating earthquakes, but one that attempts to quantify intensity of ground shaking. Intensity under this scale is a function of distance from the epicenter (the closer to the epicenter the greater the intensity), ground acceleration, duration of ground shaking, and degree of structural damage. The Modified Mercalli Intensity Scale below rates the level of severity of an earthquake by the amount of damage and perceived shaking.

Table: Modified Mercalli Intensity Scale

	MMI Value	Description of Shaking Severity	Summary Damage Description Used on 1995 Maps	Full Description
	I	N/A	N/A	Not Felt
	II	N/A	N/A	Felt by persons at rest, on upper floors, or favorably placed.
	III	N/A	N/A	Felt indoors. Hanging objects swing. Vibration like passing of light trucks. Duration estimated. May not be recognized as an earthquake.
	IV	N/A	N/A	Hanging objects swing. Vibration like passing of heavy trucks; or sensation of a jolt like a heavy ball striking the walls. Standing motorcars rock. Windows, dishes, doors rattle. In the upper range of IV, wooden walls and frame creak.
	V	Light	Pictures Move	Felt outdoors; direction estimated. Sleepers wakened. Liquids disturbed, some spilled. Small unstable objects displaced or upset. Doors swing, close, open. Shutters, pictures move. Pendulum clock stop, start, change rate.

	MMI Value	Description of Shaking Severity	Summary Damage Description Used on 1995 Maps	Full Description
	VI	Moderate	Objects Fall	Felt by all. Many frightened and run outdoors. Persons walk unsteadily. Windows, dishes, glassware broken. Knickknacks, books, etc., off shelves. Pictures off walls. Furniture moved or overturned. Weak plaster and masonry D cracked.
	VII	Strong	Nonstructural Damage	Difficult to stand. Noticed by drivers of motorcars. Hanging objects quiver. Furniture broken. Damage to masonry, including cracks. Weak chimneys broken at roofline. Fall of plaster, loose bricks, stones, tiles, cornices. Some cracks in masonry C. Small slides and caving in along sand or gravel banks. Concrete irrigation ditches damaged.
	VIII	Very Strong	Moderate Damage	Steering of motorcars affected. Damage to masonry C, partial collapse. Some damage to masonry B; none to masonry A. Fall of stucco and some masonry walls. Twisting, fall of chimneys, factory stacks, monuments, towers, and elevated tanks. Frame houses moved on foundations if not bolted down; loose panel walls thrown out. Cracks in wet ground and on steep slopes.
	IX	Violent	Heavy damage	General panic. Damage to masonry buildings ranges from collapse to serious damage unless modern design. Wood-frame structures rack, and, if not bolted, shifted off foundations. Underground pipes broken.
	X	Very Violent	Extreme Damage	Most masonry and frame structures destroyed with their foundations. Some well-built wooden structures and bridges destroyed. Serious damage to dams, dikes, embankments. Large landslides. Water thrown on banks of canals, rivers, lakes, etc. Sand and mud shifted horizontally on beaches and flat land.
	XI	N/A	N/A	Rails bent greatly. Underground pipelines completely out of services.
	XII	N/A	N/A	Damage nearly total. Large rock masses displaced. Lines of sight and level distorted. Objects thrown into air.

Earthquake Related Hazards

Ground shaking, landslides, liquefaction, and amplification are the specific hazards associated with earthquakes. The severity of these hazards depends on several factors, including soil and slope conditions, proximity to the fault, earthquake magnitude, and the type of earthquake.

Ground Shaking

Ground shaking is the motion felt on the earth's surface caused by seismic waves generated by the earthquake. It is the primary cause of earthquake damage. The strength of ground shaking depends on the magnitude of the earthquake, the type of fault, and distance from the epicenter (where the earthquake originates). Buildings on poorly consolidated and thick soils will typically see more damage than buildings on consolidated soils and bedrock.

Seismic activity along nearby or more distant fault zones are likely to cause ground shaking within the City limits.

Earthquake-Induced Landslide Potential

Generally, these types of failures consist of rock falls, disrupted soil slides, rock slides, soil lateral spreads, soil slumps, soil block slides, and soil avalanches. Areas having the potential for earthquake-induced landslides generally occur in areas of previous landslide movement, or where local topographic, geological, geotechnical, and subsurface water conditions indicate a potential for permanent ground displacements.

Liquefaction

Liquefaction occurs when ground shaking causes wet granular soils to change from a solid state to a liquid state. This results in the loss of soil strength and the soil's ability to support weight. Buildings and their occupants are at risk when the ground can no longer support these structures. Liquefaction generally occurs during significant earthquake activity, and structures located on soils such as silt or sand may experience significant damage during an earthquake due to the instability of structural foundations and the moving earth. Many communities in Southern California are built on ancient river bottoms and have sandy soil. In some cases, the soil may be subject to liquefaction, depending on the depth of the water table.

Wildfire Hazards

Description

A wildfire is an uncontrolled fire spreading through vegetative fuels and exposing or possibly consuming structures. They often begin unnoticed and spread quickly. Naturally occurring and non-native species of grasses, brush, and trees fuel wildfires. A wildland fire is a wildfire in an area in which development is essentially nonexistent, except for roads, railroads, power lines and similar facilities. A wildland/urban interface fire is a wildfire in a geographical area where structures and other human development meet or intermingle with wildland or vegetative fuels.

People start more than 80 percent of wildfires, usually as debris burns, arson, or carelessness. Lightning strikes are the next leading cause of wildfires. Wildfire behavior is based on three primary factors: fuel, topography, and weather. The type, and amount of fuel, as well as its burning qualities and level of moisture affect wildfire potential and behavior. The continuity of fuels, expressed in both horizontal and vertical components is also a determinant of wildfire potential and behavior. Topography is important because it affects the movement of air (and thus the fire) over the ground surface. The slope and shape of terrain can change the speed at which the fire travels, and the ability of firefighters to reach and extinguish the fire. Weather affects the probability of wildfire and has a significant effect on its behavior. Temperature, humidity and wind (both short and long term) affect the severity and duration of wildfires. Much of Los Angeles County's topography, consisting of semi-arid plains and rolling highlands, when fueled by shrub overgrowth, occasional Santa Ana winds and high temperatures, creates an ever-present threat of wildland fire. Extreme weather conditions such as high temperature, low humidity, and/or winds of extraordinary force may cause an ordinary fire to expand into one of massive proportions.



For thousands of years, fires have been a natural part of the ecosystem in Southern California. However, wildfires present a substantial hazard to life and property in communities built within or adjacent to hillsides and mountainous areas. There is a huge potential for losses due to wildland/urban interface fires in Southern California.

Wildfire Threat

In urban areas, the effectiveness of fire protection efforts is based upon several factors, including the age of structures, efficiency of circulation routes that ultimately affect response times and availability of water resources to combat fires. In wildland areas, taking the proper precautions, such as the use of fire resistant building materials, a pro-active fire Prevention inspection program, and the development of defensible space around structures where combustible vegetation is controlled, can protect developed lands from fires and, therefore, reduce the potential loss of life and property.

Other factors contribute to the severity of fires including weather and winds. Specifically, winds commonly referred to as Santa Ana winds, which occur during fire season (typically from June to the first significant rain in November) are particularly significant. Such "fire weather" is

characterized by several days of hot dry weather and high winds, resulting in low fuel moisture in vegetation.

California experiences large, destructive wildland fires almost every year, and Los Angeles County is no exception as highlighted in **Table: Top 20 Largest California Wildfires**. Wildland fires have occurred within the County, particularly in the fall of the year, ranging from small, localized fires to disastrous fires covering thousands of acres. The most severe fire protection problem in the area is wildland fire during Santa Ana wind conditions.

Table: Top 20 Largest California Wildfires
(Source: CAL FIRE, 2019)

	FIRE NAME *(CAUSE)*	DATE	COUNTY	*ACRES*	STRUCTURES	DEATHS
1	**MENDOCINO COMPLEX** *(Under Investigation)*	July 2018	Colusa County, Lake County, Mendocino County & Glenn County	**459,123**	280	1
2	**THOMAS** *(Under Investigation)*	December 2017	Ventura & Santa Barbara	**281,893**	1,063	2
3	**CEDAR** *(Human Related)*	October 2003	San Diego	**273,246**	2,820	15
4	**RUSH** *(Lightning)*	August 2012	Lassen	**271,911 CA / 43,666 NV**	0	0
5	**RIM** *(Human Related)*	August 2013	Tuolumne	**257,314**	112	0
6	**ZACA** *(Human Related)*	July 2007	Santa Barbara	**240,207**	1	0
7	**CARR** *(Human Related)*	July 2018	Shasta County, Trinity County	**229,651**	1,614	8
8	**MATILIJA** *(Undetermined)*	September 1932	Ventura	**220,000**	0	0
9	**WITCH** *(Powerlines)*	October 2007	San Diego	**197,990**	1,650	2
10	**KLAMATH THEATER COMPLEX** *(Lightning)*	June 2008	Siskiyou	**192,038**	0	2
11	**MARBLE CONE** *(Lightning)*	July 1977	Monterey	**177,866**	0	0
12	**LAGUNA (POWERLINES)**	September 1970	San Diego	**175,425**	382	5
13	**BASIN COMPLEX** *(Lightning)*	June 2008	Monterey	**162,818**	58	0
14	**DAY FIRE** *(Human Related)*	September 2006	Ventura	**162,702**	11	0
15	**STATION** *(Human Related)*	August 2009	Los Angeles	**160,557**	209	2
16	**CAMP FIRE (Under Investigation)**	November 2018	Butte	**153,336**	18,804	85
17	**ROUGH** *(Lightning)*	July 2015	Fresno	**151,623**	4	0
18	**McNALLY** *(Human Related)*	July 2002	Tulare	**150,696**	17	0
19	**STANISLAUS COMPLEX** *(Lightning)*	August 1987	Tuolumne	**145,980**	28	1
20	**BIG BAR COMPLEX** *(Lightning)*	August 1999	Trinity	**140,948**	0	0

*There is no doubt that there were fires with significant acreage burned in years prior to 1932, but those records are less reliable, and this list is meant to give an overview of the large fires in more recent times.
**This list does not include fire jurisdiction. These are the Top 20 regardless of whether they were state, federal, or local responsibility.

2/19/2019

The 2003 Southern California Fires

The fall of 2003 marked the most destructive wildfire season in California history. In a ten-day period, 12 separate fires raged across Southern California in Los Angeles, Riverside, and San Bernardino, San Diego and Ventura counties. The massive "Cedar Fire" in San Diego County alone consumed 2,800 homes and burned over a quarter of a million acres.

In October 2003, Southern California experienced the most devastating wildland fire disaster in state history. According to the Governor's Blue Ribbon Panel Fire Commission Report (2004), over 739,597 acres burned; 3,631 homes, 36 commercial properties, and 1,169 outbuildings were destroyed; 246 people were injured; and 24 people died, including one firefighter. At the height of the siege, 15,631 personnel were assigned to fight the fires.

The 2007 Southern California Fires

In late October 2007, Southern California experienced an unusually severe fire weather event characterized by intense, dry, gusty Santa Ana winds. This weather event drove a series of destructive wildfires that took a devastating toll on people, property, natural resources, and infrastructure. Although some fires burned into early November, the heaviest damage occurred during the first three days of the siege when the winds were the strongest.

According to CAL FIRE, during this siege, 17 people lost their lives, ten were killed by the fires outright, three were killed while evacuating, four died from other fire siege related causes, and 140 firefighters, and an unknown number of civilians were injured. A total of 3,069 homes and other buildings were destroyed, and hundreds more were damaged. Hundreds of thousands of people were evacuated at the height of the siege. The fires burned over half a million acres, including populated areas, wildlife habitat and watershed. Portions of the electrical power distribution network, telecommunications systems, and even some community water sources were destroyed. Transportation was disrupted over a large area for several days, including numerous road closures. Both the Governor of California and the President of the United States personally toured the ongoing fires. Governor Schwarzenegger proclaimed a state of emergency in seven counties before the end of the first day. President Bush quickly declared a major disaster. While the total impact of the 2007 fire siege was less than the disastrous fires of 2003, it was unquestionably one of the most devastating wildfire events in the history of California.



Wildfire Characteristics

There are three categories of wildland/urban interface fire: The classic wildland/urban interface exists where well-defined urban and suburban development presses up against open expanses of wildland areas; the mixed wildland/urban interface is characterized by isolated homes, subdivisions, and small communities situated predominantly in wildland settings. The occluded wildland/urban interface exists where islands of wildland vegetation occur inside a largely urbanized area. Certain conditions must be present for significant interface fires to occur. The most common conditions include: hot, dry and windy weather; the inability of fire protection forces to contain or suppress the fire; the occurrence of multiple fires that overwhelm committed

resources; and a large fuel load (dense vegetation). Once a fire has started, several conditions influence its behavior, including fuel topography, weather, drought, and development.

Southern California has two distinct areas of risk for wildland fire. The foothills and lower mountain areas are most often covered with scrub brush or chaparral. The higher elevations of mountains also have heavily forested terrain. The lower elevations covered with chaparral create one type of exposure.

The higher elevations of Southern California's mountains are typically heavily forested. The magnitude of fires is the result of three primary factors: (1) severe drought, accompanied by storms that produce thousands of lightning strikes and windy conditions; (2) an infestation of bark beetles that has killed thousands of mature trees; and (3) the effects of wildfire suppression over the past century that has led to buildup of brush and small diameter trees in the forests.

The Interface

One challenge Southern California faces regarding the wildfire hazard is from the increasing number of houses being built on the urban/wildland interface. Every year the growing population expands further into the hills and mountains, including forest lands. The increased "interface" between urban/suburban areas, and the open spaces created by this expansion, produces a significant increase in threats to life and property from fires, and pushes existing fire protection systems beyond original or current design and capability. Property owners in the interface are not aware of the problems and fire hazards or risks on their own property. Furthermore, human activities increase the incidence of fire ignition and potential damage.

Fuel

Fuel is the material that feeds a fire and is a key factor in wildfire behavior. Fuel is classified by volume and by type. Volume is described in terms of "fuel loading," or the amount of available vegetative fuel.

The type of fuel also influences wildfire. Chaparral is a primary fuel of Southern California wildfires. Chaparral habitat ranges in elevation from near sea level to over 5,000 feet in Southern California. Chaparral communities experience long dry summers and receive most of their annual precipitation from winter rains. Although chaparral is often considered as a single species, there are two distinct types; hard chaparral and soft chaparral. Within these two types are dozens of different plants, each with its own particular characteristics.

An important element in understanding the danger of wildfire is the availability of diverse fuels in the landscape, such as natural vegetation, manmade structures and combustible materials. A house surrounded by brushy growth rather than cleared space allows for greater continuity of fuel and increases the fire's ability to spread. After decades of fire suppression "dog-hair" thickets have accumulated, which enable high intensity fires to flare and spread rapidly.

Topography

Topography influences the movement of air, thereby directing a fire course. For example, if the percentage of uphill slope doubles, the rate of spread in wildfire will likely double. Gulches and canyons can funnel air and act as chimneys, which intensify fire behavior and cause the fire to spread faster. Solar heating of dry, south-facing slopes produces up slope drafts that can complicate fire behavior. Unfortunately, hillsides with hazardous topographic characteristics are

also desirable residential areas in many communities. This underscores the need for wildfire hazard mitigation and increased education and outreach to homeowners living in interface areas.

Weather

Weather patterns combined with certain geographic locations can create a favorable climate for wildfire activity. Areas where annual precipitation is less than 30 inches per year are extremely fire susceptible. High-risk areas in Southern California share a hot, dry season in late summer and early fall when high temperatures and low humidity favor fire activity. The so-called "Santa Ana" winds, which are heated by compression as they flow down to Southern California from Utah, create a particularly high risk, as they can rapidly spread what might otherwise be a small fire.

Drought

Recent concerns about the effects of climate change, particularly drought, are contributing to concerns about wildfire vulnerability. The term 'drought' is applied to a period in which an unusual scarcity of rain causes a serious hydrological imbalance. Unusually dry winters, or significantly less rainfall than normal, can lead to relatively drier conditions and leave reservoirs and water tables lower. Drought leads to problems with irrigation and contributes to additional fires, or increased difficulty in fighting fires.

Development

Growth and development in scrubland and forested areas is increasing the number of human-caused structures in Southern California interface areas. Wildfire affects development, yet development can also influence wildfire. Owners often prefer homes that are private with scenic views, nestled in vegetation, and use natural materials. A private setting is usually far from public roads, or hidden behind a narrow, curving driveway. These conditions, however, make evacuation and firefighting difficult. The scenic views found along mountain ridges can also mean areas of dangerous topography. Natural vegetation contributes to scenic beauty, but it may also provide a ready trail of fuel leading a fire directly to the combustible fuels of the home itself.

Landslide Hazards

Hazard Characteristics

Landslides are a serious geologic hazard in almost every state in America. Nationally, landslides cause 25 to 50 deaths each year. The best estimate of direct and indirect costs of landslide damage in the United States range between $1 and $2 billion annually. As a seismically active region, California has a significant number of locations impacted by landslides. Some landslides result in private property damage; other landslides impact transportation corridors, fuel and energy conduits, and communication facilities. They can also pose a serious threat to human life.

Landslides can be broken down into two categories: 1) rapidly moving (generally known as debris flows), and; 2) slow moving. Rapidly moving landslides or debris flows present the greatest risk to human life, and people living in or traveling through areas prone to rapidly moving landslides, are at increased risk of serious injury. Slow moving landslides can cause significant property damage but are less likely to result in serious human injuries.

The primary effects of mudslides/landslides include: abrupt depression and lateral displacement of hillside surfaces over distances of up to several hundreds of feet, disruption of surface drainage, blockage of flood control channels and roadways, displacement or destruction of improvements such as roadways, buildings, and water wells.

Historic Southern California Landslides

1956 Portuguese Bend

Cost, $14.6 million (2000 Dollars) California Highway 14, Palos Verdes Hills. Land use on the Palos Verdes Peninsula consists mostly of single-family homes built on large lots, many of which have panoramic ocean views. All of the houses were constructed with individual septic systems, generally consisting of septic tanks and seepage pits. Landslides have been active here for thousands of years, but recent landslide activity has been attributed in part to human activity. The Portuguese Bend Landslide began its modern movement in August 1956, when displacement was noticed at its northeast margin. Movement gradually extended downslope so that the entire eastern edge of the slide mass was moving within 6 weeks. By the summer of 1957, the entire slide mass was sliding towards the sea.

1958-1971 Pacific Palisades

Cost, $29.1 million (2000 Dollars) California Highway 1 and house damaged.

1961 Mulholland Cut

Cost, $41.5 million (2000 Dollars) On Interstate 405, 11 miles north of Santa Monica, Los Angeles County.

1969 Glendora

Cost, $26.9 million (2000 Dollars) Los Angeles County, 175 houses damaged, mainly by debris flows.

1969 Seventh Ave., Los Angeles County

Cost, $14.6 million (2000 Dollars) California Highway 60.

1970 Princess Park

Cost, $29.1 million (2000 Dollars) California Highway 14, ten miles north of Newhall, near Saugus, northern Los Angeles County.

1971 Upper and Lower Van Norman Dams, San Fernando

Cost, $302.4 million (2000 Dollars) Earthquake-induced landslides. Damage due to the February 9, 1971, Magnitude 7.5 San Fernando, Earthquake.
The earthquake of February 9 severely damaged the Upper and Lower Van Norman Dams.

1971 Juvenile Hall, San Fernando

Cost, $266.6 million (2000 Dollars) Landslides caused by the February 9, 1971, San Fernando earthquake. In addition to damaging the San Fernando Juvenile Hall, this 1.2 km-long slide damaged trunk lines of the Southern Pacific Railroad, San Fernando Boulevard, Interstate Highway 5, the Sylmar electrical converter station, and several pipelines and canals.

1977-1980 Monterey Park, Repetto Hills, Los Angeles County

Cost, $14.6 million (2000 Dollars) 100 houses damaged in 1980 due to debris flows.

1978 Bluebird Canyon Orange County

Cost, $52.7 million (2000 Dollars) October 2, 60 houses destroyed or damaged. Unusually heavy rains in March of 1978 may have contributed to initiation of the landslide. Although the 1978 slide area was approximately 3.5 acres, it is suspected to be a portion of a larger, ancient landslide.

1979 Big Rock, California, Los Angeles County

Cost, $1.08 billion (2000 Dollars) California Highway 1 rockslide.

1980 Southern California Slides

Cost, $1.1 billion in damage (2000 Dollars) Heavy winter rainfall in 1979-90 caused damage in six Southern California counties. In 1980, the rainstorm started on February 8. A sequence of 5 days of continuous rain and 7 inches of precipitation had occurred by February 14. Slope failures were beginning to develop by February 15 and then very high-intensity rainfall occurred on February 16. As much as eight inches of rain fell in a six-hour period in many locations. Records and personal observations in the field on February 16 and 17 showed that the mountains and slopes literally fell apart on those two days.

1983 San Clemente, Orange County

Cost, $65 million (2000 Dollars), California Highway 1. Litigation at that time involved approximately $43.7 million (2000).

1983 Big Rock Mesa



Cost, $706 million (2000 Dollars) in legal claims condemnation of 13 houses, and 300 more threatened rockslide caused by rainfall.

1978-1980 San Diego County

Experienced major damage from storms in 1978, 1979, and 1979-80, as did neighboring areas of Los Angeles and Orange County. One hundred and twenty landslides were reported to have occurred in San Diego County during these 2 years. Rainfall for the rainy seasons of 78-79 and 79-80 was 14.82 and 15.61 inches (37.6 and 39.6 cm) respectively, compared to a 125-year average (1850-1975) of 9.71 inches (24.7 cm). Significant landslides occurred in the Friars Formation, a unit that was noted as slide-prone in the Seismic Safety Study for the City of San Diego. Of the nine landslides that caused damage in excess of $1 million, seven occurred in the Friars Formation, and two in the Santiago Formation in the northern part of San Diego County.

1994 Northridge Earthquake Landslides

As a result of the Magnitude 6.7 Northridge Earthquake, more than 11,000 landslides occurred over an area of 10,000 km^2. Most were in the Santa Susana Mountains and in mountains north of the Santa Clara River Valley. Destroyed dozens of homes, blocked roads, and damaged oil-field infrastructure. Caused deaths from Coccidioidomycosis (valley fever) the spore of which was released from the soil and blown toward the coastal populated areas. The spore was released from the soil by the landslide activity.

March 1995 Los Angeles and Ventura Counties



Above normal rainfall triggered damaging debris flows, deep-seated landslides, and flooding. Several deep-seated landslides were triggered by the storms, the most notable was the La Conchita landslide, which in combination with a local debris flow, destroyed or badly damaged 11 to 12 homes in the small town of La Conchita, about 20 km west of Ventura. There also was widespread debris-flow and flood damage to homes, commercial buildings, and roads and highways in areas along the Malibu coast that had been devastated by wildfire two years before.

January 2005 Ventura County

On January 10, 2005, a landslide once again struck the community of La Conchita, killing ten people and destroying or seriously damaging 36 houses.

Landslide Characteristics

What is a landslide?

"A landslide is defined as, the movement of a mass of rock, debris, or earth movement down a slope. Landslides are a type of "mass wasting" which denotes any down slope movement of soil and rock under the direct influence of gravity. The term "landslide" encompasses events such as rock falls, topples, slides, spreads, and flows.

Landslides are initiated by rainfall, earthquakes, volcanic activity, changes in groundwater, disturbance and change of a slope by human-caused construction activities, or any combination of these factors. Landslides also occur underwater, causing tidal waves and damage to coastal areas. These landslides are called submarine landslides."

The size of a landslide usually depends on the geology and the initial cause of the landslide. Landslides vary greatly in their volume of rock and soil, the length, width, and depth of the area affected, frequency of occurrence, and speed of movement. Some characteristics that determine the type of landslide are slope of the hillside, moisture content, and the nature of the underlying materials. Landslides are given different names, depending on the type of failure, and their composition and characteristics.

Slides move in contact with the underlying surface. These movements include rotational slides where sliding material moves along a curved surface and translational slides where movement occurs along a flat surface. These slides are generally slow moving and can be deep. Slumps are small rotational slides that are generally shallow. Slow-moving landslides occur on relatively gentle slopes and cause significant property damage but are far less likely to result in serious injuries than rapidly moving landslides.

What is a Debris Flow?

A debris or mud flow is a river of rock, earth and other materials, including vegetation that is saturated with water. This high percentage of water gives the debris flow a very rapid rate of movement down a slope. Debris flows move with speeds greater than 20 miles per hour, and often move much faster. This high rate of speed makes debris flows extremely dangerous to people and property in its path.

Areas Particularly Susceptible to Landslides

Locations at risk from landslides or debris flows include areas with one or more of the following conditions:

- ✓ On or close to steep hills
- ✓ Steep road-cuts or excavations
- ✓ Existing landslides or places of known historic landslides (such sites often have tilted power lines, trees tilted in various directions, cracks in the ground, and irregular-surfaced ground)
- ✓ Steep areas where surface runoff is channeled, such as below culverts, V-shaped valleys, canyon bottoms, and steep stream channels
- ✓ Fan-shaped areas of sediment and boulder accumulation at the outlets of canyons
- ✓ Canyon areas below hillside and mountains that recently (within 1-6 years) were subjected to a wildland fire

Excavation and Grading

Slope excavation is common in the development of home sites or roads on sloping terrain. Grading these slopes results in slopes that are steeper than the pre-existing natural slopes. Since slope steepness is a major factor in landslides, these steeper slopes are at an increased risk for landslides.

The added weight of fill placed on slopes also results in an increased landslide hazard. Small landslides are fairly common along roads, in either the road cut or the road fill. Landslides occurring below new construction sites are indicators of the potential impacts stemming from excavation.

Drainage and Groundwater Alterations

Water flowing through or above ground, is often the trigger for landslides. Any activity that increases the amount of water flowing into landslide-prone slopes increases landslide hazards. Broken or leaking water or sewer lines can be especially problematic, as does water retention facilities that direct water onto slopes. However, even lawn irrigation in landslide prone locations results in damaging landslides. Ineffective storm water management and excess runoff also cause erosion and increase the risk of landslide hazards. Drainage is affected, naturally by the geology and topography of an area. Development that results in an increase in impervious surface impairs the ability of the land to absorb water and redirects water to other areas. Channels, streams, ponding, and erosion on slopes indicate potential slope problems.

Road and driveway drains, gutters, downspouts, and other constructed drainage facilities concentrates and accelerates flow. Ground saturation and concentrated velocity flow are major causes of slope problems and triggers landslides.

Changes in Vegetation

Removing vegetation from very steep slopes increases landslide hazards. Areas that experience wildfire and land clearing for development may have long periods of increased landslide hazard. Also, certain types of ground cover require constant watering to remain green. Changing away from native ground cover plants increases the risk of landslide.

Flood Hazards

Flood Terminology

Floodplain

A floodplain is a land area adjacent to a river, stream, lake, estuary, or other water body that is subject to flooding. This area, if left undisturbed, acts to store excess flood water. The floodplain is made up of two sections: the floodway and the flood fringe.

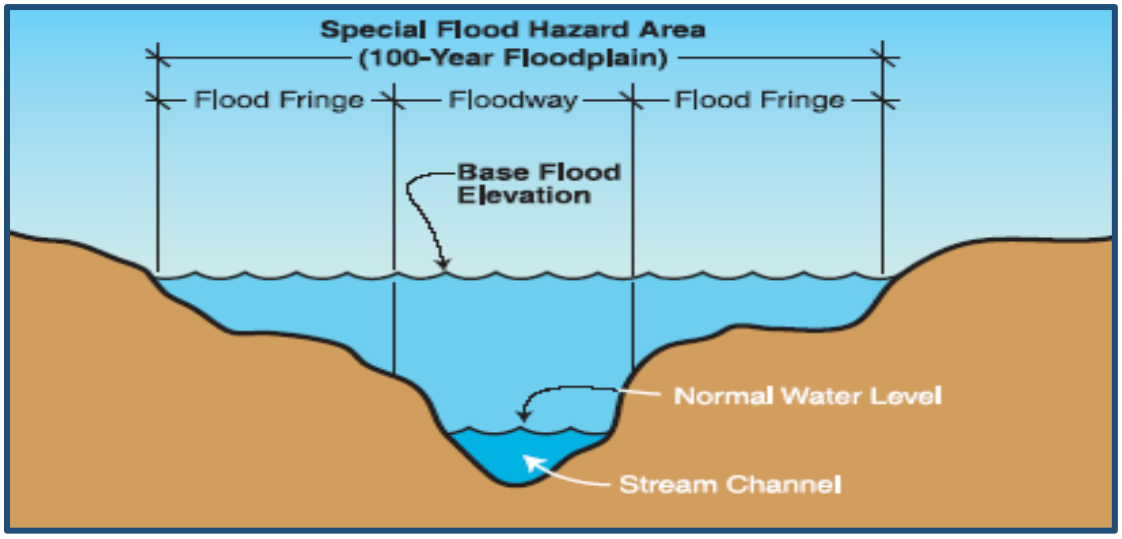
100-Year Flood

The 100-year flooding event is the flood having a one percent chance of being equaled or exceeded in magnitude in any given year. Contrary to popular belief, it is not a flood occurring once every 100 years. The 100-year floodplain is the area adjoining a river, stream, or watercourse covered by water in the event of a 100-year flood. Schematic: Floodplain and Floodway shows the relationship of the floodplain and the floodway.

The 100-year flooding event is the flood having a 1% chance of being equaled or exceeded in magnitude in any given year.

Contrary to popular belief, it is not a flood occurring once every 100 years.

Figure: Floodplain and Floodway
(Source: FEMA How-To-Guide Assessing Hazards)



Floodway

The floodway is one of two main sections that make up the floodplain. Floodways are defined for regulatory purposes. Unlike floodplains, floodways do not reflect a recognizable geologic feature. For NFIP purposes, floodways are defined as the channel of a river or stream, and the overbank areas adjacent to the channel. The floodway carries the bulk of the flood water downstream and is usually the area where water velocities and forces are the greatest. NFIP regulations require that the floodway be kept open and free from development or other structures that would obstruct or divert flood flows onto other properties.

Base Flood Elevation (BFE)

The term "Base Flood Elevation" refers to the elevation (normally measured in feet above sea level) that the base flood is expected to reach. Base flood elevations can be set at levels other than the 100-year flood. Some communities use higher frequency flood events as their base flood elevation for certain activities, while using lower frequency events for others. For example, for the purpose of storm water management, a 25-year flood event might serve as the base flood elevation; while the 500-year flood event serves as base flood elevation for the tie down of mobile homes. The regulations of the NFIP focus on development in the 100-year floodplain.

Types of Flooding

Two types of flooding can affect the City of Duarte: slow-rise or flash flooding. Slow-rise floods in Duarte may be preceded by a warning period of hours or days. Evacuation and sandbagging for slow-rise floods have often effectively lessened flood related damage. Conversely, flash floods are most difficult to prepare for, due to extremely limited, if any, advance warning and preparation time. Unlike most of California, the areas of Los Angeles County that are subject to slow-rise flooding are not associated with overflowing rivers, aqueducts, canals or lakes. Slow-rise flooding in Duarte is usually the result of one or a combination of the following factors: extremely heavy rainfall, saturated soil, area recently burned in wild fires with inadequate new ground cover growth, or heavy rainfall with runoff from melting mountain snow.

Urban Flooding

As land is converted from fields or woodlands to roads and parking lots, it loses its ability to absorb rainfall. Urbanization of a watershed changes the hydrologic systems of the basin. Heavy rainfall collects and flows faster on impervious concrete and asphalt surfaces. The water moves from the clouds, to the ground, and into streams at a much faster rate in urban areas. Adding these elements to the hydrological systems can result in flood waters that rise very rapidly and peak with violent force.

The City of Duarte has a high concentration of impermeable surfaces that either collect water, or concentrate the flow of water in unnatural channels. During periods of urban flooding, streets can become swift moving rivers and basements can fill with water. Storm drains often back up with vegetative debris causing additional, localized flooding. Drainage systems within the City of Duarte have been updated and it is anticipated that they would be fully functional in an emergency.

Riverine Flooding

Riverine flooding is the overbank flooding of rivers and streams. The natural processes of riverine flooding add sediment and nutrients to fertile floodplain areas. Flooding in large river systems typically results from large-scale weather systems that generate prolonged rainfall over a wide geographic area, causing flooding in hundreds of smaller streams, which then drain into the major rivers. Shallow area flooding is a special type of riverine flooding. FEMA defines shallow flood hazards as areas that are inundated by the 100-year flood with flood depths of only one to three feet. These areas are generally flooded by low velocity sheet flows of water.

Definitions of FEMA Flood Zone Designations

Flood zones are geographic areas that the FEMA has defined according to varying levels of flood risk. These zones are depicted on a community's Flood Insurance Rate Map (FIRM) or Flood Hazard Boundary Map. Each zone reflects the severity or type of flooding in the area.

Moderate to Low Risk Areas

In communities that participate in the NFIP, flood insurance is available to all property owners and renters in these zones:

ZONE	DESCRIPTION
B and X (shaded)	Area of moderate flood hazard, usually the area between the limits of the 100-year and 500-year floods. B Zones are also used to designate base floodplains of lesser hazards, such as areas protected by levees from 100-year flood, or shallow flooding areas with average depths of less than one foot or drainage areas less than 1 square mile.
C and X (unshaded)	Area of minimal flood hazard, usually depicted on FIRMs as above the 500-year flood level. Zone C may have ponding and local drainage problems that don't warrant a detailed study or designation as base floodplain. Zone X is the area determined to be outside the 500-year flood and protected by levee from 100-year flood.

High Risk Areas

In communities that participate in the NFIP, mandatory flood insurance purchase requirements apply to all of these zones:

ZONE	DESCRIPTION
A	Areas with a 1% annual chance of flooding and a 26% chance of flooding over the life of a 30-year mortgage. Because detailed analyses are not performed for such areas; no depths or base flood elevations are shown within these zones.
AE	The base floodplain where base flood elevations are provided. AE Zones are now used on new format FIRMs instead of A1-A30 Zones.
A1-30	These are known as numbered A Zones (e.g., A7 or A14). This is the base floodplain where the FIRM shows a BFE (old format).
AH	Areas with a 1% annual chance of shallow flooding, usually in the form of a pond, with an average depth ranging from 1 to 3 feet. These areas have a 26% chance of flooding over the life of a 30-year mortgage. Base flood elevations derived from detailed analyses are shown at selected intervals within these zones.
AO	River or stream flood hazard areas, and areas with a 1% or greater chance of shallow flooding each year, usually in the form of sheet flow, with an average depth ranging from 1 to 3 feet. These areas have a 26% chance of flooding over the life of a 30-year mortgage. Average flood depths derived from detailed analyses are shown within these zones.

ZONE	DESCRIPTION
AR	Areas with a temporarily increased flood risk due to the building or restoration of a flood control system (such as a levee or a dam). Mandatory flood insurance purchase requirements will apply, but rates will not exceed the rates for unnumbered A zones if the structure is built or restored in compliance with Zone AR floodplain management regulations.
A99	Areas with a 1% annual chance of flooding that will be protected by a Federal flood control system where construction has reached specified legal requirements. No depths or base flood elevations are shown within these zones.

Undetermined Risk Areas

ZONE	DESCRIPTION
D	Areas with possible but undetermined flood hazards. No flood hazard analysis has been conducted. Flood insurance rates are commensurate with the uncertainty of the flood risk.

Dam Failure Hazards

Hazard Characteristics

Definition

Dams are man-made structures built for a variety of uses including flood protection, power, agriculture, water supply, and recreation. When dams are constructed for flood protection, they usually are engineered to withstand a flood with a computed risk of occurrence. For example, a dam may be designed to contain a flood at a location on a stream that has a certain probability of occurring in any one year. If a larger flood occurs, then that structure will be overtopped. Overtopping is the primary cause of earthen dam failure in the United States.

Failed dams can create floods that are catastrophic to life and property as a result of the tremendous energy of the released water. A catastrophic dam failure could easily overwhelm local response capabilities and require mass evacuations to save lives. Dams typically are constructed of earth, rock, concrete, or mine tailings. Two factors that influence the potential severity of a full or partial dam failure are the amount of water impounded and the density, type, and value of development and infrastructure located downstream.

Dam failures can result from any one or a combination of the following causes:

- ✓ Prolonged periods of rainfall and flooding, resulting in excess overtopping flows
- ✓ Earthquake
- ✓ Inadequate spillway capacity, resulting in excess overtopping flows
- ✓ Internal erosion caused by embankment or foundation leakage or piping
- ✓ Improper design
- ✓ Improper maintenance
- ✓ Negligent operation
- ✓ Failure of upstream dams on the same waterway

Since 1929, the State of California is responsible for overseeing dams to safeguard life and property (California Department of Resources, 1995). This legislation was prompted by the 1928 failure of St. Francis Dam. In 1965, the law was amended to include off stream storage reservoirs due to the 1963 failure of Baldwin Hill Reservoir. In 1973, Senate Bill 896 was enacted to require dam owners, under the direction of Cal OES, to show the possible inundation path in the event of a dam failure.

Governmental assistance could be required and continued for an extended period. These efforts are required to remove debris and clear roadways, demolish unsafe structures, assist in reestablishing public services and utilities, and provide continuing care and welfare for the affected population including, as required, temporary housing for displaced persons.

Windstorm Hazards

Hazard Characteristics



Santa Ana wind conditions results in two general disaster conditions. The most common is fire fanned by the high winds. This was the situation in 1993 in Laguna Beach when a massive fire destroyed a number of homes in the surrounding hills. Wind driven flames again caused the destruction of more than 3,000 homes in Southern California in October of 2003. Other forms of disaster would be direct building damage, damage to utilities and infrastructure as a result of the high winds. This has occurred in the past few years in many southland communities including Los Angeles County.

Santa Ana winds commonly occur between October and February, with December having the highest frequency of events. Summer events are rare. Wind speeds are typically north to east at 35 knots through and below passes, and canyons with gusts to 50 knots. Stronger Santa Ana winds has gusts greater than 60 knots over widespread areas, and gusts greater than 100 knots in favored areas. Frequently, the strongest winds in the basin occur during the night and morning hours due to the absence of a sea breeze. The sea breeze which typically blows onshore daily, can moderate the Santa Ana winds during the late morning and afternoon hours. Santa Ana winds are an important forecast challenge because of the high fire danger associated with them. Also, unusually high surf conditions on the northeast side of the Channel Islands normally accompany a Santa Ana event.

The Beaufort Scale below, coined and developed by Sir Francis Beaufort in 1805, illustrates the effect that varying wind speed can have on sea swells and structures:

Table: Beaufort Scale
(Source : NOAA Storm Center)

Beaufort Force	Speed (mph)	Wind Description - State of Sea - Effects on Land
0	Less 1	Calm - Mirror-like - Smoke rises vertically
1	1-3	Light - Air Ripples look like scales; No crests of foam - Smoke drift shows direction of wind, but wind vanes do not
2	4-7	Light Breeze - Small but pronounced wavelets; Crests do not break - Wind vanes move; Leaves rustle; You can feel wind on the face
3	8-12	Gentle Breeze - Large Wavelets; Crests break; Glassy foam; A few whitecaps - Leaves and small twigs move constantly; Small, light flags are extended
4	13-18	Moderate Breeze - Longer waves; Whitecaps - Wind lifts dust and loose paper; Small branches move
5	19-24	Fresh Breeze - Moderate, long waves; Many whitecaps; Some spray - Small trees with leaves begin to move

Beaufort Force	Speed (mph)	Wind Description - State of Sea - Effects on Land
6	25-31	Strong Breeze - Some large waves; Crests of white foam; Spray - Large branches move; Telegraph wires whistle; Hard to hold umbrellas
7	32-38	Near Gale - White foam from breaking waves blows in streaks with the wind - Whole trees move; Resistance felt walking into wind
8	39-46	Gale - Waves high and moderately long; Crests break into spin drift, blowing foam in well-marked streaks - Twigs and small branches break off trees; Difficult to walk
9	47-54	Strong Gale - High waves with wave crests that tumble; Dense streaks of foam in wind; Poor visibility from spray - Slight structural damage
10	55-63	Storm - Very high waves with long, curling crests; Sea surface appears white from blowing foam; Heavy tumbling of sea; Poor visibility - Trees broken or uprooted; Considerable structural damage
11	64-73	Violent Storm - Waves high enough to hide small and medium sized ships; Sea covered with patches of white foam; Edges of wave crests blown into froth; Poor visibility - Seldom experienced inland; Considerable structural damage
12	>74	Hurricane - Sea white with spray. Foam and spray render visibility almost non-existent - Widespread damage. Very rarely experienced on land.

Santa Ana Winds and Tornado-Like Wind Activity

Based on local history, most incidents of high wind in the City of Duarte are the result of the Santa Ana and El Niño related wind conditions. While high impact wind incidents are not frequent in the area, significant wind events and sporadic tornado activity have been known to negatively impact the City. In addition, the City is increasingly concerned with “global warming” ramifications and potential increases in wind related events.

What are Santa Ana Winds?

“Santa Ana winds are generally defined as warm, dry winds that blow from the east or northeast (offshore). These winds occur below the passes and canyons of the coastal ranges of Southern California and in the Los Angeles and Orange County basins. Santa Ana winds often blow with exceptional speed in the Santa Ana Canyon (the canyon from which it derives its name). Forecasters at the National Weather Service offices in Oxnard and San Diego usually place speed minimums on these winds and reserve the use of "Santa Ana" for winds greater than 25 knots.” These winds accelerate to speeds of 35 knots as they move through canyons and passes, with gusts to 50 or even 60 knots.

“The complex topography of Southern California combined with various atmospheric conditions create numerous scenarios that may cause widespread or isolated Santa Ana events. Commonly, Santa Ana winds develop when a region of high pressure builds over the Great Basin (the high plateau east of the Sierra Mountains and west of the Rocky Mountains including most of Nevada and Utah). Clockwise circulation around the center of this high-pressure area forces air downslope from the high plateau. The air warms as it descends toward the California coast at the rate of five degrees F per 1,000 feet due to compressional heating. Thus, compressional heating provides the primary source of warming. The air is dry since it originated in the desert, and it dries out even more as it is heated.”

These regional winds typically occur from October to March, and, according to most accounts are named either for the Santa Ana River Valley where they originate, or for the Santa Ana Canyon, southeast of Los Angeles, where they pick up speed.

What are Tornados?

Tornadoes are spawned when there is warm, moist air near the ground, cool air aloft, and winds that speed up and change direction. An obstruction, such as a house, in the path of the wind causes it to change direction. This change increases pressure on parts of the house, and the combination of increased pressures and fluctuating wind speeds creates stresses that frequently cause structural failures.

In order to measure the intensity and wind strength of a tornado, Dr. T. Theodore Fujita developed the Fujita Tornado Damage Scale. This scale compares the estimated wind velocity with the corresponding amount of suspected damage. The scale measures six classifications of tornadoes with increasing magnitude from an "F0" tornado to a "F6+" tornado.

Table: Fujita Tornado Damage Scale
(Source: NOAA Storm Prediction Center)

Scale	Wind Estimated (mph)	Typical Damage
F0	< 73	Light damage. Some damage to chimneys and TV antennas; breaks twigs off trees; pushes over shallow-rooted trees.
F1	73-112	Moderate damage. Peels surface off roofs; windows broken; light trailer houses pushed or overturned; some trees uprooted or snapped; moving automobiles pushed off the road. 74 mph is the beginning of hurricane wind speed.
F2	113-157	Considerable damage. Roofs torn off frame houses leaving strong upright walls; weak buildings in rural areas demolished; trailer houses destroyed; large trees snapped or uprooted; railroad boxcars pushed over; light object missiles generated; cars blown off highway.
F3	158-206	Severe damage. Roofs and some walls torn off frame houses; some rural buildings completely demolished; trains overturned; steel-framed hangar-warehouse-type structures torn; cars lifted off the ground; most trees in a forest uprooted snapped, or leveled.
F4	207-260	Devastating damage. Whole frame houses leveled, leaving piles of debris; steel structures badly damaged; trees debarked by small flying debris; cars and trains thrown some distances or rolled considerable distances; large missiles generated.
F5	261-318	Incredible damage. Whole frame houses tossed off foundations; steel-reinforced concrete structures badly damaged; automobile-sized missiles generated; trees debarked; incredible phenomena can occur.
F6-F12	319 to sonic	Inconceivable damage. Should a tornado with the maximum wind speed in excess of F5 occur, the extent and types of damage may not be conceived. A number of missiles such as iceboxes, water heaters, storage tanks, automobiles, etc. will create serious secondary damage on structures.

Microbursts



Unlike tornados, microbursts are strong, damaging winds which strike the ground and often give the impression a tornado has struck. They frequently occur during intense thunderstorms. The origin of a microburst is downward moving air from a thunderstorm's core. But unlike a tornado, they affect only a rather small area. University of Chicago storm researcher Dr. Ted Fujita first coined the term "downburst" to describe strong, downdraft winds flowing out of a thunderstorm cell that he believed were responsible for the crash of Eastern Airlines Flight 66 in June of 1975.

A downburst is a straight-direction surface wind in excess of 39 mph caused by a small-scale, strong downdraft from the base of convective thundershowers and thunderstorms. In later investigations into the phenomena he defined two sub-categories of downbursts: the larger macrobursts and small microbursts.

Macrobursts are downbursts with winds up to 117 mph which spread across a path greater than 2.5 miles wide at the surface and which last from five to 30 minutes. The microburst, on the other hand is confined to an even smaller area, less than 2.5 miles in diameter from the initial point of downdraft impact. An intense microburst can result in damaging winds near 270 km/hr (170 mph) and often last for less than five minutes.

Downbursts of all sizes descend from the upper regions of severe thunderstorms when the air accelerates downward through either exceptionally strong evaporative cooling or by very heavy rain which drags dry air down with it. When the rapidly descending air strikes the ground, it spreads outward in all directions, like a fast-running faucet stream hitting the sink bottom.

When the microburst wind hits an object on the ground such as a house, garage or tree, it can flatten the buildings, and strip limbs and branches from the tree. After striking the ground, the powerful outward running gust can wreak further havoc along its path. Damage associated with a microburst is often mistaken for the work of a tornado, particularly directly under the microburst. However, damage patterns away from the impact area are characteristic of straight-line winds rather than the twisted pattern of tornado damage."

Tornados, like those that occur every year in the Midwest and Southeast parts of the United States, are a rare phenomenon in most of California, with most tornado-like activity coming from micro-bursts.

What is Susceptible to Windstorms?

Life and Property

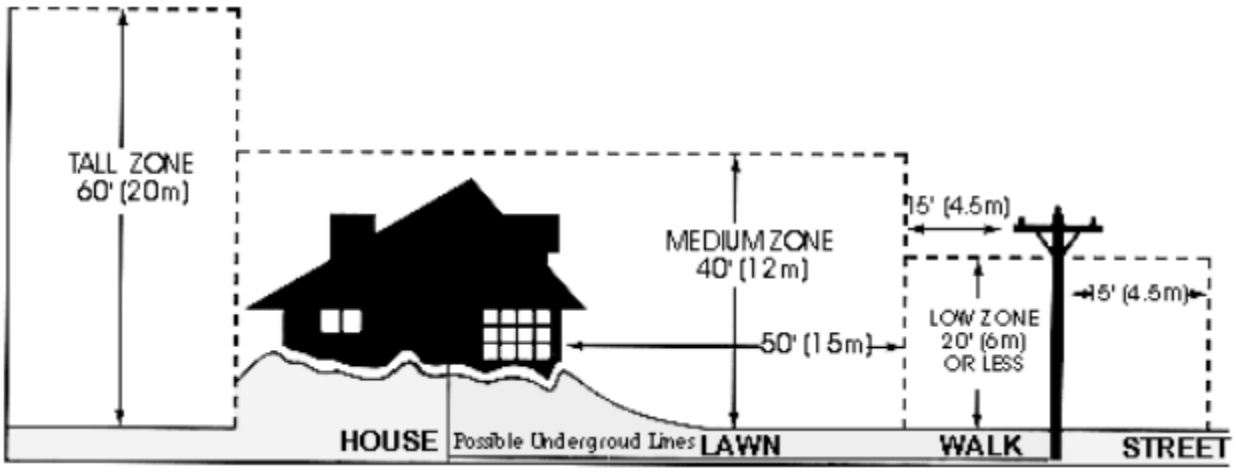
Based on the history of the region, windstorm events can be expected, perhaps annually, across widespread areas of the region which can be adversely impacted during a windstorm event. This can result in the involvement of City emergency response personnel during a wide-ranging windstorm or microburst tornadic activity. Both residential and commercial structures with weak reinforcement are susceptible to damage. Wind pressure creates a direct and frontal assault on

a structure, pushing walls, doors, and windows inward. Conversely, passing currents creates lift suction forces that pull building components and surfaces outward. With extreme wind forces, the roof or entire building can fail causing considerable damage.

Debris carried along by extreme winds can directly contribute to loss of life and indirectly to the failure of protective building envelopes, siding, or walls. When severe windstorms strike a City, downed trees, power lines, and damaged property can be major hindrances to emergency response and disaster recovery.

Utilities

Historically, falling trees are the major cause of power outages in the region. Windstorms such as strong microbursts and Santa Ana Wind conditions cause flying debris and downed utility lines. For example, tree limbs breaking in winds of only 45 mph can be thrown over 75 feet, overhead power lines are damaged, even in relatively minor windstorm events. Falling trees bring electric power lines down to the pavement, creating the possibility of lethal electric shock.



Infrastructure

Windstorms damage buildings, power lines, and other property, and infrastructure, due to falling trees and branches. During wet winters, saturated soils cause trees to become less stable and more vulnerable to uprooting from high winds.

Increased Fire Threat

Perhaps the greatest danger from windstorm activity in Southern California comes from the combination of the Santa Ana winds with the major fires that occur every few years in the urban/wildland interface. With the Santa Ana winds driving the flames, the speed and reach of the flames is even greater than in times of calm wind conditions.

Transportation

Windstorm activity impacts local transportation in addition to the problems caused by downed trees and electrical wires blocking streets and highways. During periods of extremely strong Santa Ana winds, major highways can be temporarily closed to truck and recreational vehicle traffic. However, typically these disruptions are not long lasting, nor do they carry a severe long term economic impact on the region.

Hazardous Materials Hazards

Hazard Characteristics

Definition

Hazardous materials are substances that are flammable, combustible, explosive, toxic, noxious, and corrosive, an oxidizer, an irritant, or radioactive. A hazardous material spill or release can pose a risk to life, health, or property. An incident can result in the evacuation of a few people, a section of a facility, or an entire neighborhood.



Hazardous Materials Transportation

Federal emergency planning requirements include the formation of local emergency planning committees (LEPCs). The LEPC is required to evaluate facilities using threshold quantities of extremely hazardous substances (EHS), and determine which facilities are at risk of a release or subject to additional risk due to their proximity to another facility using EHS. The LEPC is also required to identify hazardous materials transportation routes. This requirement has led Region I LEPC to develop a specific transportation element to its plan. The following represents the Region I transportation element:

Transportation of hazardous materials by air, land, or water poses a significant need to plan and coordinate emergency resources necessary to respond to hazardous materials spills and releases. These types of incidents could affect several million Californians and are potentially hazardous to both the local community, and those traveling near the incident site. First, we will discuss the different modes of transportation and the unique challenges presented for planners and emergency responders.

Air

The southern California region has several major air transportation facilities. In some instances, there may be hazardous materials incidents involving air cargo either on the aircraft or on the ground. Initial response to these incidents would be provided by airport emergency response personnel. The need may arise for additional resources to respond. Response efforts must be coordinated to ensure all personnel are made aware of the material involved and of the potential hazards. In the event of a crash of an aircraft, the major hazardous materials concerns will be fuel from the aircraft, hydraulic fluid, and oxygen systems. The threat posed by onboard hazardous cargo will be minimal. Regulations on hazardous materials shipments by air are found in 49 CFR section 175.

Water
Two major ports serve the southern California region. These are the Port of Los Angeles and the Port of Long Beach. The prime concern for these two major ports would be releases of petroleum products from both oil tankers and other large ocean-going vessels. Not only is there a significant potential from fire and explosion, the environmental effects could be catastrophic. Additionally, many other types of hazardous materials may be shipped by bulk or containerized cargo. Planners must recognize potential risks associated with vessels and port facilities in their hazard assessment. Response to water related incidents is coordinated through the Coast Guard and the California Department of Fish and Game.

Ground
Ground transportation provides the largest movement of hazardous materials and will generate the majority of incidents which will be confronted by local emergency response personnel. The three modes of ground transportation are rail, highway, and pipeline.

Rail is unique in both the quantity and types of hazardous materials which can be involved in one incident. Collisions, derailments, and mechanical failure, as well as loading and unloading, can all result in very serious hazardous materials incidents. A critical consideration for planners is a careful evaluation of the rail traffic in their jurisdiction. Rail companies as well as product manufacturers have emergency response teams available to assist local emergency responders. The United States Department of Transportation governs the transportation of hazardous materials by rail.

Highway-related hazardous materials incidents account for the vast majority of situations faced by local responders. Highway incidents range from minor releases of diesel fuel, to multiple vehicle accidents involving large quantities of multiple types of hazardous materials. A concern for planners is the fact that these incidents can occur anyplace throughout the region. Multiple agency coordination is essential for successful control and mitigation of these incidents. Section 2454 of the California Vehicle Code mandates authority for incident command at the scene of an on-highway hazardous substance incident in the appropriate law enforcement agency having primary traffic investigative authority on the highway where the incident occurs. The local governing body of the City may assign the authority to the local fire protection agency.

Pipeline incidents will typically involve compressed natural gas, or petroleum products. An important aspect for planners to consider is that pipelines are frequently out of sight and out of mind. Southern California region is honeycombed with underground pipelines ranging from a few inches to several feet in diameter. Pipelines transport products from as far away as Texas for use by local consumers. An important source of information on underground pipelines is Dig Alert. Regulation of pipeline activity is governed by the U.S. Department of Transportation and the California Public Utilities Commission.

Potential Effects of a Hazardous Materials Incident

As previously mentioned, highway accidents and incidents will constitute the majority of emergency response situations. There are two distinct facets which must be addressed in a local emergency action plan. Planners must consider the local community with fixed facilities and those individuals in transit. The following is illustrative of typical concerns which planners will encounter in addressing hazardous material occurrences.

Residential and Business Community

Chemical spills on streets and highways can impact the public in one or more of the following ways:

- ✓ Shelter-in-place
- ✓ Evacuations
- ✓ Restriction or detour of local traffic
- ✓ Damage to homes and businesses
- ✓ Injury, illness or death

Because of these potentially dangerous situations, it is necessary for emergency responders to be familiar with requirements for hazmat spill notification and to obtain and direct the resources necessary to protect public health and the environment.

Commuter/Delivery Traffic

In addition to the surrounding locale, travelers going through or near transportation incidents may be impacted in several ways:

- ✓ Exposure to harmful or flammable chemicals resulting in injury or illness
- ✓ Delayed travel
- ✓ Accidents
- ✓ Vehicle damage due to chemical contact

Agencies with on highway responsibility in LEPC Region I should become familiar with shipping corridors and traffic patterns.

Region I Transportation Needs

Research has indicated that the majority of hazardous materials incidents occur in the transportation arena. This fact strongly suggests that the region make the following recommendations for further transportation planning assessment:

- ✓ Identify various surface transporters within the region
- ✓ Determine level of training as it relates to transportation routes and notification requirements
- ✓ Evaluate emergency response resources for both public and private hazardous materials response teams
- ✓ Prioritize response resources in areas unable to respond to proportionally higher number of incidents.
- ✓ Develop standard guidelines for evacuation of populations impacted by transportation related incidents.
- ✓ Evaluate the need to perform Transportation Risk Assessment for selected high priority areas.



Region I Map

Attachments

FEMA Letter of Approval

City Council Staff Report

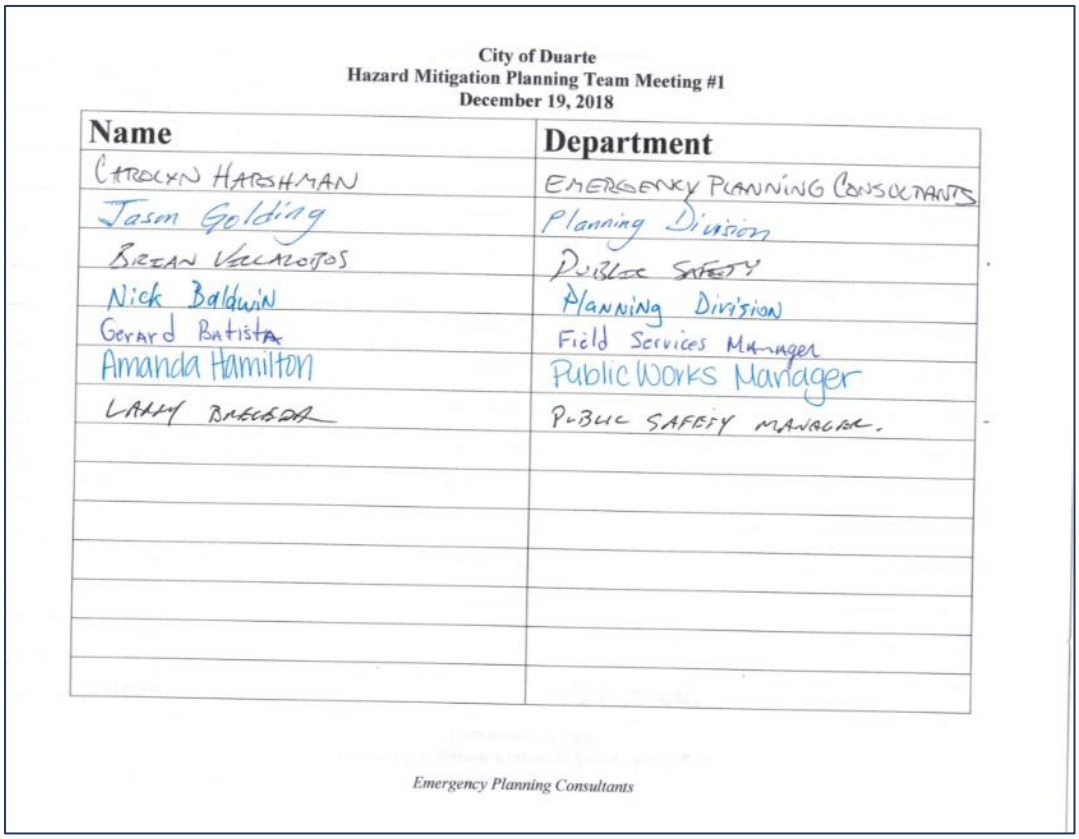
City Council Resolution

Q&A | ELEMENT A: PLANNING PROCESS | A1a.

Q: Does the plan document the planning process, including how it was prepared (with a narrative description, meeting minutes, sign-in sheets, or another method)? (Requirement §201.6(c)(1))

A: See **Sign-In Sheets** below.

Planning Team Sign-In Sheets



City of Duarte
Hazard Mitigation Planning Team Meeting #1
December 19, 2018

Name	Department
CAROLYN HARSHMAN	EMERGENCY PLANNING CONSULTANTS
Jason Golding	Planning Division
BRIAN VELARDITOS	PUBLIC SAFETY
Nick Baldwin	Planning Division
Gerard Batista	Field Services Manager
Amanda Hamilton	Public Works Manager
LARRY BAGGER	PUBLIC SAFETY MANAGER.

Emergency Planning Consultants

City of Duarte
Hazard Mitigation Planning Team Meeting #2
January 9, 2019

Name	Department
CAROLYN HARSHMAN	EMERGENCY PLANNING CONSULTANTS
Jason Golding	Community Development
Nick Baldwin	" "
Gerard C Batista	" "
BRIAN VILLALOBOS	PUBLIC SAFETY
LARRY DUECEDA	PUBLIC SAFETY
Amanda Hamilton	Public Works

Emergency Planning Consultants

City of Duarte
Hazard Mitigation Planning Team Meeting #3
February 26, 2019

Name	Department
CAROLYN HARSHMAN	EMERGENCY PLANNING CONSULTANTS
Jason Golding	Community Deppt - Planning
Nick Baldwin	" "
Gerard Batista	Community Development (Field Services)
Amanda Hamilton	Public Works
BRIAN VILLALOBOS	PUBLIC SAFETY

Emergency Planning Consultants

City of Duarte
Hazard Mitigation Planning Team Meeting #4
March 14, 2019

Name	Department
CAROLYN HARSHMAN	EMERGENCY PLANNING CONSULTANTS
Jason Golding	Planning Division
Nick Baldwin	" "
Amanda Hamilton	Public Works
Gerard Batista	Field Services
LARRY BALDERAS	PUBLIC SAFETY MANAGER.

Emergency Planning Consultants

Planning Team Agendas

Q&A | ELEMENT A: PLANNING PROCESS | A1a.

Q: Does the plan document the planning process, including how it was prepared (with a narrative description, meeting minutes, sign-in sheets, or another method)? (Requirement §201.6(c)(1))

A: See **Planning Team Agendas** below.

Agenda

City of Duarte

Planning Team Meeting #1

1. **Examine the purpose hazard mitigation.**
2. **Discuss the concepts and terms related to hazard mitigation planning.**
3. **Review the project schedule and public involvement during the plan writing phase.**
4. **Discuss initial results of Hazard Analysis and Rank Hazards.**
5. **Gather Updated Community Profile Data**
    a. **History, Geography, Land Use, Demographics, CIP**

Agenda

City of Duarte

Planning Team Meeting #2

1. **Review examples of hazard mitigation activities.**

2. **Update Existing and Develop New Hazard Mitigation Action Items.**
   a. **Action Item**
   b. **Goals Achieved**
   c. **Coordinating Agency**
   d. **Timeline**
   e. **Funding Source**
   f. **Planning Mechanisms**
   g. **Benefit, Cost, and Priority Ranking**
   h. **Does action item apply to existing or future buildings or infrastructure?**

Agenda

City of Duarte

Planning Team Meeting #3

1. **Continue to Develop Additional Mitigation Action Items - Review County of Los Angeles All-Hazard Mitigation Plan (Attachment: Mitigation Action Ideas).**

Agenda

City of Duarte

Planning Team Meeting #4

1. **Review First Draft Plan (distributed ahead of meeting to all members).**

2. **Discuss Strategy for Distributing Second Draft Plan to External Agencies and General Public. Also, discuss sending to City Council as a consent agenda (information item) in advance of submission to Cal OES/FEMA for formal review. Upon return of Approval Pending Adoption, updated Plan will be set for a public meeting with the City Council for Plan adoption.**

Q&A | ELEMENT A: PLANNING PROCESS | A3

Q: Does the Plan document how the public was involved in the planning process during the drafting stage? (Requirement §201.6(b)(1))

A: See **Stakeholders** below.

Web Postings and Notices

Website Screenshots – Landing Page and Access to Plan (posted 7.3.2019)

Landing Page (Duarte ENews)

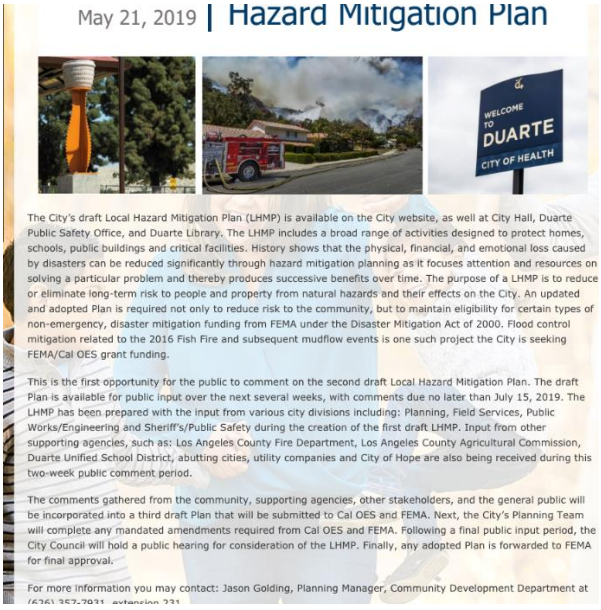
LOCAL HAZARD MITIGATION PLAN AVAILABLE FOR PUBLIC REVIEW

The City's draft Local Hazard Mitigation Plan (LHMP) is available for review on the City website, as well at City Hall, Duarte Public Safety Office, and Duarte Library. The LHMP includes a broad range of activities designed to protect homes, schools, public buildings and critical facilities. Plan is available for public review over the next several weeks, with **comments due no later than July 15, 2019.**

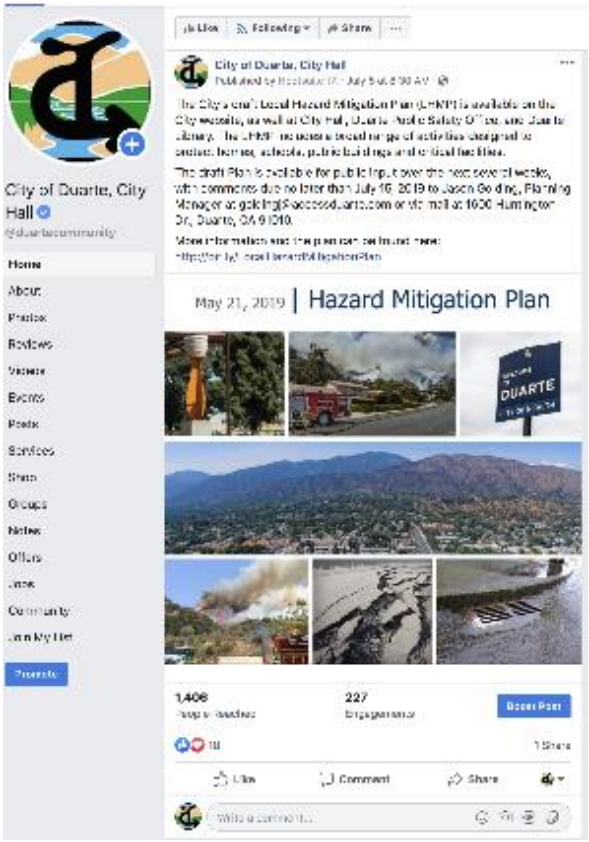
READ MORE



Website



Facebook (posted June 27, 2019)



City Hall Happenings (posted June 27, 2019)



LOCAL HAZARD MITIGATION PLAN AVAILABLE FOR COMMENT

- First opportunity for the public to comment on the draft Local Hazard Mitigation Plan (LHMP) - **comments due no later than July 15, 2019.**
- The draft Plan is available on the **City website**. Physical copies are available at City Hall, Duarte Public Safety Office and the Duarte Library.
- The purpose of the LHMP is to reduce or eliminate long-term risk to people and property from natural hazards and their effects on the City and is required to maintain eligibility for certain types of non-emergency, disaster mitigation funding from FEMA.
- One such project the City is seeking funding is for flood mitigation related to the 2016 Fish Fire and subsequent mudflow events.

MEMORANDUM

To: Mayor and City Council

From: Craig Hensley, Community Development Director
Amanda Hamilton, Public Works Manager

Date: May 12, 2020

Subject: Authorize and direct the City Manager to execute a Memorandum of Agreement with the Cities of Bradbury, Duarte, Monrovia, Sierra Madre, and the County of Los Angeles for the Rio Hondo/San Gabriel River Water Quality Group Project Concept Reports

RECOMMENDED ACTION

It is recommended the City Council authorize and direct the City Manager to execute a Memorandum of Agreement with the Cities of Bradbury, Duarte, Monrovia, Sierra Madre, and the County of Los Angeles. The Agreement is based on cost sharing among the agencies in the Rio Hondo/San Gabriel Water Quality Group for the preparation of the Multi-Benefit Stormwater Project Concept Reports in the amount of $260,735.55.

BACKGROUND

The National Pollutant Discharge Elimination System Municipal Separate Storm Sewer System Permit ("MS4 Permit", Order No. R4-2012-0175) establishes the waste discharge requirements for stormwater and non-stormwater discharges within the watersheds of Los Angeles County. The MS4 Permit was adopted by the California Regional Water Quality Control Board, Los Angeles Region ("Regional Board"), on November 8, 2012, and became effective on December 28, 2012. The MS4 Permit includes provisions that allow permittees the flexibility to customize their stormwater programs to achieve compliance over time on a watershed scale utilizing customized strategies, control measures, and Best Management Practices ("BMPs").

In May 2013, the Cities of Arcadia, Azusa, Bradbury, Duarte, Monrovia, and Sierra Madre, along with the County of Los Angeles and the Los Angeles County Flood

Control District, entered into a joint Memorandum of Understanding for cost sharing and the development of the Enhanced Watershed Management Program ("EWMP") and the Coordinated Integrated Monitoring Plan ("CIMP") or "Plans" for the Rio Hondo/San Gabriel River watersheds.

The EWMP plan was completed and submitted to the Regional Board on July 28, 2014, and subsequently approved in April 2016 with the requirement to start implementing the plan. The EWMP plan consisted of 10 regional projects and 436 lane miles of "green streets" (e.g., bio-retention, bio-filtration and permeable pavement systems within the street right-of-way that are designed to reduce runoff and improve water quality) to be completed over the next two decades. The estimated cost to implement the EWMP was $1.4 billion.

Soon after the EWMP approval, the Group began to evaluate alternative implementation strategies to determine whether a modified set of alternative projects could possibly achieve the necessary volume and load reductions at a significantly reduced cost and still achieve compliance. For example, an alternative project would utilize the area around the Peck Road Water Conservation Park ("Peck Park") as a single point of treatment rather than installing numerous smaller devices upstream of Peck Park.

In December 2016, the Group amended the Memorandum of Understanding ("MOU") to collaborate on the EWMP revision without the City of Azusa. A revised EWMP was submitted in March 2018, which was conditionally approved in March 2019 but was downgraded from a revised EWMP to a Watershed Management Program (the "WMP"). The downgrade was the result of the changes in the control measures proposed in the revised EWMP.

ANALYSIS

The Group developed a scope of services for the Multi-Benefit Stormwater Project Concept Reports Request for Proposals ("RFP"). The primary objective of the RFP is to prepare the project concept reports that include a feasibility study and 30% design plan for each of the five multi-benefit projects identified in the Group's approved WMP so that they will be suitable for grant funding applications.

The City of Arcadia will take the lead as project manager. In this role, Arcadia will be responsible for the administration of contract services and collecting and administering funds under the new MOA. The City of Arcadia will be acting in this capacity at no cost to the participating agencies. All the agencies participating are in the process of taking the MOA to their respective City Councils and/or Board for approval.

On September 23, 2019, the RFP was sent directly to 16 environmental consultants. Subsequently, the RFP was extended for two additional weeks to allow more time for

consultants to respond. Proposals were due by November 12, 2019. Although only two proposals were received, every effort was made to encourage consultants to submit a proposal. The proposals were reviewed, evaluated, and ranked by the participating agencies listed in the MOA with the following results:

RANK	FIRM	LOCATION	COST
1	Craft Water Engineering, Inc.	Los Angeles	$1,623,041
2	CWE	Fullerton	$664,463

The two proposals were reviewed and each consulting firm was ranked according to quality and responsiveness; thoroughness of the scope of work; familiarity of the project; background and experience; qualifications; and performance tasks outlined in the RFP.

Craft Water Engineering Inc. ("Craft Water") was rated highest based on a complete evaluation of the above points. While Craft Water Engineering's cost is more than CWE's, the selection was based on the Craft Water team's expertise with the existing MS4 Permit, expertise and experience developing similar plans (according to the County, a Project Concept Report is estimated to cost $300,000 per project), and their existing relationships with the Regional Board Staff, Board members, and key stakeholder groups. In addition, Craft Water Engineering assisted the Group in obtaining an approval for the revision of the Watershed Management Plan in 2019. Craft Water Engineering is in a better position to continue the momentum that was established during the WMP revision process. For example, if any issues arise with the outcome of the project concept reports, Craft Water would be better prepared to pivot and come up with a workable solution on behalf the Group. Conversely, CWE previously assisted the Group with developing the $1.4 billion original plan and the Group's experience with working with that firm was one of frustration due to project creep and other delays. Therefore, Craft Water would be a preferred vendor for this project. Due to the agreement being one of professional services in nature, the Cities are not required to select a firm based solely on price and can instead include a variety of qualitative factors when considering a proposal.

The MOA specifies the financial commitment for the implementation of the WMP for each agency based on a cost sharing formula. The total will be divided based on the agreed cost sharing formula as follows: 10% base for participation plus 90% based on each agency's land area that drains to the Los Angeles and San Gabriel Rivers. The County of Los Angeles has developed the concept and 30% design plans for two green street projects within the WMP boundaries, and is conducting preliminary investigations on a third green street project. The Group has agreed to share in the cost for the County to develop these green street projects, a total of $600,000 has been expended, and to credit the County for these costs.

Table 1 below shows the cost sharing formula and the cost of each of the participating agencies:

Table 1. Cost Allocation Formula

Agencies	Acres	Percent of Area	Base Fee (10%)	Cost based on Acres (90%)	Total Cost
City of Arcadia	11	26.51%	$37,050.68	$683,481.55	$720,532.23
City of Bradbury	1.9	4.58%	$37,050.68	$118,055.90	$155,106.59
City of Duarte	3.6	8.67%	$37,050.68	$223,684.87	$260,735.55
City of Monrovia	8	19.28%	$37,050.68	$497,077.49	$534,128.17
City of Sierra Madre	2.8	6.75%	$37,050.68	$173,977.12	$211,027.81
County of Los Angeles*	4.9	11.81%	$37,050.68	$304,459.96	$341,510.65
Total	**32.2**	**100%**	**$222,304.10**	**$2,000,736.90**	**$2,223,041.00**

*County contributed $600,000 for development of two green streets

The City of Duarte's cost share for the preparation of the Multi-Benefit Stormwater Project Concept Reports is approximately $260,735.55.

CONCLUSION

Annual costs would be divided among participating agencies based on the MOA's cost share formula. The City of Duarte's total cost for the preparation of Multi-Benefit Stormwater Project Concept Reports is approximately $260,735.55. Funds will be allocated in the FY 2020-21 Capital Improvement Program. The City of Duarte is expected to receive approximately $260,000 in local return from the Safe Clean Water Program (Measure W) annually and will be used to fund these stormwater plans/projects.

It is recommended the City Council authorize and direct the City Manager to execute the MOA for the preparation of the Multi-Benefit Stormwater Project Concept Reports for the Rio Hondo/San Gabriel Water Quality Group in the amount of $260,735.55.

Attachment A: Memorandum of Agreement between the Cities of Arcadia, Bradbury, Duarte, Monrovia and Sierra Madre and the County of Los Angeles

MEMORANDUM OF AGREEMENT

BETWEEN

THE COUNTY OF LOS ANGELES, THE CITIES OF ARCADIA, BRADBURY, DUARTE, MONROVIA AND SIERRA MADRE

REGARDING THE ADMINISTRATION AND COST SHARING FOR THE IMPLEMENTATION AND ADMINISTRATION OF THE WATERSHED MANAGEMENT PROGRAM (WMP) FOR THE RIO HONDO/SAN GABRIEL RIVER WATER QUALITY GROUP

This Memorandum of Agreement ("MOA") is made and entered into as of the date of the last signature set forth below ("EFFECTIVE DATE") by and among the COUNTY OF LOS ANGELES ("COUNTY"), a political subdivision of the State of California, and the CITIES OF ARCADIA, BRADBURY, DUARTE, MONROVIA, AND SIERRA MADRE ("CITIES"), municipal corporations. These entities shall be known herein as PARTIES or individually as PARTY.

RECITALS

WHEREAS, the Regional Water Quality Control Board, Los Angeles Region ("REGIONAL BOARD") adopted National Pollutant Discharge Elimination System Municipal Separate Storm Sewer System Permit Order No. R4-2012-0175 "MS4 PERMIT" OR "PERMIT"; and

WHEREAS, the MS4 Permit became effective on December 28, 2012, and requires that the Los Angeles County Flood Control District, COUNTY, and 84 of the 88 Cities (excluding the Cities of Avalon, Long Beach, Palmdale, and Lancaster) within the County of Los Angeles comply with the prescribed elements of the MS4 Permit; and

WHEREAS, the MS4 Permit identified the PARTIES as located within the Rio Hondo/ San Gabriel Watershed Management Area; and

WHEREAS, the PARTIES entered into a memorandum of understanding on August 29, 2013 to form the Rio Hondo/San Gabriel River Water Quality Group ("GROUP") and collaborate in the development of an Enhanced Watershed Management Program ("EWMP DEVELOPMENT MOU") in an effort to comply with the requirements of the MS4 Permit; and

WHEREAS, the PARTIES submitted an Enhanced Watershed Management Program ("EWMP") to the REGIONAL BOARD on June 28, 2015, which was approved on April 21, 2016. The REGIONAL BOARD's approval of the EWMP indicated to begin implementation immediately; and

WHEREAS, the PARTIES amended the EWMP DEVELOPMENT MOU ("FIRST AMENDED MOU") to collaborate on the initial steps to further investigate project feasibility and finalize the EWMP revision; and

WHEREAS, the pursuant to the FIRST AMENDED MOU the PARTIES agreed to work together to revise the EWMP; and

WHEREAS, the PARTIES submitted a revised Enhanced Watershed Management Program (the "rEWMP") to the REGIONAL BOARD on March 30, 2018, and

REGIONAL BOARD ultimately approved the rEWMP on March 14, 2019, but ultimately downgraded the revised program to a Watershed Management Program (the "WMP"), which was conditionally approved on March 14, 2019; and

WHEREAS, the REGIONAL BOARD's conditional approval of the WMP dated May 17, 2019 required that the PARTIES begin implementation immediately, and the PARTIES have agreed to a cost sharing formula set forth in Table 2.a of Exhibit A, which is attached and made part of this MOA; and

WHEREAS, the PARTIES collaboratively prepared a final Request for Proposal ("REQUEST") to obtain Consultant(s) to develop feasibility studies to ascertain whether the projects discussed in the WMP are feasible from a technical and financial perspective, and whether any other modifications are required by the MS4 Permit. A copy of the REQUEST is attached hereto as Exhibit B, and incorporated into this MOA by reference; and

WHEREAS, the PARTIES propose that various Consultants be retained to perform the work required by the REQUEST, at a total cost not to exceed $1,623,041; and

WHEREAS, the Consultants shall obtain approval from the Oversight Committee (defined below) for any action taken in accordance with this MOA; and

WHEREAS, the PARTIES have agreed that the CITY OF ARCADIA ("ARCADIA") will be the contracting PARTY for any agreements necessary to implement the narrow requirements of this MOA; and

WHEREAS, the COUNTY is developing the concept and 30% plans for two green street projects within the watershed's boundaries pursuant to the WMP, and has conducted preliminary investigations on a third green street project (the "GREEN STREETS PROJECTS"); and

WHEREAS, PARTIES have agreed to share the cost for COUNTY to develop these green street projects, and to credit the COUNTY for these costs as set forth in Table 2.a of Exhibit B; and

NOW, THEREFORE, in consideration of the mutual benefits to be derived by the PARTIES, and of the promises contained in this MOA, the PARTIES agree as follows:

1. Recitals. The recitals set forth above are incorporated into this MOA.

2. Purpose. The purpose of this MOA is to cooperatively fund work specifically required by the REQUEST. This MOA shall not impact the PARTIES individual obligation to otherwise comply with the requirements of the MS4 PERMIT or WMP.

3. Cooperation. The PARTIES shall cooperate in good faith with one another to implement this MOA. Notwithstanding the foregoing, it shall not be a breach of this MOA for any PARTY to withhold its consent for any decision contemplated by this MOA.

4. Term. The term of this MOA shall become effective as of the date of the last signature set forth below, and shall remain in effect until ARCADIA has provided written notice of completion of the REQUEST described herein and has provided the PARTIES with a final accounting set forth in Section 5 (d).

5. Responsibilities of ARCADIA:

(a) Contract Manager. Subject to the limitations and restrictions of this Agreement, ARCADIA shall act as the contract manager on behalf of, and for the benefit of, PARTIES, and as such agrees to invoice the PARTIES for their pro-rata share of the cost of implementing this MOA, as described in Tables 1 thru 3 of Exhibit A.

(b) Payments to Third Parties. ARCADIA shall have no obligation to pay vendors or Consultants any funds other than those funds ARCADIA owes for its proportional share, as set forth in Exhibit A, and those funds remitted by each PARTY to ARCADIA following invoice. In the event ARCADIA, in its sole discretion, elects to make a payment on behalf of a Delinquent PARTY, as defined in Section 6(d), the Delinquent PARTY shall reimburse ARCADIA the funds expended. If ARCADIA fails to timely pay vendors or Consultants for its proportional share or to forward funds remitted to ARCADIA from the PARTIES to be paid to said vendors or Consultants, as set forth in Table 3 of Exhibit A, ARCADIA shall be considered a Delinquent PARTY, and the other PARTIES shall have the same rights and remedies against ARCADIA as it (ARCADIA) would have against a Delinquent PARTY, as provided herein and particularly as described in Section 6(d), below.

(c) ARCADIA shall solicit proposals for, award, and administer Consultant contract(s) for the work specifically outlined in the REQUEST, which is attached hereto as Exhibit B and in accordance with ARCADIA's procurement requirements. ARCADIA shall not award any contracts to a Consultant contemplated by this MOA without the express written approval of all of the PARTIES pursuant to Section 6(b). The PARTIES agree, that upon execution of an agreement with a Consultant and/or vendor pursuant to this MOA, that the

Consultant(s)' or vendor activities will be directed by the Oversight Committee as set forth in Paragraph 6

(d) ARCADIA shall utilize the funds deposited by the PARTIES only for payment of the Consultant or vendor for the work performed pursuant to the REQUEST. Funds will also be used to offset and credit the COUNTY's cost-share under this MOA for work done on the two green street projects. ARCADIA will provide the PARTIES with a final accounting of funds expended and remaining at the end of the term of this MOA.

(e) ARCADIA shall provide the PARTIES with an electronic copy of any reports (drafts and final) to ultimately be submitted to the REGIONAL BOARD within 5 business days of receipt from the Consultant.

(f) ARCADIA will notify the PARTIES if actual expenditures are anticipated to exceed the cost estimates contained in Exhibit A and obtain written approval of such expenditures from all PARTIES. Upon approval of additional expenditures, the PARTIES agree to pay each PARTY'S proportional share of additional expenditures in an amount not to exceed ten (10%) percent of the current estimated cost, as shown in Table 3 of Exhibit A. This 10% contingency will not be invoiced, unless actual expenditures exceed the cost estimates found in Table 3 of Exhibit A. Expenditures that exceed the 10% contingency will require an amendment to this MOA.

(g) ARCADIA will submit on behalf of the PARTIES all SUBMITTALS approved pursuant to this MOA.

6. THE PARTIES further agree:

(a) Cooperation. The PARTIES shall make a good faith effort to cooperate with one another to achieve the purposes of this MOA by providing information about project opportunities, reviewing deliverables in a timely manner, and informing their respective administrators, agency heads, and/or governing bodies, as necessary. Notwithstanding the foregoing, it shall not be a breach of this MOA for any Party to withhold its consent for any decision contemplated by this MOA.

(b) Oversight Committee & Administration.

(i) The PARTIES agree that each PARTY shall designate a representative to act on the PARTIES' behalf. These representatives or their designee shall form the "Oversight Committee." Each member of the Oversight Committee, shall have the requisite authority to participate in the day-to-day operations of the GROUP, and shall administer the terms and conditions of this MOA on behalf of their respective PARTY, except as limited by the PARTIES' individual governing regulations, such as municipal codes or county codes. The Oversight Committee shall be

authorized to and responsible for approving all contracts with any future Contractor entered into pursuant to this Agreement. For example, members of the Oversight Committee shall still remain subject to the spending limits and/or authority limitations imposed on employees of governmental agencies for any expenditures above those set forth in Exhibit A. Any action of the Oversight Committee required or authorized by this Agreement (including direction to any consultant) shall be taken by unanimous approval. However, as a limited exception to this unanimity requirement, the scheduling of meetings and meeting locations shall be determined by a weighted majority vote, with weights assigned to each member of the Oversight Committee in accordance with the percentage of area assigned to that member's PARTY in Table 2a of Exhibit A.

(ii) In addition to the day-to-day operations, the Oversight Committee shall be authorized to approve, and be responsible for approving all reports, studies or other submittals and materials created as a result of the Consultant's implementation of the REQUEST to be submitted to the REGIONAL BOARD and/or to other agencies on behalf of the GROUP ("SUBMITTAL"). As such, within thirty (30) business days of receiving a draft SUBMITTAL, members of the Oversight Committee or their designees shall provide any revisions or comments to the Consultant, and the Consultant shall incorporate those revisions into the draft SUBMITTAL, and provide a copy of a revised SUBMITTAL to the Oversight Committee shortly thereafter. In the event the Consultant cannot incorporate a PARTY's revision due to a disagreement amongst the PARTIES and/or the Consultant, the PARTIES shall meet and confer in good faith to resolve the dispute, and the Oversight Committee may then direct the Consultant to modify the SUBMITTAL as agreed upon by the PARTIES. Within 30 business days of receiving a revised SUBMITTAL, members of the Oversight Committee or their designees shall approve in writing, or deny the Consultant's submission of the revised SUBMITTAL to the REGIONAL BOARD. Consultant shall not, and ARCADIA may not authorize Consultant to, submit any SUBMITTAL to the REGIONAL BOARD or any other public agency on behalf of the PARTIES, unless and until it/they have been approved, in writing, for submittal by all PARTIES hereto by the Oversight Committee pursuant to the requirements of this Section 6(b), excepting only a PARTY or PARTIES that has been EXCLUDED or WITHDRAWN from this MOA. Under no circumstances may any SUBMITTAL be attributed to or sent on the behalf of any PARTY or the GROUP in general that has not provided its written approval as required by this Section 6(b).

(iii) In order to approve any SUBMITTAL pursuant to this Section 6(b), each member of the Oversight Committee shall provide the following in regards to their related PARTY:

(A) Written confirmation of the PARTY's approval of the SUBMITTAL; and a

(B) Written statement that the appropriate authority has approved of the SUBMITTAL. For example, if the SUBMITTAL requires City Council approval, the member of the Oversight Committee shall confirm that the City Council provided the requisite approval.

(iv) The Oversight Committee may meet periodically, on an as-needed basis, and as agreed by the Oversight Committee.

(v) The PARTIES recognize and agree that no Oversight Committee member, or its designee may commit, bind, or in any way limit the PARTIES' individual discretion or authority, absent such representatives being granted proper authority pursuant to the PARTIES' own municipal codes and/or regulations.

(c) Payment. The PARTIES shall pay ARCADIA, subject to their annual budget authority, for their proportional share of the estimated cost for implementing this MOA, not to exceed the invoice amounts as shown in Table 3 of Exhibit A, within sixty days (60) days of receipt of the invoice from ARCADIA. The cost estimates presented in Exhibit A have been agreed upon by the PARTIES, and may be amended only by written agreement of the PARTIES, except as otherwise provided in this MOA in the event a PARTY WITHDRAWS or is EXCLUDED.

(d) Credit to County. The PARTIES agree to share in the cost of the development of the Green Streets Projects by COUNTY as set forth in Table 2.b of Exhibit A. The areas outside of the project boundaries shall be developed by Consultants. Should the credit to COUNTY exceed COUNTY's cost-share, the remaining credit may be used for a future agreement.

(e) Delinquent Payment. A PARTY's payment is considered delinquent ninety (90) days after ARCADIA sends an invoice, at which point the PARTY shall be known as a "Delinquent PARTY". Should a PARTY or PARTIES become a Delinquent PARTY or PARTIES, ARCADIA shall submit a letter to the Delinquent PARTY or PARTIES providing written notice of the PARTY's delinquent status. If the Delinquent PARTY or PARTIES remain delinquent ten days after receipt of the delinquency notice, said PARTY or PARTIES shall then be deemed to have terminated participation as a PARTY to this MOA only ("EXCLUDED PARTY") and their name(s) may be removed from any SUBMITTALs created pursuant to this MOA only after that PARTY has been EXCLUDED. Notwithstanding the foregoing, and pursuant to Section 9(l) of this Agreement, whether or not a PARTY is EXCLUDED under this section shall have no bearing on the PARTY's participation and membership within the WMP. Any EXCLUDED PARTY or PARTIES' delinquent amount(s) will be paid consistent

with the remaining PARTIES' (including ARCADIA's) pro-rata share pursuant to the cost sharing formula in Table 2 of Exhibit A, as adjusted to remove the EXCLUDED PARTY from the allocation. ARCADIA is authorized and responsible for revising Table 3 of Exhibit A to show the recalculated costs for each remaining participating PARTY in accordance with this MOA, without requiring amendment to this MOA; the revised exhibits will be included with the next invoice to the remaining PARTIES. The remaining PARTIES shall retain all contractual, legal, and equitable rights and causes of action to recover any delinquent amounts paid that were owed by an EXCLUDED PARTY or PARTIES that failed to make such payments.

(f) Interest Accrual. Any interest accrued on the funds collected per this MOA during the term of this MOA shall be refunded or credited toward any amount owed at the time of the final accounting according to the cost sharing formula set forth in Table 2.a of Exhibit A. ARCADIA shall report to the PARTIES the amount of the interest accrued on the collected funds at the time of the final accounting.

(g) Excess Funds. Any collected funds not spent in any fiscal year period shall be refunded or credited toward any amount owed by the applicable PARTY at the time of the final accounting according to the cost sharing formula set forth in Table 2.a of Exhibit A. Subject to agreement by ARCADIA, any funds which are to be reimbursed to a PARTY may be reimbursed through credits towards future invoices and agreements, if requested in writing by that PARTY.

(h) Consultant's Access. Each PARTY shall allow the Consultant reasonable access and entry, on an as needed basis, during the term of this MOA to the PARTY's storm drains, channels, catch basins, and similar properties ("FACILITIES") to achieve the purposes of this MOA, provided, however, that prior to entering any PARTY's facilities, the Consultant shall secure all necessary permits and provide written notice as required by these permits.

(i) Sharing of Information. The PARTIES agree to provide all public records in their possession and available for release to ARCADIA that are deemed necessary by the PARTIES to perform the obligations imposed by this MOA at no cost to ARCADIA. Notwithstanding the foregoing, nothing in this Agreement shall require any PARTY to provide or produce any information and/or documentation that is otherwise privileged, protected or exempt from disclosure under California's Public Records Act.

7. Indemnification.

(a) Except as otherwise provided in this paragraph, each PARTY shall indemnify, defend, and hold harmless each other PARTY, including their special districts, elected and appointed officers, employees, agents, attorneys, and designated volunteers from and against any and all liability, including, but not limited to demands, claims, actions, fees, costs, and expenses (including

reasonable attorney's and expert witness fees), arising from, and in relative proportion to, its own negligence or willful misconduct under this MOA; provided, however, that no PARTY shall indemnify another PARTY for the latter PARTY's own negligence or willful misconduct.

(b) The PARTIES agree that any liability borne by or imposed upon any PARTY or PARTIES hereto as a result of the PARTIES' implementation of this MOA and not as a result of the PARTY or PARTIES own negligence or willful misconduct, shall be fully borne by all the PARTIES in accordance with their percentage share of cost ("LIABILITY PERCENTAGE"), as set forth in the Column "Percent of Area" found in Table 2a of this MOA. Notwithstanding the foregoing, this subsection shall not apply where any liability result(s) from the actions of one or more PARTIES contemplated by subsection 7(a).

(c) If any PARTY pays in excess of its LIABILITY PERCENTAGE in satisfaction of any liability borne by or imposed upon any PARTY or PARTIES hereto as a result of the PARTIES' implementation of this MOA without negligence or willful misconduct, such PARTY shall be entitled to contribution from each of the other PARTIES; provided, however, that the right of contribution is limited to the amount paid in excess of the PARTY 's LIABILITY PERCENTAGE and provided further that no PARTY may be compelled to make contribution beyond its own LIABILITY PERCENTAGE of the entire liability; and provided that no PARTY shall indemnify another PARTY for that other PARTY's own negligence or willful misconduct.

(d) To the maximum extent permitted by law, ARCADIA shall require the Consultants retained pursuant to this MOA to agree to indemnify, defend, and hold harmless each PARTY, their special districts, elected and appointed officers, employees, attorneys, agents, and designated volunteers from and against any and all liability, including, but not limited to demands, claims, actions, fees, costs, and expenses (including attorney and expert fees), arising from or connected with the Consultants' performance under its agreement with ARCADIA which is authorized via this MOA. In addition, ARCADIA shall require the Consultants to carry, maintain, and keep in full force and effect a comprehensive insurance policy or policies, and each PARTY, their elected and appointed officers, employees, attorneys, agents and designated volunteers shall be required to be named as additional insureds on the policy(ies) with respect to liabilities arising out of the Consultants' work. These requirements will also apply to any subcontractors hired by the Consultant.

8. Early Termination or Withdrawal

(a) This MOA may be terminated upon the express written agreement of all PARTIES. If this MOA is terminated, any remaining funds not due and payable or otherwise legally committed to a Consultant(s) shall be distributed to

the remaining PARTIES (not including any EXCLUDED or WITHDRAWN PARTY or PARTIES, as defined below) so that all such remaining PARTIES have paid no more than their pro-rata share (in accordance with the most current allocation set forth in Exhibit A). Completed work shall be owned by all PARTIES at the time of completion of the work who are not EXCLUDED or WITHDRAWN PARTIES. Similarly, rights to uncompleted work by the Consultant still under contract are to be owned by the PARTY or PARTIES who are not EXCLUDED or WITHDRAWN PARTIES at such time.

(b) A PARTY may withdraw from this MOA ("WITHDRAWN PARTY") upon 60 days written notice to the other PARTIES, subject to payment of any properly issued invoice received from ARCADIA prior to or during the 60-day notice period for its share of the cost of the phase of work, as defined in Exhibit A, Table 1, underway as of the date of its notice of withdrawal, calculated in accordance with the cost sharing formula set forth in Table 2.a of Exhibit A. Table 2.b of Exhibit A shall also be adjusted to maintain consistent treatment of the County's cost sharing allocation. The effective withdrawal date shall be the sixtieth (60th) day after ARCADIA receives the withdrawing PARTY's notice to withdraw from this MOA and all required payments have been made. ARCADIA shall refund to the WITHDRAWN PARTY any unused funds paid by the WITHDRAWN PARTY's effective withdrawal date. All PARTIES understand, acknowledge, and agree that withdrawal from this MOA will terminate any responsibility, liability, or obligation of the WITHDRAWN PARTY under this MOA commencing on the effective withdrawal date.

(c) In addition to the foregoing, in the event that the numeric effluent limitations ("NELs") or NEL-related terms of the PERMIT are invalidated or otherwise declared unlawful or unenforceable by a final and non-appealable judgment of a court of competent jurisdiction, all PARTIES retain the right to withdraw from this MOA via written notice to ARCADIA, effective immediately. Should a PARTY withdraw pursuant to this Section 8(c), the withdrawing PARTY shall be liable to reimburse ARCADIA for all of its share of costs incurred pursuant to this MOA, as of the date of that withdrawal. Likewise, ARCADIA shall refund to the WITHDRAWN PARTY any unused funds paid by the WITHDRAWN PARTY's effective withdrawal date.

(d) If any PARTY withdraws from this MOA, the remaining PARTIES' cost share allocation shall be adjusted consistent with the cost sharing formula in Table 2.a of Exhibit A. Table 2.b of Exhibit A shall also be adjusted to maintain consistent treatment of the County's cost sharing allocation.

9. General Provisions.

(a) Notices. Any notices, bills, invoices, or reports relating to this MOA, and any request, demand, statement, or other communication required or permitted hereunder shall be in writing and shall be delivered to the PARTIES at

the addresses set forth in Exhibit D attached hereto and incorporated herein by reference. The PARTIES shall promptly notify each other of any change of contact information, including personnel changes, provided in Exhibit D, which notice serves to amend Exhibit D without requiring a formal amendment to this MOA. Written notice shall include notice delivered via e-mail or fax. A notice shall be deemed to have been received on (a) the date of delivery, if delivered by hand during regular business hours, or by confirmed facsimile or by e-mail; or (b) on the third (3rd) business day following mailing by registered or certified mail (return receipt requested) to the addresses set forth in Exhibit D.

(b) Authority. Each of the persons signing below on behalf of a PARTY represents and warrants that he or she is authorized to sign this MOA on behalf of such PARTY.

(c) Relationships of the PARTIES. The PARTIES are, and shall at all times remain as to each other, wholly independent entities. No PARTY to this MOA shall have power to incur any debt, obligation, or liability on behalf of any other PARTY unless expressly provided to the contrary by this MOA. No employee, agent, or officer of a PARTY shall be deemed for any purpose whatsoever to be an agent, employee, or officer of another PARTY.

(d) Binding Effect. This MOA shall be binding upon, and shall be to the benefit of the respective successors, heirs, and assigns of each PARTY; provided, however, no PARTY may assign its respective rights or obligations under this MOA without the prior written consent of all of the other PARTIES.

(e) Amendment. Except as otherwise provided in this MOA, the terms and provisions of this MOA may not be amended, modified, or waived, except by an instrument in writing signed by all PARTIES that have not withdrawn pursuant to Section 8 or been EXCLUDED by reason of an uncured delinquency of payment.

(f) Law to Govern. This MOA is governed by, interpreted under, and construed and enforced in accordance with the laws of the State of California. Venue shall be in Los Angeles County.

(g) Severability. If any provision of this MOA shall be determined by any court to be invalid, illegal, or unenforceable to any extent, the remainder of this MOA shall not be affected, and this MOA shall be construed as if the invalid, illegal, or unenforceable provision had never been contained in this MOA.

(h) Entire Agreement. This MOA constitutes the entire agreement of the PARTIES with respect to the subject matter hereof.

(i) Waiver. Waiver by any PARTY to this MOA of any term, condition, or covenant of this MOA shall not constitute a waiver of any other term, condition, or covenant. Waiver by any PARTY to any breach of the provisions of this MOA

shall not constitute a waiver of any other provision, nor a waiver of any subsequent breach or violation of any provision of this MOA.

(j) Counterparts. This MOA may be signed in multiple counterparts with the same force and effect as if all original signatures appeared on one copy; and in the event this MOA is signed in counterparts, each counterpart shall be deemed an original and all of the counterparts shall be deemed to be one agreement.

(k) Drafting. All PARTIES have been represented by counsel in the preparation and negotiation of this MOA. Accordingly, this MOA shall be construed according to its fair language. Any ambiguities shall be resolved in a collaborative manner by the PARTIES and shall be rectified by amending this MOA as described in Section 9(e).

(l) Impact on WMP. Nothing in this MOA shall be read or interpreted to authorize any PARTY or group of PARTIES to alter the terms of and/or parties to the WMP, as they are entirely separate documents. Specifically, whether a PARTY is considered EXCLUDED or WITHDRAWN as defined in this MOA, shall have no impact on whether the PARTY is still a party to the WMP.

IN WITNESS WHEREOF, the PARTIES hereto have caused this MOA to be executed by their duly authorized representatives and affixed as of the date of signature of the PARTIES:

[*Signatures on following pages*]

COUNTY OF LOS ANGELES

By _____ _____

MARK PESTRELLA Date

Director of Public Works

APPROVED AS TO FORM:

By _____ _____

MARY C. WICKMAN, County Counsel Date

CITY OF ARCADIA

By _____ _____

NAME, POSITION Date

ATTEST:

By _____ _____

NAME, City Clerk Date

APPROVED AS TO FORM:

By _____ _____

NAME, City Attorney Date

CITY OF BRADBURY

By _____ _____

NAME, POSITION Date

ATTEST:

By _____ _____

NAME, City Clerk Date

APPROVED AS TO FORM:

By _____ _____

NAME, City Attorney Date

CITY OF DUARTE

By _____ _____

DANIEL JORDAN, CITY MANAGER Date

ATTEST:

By _____ _____

MARLA AKANA, City Clerk Date

APPROVED AS TO FORM:

By _____ _____

DAVID COSGROVE, City Attorney Date

CITY OF MONROVIA

By _____ _____

NAME, POSITION Date

ATTEST:

By _____ _____

NAME, City Clerk Date

APPROVED AS TO FORM:

By _____ _____

NAME, City Attorney Date

CITY OF SIERRA MADRE

By _____ _____

NAME, POSITION Date

ATTEST:

By _____ _____

NAME, City Clerk Date

APPROVED AS TO FORM:

By _____ _____

NAME, City Attorney Date

EXHIBIT A

Rio Hondo/San Gabriel River Water Quality Group
Multi-Benefit Stormwater Project Concept Reports Contributions

Table 1. Request for Proposal Task Items

Task Items		Cost
Phase 1	Tasks 1-4	$296,774
Phase 2	Tasks 5-13	$549,980
Phase 3	Tasks 14-19	$776,287
	Green street projects developed by County[1]	$600,000
	10% Contingency	$162,304.10

Footnote:

1. Parties agree to cost-share the two green street projects already under development by the County

Table 2a. Cost Sharing Formula

Party	Acres (Developed Land)	Percent of Area[2]	Base Fee (1/6th of 10%)[1]	Cost based on Acres (90%)	Total Cost
City of Arcadia	11	34.16%	$37,050.68	$683,481.55	$720,532.23
City of Bradbury	1.9	5.90%	$37,050.68	$118,055.90	$155,106.59
City of Duarte	3.6	11.18%	$37,050.68	$223,684.87	$260,735.55
City of Monrovia	8	24.84%	$37,050.68	$497,077.49	$534,128.17
City of Sierra Madre	2.8	8.70%	$37,050.68	$173,977.12	$211,027.81
County of Los Angeles	4.9	15.22%	$37,050.68	$304,459.96	$341,510.65
Total	**32.2**	**100%**	**$222,304.100**	**$2,000,736.90**	**$2,223,041.00**

1. Each City's Base Fee cost share equals 1/6th of 10% of total contracted costs.
2. Based on percent of developed land in each Party area of the total watershed area (excludes Angeles National Forest land)

Table 2b. Cost Sharing w/ Credit to County

Party	Total Cost	Total Cost Adjusted
City of Arcadia	$720,532.23	$720,532.23
City of Bradbury	$155,106.59	$155,106.59
City of Duarte	$260,735.55	$260,735.55
City of Monrovia	$534,128.17	$534,128.17
City of Sierra Madre	$211,027.81	$211,027.81
County of Los Angeles[1]	$341,510.65	$0
Total	**$2,223,041.00**	**$1,881,530.35**

1. County's $341,510.65 will be credited with the $600,000 spent on developing 2 green street projects. The balance of $258,489.35 may be credited to the County in a future cost-sharing agreement.

Table 3. Annual Cost-Share / Invoice Amount

Cost Formula:

A. 10% Base = [(Total Consultant costs) X 10%] /6 parties

B. 90% Land Use = [(Total Consultant costs X90%] X Percentage of total land area (not including Angeles National Forest)

	Multi-Benefit Stormwater Project Feasibility Studies FY 19-20 (Phases 1 & 2)	**Multi-Benefit Stormwater Project Feasibility Studies FY 20-21** (Phases 3 & 4)	**Total Costs**
Arcadia	$360,266.12	$360,266.11	$720,532.23
Bradbury	$77,553.30	$77,553.29	$155,106.59
Duarte	$130,367.78	$130,367.77	$260,735.55
Monrovia	$267,064.09	$267,064.08	$534,128.17
Sierra Madre	$105,513.91	$105,513.90	$211,027.81
County of Los Angeles	$0	$0	$341,510.65*
Total	**$940,765.20**	$940,765.15	**$2,223,041.00**

County's $341,510.65 will be credited with the $600,000 spent on developing 2 green street projects. The balance of $258,489.35 may be credited to the County in a future cost-sharing agreement.

On or before November 30th of each year, the Oversight Committee shall review the Invoicing Schedule may adjust the percent of Cost Share Allocations due each year as deemed necessary for such reasons including, but not limited to, revision in Contracted Costs, Scope of Work, scheduling of work, and/or costs related to environmental review. However, any such adjustment and/or modification shall require approval by the Oversight Committee.

EXHIBIT B

"REQUEST FOR PROPOSALS"

RIO HONDO/SAN GABRIEL RIVER WATER QUALITY GROUP

REQUEST FOR PROPOSALS

FOR MULTI- BENEFIT STORMWATER PROJECT CONCEPT REPORTS

RIO HONDO
SAN GABRIEL
RIVER WATER QUALITY GROUP

Administered by:	City of Arcadia
Administered on behalf of:	Cities of Arcadia, Bradbury, Duarte, Monrovia, and Sierra Madre, and County of Los Angeles
Issuance Date:	September 23, 2019
Request for Information/ Clarification Due Date:	October 10, 2019 at 5:00 p.m.
Proposal Due Date:	Tuesday, October 22, 2019 at 11:00 a.m.
Interview:	Wednesday, October 30, 2019
Submit Proposal to:	City of Arcadia Office of the City Clerk Attn: Vanessa Hevener, Environmental Services Officer 240 West Huntington Dr. P.O. BOX 60021 Arcadia, CA 91066-6021

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PURPOSE

BACKGROUND

PROJECT DESCRIPTION

1. Arcadia Arboretum Natural Treatment and Groundwater Recharge Facility
2. Rio Hondo Ecosystem Restoration Project and Arcadia Wash Water Conservation Diversion
3. Encanto Park
4. Basin 3E Enhancements at Santa Fe Spreading Grounds Project
5. Green Streets (Big Dalton Wash and Eaton Wash)

SCOPE OF WORK – PHASE 1

1. Geotechnical Evaluation
2. Preliminary Environmental Site Screening (PESS)
3. Seismic Analysis
4. Utility Search

SCOPE OF WORK – PHASE 2

5. Environmental Evaluation
6. Field Work
7. Topographic and Seismic Survey
8. Hydrology
9. Community and Stakeholder Outreach
10. Develop Stormwater Capture Capacity and Conduct Water Quality Analysis
11. GIS Maps
12. Water Conservation
13. Feasibility Report

SCOPE OF WORK - PHASE 3

14. Permits
15. Project Cost and Schedule
16. Safe Clean Water Program Scoring Criteria
17. Operational and Maintenance
18. Monitoring Plan (Optional)
19. Final Deliverable

SCOPE OF WORK – PHASE 4 (OPTIONAL)

20. Environmental Documentation/Permits

PURPOSE

The Rio Hondo/San Gabriel River Water Quality Group (Group) on behalf of the Cities of Arcadia, Bradbury, Duarte, Monrovia and Sierra Madre, and County of Los Angeles (County), is seeking proposals from qualified professional consultants to prepare a feasibility study for five structural regional Best Management Practice (BMP) projects and green street projects that have been identified in the Rio Hondo/San Gabriel River Water Quality Group's Watershed Management Program (WMP).

BACKGROUND

The National Pollutant Discharge Elimination System (NPDES) Municipal Separate Storm Sewer System, Permit Order No. R4-2012-0175 (MS4 Permit) was adopted on November 8, 2012 by the Los Angeles Regional Water Quality Control Board (Regional Board) and became effective December 28, 2012. The MS4 Permit provides Permittees an option to implement stormwater programs through the development of an Enhanced Watershed Management Program (EWMP) to demonstrate water quality standards compliance. The Cities of Arcadia, Azusa, Bradbury, Duarte, Monrovia, Sierra Madre, County and Los Angeles County Flood Control District (LACFCD) formed the Rio Hondo/San Gabriel River Water Quality Group (Group) (**Figure 1)** and developed their EWMP Plan to submit to the Regional Board. The Final EWMP Plan was submitted on June 28, 2015 and received the Regional Board's Final approval on April 21, 2016. Subsequently, in March 2018, the Group submitted proposed modifications to its EWMP in the form of a Revised Enhanced Watershed Management Program or rEWMP. The Proposed Revised EWMP entails extensive and significant modifications to the Group's existing EWMP, including an updated Reasonable Assurance Analysis, changes to watershed control measures, and changes to compliance schedules (while the City of Azusa was a member of the RH/SGR WQG during development of the 2016 EWMP, they are not included as a member agency participating in the update). The Final WMP Plan is posted on the Regional Board's website and can be access with the following link:

https://www.waterboards.ca.gov/losangeles/water_issues/programs/stormwater/municipal/watershed_management/san_gabriel/rio_hondo/index.html

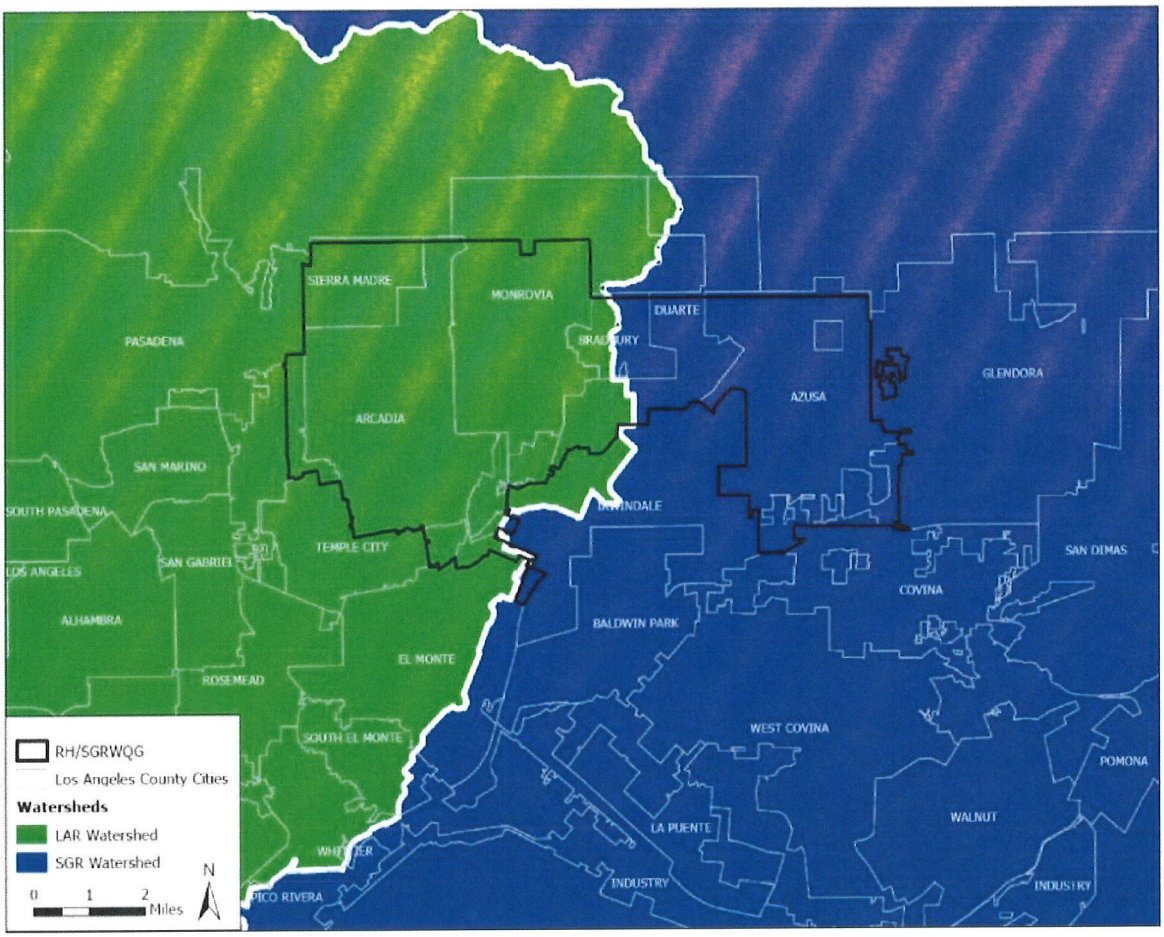


Figure 1 - Rio Hondo/San Gabriel River Water Quality Group (excluding City of Azusa)

The WMP Plan identifies five regional projects that propose infiltration trenches, infiltration basins and subsurface infiltration systems as well as green streets. The five structural regional BMP projects, listed below for this scope of work, include the five regional projects and green street projects from the WMP.

BMP Project	Watershed
Arboretum Natural Treatment and Groundwater Recharge Facility	Rio Hondo/Los Angeles River
Rio Hondo Ecosystem Restoration Project & Arcadia Wash Water Conservation Diversion	Rio Hondo/Los Angeles River
Basin 3E Enhancements at Santa Fe Spreading Grounds Project	San Gabriel River
Encanto Park	San Gabriel River
Big Dalton Wash Green Streets	Big Dalton Wash/San Gabriel River
Rio Hondo Green Streets	Eaton Wash/Rio Hondo

In order to take the next step towards implementing the WMP, the Group is seeking information to identify the feasibility and facilitate the five potential BMP projects and green streets into the design phase which are shown in **Figure 2**.

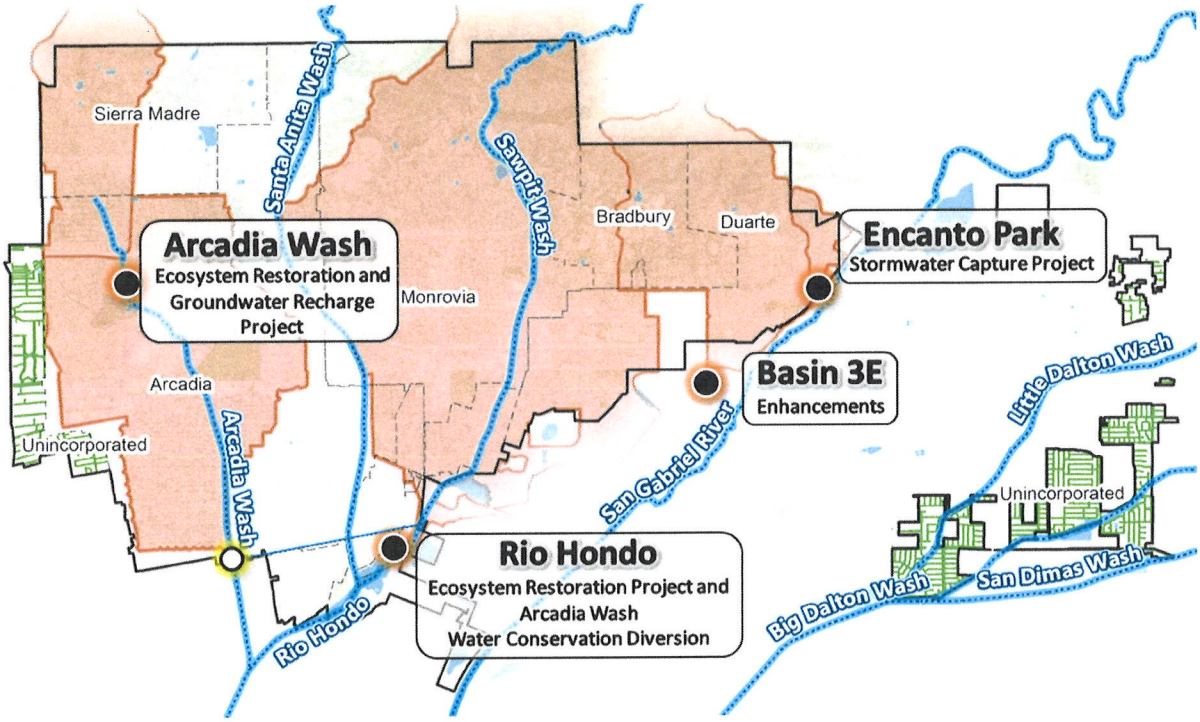


Figure 2 – Proposed Regional BMP Project Sites and Green Streets

PROJECT SITE DESCRIPTIONS

1. ARBORETUM NATURAL TREATMENT AND GROUNDWATER RECHARGE FACILITY

The regional BMP system will divert runoff from Arcadia Wash to a sediment forebay for pretreatment, with flows then entering a wetland surrounded by two groundwater recharge ponds. This system will have a controlled outlet with pump station to convey up to 1 cfs of treated water through a meandering stream to Baldwin Lake. The site layout is provided in Figure 3.

The LACFCD is managing a Baldwin Lake and Tule Pond Restoration Project, which will require coordination.

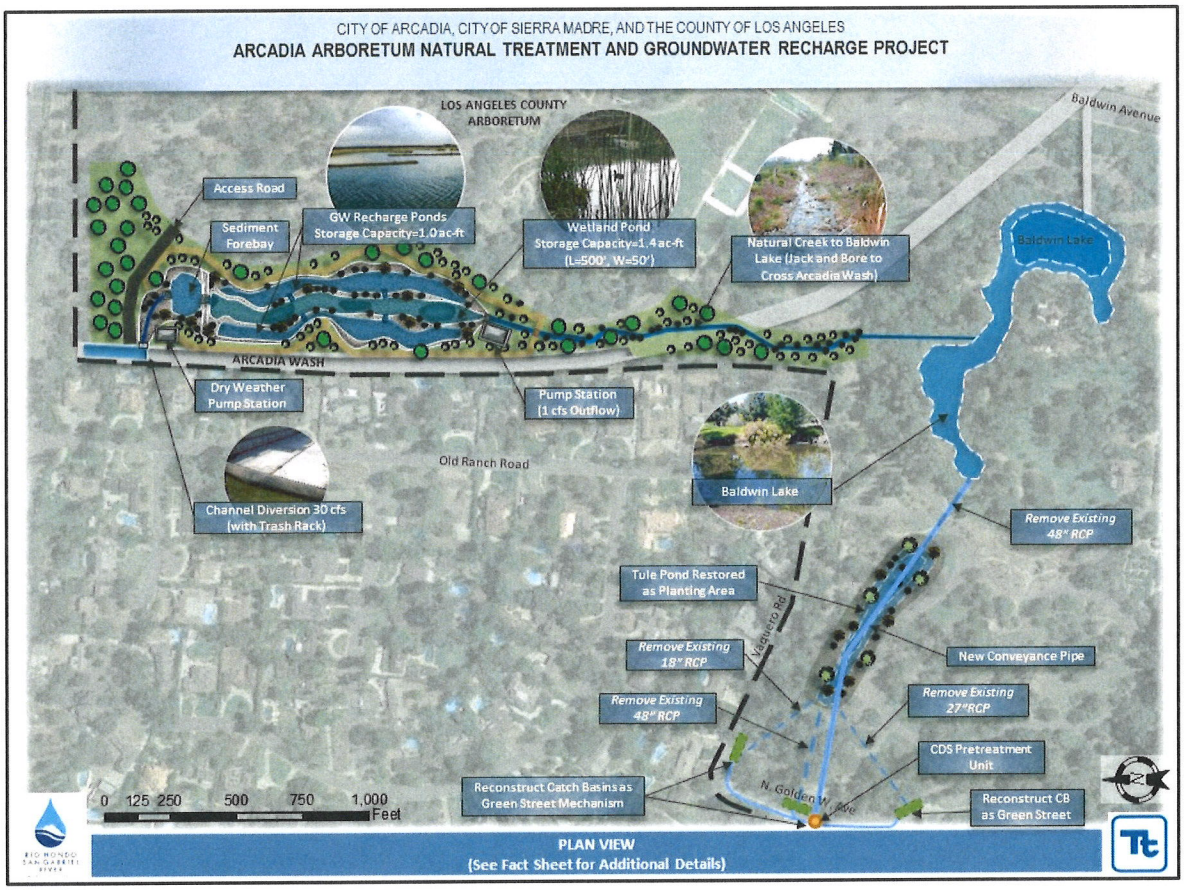


Figure 3 – Arboretum of Los Angeles County

Arboretum Design Parameters	
Design Parameter	
Assumed Drainage Area (acres)	1,633
Total Footprint (acres)	.06
Load Reduction (lb/yr)	35.7
Volume Addressed (acre-feet)	TBD by Consultant

2. RIO HONDO ECOSYSTEM RESTORATION PROJECT AND ARCADIA WASH WATER CONSERVATION DIVERSION

The concept for the Rio Hondo Ecosystem Restoration stormwater BMP and Arcadia Wash Water Conservation Diversion is split into two phases. These phases are discussed below.

Phase 1 – Arcadia Wash Water Conservation Diversion

Phase 1 of this Regional BMP System will focus on water conservation efforts for Arcadia Wash to recharge water into the San Gabriel Groundwater Basin. This phase will not only provide water conservation benefits by recharging flow from Arcadia Wash, but will also provide incidental water quality benefits to help meet the 50% milestone for the LA River Metals TMDL. Phase 1 of this project is primarily a water conservation project, and is considered an update to the baseline watershed model rather than a water quality BMP.

Runoff from Arcadia Wash will be diverted to a pretreatment device at the intersection of Live Oak Avenue and conveyed approximately 10,000 to the east to Sawpit Wash. The flows will be conveyed via gravity until passing Santa Anita Wash, at which point a pump station will be used to lift the flows for continued gravity flow to Sawpit Wash.



Figure 4 – Phase 1

Phase 2 – Rio Hondo Ecosystem Restoration Project

Phase 2 of this project is where the majority of the regional water quality benefits will be achieved. This phase combines the water conservation benefits from Phase 1 with the additional pollutant load reduction and habitat restoration benefits provided by a constructed wetland. This project will also provide a natural treatment system to the downstream spreading basin at Peck Park. A temporary inundation area adjacent to the wetland will allow for groundwater recharge as well.

Phase 2 of this project will divert runoff from Sawpit Wash (and the Phase 1 Arcadia Wash flows) to convey stormwater flows to a sediment basin before entering an 8.3-acre constructed wetlands habitat with adjacent groundwater recharge basins prior to discharge into the Peck Road Water Conservation basins and to the downstream Rio Hondo Channel. See Figure 4 for the Phase 2 site layout.



FIGURE 4 – Phase 2

Rio Hondo Ecosystem Restoration/Conservation Diversion Design Parameters	
Design Parameter	
Assumed Drainage Area (acres)	15,777
Total Footprint (acres)	33
Load Reduction (lb/yr)	818.3

Volume Addressed (acre-feet)	TBD by Consultant

3. ENCANTO PARK STORMWATER CAPTURE PROJECT

The regional BMP system will divert runoff from the existing 72-inch RCP LACFCD storm drain within a concrete diversion structure, into an 18-inch diameter pipe, from the storm drain to a pretreatment device. Flows from the pretreatment device will enter and underground infiltration gallery via gravity. The site layout is provided in Figure 5.

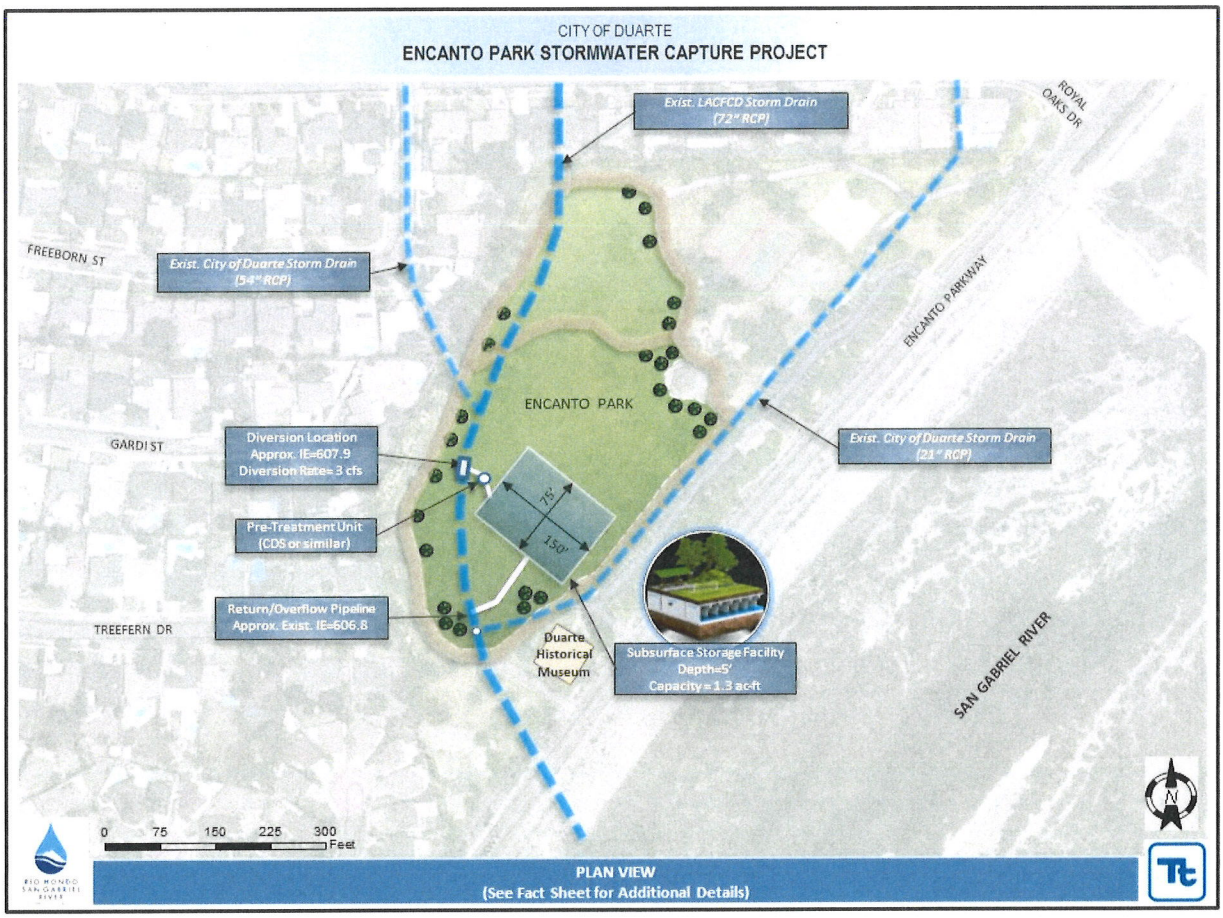


Figure 5 – Encanto Park

Encanto Park Design Parameters	
Design Parameter	
Assumed Drainage Area (acres)	180 acres
Total Footprint (acres)	1.3
Load Reduction (lb/yr)	64.3
Volume Addressed (acre-feet)	

4. BASIN 3E ENHANCEMENTS AT SANTA FE SPREADING GROUNDS PROJECT

The regional BMP system will enhance the existing flood control detention basin at the Santa Fe Spreading Grounds (SFSG) by constructing a sediment forebay with an energy dissipating mechanism for pretreatment. Flows from the sediment basin will spill over a concrete weir to a secondary basin where water will be filtered through a sand filter media with a geotextile bottom and perforated underdrains to convey treated flows to the San Gabriel River. There will be a second concrete weir with overflow that will drain into a smaller basin that will provide additional treatment as well as utilize the downstream portion of the basin that is not needed for the water quality sizing. The site layout is provided in Figure 6.

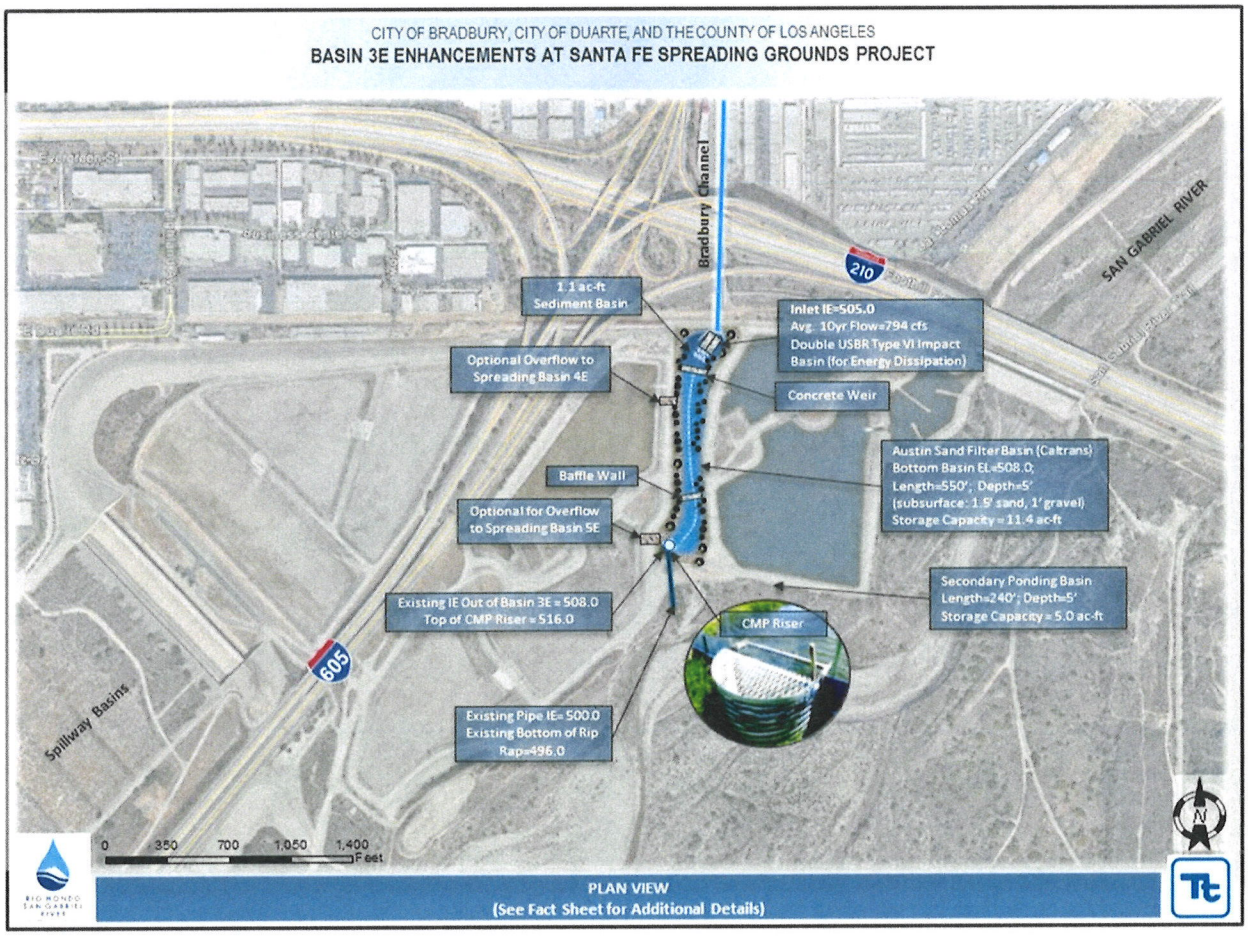


Figure 6 – Basin 3E

BASIN 3E ENHANCEMENTS AT SANTA FE SPREADING GROUNDS Design Parameters	
Design Parameter	
Assumed Drainage Area (acres)	2,137 acres
Total Footprint (acres)	3.
Load Reduction (lb/yr)	54.7 (3.7%
Volume Addressed (acre-feet)	

5. GREEN STREETS (BIG DALTON WASH AND EATON WASH)

Green streets and distributed stormwater control measures are required to meet the pollutant reduction targets of the WMP in areas not draining to a multi-benefit regional projects (specifically, in the Big Dalton Wash watershed and portions of the WMP area that drain downstream from the Rio Hondo compliance point via Eaton Wash). The WMP assumed bioretention for green streets, but all available BMPs shall be explored, including but not limited to bioretention, biofiltration, modular wetlands, infiltration galleries, dry wells, etc. The WMP green street strategy will be augmented during adaptive management. An illustration of the regional BMP footprint is presented in **Figure 7**. The required design parameters are in **Table 1**. Close coordination with the County is required to avoid project overlap with 2 existing green street projects that are already underway (see Tech Memos 3 and 4 of Exhibit __).

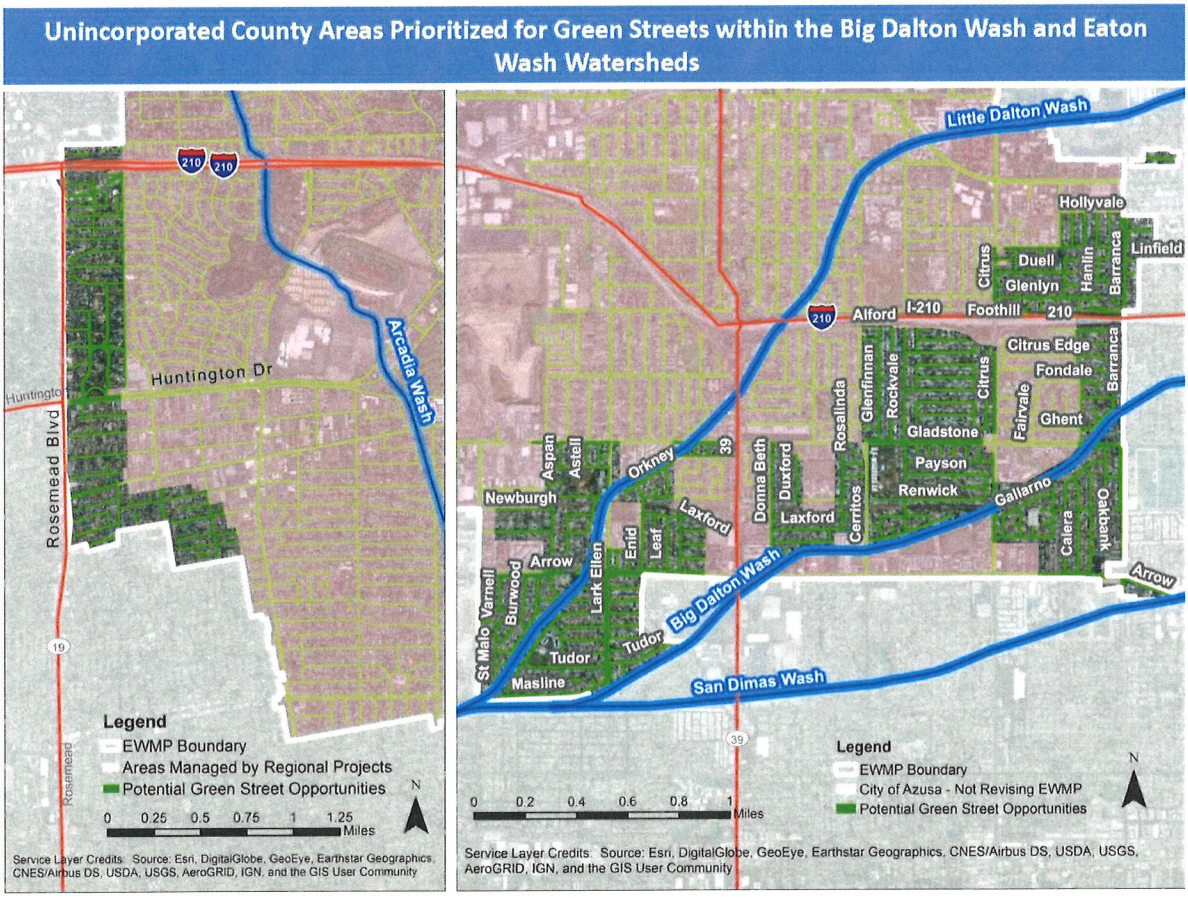


Figure 7 – Green Streets

Table 1 – Green Streets Design Parameters		
Design Parameter	**Big Dalton Wash**	**Eaton Wash**
Assumed Drainage Area (acres)	674.7	326.6
Total Footprint (acres)	3.8	5.2
Load Reduction (lb/yr)	54.7 (3.7%)	59.5 (18.4%)
Volume Addressed (acre-feet)		

See Exhibit ___ for available technical memos, preliminary drainage area boundaries, suggested locations of BMPs, engineering reports, etc.

SCOPE OF WORK – PHASE 1

The tasks for this scope of work shall be performed in three phases, with an optional phase 4. Phase 1 shall include Tasks 1 through 4 for all projects, with the exception of 2 green street projects already in progress and managed by the County, and shall be conducted in Fiscal Year 2019-20. The services to be performed in Phase 1 by the Consultant shall include, but not be limited to, the following items of work:

1. **Utility Search**
   The Consultant will identify the appropriate right-of-way, conduct a utility search, and propose a design that avoids or resolves utility conflicts. For example, evaluations for dry well must include consideration to distance from power lines and underground utilities. The presence of extensive utility conflicts may affect the feasibility of a proposed project element.

   Deliverable: Utility Search Report

2. **Geotechnical Evaluation**

   The Consultant will conduct a geotechnical evaluation to provide a reasonable understanding of the subsurface conditions and the ability to infiltrate at the proposed location and depth, including, but not limited to, a cone penetration test, a hollow stem test, and/or an infiltration test. The Consultant will utilize Los Angeles County Public Works' guidelines for preparing geotechnical reports and investigating subsurface conditions for constructing stormwater infiltration BMPs. The results of the geotechnical investigation will be utilized to fine tune the project to maximize infiltration.

   Available Information: Los Angeles County Department of Public Works' guidelines at

   http://dpw.lacounty.gov/gmed/permits/docs/manual.pdf
   http://dpw.lacounty.gov/gmed/permits/docs/policies/GS200.1.pdf

   Deliverables: Geotechnical report.

3. **Preliminary Environmental Site Screening (PESS)**
   The Consultant will conduct a preliminary environmental site screening for each project to determine if environmental conditions would prohibit subsurface infiltration of captured stormwater due to potential negative impacts to the environment, and research best available data to analyze the known plumes of pollutants that extend from many sites that could affect ground water if a source of water was introduced.

   Deliverable: The Consultant will prepare a PESS memo to summarize the results of the screening and provide recommendations on whether infiltration is feasible given the current geologic conditions surrounding each site.

4. **Seismic Analysis**
   The Consultant will conduct appropriate seismic analysis for each site to determine if geological conditions would prohibit subsurface infiltration of captured stormwater due to potential negative impacts to the environment.

   Deliverable: The Consultant will prepare a seismic analysis memo to summarize the results of the analysis and provide recommendations on whether infiltration is feasible given the current geologic conditions surrounding each site.

SCOPE OF WORK – PHASE 2

Upon completion of Phase 1, the Rio Hondo/San Gabriel Water Quality Group shall obtain the approval of the Oversight Committee to proceed with Phase 2. The tasks for Phase 2, Tasks 5 thru 13, may or may not be performed for all projects. The Consultant shall not proceed with Phase 2 until they receive a written authorization to proceed. Upon authorization, the services to be performed in Phase 2 may occur in Fiscal Year 2019-20 by the Consultant and shall include, but not be limited to, the following items of work:

5. **Environmental Evaluation/Documentation**
   The Consultant will review and evaluate the required environmental clearance processes to satisfy the California Environmental Quality Act (CEQA), National Environmental Policy Act (NEPA), and any other environmental requirements including historical, cultural, etc. processes.

   Deliverable: Environmental evaluation report and recommendation (Initial Study and/or Environmental Assessment)

6. **Field Work**
   The Consultant will perform onsite visual inspection of each proposed BMP project location and its contributing watershed and will verify the tributary drainage areas for each site, as well as the existing storm drain locations and type, catch basins, open channels, etc. and prepare AutoCAD and GIS documentation. The Group will provide previous analysis.

   Deliverable: AutoCAD and GIS maps and documentation showing tributary drainage areas and existing storm drain structures

7. **Topographic and Seismic Survey**
   The Consultant will acquire/prepare topographic mapping, surface, earthquake fault, and utility survey and existing storm drain plans and infrastructure plans from the County and City sources and determine the watersheds that contribute to each regional BMPs including hydrological and hydraulic analyses.

   Deliverable: A topographic map in AutoCAD format

8. **Hydrology**

The Consultant will conduct a hydrology study for each of the proposed project areas. The Consultant will do a detailed hydrology study and examine existing infrastructure for flow direction to determine precise tributary boundaries. This is to include calculation of:

- 85th percentile storm volume for each tributary and project
- Stormwater capture potential per year based on the average storm year

Deliverable: Hydrology Study

9. **Community and Stakeholder Outreach**

The Consultant will propose community and stakeholder outreach strategy for each of the proposed project areas. With the approval of the WMG Group, the Consultant will conduct as-needed outreach and propose alternatives to the project scope, limits, and elements. It is anticipated that the green streets project for the County Unincorporated Area tributary to Rio Hondo (via Eaton Wash) will require outreach to the local residents. Stakeholders may include, but not limited to: LACFCD, U.S. Army Corp of Engineers, etc.

Deliverables:

1. Community and Stakeholder Outreach Strategy
2. Outreach Activities including staffing and developing outreach materials
3. Submittal to LACFCD for scope review (EPIC-LA)
4. Outreach Report, including any changes and alternatives in projects scopes to address issues

10. **Develop Stormwater Capture Capacity and Conduct Water Quality Analysis**

The Consultant will determine the maximum potential drainage area that could be captured by the Project. It should be assumed that prior to analysis; guidance from the Project Manager will be given on available project footprint. The Consultant will develop the following stormwater capture capacity options:

Option 1. BMP size that will achieve water quality standards for the Project tributary area should flow through treatment BMP be selected.

Option 2. BMP size that is most cost-effective for the Project tributary area.

Option 3. BMP size that will capture the 85th percentile, 24-hour storm volume.

Option 4. BMP size that will provide the largest amount of stormwater capture to allow for greater flood protection downstream.

Option 5. Any other BMP size that the Consultant determines will best achieve multi-benefits, including but not limited to addressing stormwater quality and providing local flood relief.

The Consultant will also develop recommendations for the BMP location and type as well as the location, type, and size of pre-treatment systems and diversion structures for each option.

The Consultant will obtain and review all necessary data to complete the task. If the available information is incomplete, the Consultant will perform all tasks necessary to develop the design capacity options. The Consultant must follow Los Angeles County Public Works' standards for conducting hydrologic and hydraulic analyses. The 2006 Hydrology Manual can be found at:

https://dpw.lacounty.gov/wrd/publication/engineering/2006_Hydrology_Manual/2006%20Hydrology%20Manual-Divided.pdf

The Consultant will use the Watershed Management Modeling System (WMMS), and WMMS 2.0 when it is available, to support the design of stormwater capture capacity. The Consultant will evaluate available water quality data most relevant to the Project site and follow the Regional Board's guidelines for conducting water quality modeling for the Project, including model calibration. Model runs to include amounts of pollutant removed per 85th percentile storm and in total during an average storm year.

WMMS: http://dpw.lacounty.gov/wmd/wmms/,WMMS input and output files for the project based on the concept developed in the WMP, Regional Board's Guidelines for Conducting Reasonable Assurance Analysis in a Watershed Management Program, Including an Enhanced Watershed Management Program, dated March 25, 2014, and monitoring data from the Rio Hondo/San Gabriel River Water Quality Group.

Deliverable: Stormwater Capture Capacity Options Report and WMMS and WMS input and output files

11. **GIS Maps**
    The Consultant will prepare a GIS map for each project to identify the proposed regional BMP locations in an exhibit along with jurisdictional boundaries; prepare aerial mapping of where the diversion structures would be located, how and where will the conveyance (storm drain) system for the water quality flows be located and determine the percentage from each jurisdiction that is tributary to the proposed BMP.

    Deliverable: GIS Maps

12. **Water Conservation**
    The Consultant will determine the potential annual groundwater recharge volume.

    Optional Task: The Consultant will also incorporate a stormwater reuse design if desired by the City or RH/SGR WQG members

    Deliverable: Water Conservation Analysis

13. **Feasibility Report**
    The Consultant will provide a Feasibility Report that includes all the elements of the previous tasks.

    Deliverable: Feasibility Report for each project

SCOPE OF WORK – PHASE 3

Upon completion of Phase 2, the Rio Hondo/San Gabriel Water Quality Group shall obtain the approval of the Oversight Committee to proceed with Phase 3. The tasks for Phase 3, Tasks 14 thru

19, may or may not be performed for all projects. The Consultant shall not proceed with Phase 3 until they receive a written authorization to proceed. Upon authorization, the services to be performed in Phase 3 may occur in Fiscal Year 2020-21 by the Consultant and shall include, but not be limited to, the following items of work:

14. Permits

The Consultant will analyze each proposed location with respect to land use, existing uses, wildlife habitat, LA County Flood Control Division and Army Corp of Engineers permits, Right-of-Way ownership, possible joint use with the parks, easement requirements, legal ramifications and joint agreements. Identify all potential permits and/or agreements that will need to be obtained or executed prior to construction of the each of the projects. The Consultant will also clarify the permit process to obtain an encroachment permission and related fees from other agencies such as Railroads, LADPW/LACFCD, Army Core of Engineers, Department of Fish and Wildlife, special districts and Cities prior to commencement of investigation at the site.

Deliverable: Required permit(s) report

15. Project Cost & Schedule

The Consultant will prepare a conceptual engineer's cost estimate and construction schedule for up to five regional projects and green streets based on the information obtained from the investigations included in this scope of work and prepare a project schedule utilizing MS Project (or equivalent) for each task in the scope of work and take into consideration the phased scope of work and the time needed for agencies to review and provide comments.

Deliverable: Project schedule and cost

16. Safe Clean Water Program (SCWP) Scoring Criteria

The Consultant will conduct preliminary score for each project based on the Safe Clean Water Program Scoring Criteria. The Consultant is to identify ways that the project can be enhanced to reach the next higher rant and provide a write-up.

Deliverable: SCWP Scoring Criteria and identification of methods for higher ranking

17. Operation and Maintenance

The Consultant will develop a draft operation and maintenance plan that can be updated upon completion of final design plans. The Operation and Maintenance Plan should include cost estimates and address vector control concerns.

Deliverable: Operation and maintenance plan

18. Monitoring Plan (Optional)

The Consultant will develop a baseline monitoring plan and a long-term post project monitoring plan to determine water quality improvements and water supply benefits. At the request of Project Manager, the plans may include habitat restoration monitoring.

Deliverables: Baseline Monitoring Plan and Long-Term Post Project Monitoring Plan.

19. Final Deliverable

Based on the findings from each task in the scope of work, submit a Preliminary Project Concept Report and 30% design plans for each project. The Report will be a compilation of all of the components above to present the overall concept of the project. See Attachment XX

Deliverable: Final Deliverable

CONSULTANT SELECTION

A Project Review Committee will review and evaluate all proposals submitted. The Committee will evaluate all proposals received and may interview top ranked Consultants if it is deemed necessary. The Project Review Committee will make the selection of the Consultant for this work based on a combination of the following criteria:

1. **Project Understanding**
   Comprehension of the scope of work included in the project, awareness of the Permittee's needs, identification of the work elements, sequence of operations, project objectives, completeness in answering the Request for Proposal.

2. **Project Team**
   Identification of person in charge of the project, including qualifications, technical backgrounds and experience of all key personnel to be assigned to this project.

3. **Experience**
   Relevant technical experience and projects completed demonstrating the ability and capacity to perform the work included in this project. Experience with municipal government projects and familiarity with public contract bidding requirements are very desirable.

4. **Budget and Schedules**
   Ability to deliver required documents meeting the anticipated schedule for this project. Techniques used for controlling costs and attaining project objectives within time and budget constraints. Record of firm in accomplishing its work on schedule, within a budget and in providing realistic cost estimates.

5. **Project Approach**
   Originality and soundness of firm's approach to the project, including unique, innovative or cost saving methods.

6. **Capabilities**
   Staff and facilities available, location of offices, current workload, including commitment of staff to the project and technology applications.

7. **Local Sensitivity**
   Familiarity with the Permittees, drainage facilities, and the project vicinity.

8. **Reputation**
   Past clients, repeat business, stature in the industry, awards earned, etc.

9. **Full Service**
   Qualifications, technical backgrounds and experienced of sub-consultants, contractors, etc. used on this project. Discipline coordination, service from project beginning to completion.

10. Selection Criteria

The City of Arcadia on behalf of the RH/SGRWQG will conduct a comprehensive, fair, and impartial evaluation of proposals received in response to this RFP. All proposals received will be reviewed and evaluated by a committee of qualified personnel. The name, information, or experience of the individual members will not be made available to any proposer. The Project Review Committee will first review and screen all proposals submitted, except for the cost proposals, according to the minimum qualifications set forth above. The following criteria will be used in reviewing and comparing the proposals and in determining the highest scoring bid:

a. Qualifications, background and prior experience of the firm in the Service Area(s) being proposed, experience of the key staff assigned to oversee services provided, evaluation of size and scope of similar work performed and success on that work (40%).
b. Responsiveness to the RFP, and quality and responsiveness of the proposal (10%)
c. References including past performance of the Proposer (20%).
d. Cost and fees to the RH/SGRWQG WMP group for handling matters. Cost is not the sole determining factor but will be taken into consideration. Proposer must offer services at a rate of the Proposer. If rates differ for different types or levels of service, or for different Service Areas, the Proposer should so state (30%).

RIGHT TO REJECT ALL PROPOSALS

The City of Arcadia reserves the right to accept or reject any or all proposals, negotiate modifications to proposals that it deems acceptable, to request and consider additional information from any proposer, and to waive minor irregularities and technical defects in this proposal process. The City reserves the right to seek new proposals when it determines that it is in the best interest to do so. No representation is made that any contract will be awarded pursuant to the Request for Proposal. The City will provide only the staff assistance and documentation specifically referred to herein and will not be responsible for any other cost or obligation that may be incurred by the respondent. All proposals submitted to the City shall become the property of the City.

PROFESSIONAL SERVICES AGREEMENT

The City of Arcadia's standard Professional Services Agreement template for Consulting Services is attached as Appendix A and will be used for this contract, which at a minimum will include the terms set forth in the Professional Services Agreement template. The information provided by the selected firm's proposal will serve as the basis for negotiation. Negotiations may then be undertaken with the review committee's second choice or ceased altogether. If an agreement is reached with the Consultant, a contract for the work will be prepared in final form, executed by the Consultant, accompanied by the appropriate certificates of insurance, together with the required endorsements, and returned to the City of Arcadia for approval and execution.

PROPOSAL REQUIREMENTS

The City of Arcadia reserves the right to award a contract for all or some of the tasks specified in the Scope of Work, and has therefore requested that all proposals include at minimum a breakdown of costs on a task by task basis.

1. **Proposal Submittal**
   Proposals are due by **Tuesday, October 22, 2019 at 11:00 a.m.** Please submit ten (10) copies and one (1) electronic copy of the technical proposal and two (2) copies of the sealed fee to:

   City of Arcadia
   Office of the City Clerk
   Attn: Vanessa Hevener, Environmental Services Officer
   240 West Huntington Dr.
   P.O. BOX 60021
   Arcadia, CA 91066-6021

   Questions regarding this Request for Proposal or requests for additional background information may be directed by email to Ms. Vanessa Hevener at vhevener@arcadiaca.gov by October 10, 2019 no later than 5:00 p.m.

2. **Proposal Format**
   Proposals must include the information requested and comply with the requirements outlined in this Request for Proposal. Proposals should, at minimum, address the Scope of Work and should be formatted to include the following sections:
   a. **Perception and Approach:** Demonstrate an understanding of the Project and how the project will be approached including steps to ensure ultimate compliance with objectives of the MS4 NPDES Permit.
   b. **Key Personnel:** Qualifications with respect to this project, responsibilities to be assigned, amount of each individual's time to be allocated, locations where the work will be performed.
   c. **Project Management:** Provide examples that demonstrate capability in management of projects of this scope. Include a sample monthly report, procedure for monitoring progress, providing cost control, and to maintain the project on schedule.
   d. **Fee Proposal:** Submit two (2) copies in separate sealed envelopes, plainly labeled "Fee Proposal", including a not-to-exceed fee for all work to be completed. The fee summary should also include a cost and man-hour breakdown consistent with the requirements of the Scope of Work, and a project schedule that accounts for all tasks.

3. **Cover Letter**
   All proposals shall include a cover letter which states, at a minimum that the proposal shall remain valid for a period of not less than ninety (90) days from the date of submittal.

4. **Required Information**
   Proposal must include the minimum information as outlined below:

a. Legal name of firm, address, and telephone number
b. Firm's Tax Identification Number
c. Year firm was established as currently being operated
d. Identification of the Project Manager assigned to this project
e. Name, address, and telephone number of the person to whom correspondence should be directed
f. List of subconsultants, if any, who will be part of the project team including their specific areas of responsibility
g. General description of the structure of the organization (i.e., whether an individual, partnership, corporation, joint venture, etc.)
h. A minimum of four references that the City of Arcadia may contact concerning the firm's performance on similar projects
i. Representative listing of contracts that are of a similar nature to the required work for which the firm has been engaged, paying particular attention to those of the last four years in the Southern California/Los Angeles and Orange County areas for consulting engineering services.

COST OF PROPOSAL PREPARATION

Any party responding to this RFP shall do so at their own risk and cost. The City of Arcadia shall not, under any circumstances, be liable for any pre-contractual expenses incurred by any Proposer who elects to submit a proposal in response to this RFP or by any Proposer that is selected. Pre-contractual expenses are defined as expenses incurred by Proposers and the selected Proposer, if any, in:

- Preparing a Proposal and related information in response to this RFP;
- Submitting a Proposal to the City;
- Negotiations with the RH/SGRWQG WMP group on any matter related to this RFP;
- Costs associated with interviews, meetings, travel or presentations; or
- Any and all other expenses incurred by a Proposer prior to the date of award, if any, of an agreement, and formal notice to proceed.

GENERAL REQUIREMENTS

Minimum Qualifications

The firm and any sub-consultants must be legally qualified to practice the work requested in the State of California. Sub-consultants performing more than 5% of the work must be approved by the City of Arcadia. Previous professional work, demonstrated capabilities and experience of the project team, and Project Manager on similar projects, must be documented and will be a heavily weighted factor in the selection process.

The Consultant's commitment of staff to the project will also be a heavily weighted factor in the selection process. Only staff who will, in fact, commit a substantial percentage of their time to the work should be set forth in any organization charts, resumes, or interviews. A Project Manager is to be designated by name and may not be changed without prior written approval by the City of Arcadia. Significant deviations from proposed staff may result in a reduction of the Consultant's fee or termination of the contract. Additionally, the City reserves the right to have

the Consultant remove and replace the Project Manager or any project staff member or sub-consultant from the project for cause.

Quality of Work

The Consultant agrees to deliver quality products and services that meet or exceed generally accepted industry standards (or best practices) and those, which have been expressly stated herein as requirements. Products which fail to meet these standards will not be accepted. The Consultant will be wholly responsible for correcting any deficiency at no additional cost to the City. The Consultant's proposal shall include a detailed description of quality assurance procedures that are to be used on the project.

Insurance

The Consultant shall maintain commercial general liability insurance and professional liability (errors and omissions) insurance in the aggregate limit of $1,000,000 each during the term of the proposed Consultant (see Appendix B). Prior to the start of work, the Consultant shall furnish a Certificate of Insurance in duplicate, naming the Cities of Arcadia, Bradbury, Duarte, Monrovia, Sierra Madre, and County of Los Angeles, its officers, agents and employees as additional insured under the policy. Consultant shall also furnish proof of workers' compensation liability insurance.

Business License Requirement

The successful firm shall purchase a City of Arcadia Business License prior to commencing work.

Non-disclosure of Information

Any consultant hired to perform work under this project, shall take reasonable and prudent measures to safeguard all information used in the development of the work products and all draft and final work products including the information in this RFP. The Consultant shall not disclose this information to any party, or use the project data or information on any other project, without the express consent of the City of Arcadia or as required by Federal law. The City shall ensure that the same is required of any sub-consultants working under the Consultant.

CITY OF ARCADIA
ARCADIA, CALIFORNIA

ADDENDUM NUMBER 1

To all prospective proposers for the

Feasibility Study for the Multi-Benefit Stormwater Project Concept Reports

The following information is provided to all proposers in accordance to the Request for Proposals:

1. The original proposal due date of Tuesday, October 22, 2019 has been extended. The **NEW** proposal due date is:

   TUESDAY, NOVEMBER 12, 2019 at 11:00 AM

   Proposals must be received at the **Office of the City Clerk, located at 240 W. Huntington Drive, Arcadia, CA 91007**, no later than the above extended date and time. Proposals received after this time will be returned unopened.

2. The **NEW** deadline to submit questions on proposal requirements is Thursday, October 31, 2019 by 5:00 PM.

Date: October 16, 2019

BY ORDER OF THE CITY OF ARCADIA

By: _____
Vanessa Hevener
Environmental Services Officer

CITY OF ARCADIA
ARCADIA, CALIFORNIA

ADDENDUM NUMBER 2

To all prospective proposers for the

Feasibility Study for the Multi-Benefit Stormwater Project Concept Reports

The following information is provided to all proposers in accordance to the Request for Proposals that are due on **Tuesday, November 12, 2019 at 11:00 AM at the Office of the City Clerk, located at 240 W. Huntington Drive, Arcadia, CA 91007**:

1. Green Streets Investigations RHSGR Technical Memo – Location 3
2. Green Streets Investigations RHSGR Technical Memo – Location 4
3. Green Streets Investigations RHSGR Technical Memo – Location 5

Date: October 29, 2019

BY ORDER OF THE CITY OF ARCADIA

By: _____
Vanessa Hevener
Environmental Services Officer

GREEN STREETS INVESTIGATIONS
RIO HONDO/SAN GABRIEL RIVER

TECHNICAL MEMO – LOCATION 3

PROJECT SCOPE

- Location: Unincorporated Community of Azusa (TG pages 599-B2, C2)
- Tributary area: Total area = 41.6 acres, Pipe Flow = 0 acres, Surface Flow = 41.6 acres
- San Gabriel River Watershed RAA Volume: 4.84 acre-feet
- Area Jurisdiction – 97.2% within County & 2.8% within the City of Glendora

Stormwater Quality Division requested Design Division (DES) to conduct a green street feasibility study for various locations in the Rio Hondo/San Gabriel River watershed. These locations were submitted to Stormwater Engineering Division (SWED) to prepare tributary area maps showing the drainage area for each location. Based on the tributary area for Location 3 provided by SWED (see Attachment 3), DES conducted a field reconnaissance to identify potential locations for Low Impact Development (LID) features (see Attachment 1 for location maps). The following requests were then submitted to the following support divisions to provide necessary information to assess the feasibility of each location.

Division	Information Requested	Date Requested	Attachment
Construction	Preliminary Utility Search	June 22, 2017	N/A*
Geotechnical & Materials Engineering (GMED)	Preliminary Environmental Site Screening (PESS)	June 20, 2017	5
	Cone Penetration Test (CPT)	August 1, 2017	4

*Preliminary Utility Search responses are on file and available upon request.

FEASIBILITY REVIEW

Review Categories

Category	Description
Subarea	References the subarea number in the hydrology map prepared by SWED (see Attachment 3). Subareas are sorted generally from upstream to downstream storm drain flow.
ID	Number provided to reference individual LID features within one catchment area.
PESS	'X' indicates potential presence of contaminated soils in this location. Confirmation of this contamination will require the depth range of the proposed LID and additional file reviews from GMED.
Utility Search	'X' indicates potential conflict with one or more utilities. Due to the margin of error associated with aerial, property line, and utility information, the exact locations of utilities need to be confirmed through potholing.
CPT	'X' indicates this location may not be suitable for infiltration due to a soil profile consisting primarily of clayey material or a shallow groundwater table. Further subsurface investigation by GMED is

	warranted to completely exclude the location from onsite infiltration. Biofiltration may still be possible.
Feasibility Tier	Provides a ranking of proposed locations based on all review categories. No potential issues were found at Tier 1 locations and should be considered priority for further development. Tier 2 locations may have a combination of potential utility and infiltration issues. Tier 3 locations have potential soil contamination and may have additional issues. These are recommended as a last priority.

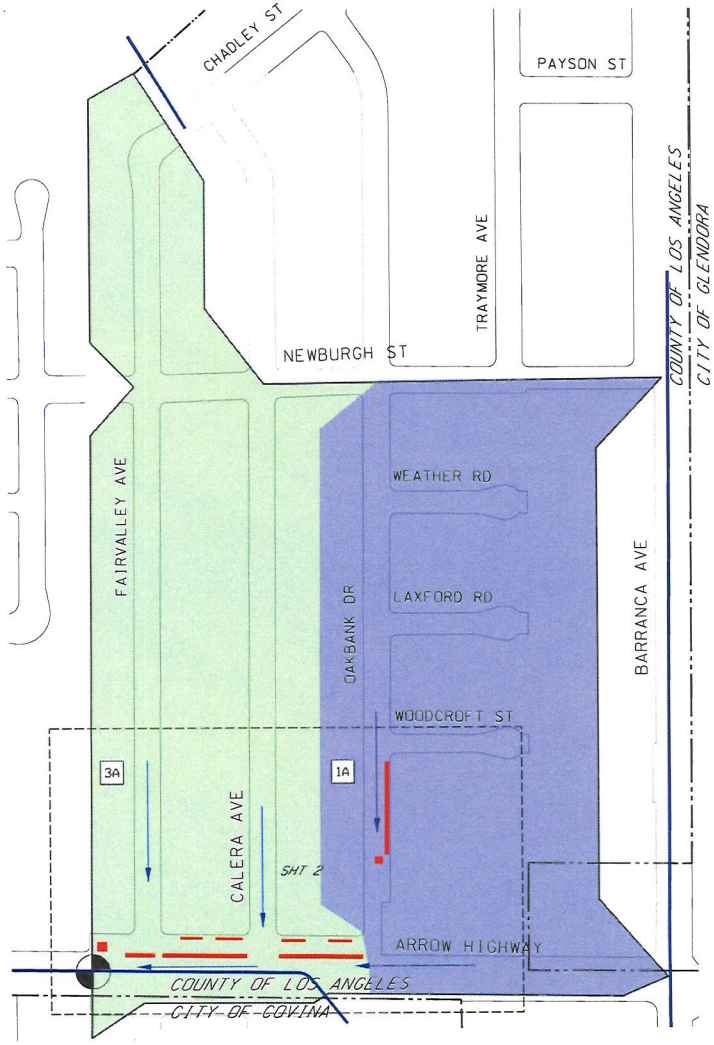
Review Results

The below table summarizes DES's findings for the potential LID locations based on a concept level investigation. Further investigation is required during the Project Design Concept Phase to confirm the impact of the issues on the proposed scope of work. See Attachment 2 for schematic diagrams of the proposed features.

				Potential Issues			
Subarea	**V85th (ac-ft)**	**Cumulative V85th (ac-ft)**	**ID**	**PESS**	**Utility Search**	**CPT**	**Feasibility Tier**
1A	0.861	0.861	3-1				1
			3-2				1
			3-3				1
			3-4				1
			3-5				1
			3-6				1
			3-7				1
			3-8				1
3A	0.755	1.616	3-9				1
			3-10				1

ATTACHMENT I

LOCATION MAPS



PLAN
NO SCALE

LEGEND

- PROPOSED LID
- SUBAREA BOUNDARY
- 1A SUBAREA NUMBER
- FLOW DIRECTION
- EXISTING STORM DRAIN
- LOCATION 3

DRAFTER	DESIGNER	CHECKER	CADD PROJECT FILE NAME	REVIEWED BY	DATE

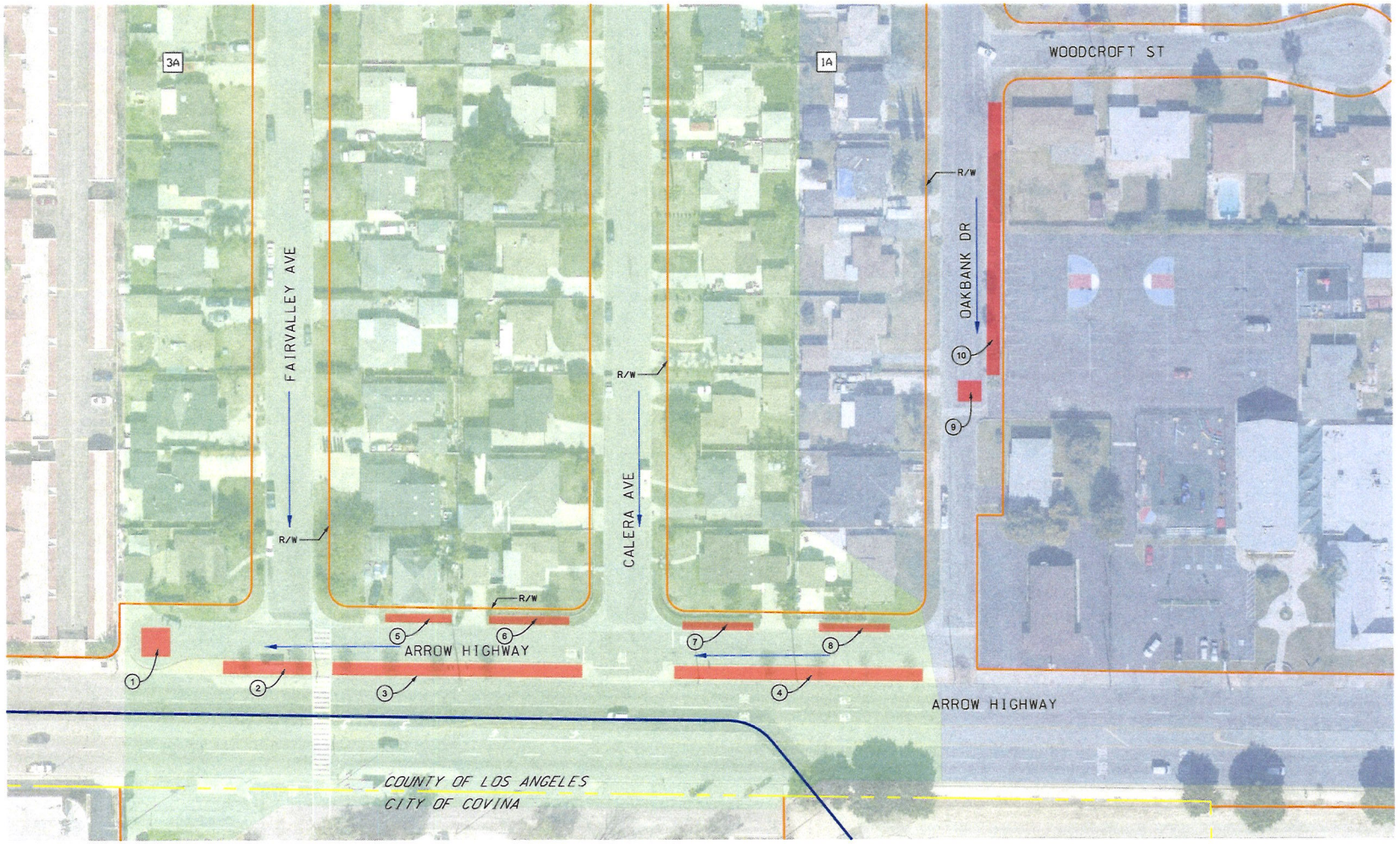
COUNTY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS

GREEN STREET INVESTIGATIONS
RIO HONDO SAN GABRIEL

LOCATION 3

KEY MAP

PCA	DWG	SHEET 1 OF 2



N

PLAN
NO SCALE

LEGEND

- PROPOSED LID FEATURE
- (#) PROPOSED LID FEATURE ID
- SUBAREA BOUNDARY
- 1A SUBAREA NUMBER
- FLOW DIRECTION
- EXISTING STORM DRAIN

DRAFTER	DESIGNER	CHECKER	CADD PROJECT FILE NAME	REVIEWED BY	DATE

COUNTY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS

GREEN STREET INVESTIGATIONS
RIO HONDO SAN GABRIEL

LOCATION 3

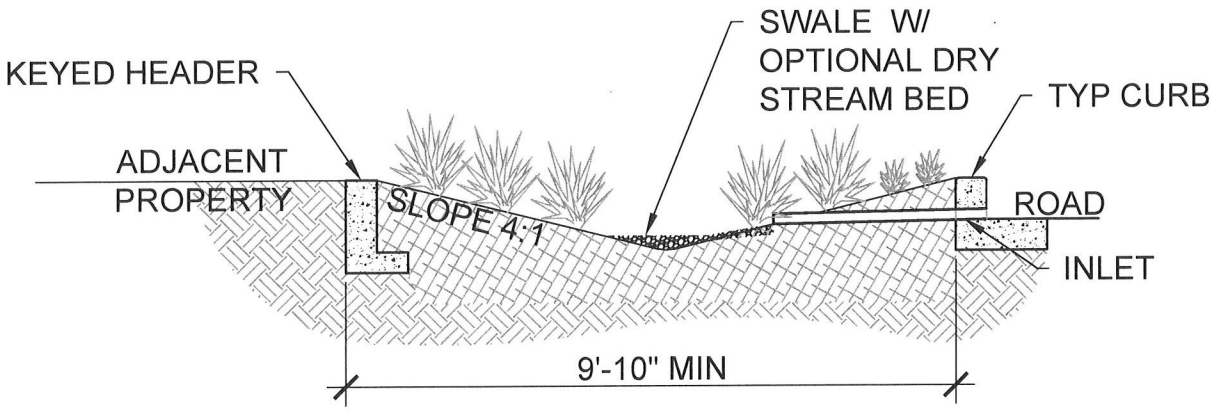
LOCATION MAP

PCA	DWG	SHEET 2 OF 2

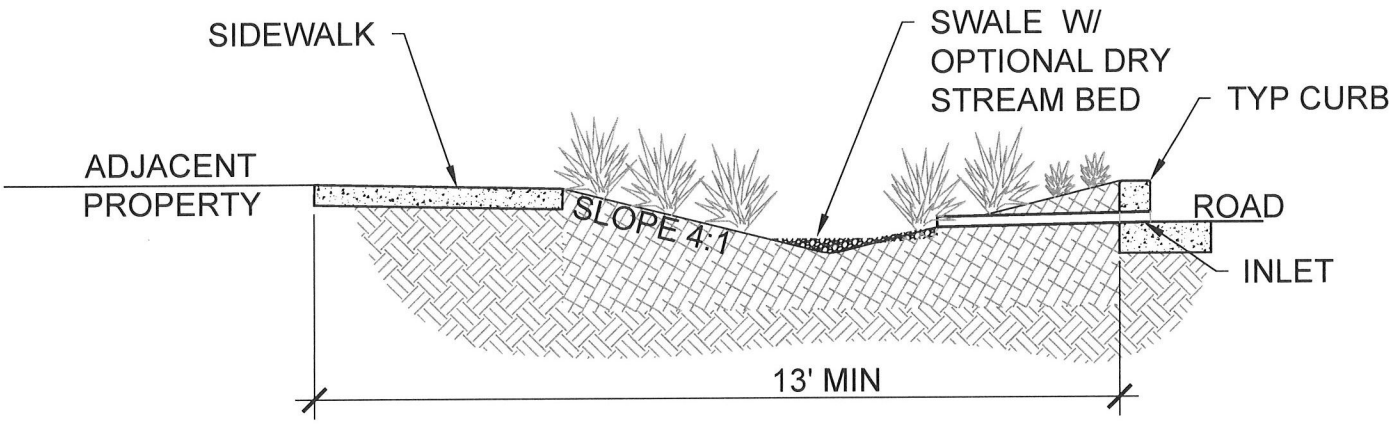
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ATTACHMENT II

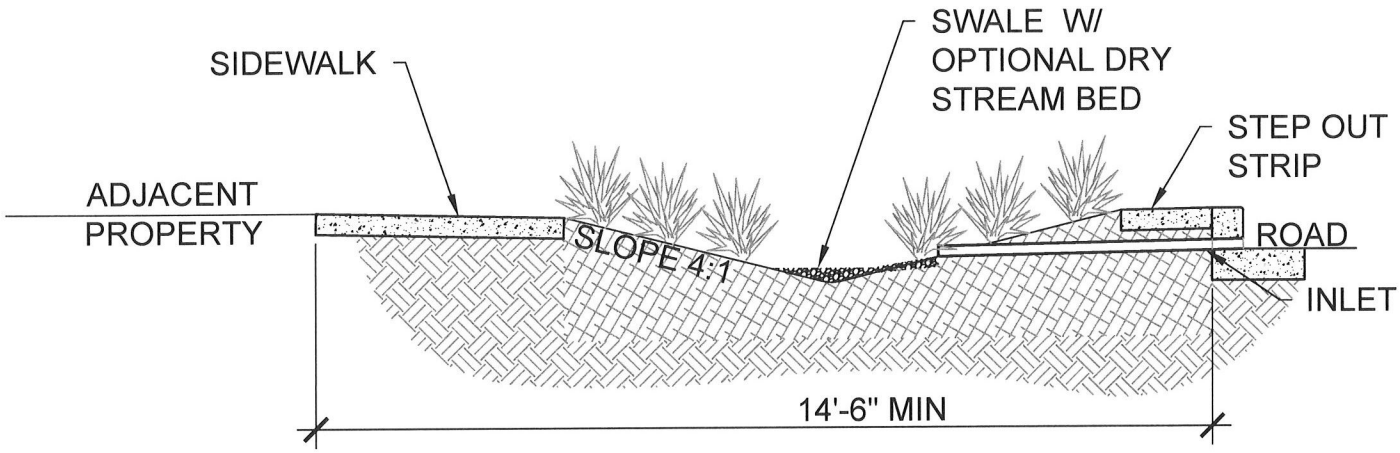
LID FEATURE TYPICAL SECTIONS



SECTION VIEW - AREAS WITHOUT SIDEWALKS AND NO PARKING



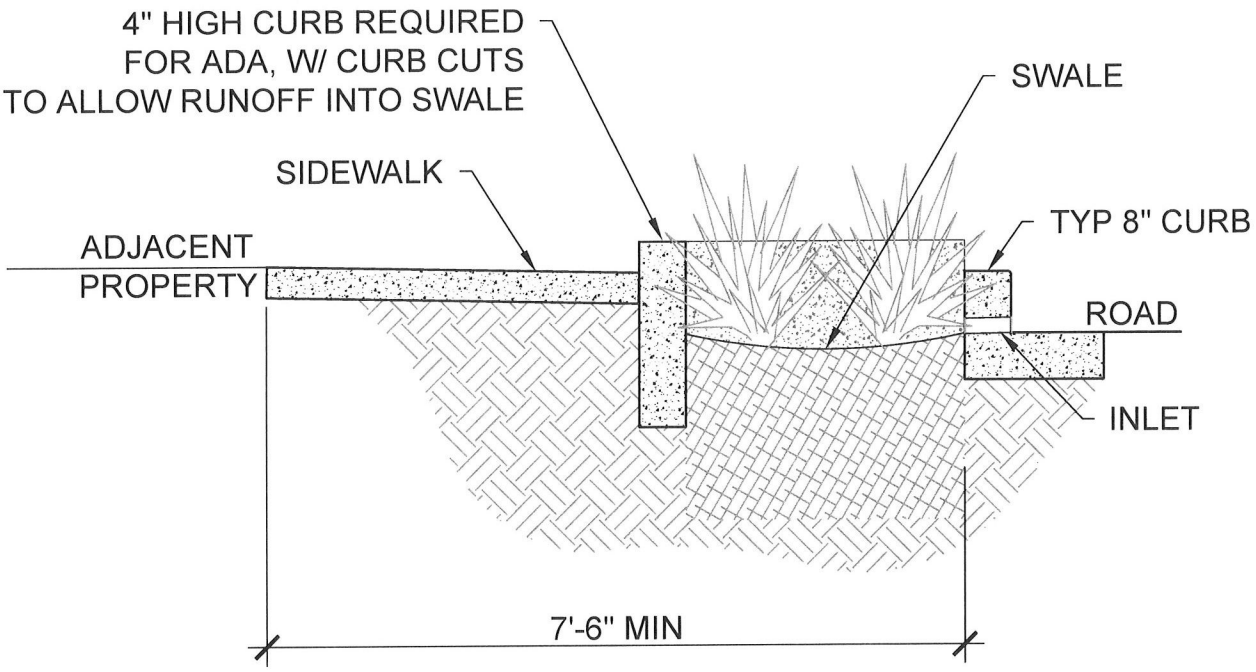
SECTION VIEW - AREAS WITH SIDEWALKS BUT NO PARKING



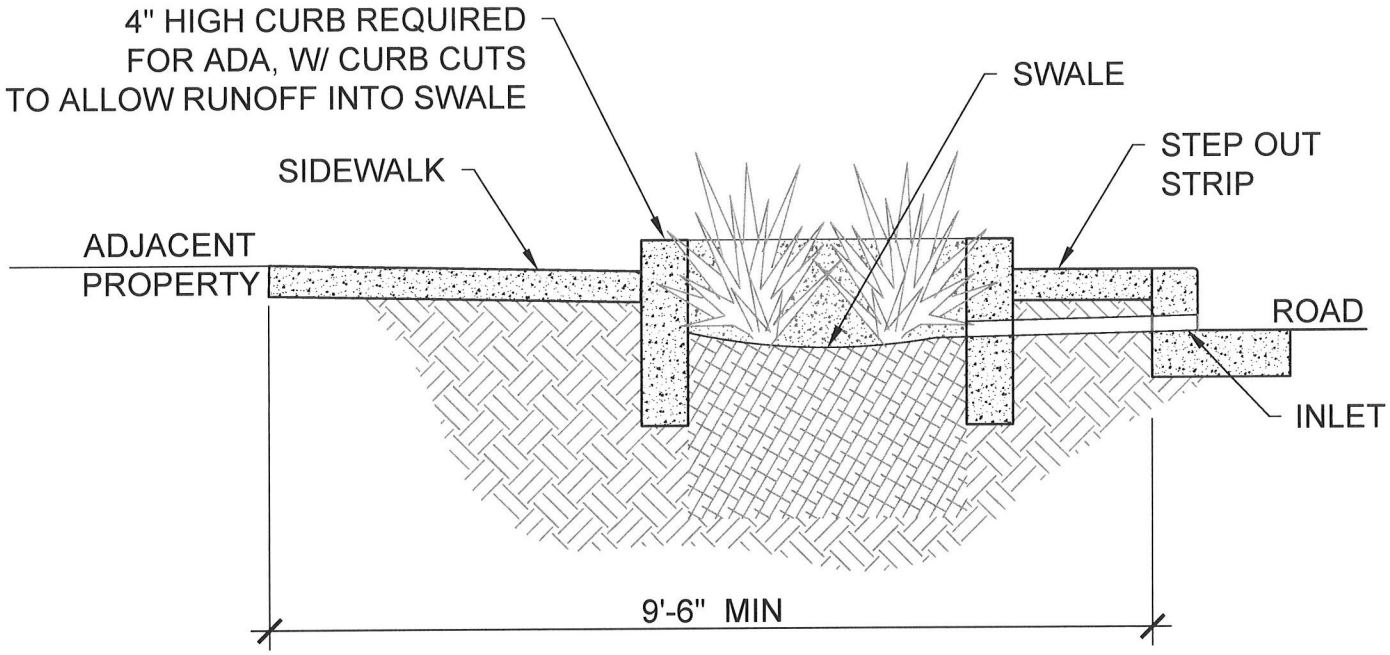
SECTION VIEW - AREAS WITH SIDEWALKS AND PARKING

SLOPED BIO-SWALE (RAIN GARDEN)

SURFACE TYPE LID



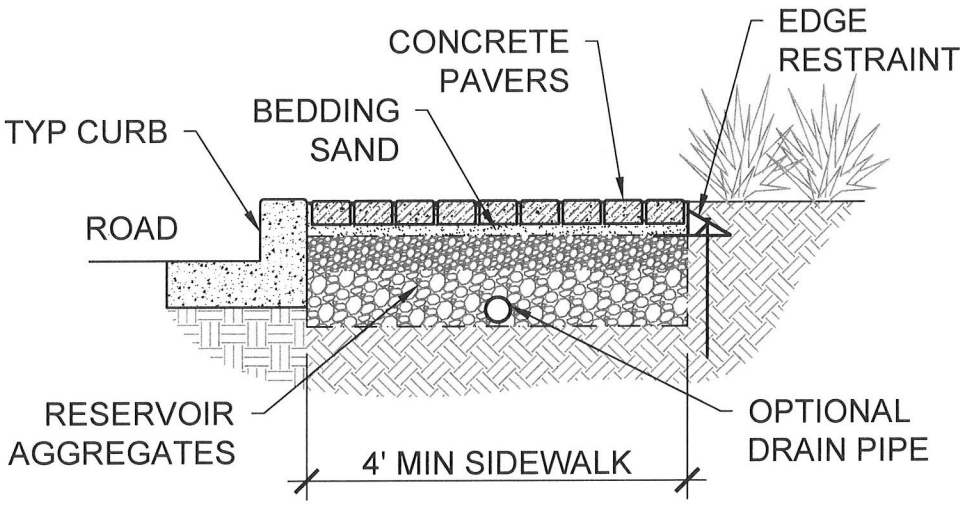
SECTION VIEW - AREAS WITH NO PARKING



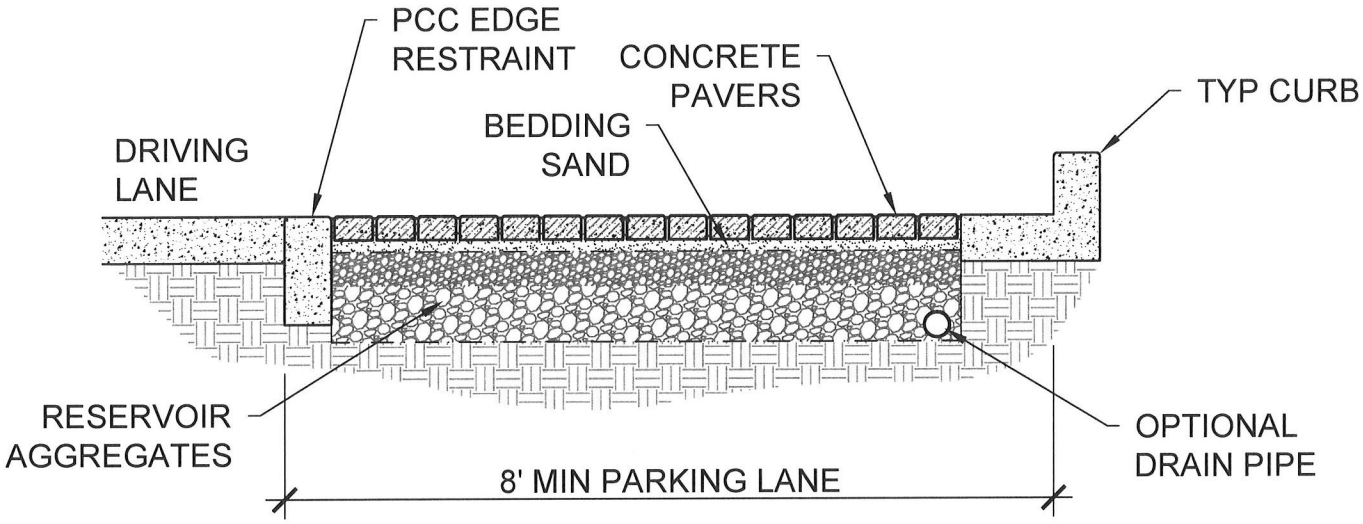
SECTION VIEW - AREAS WITH PARKING

PLANTER BOX BIO-SWALE (RAIN GARDEN)

SURFACE TYPE LID



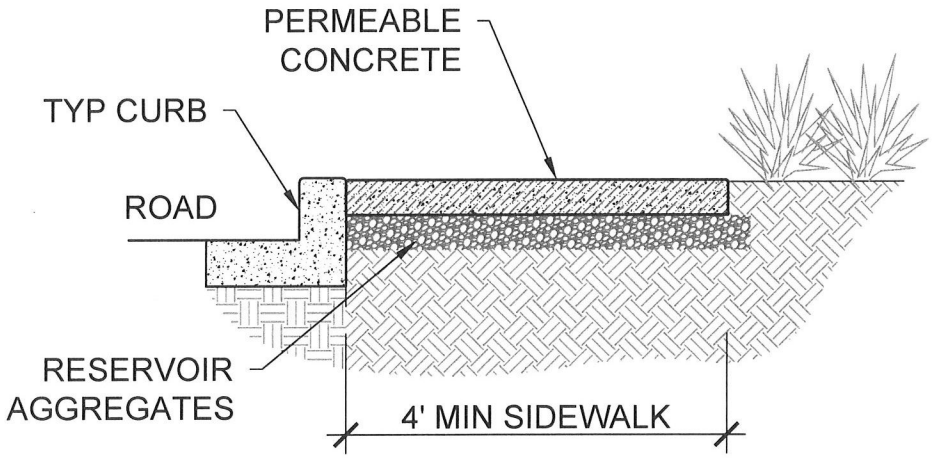
SECTION VIEW - PERMEABLE PAVERS - SIDEWALK



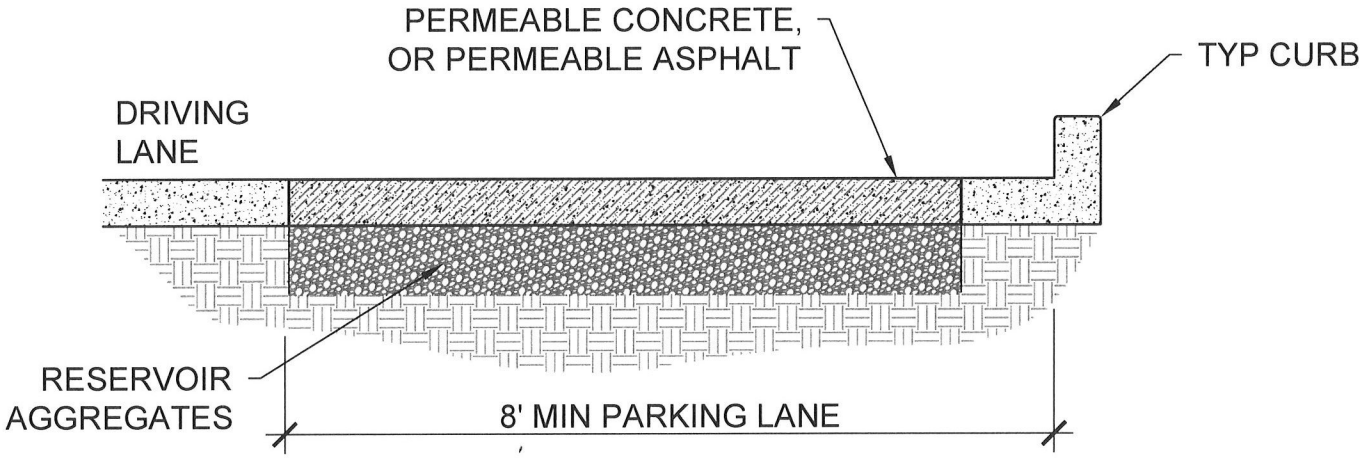
SECTION VIEW - PERMEABLE PAVERS - ROADWAY PARKING LANE

PERMEABLE PAVERS (PAVING)

SURFACE TYPE LID



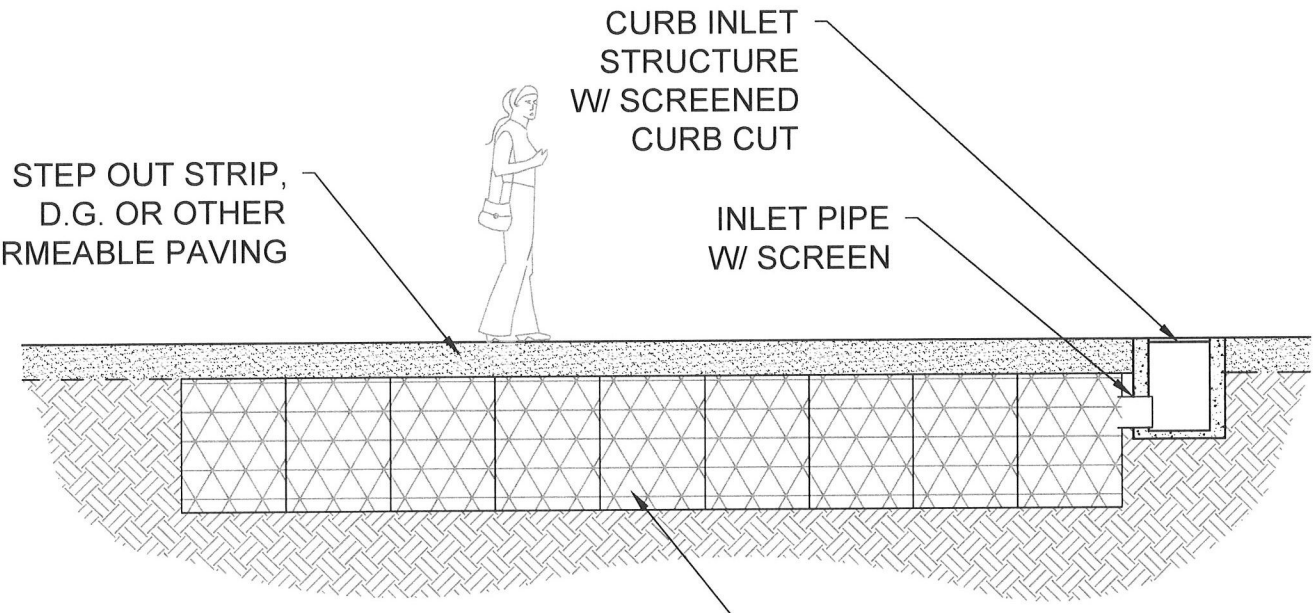
SECTION VIEW - PERMEABLE CONCRETE - SIDEWALK



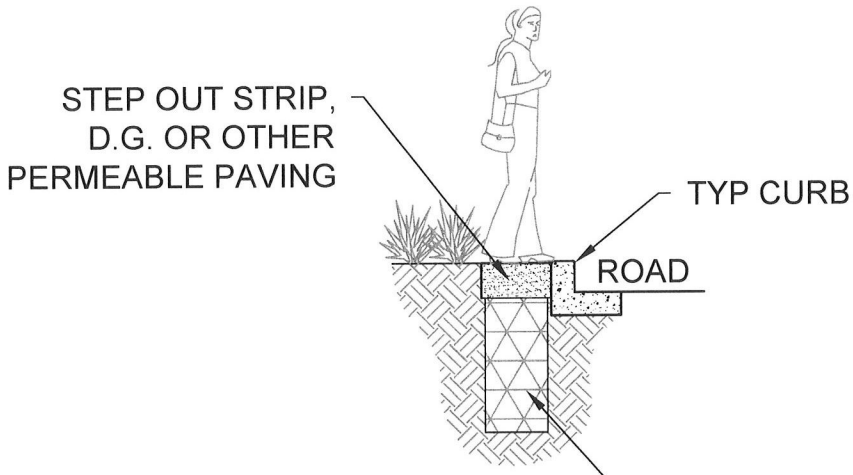
SECTION VIEW - PERMEABLE CONCRETE OR ASPHALT - ROADWAY PARKING LANE

PERMEABLE CONCRETE / ASPHALT PAVING

SURFACE TYPE LID



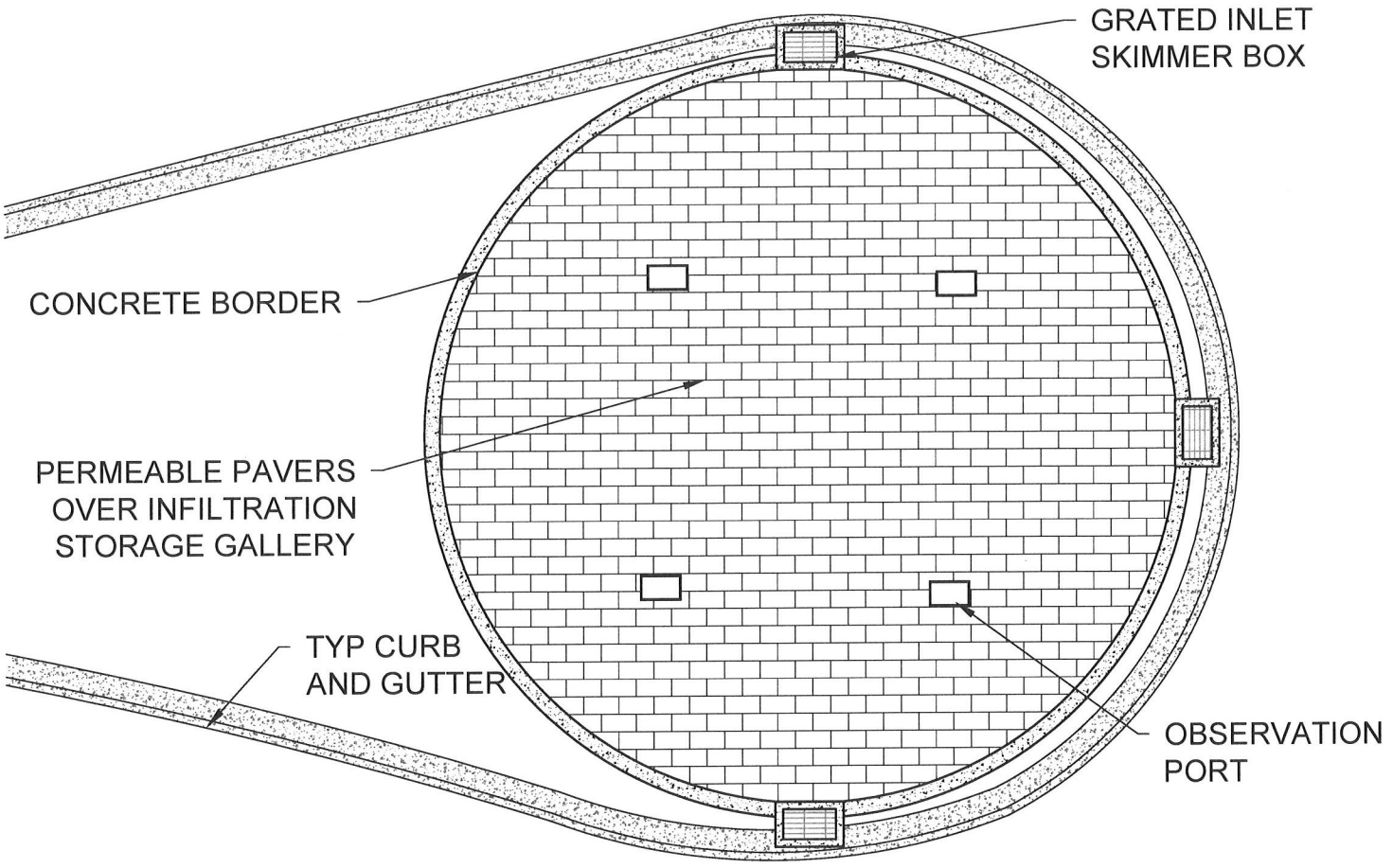
LONGITUDINAL SECTION VIEW



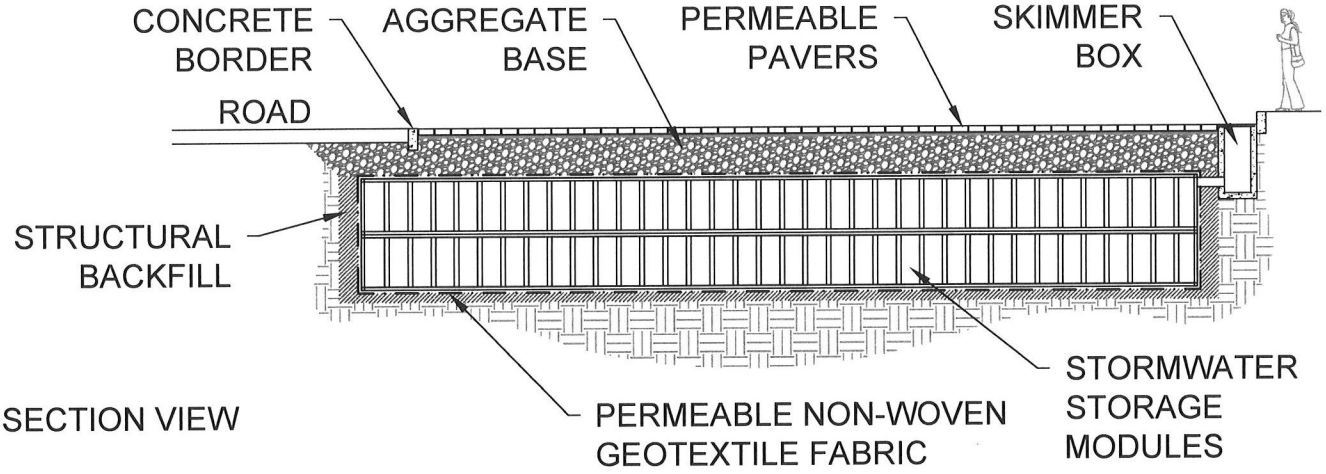
CROSS SECTION VIEW

CURBSIDE INFILTRATION UNITS

SURFACE TYPE LID



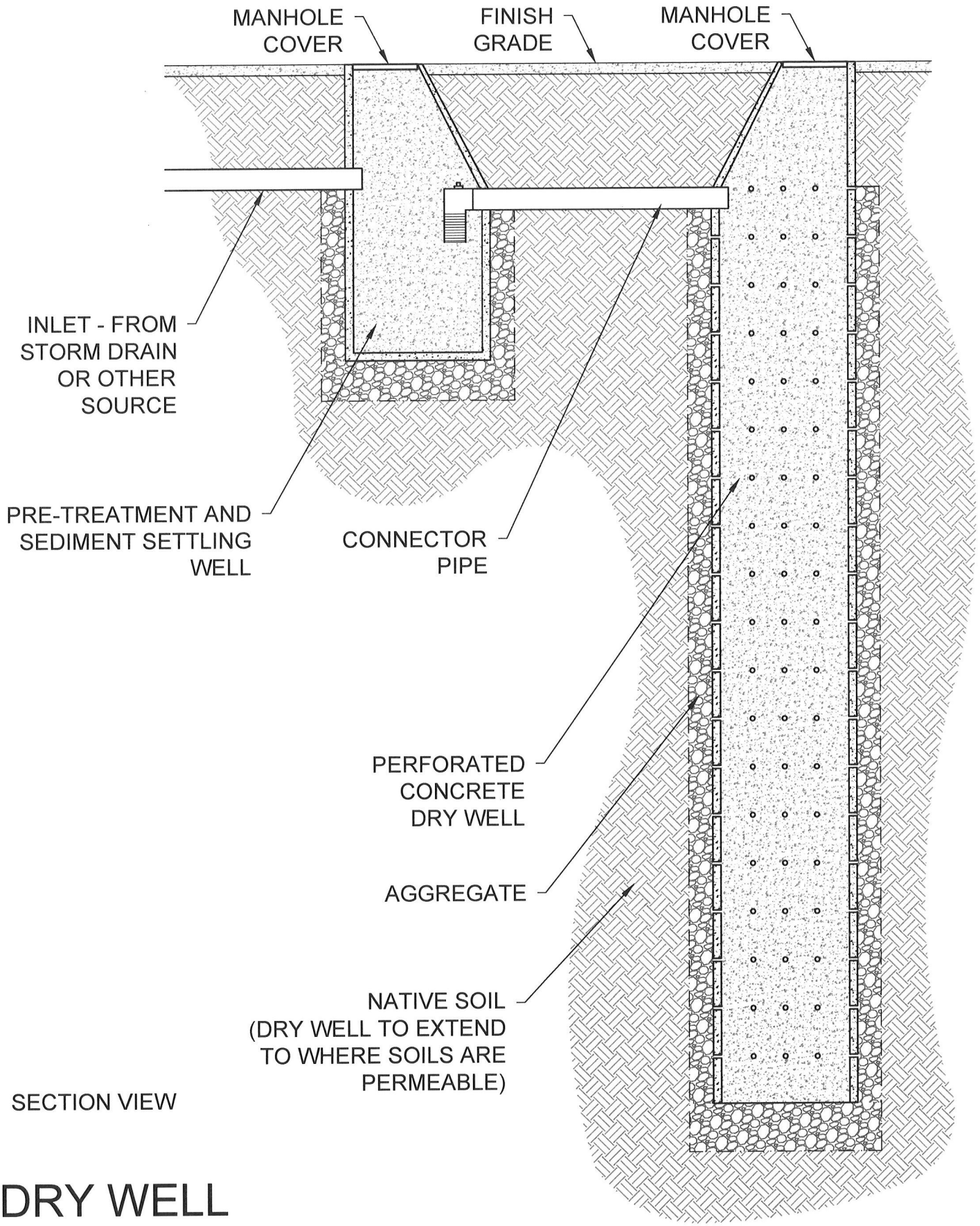
PLAN VIEW SHOWN AT TYPICAL CUL-DE-SAC



SECTION VIEW

INFILTRATION STORAGE GALLERY

SUBTERRANEAN TYPE LID



SECTION VIEW

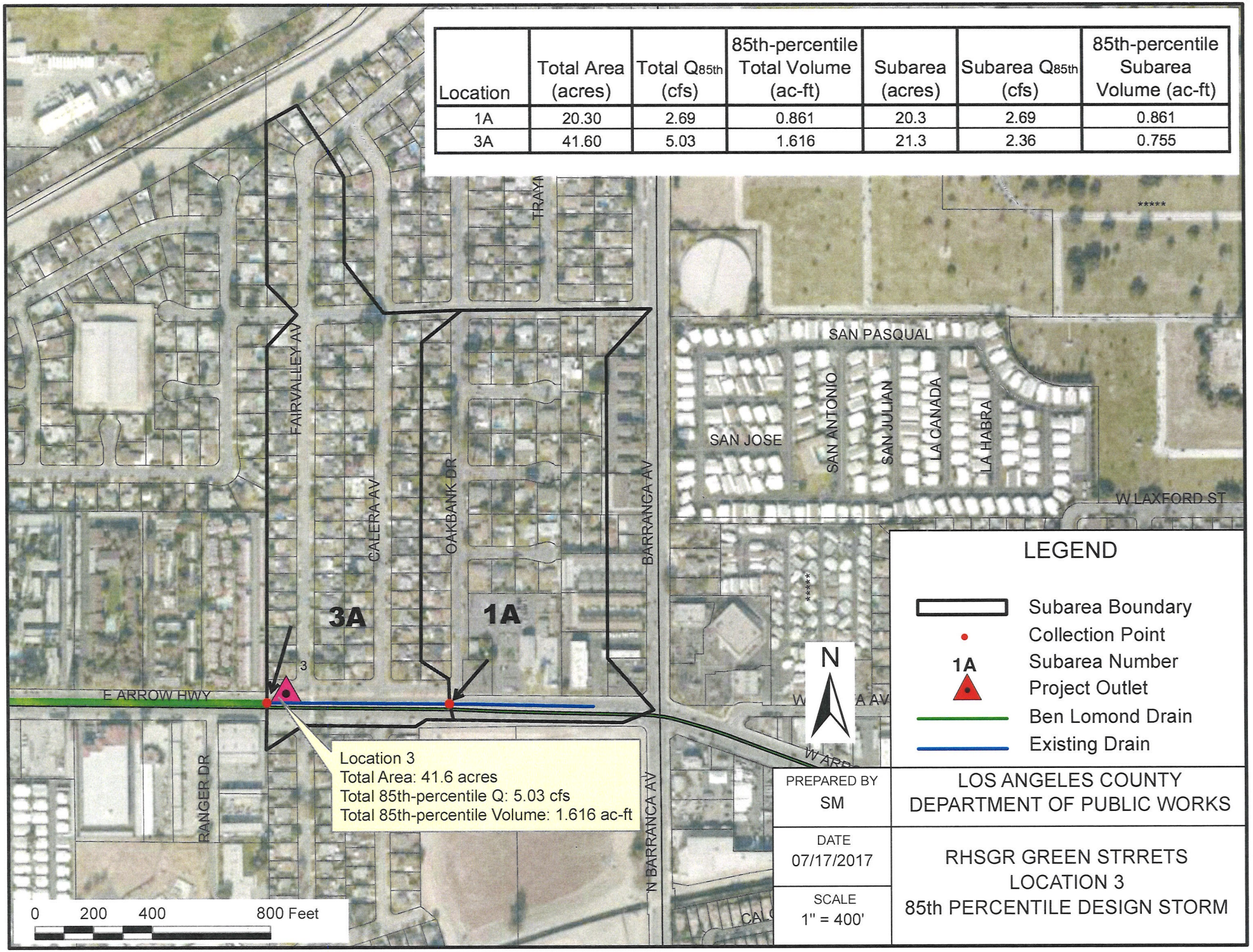
DRY WELL

SUBTERRANEAN TYPE LID

ATTACHMENT III

HYDROLOGY

Location	Total Area (acres)	Total Q_{85th} (cfs)	85th-percentile Total Volume (ac-ft)	Subarea (acres)	Subarea Q_{85th} (cfs)	85th-percentile Subarea Volume (ac-ft)
1A	20.30	2.69	0.861	20.3	2.69	0.861
3A	41.60	5.03	1.616	21.3	2.36	0.755



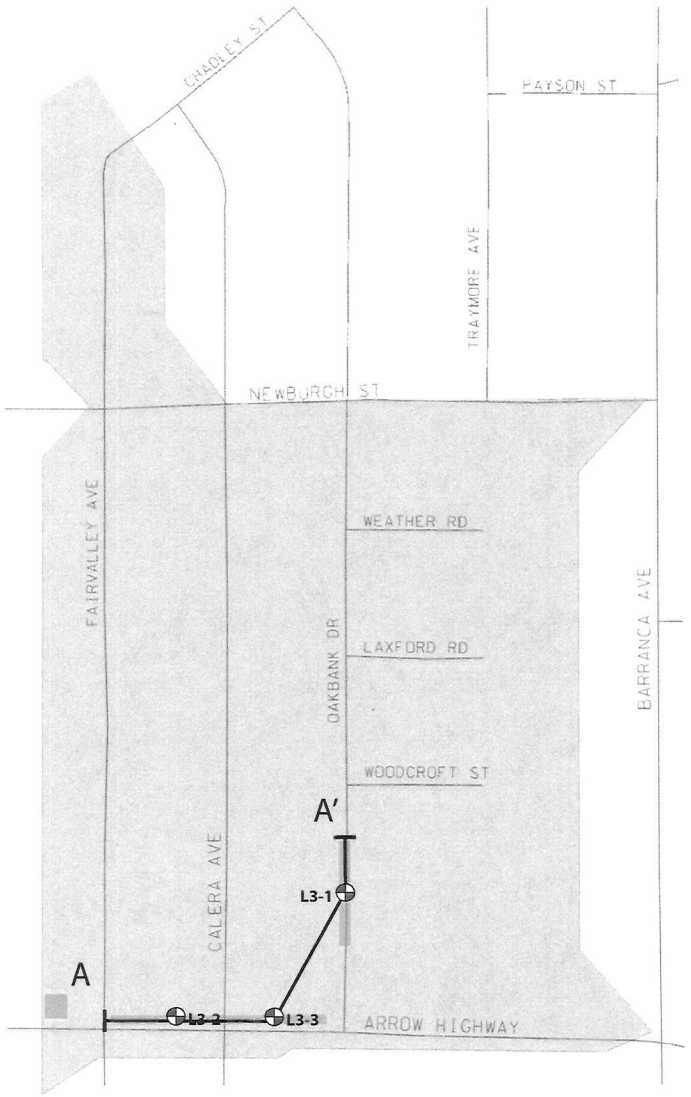
LEGEND

- Subarea Boundary
- Collection Point
- 1A — Subarea Number
- Project Outlet
- Ben Lomond Drain
- Existing Drain

PREPARED BY SM	LOS ANGELES COUNTY DEPARTMENT OF PUBLIC WORKS
DATE 07/17/2017	RHSGR GREEN STRRETS LOCATION 3 85th PERCENTILE DESIGN STORM
SCALE 1" = 400'	

ATTACHMENT IV

CONE PENETRATION TEST RESULTS



PLAN
NO SCALE

LEGEND

PROPOSED LID

CPT location

X — X' Cross Section

DRAFTER	DESIGNER	CHECKER	CADD PROJECT FILE NAME	REVIEWED BY	DATE

COUNTY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS

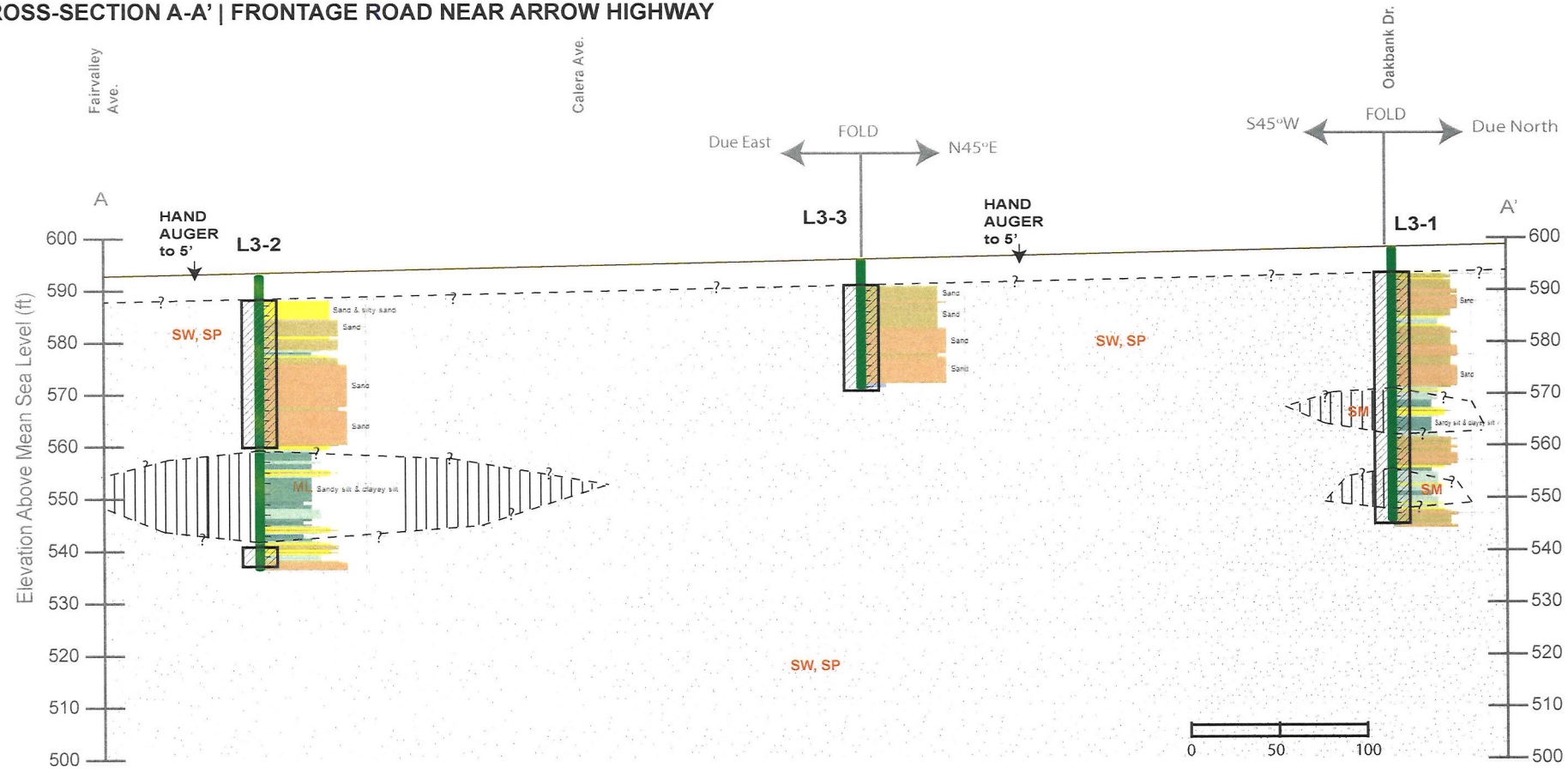
GREEN STREET INVESTIGATION
RIO HONDO SAN GABRIEL

AREA 3 - LOCATION 3

KEY MAP

	PCA	DWG	SHEET 1 OF

CROSS-SECTION A-A' | FRONTAGE ROAD NEAR ARROW HIGHWAY



LEGEND

- Cone Penetration Test (CPT)
- Ground Surface
- Potential Percolation Zone
- Defined contact
- Contact uncertain

- ML — Silt
- SM — Silty Sand
- SW, SP — Well-graded or Poorly-graded Sand

Note: Historic high Groundwater Map from Seismic Hazard Zone report for Baldwin Park Quadrangle indicates that historic high groundwater levels are deeper than 200'.

GEOTECHNICAL ENGINEERING

COUNTY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS

GEOTECHNICAL AND MATERIALS ENGINEERING DIVISION

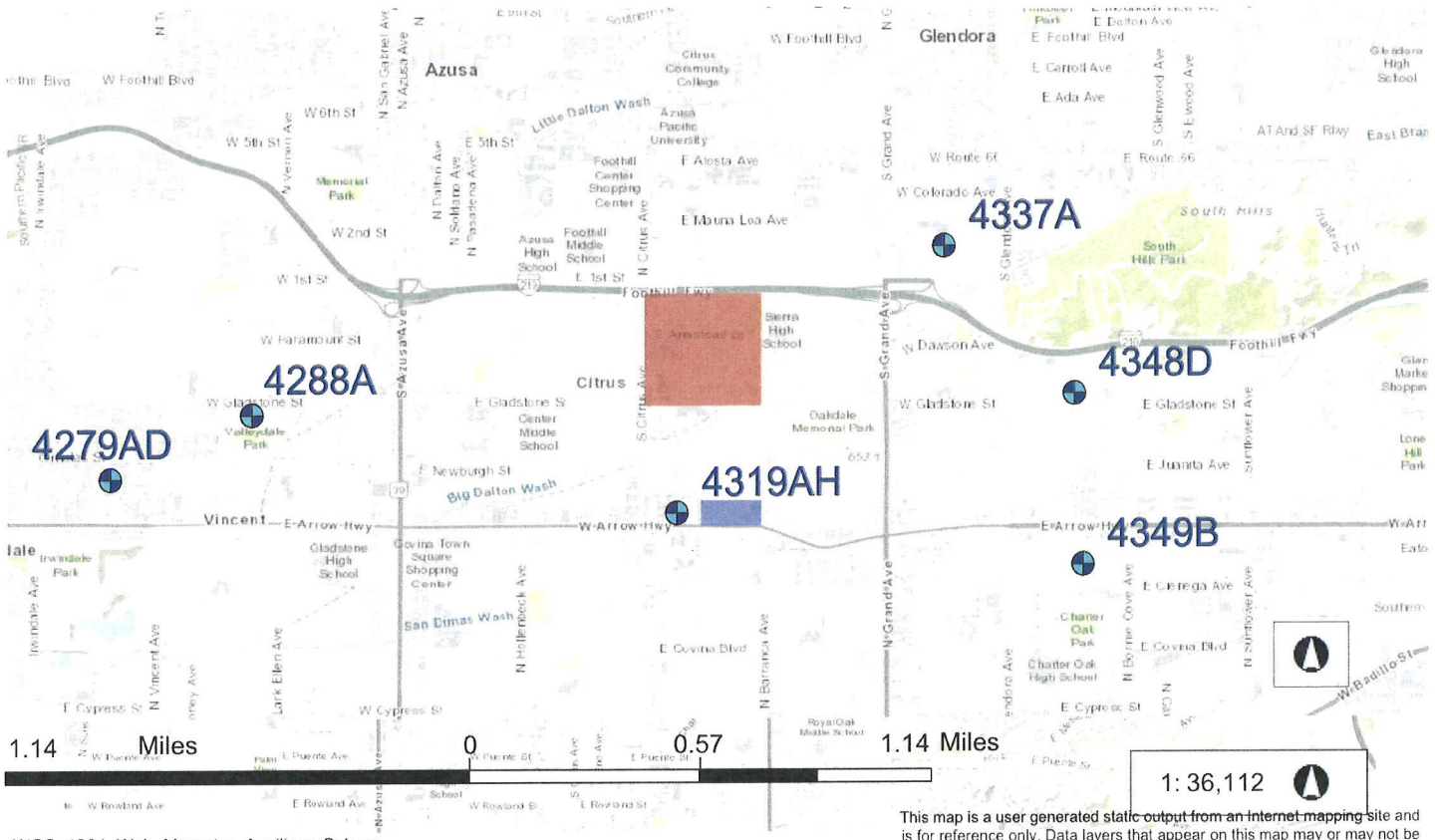
CROSS SECTION A - A'

Rio Hondo and Upper San Gabriel Feasibility Analysis

Location 3

Frontage Road near Arrow Highway, Covina, CA

Date: FEB 2018	Drafted by: VKM	Scale: as shown	FIGURE 1



WGS_1984_Web_Mercator_Auxiliary_Sphere

© Latitude Geographics Group Ltd.

Geocortex Essentials for ArcGIS Server

This map is a user generated static output from an Internet mapping site and is for reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable.
THIS MAP IS NOT TO BE USED FOR NAVIGATION

LEGEND

- Groundwater Monitoring Well LACDPW SWED Database
- Location 3
- Location 4

GEOLOGY AND SOILS

GEOLOGY AND SOILS GEOLOGY AND SOILS

GEOLOGY AND SOILS

LOS ANGELES COUNTY DEPARTMENT OF PUBLIC WORKS

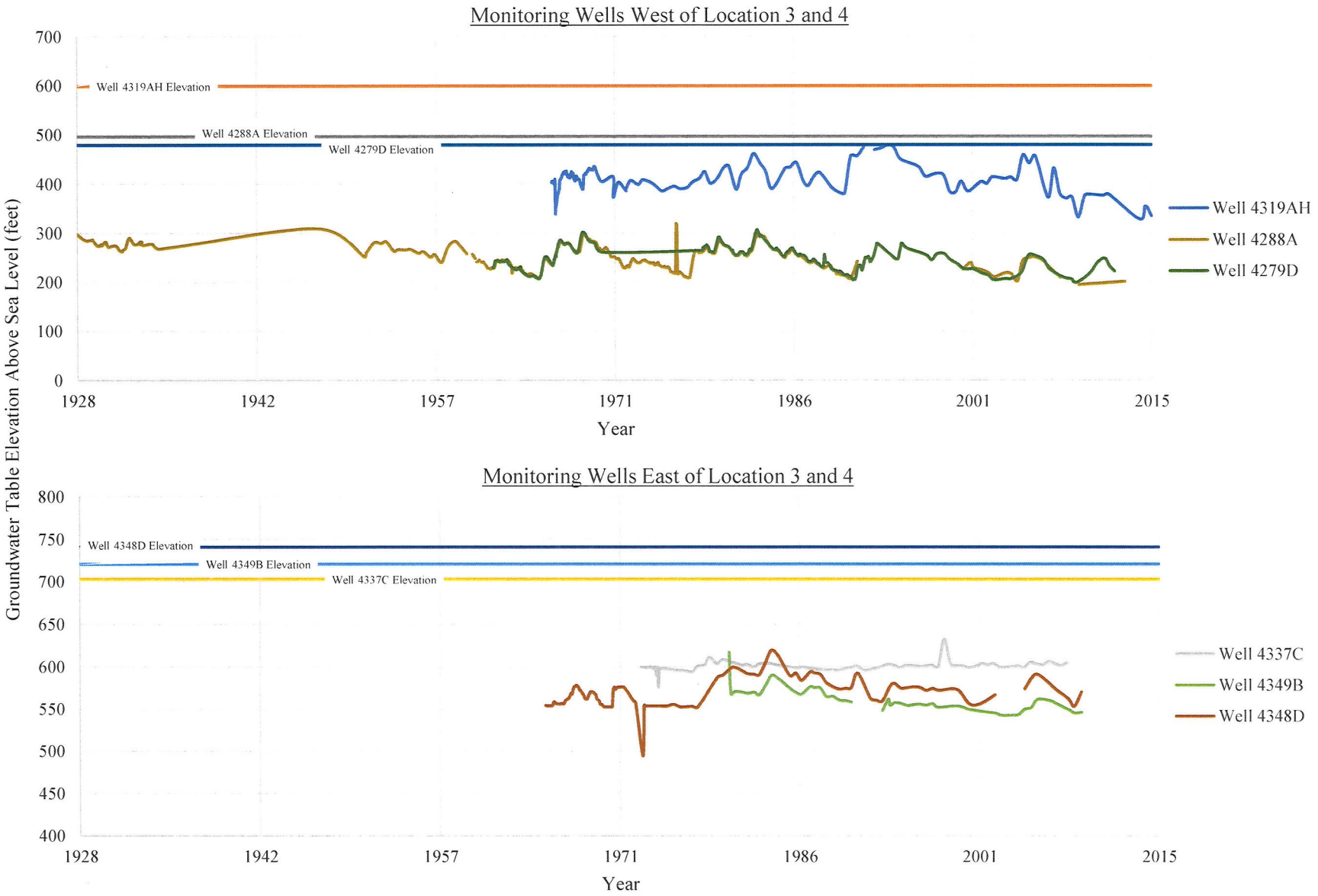
GEOTECHNICAL AND MATERIALS ENGINEERING DIVISION

Groundwater Monitoring Well Locations

Locations 3 and 4
Citrus, CA

Date: May 2018	Drafted by: VM	Scale: As Shown	FIGURE 1

Rio Hondo Groundwater Elevation of LACSW Monitoring Wells



ATTACHMENT V

PRELIMINARY ENVIRONMENTAL SITE SCREENING RESULTS

December 19, 2017

TO: Hector Bordas
Design Division

Attention Josafat Flores

FROM: Greg Kelley Greg Kelley
Geotechnical and Materials Engineering Division

PRELIMINARY ENVIRONMENTAL SITE SCREENING
GREEN STREET INVESTIGATIONS RIO HONDO/SAN GABRIEL RIVERS
AREA 3 LOCATION 3, UNINCORPORATED COVINA AREA
PROJECT ID DES0002991 (PROJECT NO. F21816I26G)

In response to your request dated June 20, 2017, and your September 25, 2017, e-mail, clarifying the project limits, a Preliminary Environmental Site Screening (PESS) was completed for the subject project. It is our understanding that the project scope is for the siting of various Low Impact Development features, including bioswales and drywells. Our PESS included a site reconnaissance, review of aerial photographs and topographic maps, and searches of publicly available regulatory databases.

Based on available information, the site conditions observed, and the proposed scope of work, the results of our screening did not identify environmental conditions affecting the subject project. At this time, no further assessment is warranted.

Note that our preliminary screening of the site conditions does not preclude that contamination may exist in subsurface soils at the site in areas that have not been identified as environmental concerns because: (1) contamination releases may not have been reported to the authorities, (2) contamination releases were not known to have occurred, or (3) data gaps exist in the referenced databases, historical photographs, or maps. There is also the possibility that site contamination may occur subsequent to our review. Additionally, if impacted soils are encountered during construction, the project contractor should implement proper health and safety measures and appropriate contaminated material handling and disposal procedures. This PESS is generally considered applicable for a period of 180 days from the date of this memorandum and is recommended to be updated thereafter as needed.

If you have any questions regarding this matter, please contact Phuong Schmit-Kallas or Gregory Sena at Extension 4923. To provide feedback on our services please access http://dpw.lacounty.gov/go/gmedsurvey to complete a Customer Service Survey.

PSK:GS:kw
p:\gmepub\secretarial\geoinv\pess\2017\hondo-gabriel area 3 location 3.docx

cc: Construction (Enriquez)
Design Division (Davis, Fung, Wu)

GREEN STREETS INVESTIGATIONS
RIO HONDO/SAN GABRIEL RIVER

TECHNICAL MEMO – LOCATION 4

PROJECT SCOPE

- Location: Unincorporated Community of Azusa (TG pages 569-A7, B7 599-A1, A2, B1)
- Tributary area: Total area = 169 acres, Pipe Flow = 169 acres, Surface Flow = 0 acres
- San Gabriel River Watershed RAA Volume: 4.84 acre-feet
- Area Jurisdiction – 98.5% within County & 1.5% within the City of Azusa

Stormwater Quality Division requested Design Division (DES) to conduct a green street feasibility study for various locations in the Rio Hondo/San Gabriel River watershed. These locations were submitted to Stormwater Engineering Division (SWED) to prepare tributary area maps showing the drainage area for each location. Based on the tributary area for Location 4 provided by SWED (see Attachment 3), DES conducted a field reconnaissance to identify potential locations for Low Impact Development (LID) features (see Attachment 1 for location maps). The following requests were then submitted to the following support divisions to provide necessary information to assess the feasibility of each location.

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	Cone Penetration Test (CPT)	August 1, 2017	4

*Preliminary Utility Search responses are on file and available upon request.

FEASIBILITY REVIEW

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CPT	'X' indicates this location may not be suitable for infiltration due to a soil profile consisting primarily of clayey material or a shallow

CPT	groundwater table. Further subsurface investigation by GMED is warranted to completely exclude the location from onsite infiltration. Biofiltration may still be possible.
Feasibility Tier	Provides a ranking of proposed locations based on all review categories. No potential issues were found at Tier 1 locations and should be considered priority for further development. Tier 2 locations may have a combination of potential utility and infiltration issues. Tier 3 locations have potential soil contamination and may have additional issues. These are recommended as a last priority.

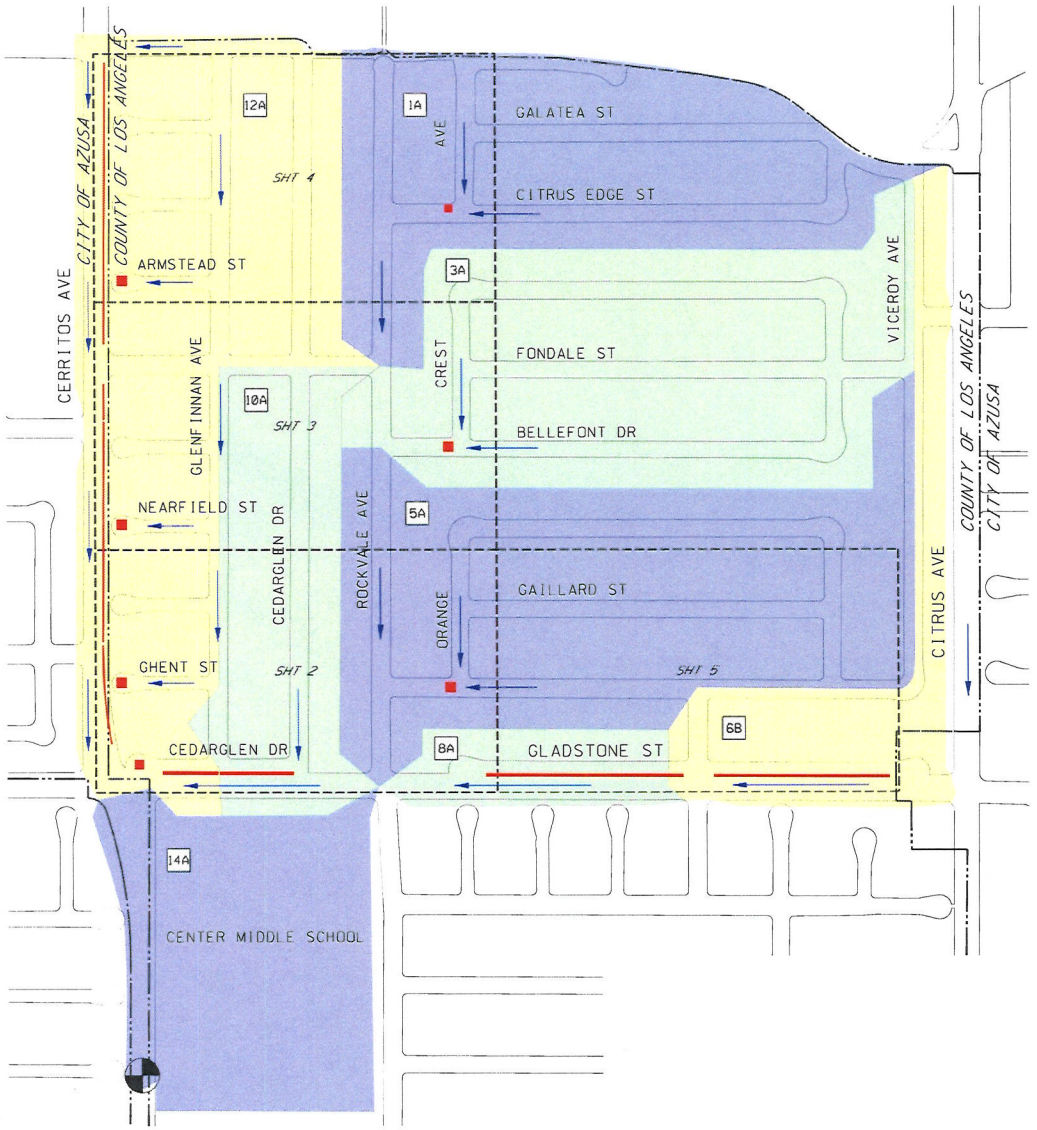
Review Results

The below table summarizes DES's findings for the potential LID locations based on a concept level investigation. Further investigation is required during the Project Design Concept Phase to confirm the impact of the issues on the proposed scope of work. See Attachment 2 for schematic diagrams of the proposed features.

				Potential Issues			
Subarea	**V85th (ac-ft)**	**Cumulative V85th (ac-ft)**	**ID**	**PESS**	**Utility Search**	**CPT**	**Feasibility Tier**
1A	0.857	0.857	4-13		x		2
3A	1.01	1.867	4-11				1
5A	1.144	3.011	4-7				1
6B	0.416	0.416	4-15		x		2
8B	0.167	0.583	4-14		x		2
10A	0.506	4.1	4-6				1
12A	1.264	5.364	4-1				1
			4-2				1
			4-3				1
			4-4				1
			4-5		x		2
			4-8				1
			4-9				1
			4-10				1
			4-12				1

ATTACHMENT I

LOCATION MAPS



PLAN
NO SCALE

LEGEND

- PROPOSED LID
- SUBAREA BOUNDARY
- 1A SUBAREA NUMBER
- FLOW DIRECTION EXISTING STORM DRAIN
- LOCATION 4

DRAFTER	DESIGNER	CHECKER	CADD PROJECT FILE NAME	REVIEWED BY	DATE

COUNTY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS

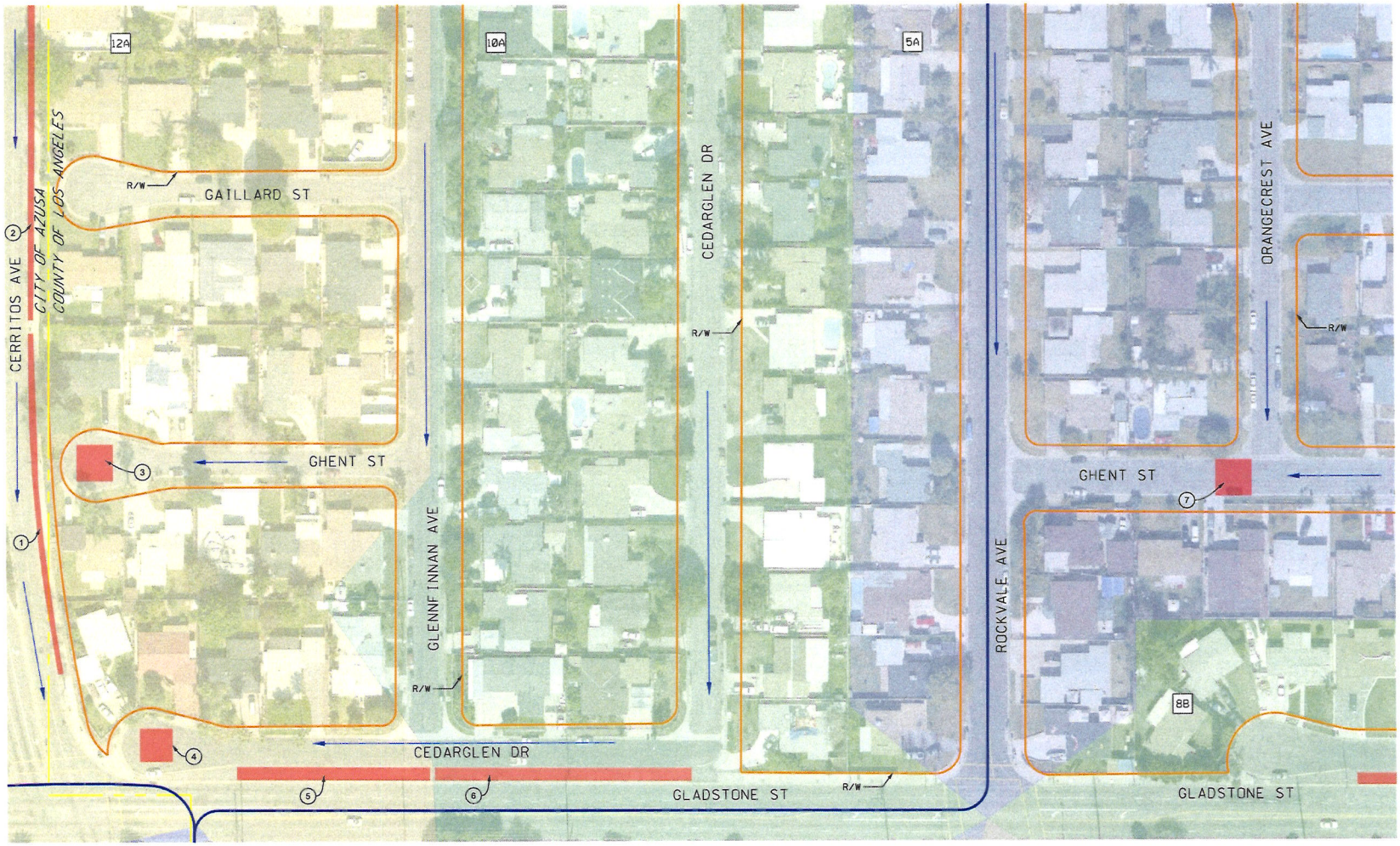
GREEN STREET INVESTIGATIONS
RIO HONDO SAN GABRIEL

LOCATION 4

KEY MAP

PCA	DWG	SHEET 1 OF 5

MATCH LINE SEE SHEET 3



MATCH LINE SEE SHEET 5

PLAN
NO SCALE

LEGEND

- PROPOSED LID FEATURE
- (#) PROPOSED LID FEATURE ID
- SUBAREA BOUNDARY
- 1A SUBAREA NUMBER
- FLOW DIRECTION
- EXISTING STORM DRAIN

DRAFTER | DESIGNER | CHECKER | CADD PROJECT FILE NAME | REVIEWED BY | DATE

COUNTY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS

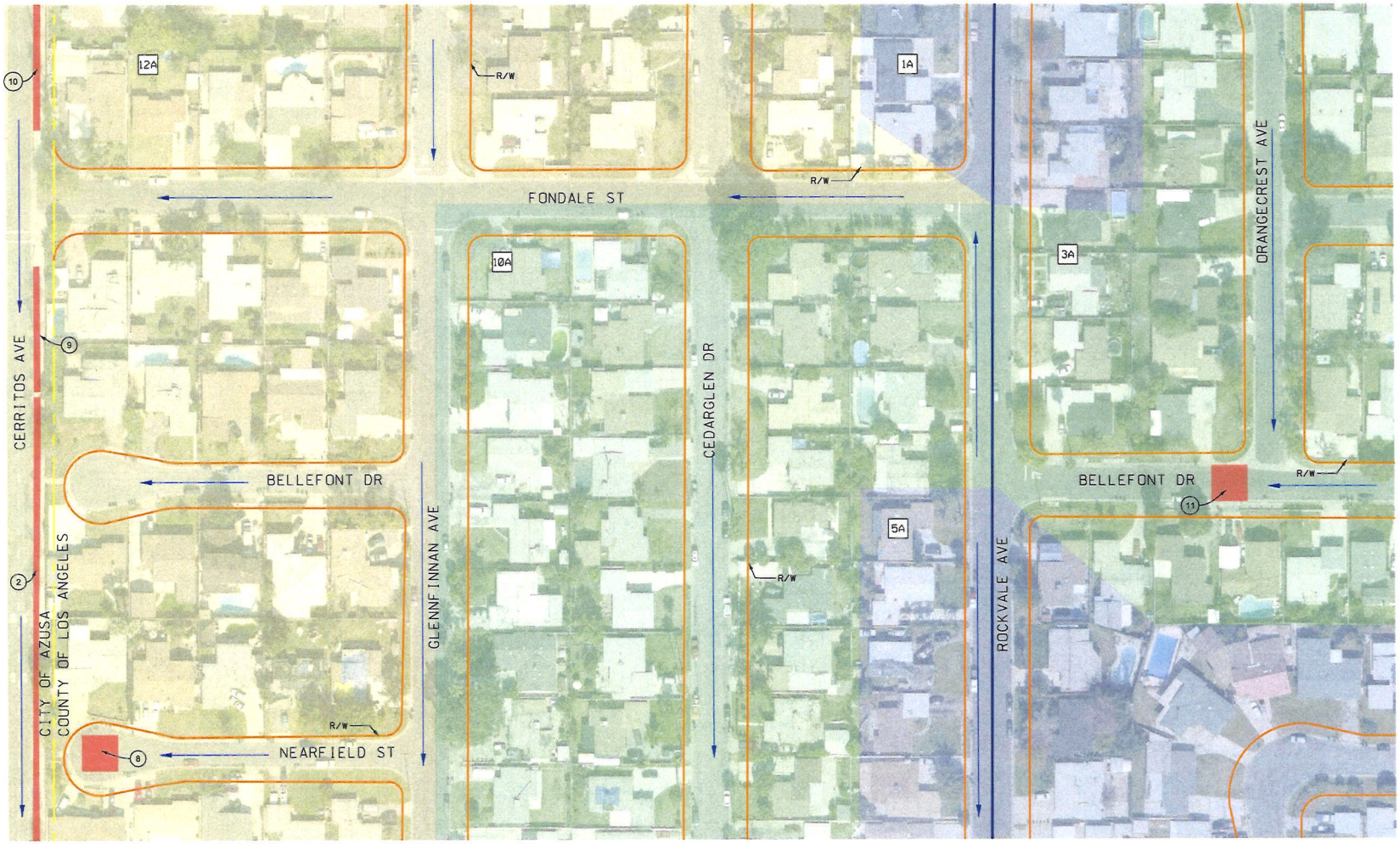
GREEN STREET INVESTIGATIONS RIO HONDO SAN GABRIEL

LOCATION 4

LOCATION MAP

PCA	DWG	SHEET 2 OF 5

MATCH LINE SEE SHEET 4



MATCH LINE SEE SHEET 2

PLAN
NO SCALE

LEGEND

- PROPOSED LID FEATURE
- (#) PROPOSED LID FEATURE ID
- SUBAREA BOUNDARY
- 1A SUBAREA NUMBER
- FLOW DIRECTION
- EXISTING STORM DRAIN

DRAFTER	DESIGNER	CHECKER	CADD PROJECT FILE NAME	REVIEWED BY	DATE

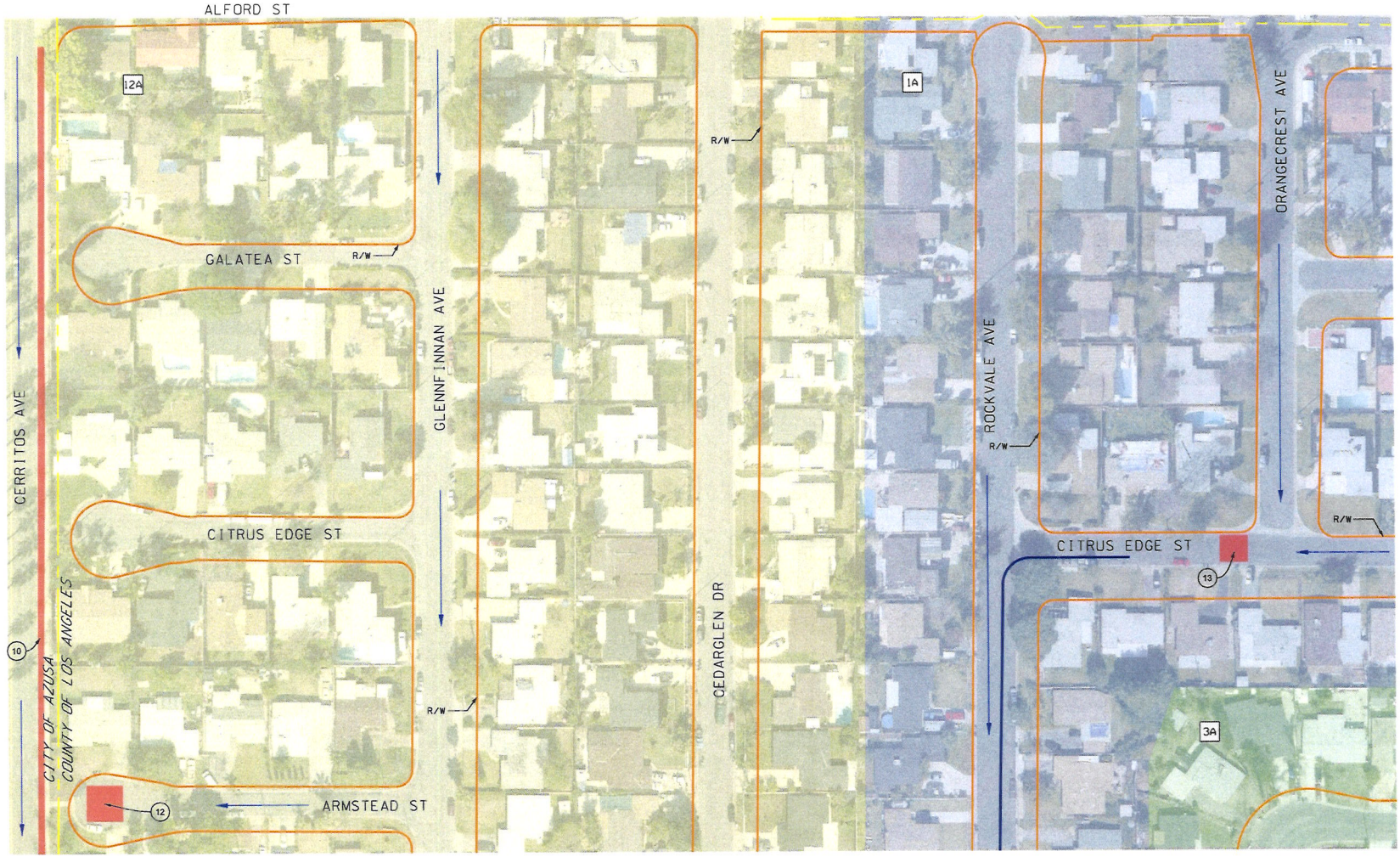
COUNTY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS

GREEN STREET INVESTIGATIONS RIO HONDO SAN GABRIEL

LOCATION 4

LOCATION MAP

PCA	DWG	SHEET 3 OF 5



PLAN
NO SCALE

LEGEND

- PROPOSED LID FEATURE
- (#) PROPOSED LID FEATURE ID
- SUBAREA BOUNDARY
- 1A SUBAREA NUMBER
- FLOW DIRECTION
- EXISTING STORM DRAIN

MATCH LINE SEE SHEET 3

DRAFTER	DESIGNER	CHECKER	CADD PROJECT FILE NAME	REVIEWED BY	DATE

COUNTY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS

GREEN STREET INVESTIGATIONS RIO HONDO SAN GABRIEL

LOCATION 4

LOCATION MAP

PCA	DWG	SHEET 4 OF 5



PLAN
NO SCALE

LEGEND

- PROPOSED LID FEATURE
- (#) PROPOSED LID FEATURE ID
- SUBAREA BOUNDARY
- 1A SUBAREA NUMBER
- FLOW DIRECTION
- EXISTING STORM DRAIN

DRAFTER	DESIGNER	CHECKER	CADD PROJECT FILE NAME	REVIEWED BY	DATE

COUNTY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS

GREEN STREET INVESTIGATIONS RIO HONDO SAN GABRIEL

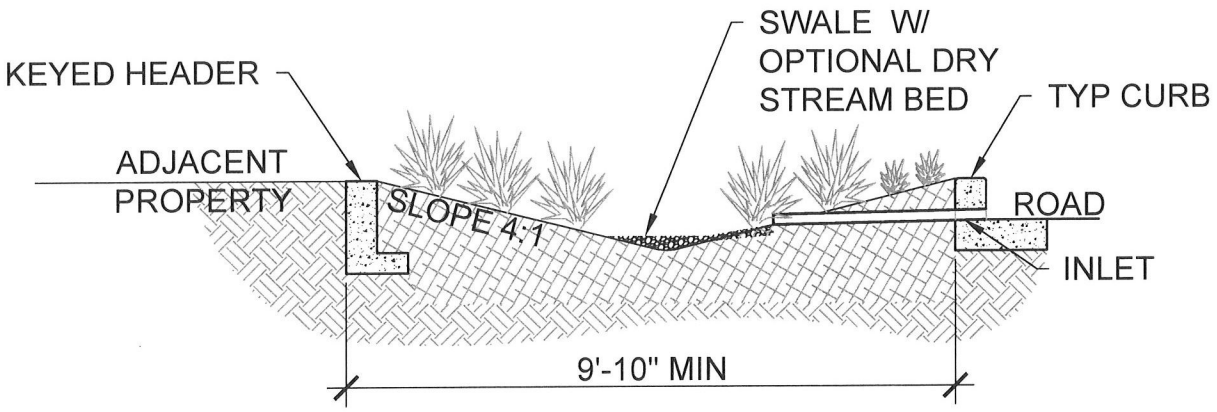
LOCATION 4

LOCATION MAP

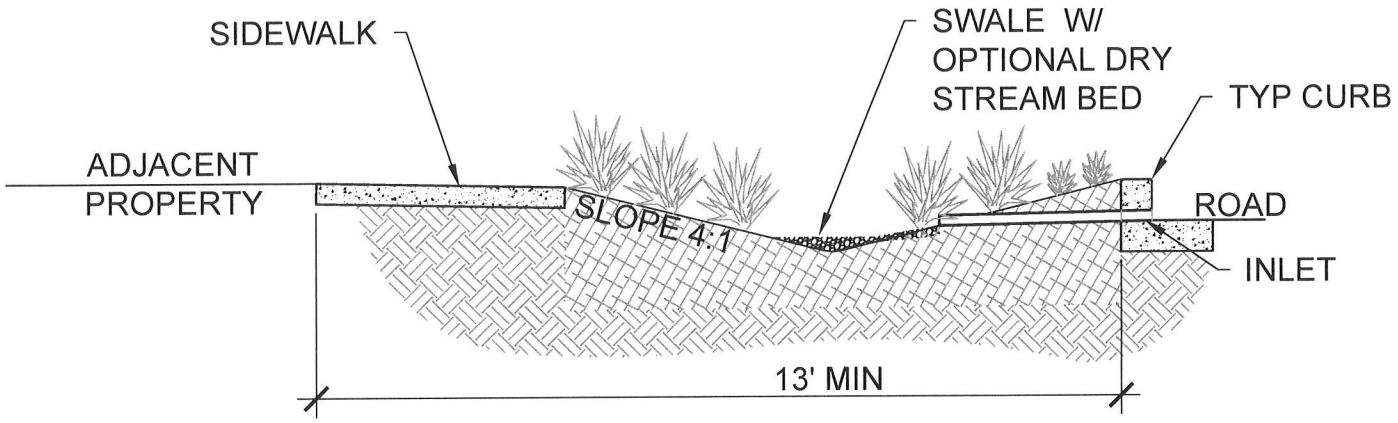
PCA	DWG	SHEET 5 OF 5

ATTACHMENT II

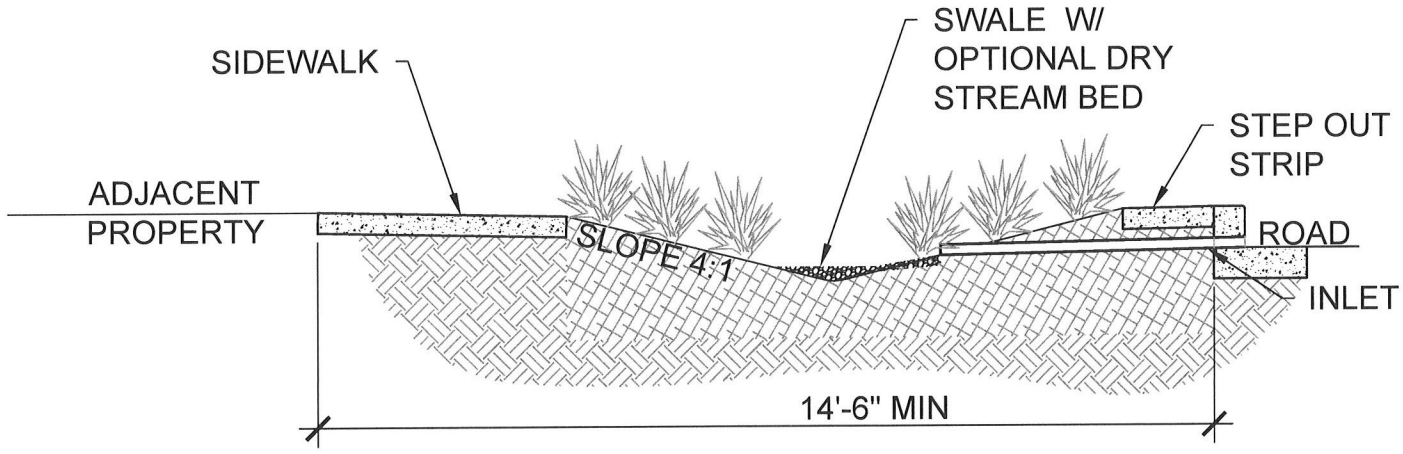
LID FEATURE TYPICAL SECTIONS



SECTION VIEW - AREAS WITHOUT SIDEWALKS AND NO PARKING



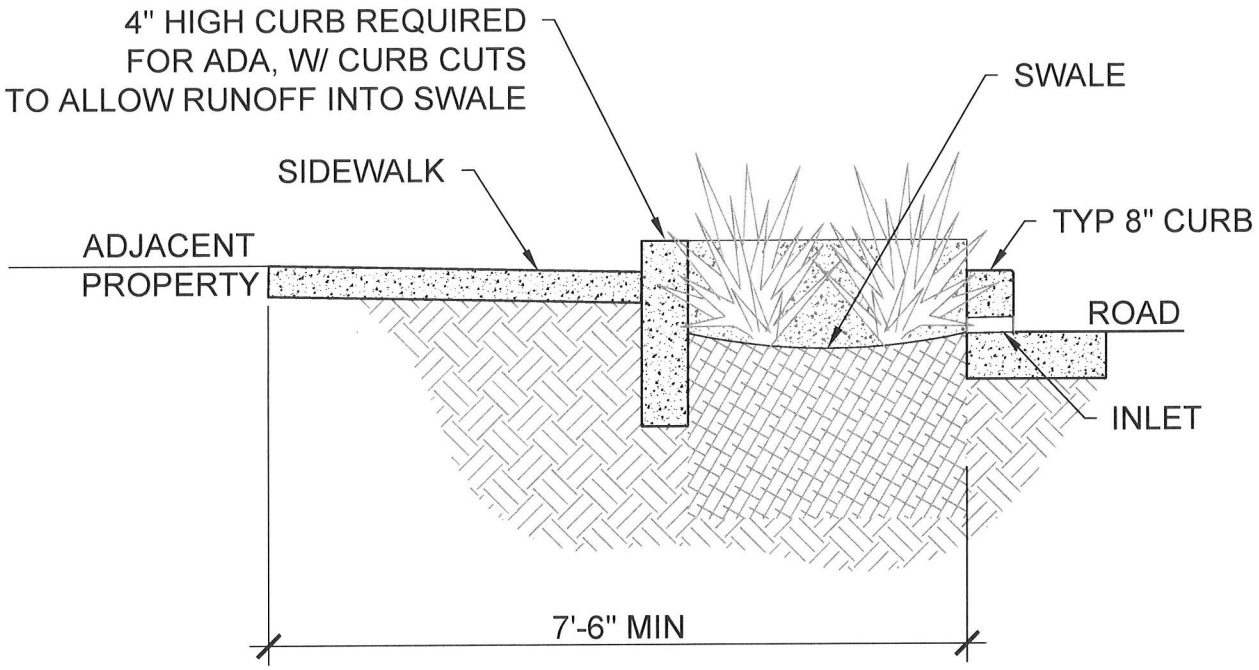
SECTION VIEW - AREAS WITH SIDEWALKS BUT NO PARKING



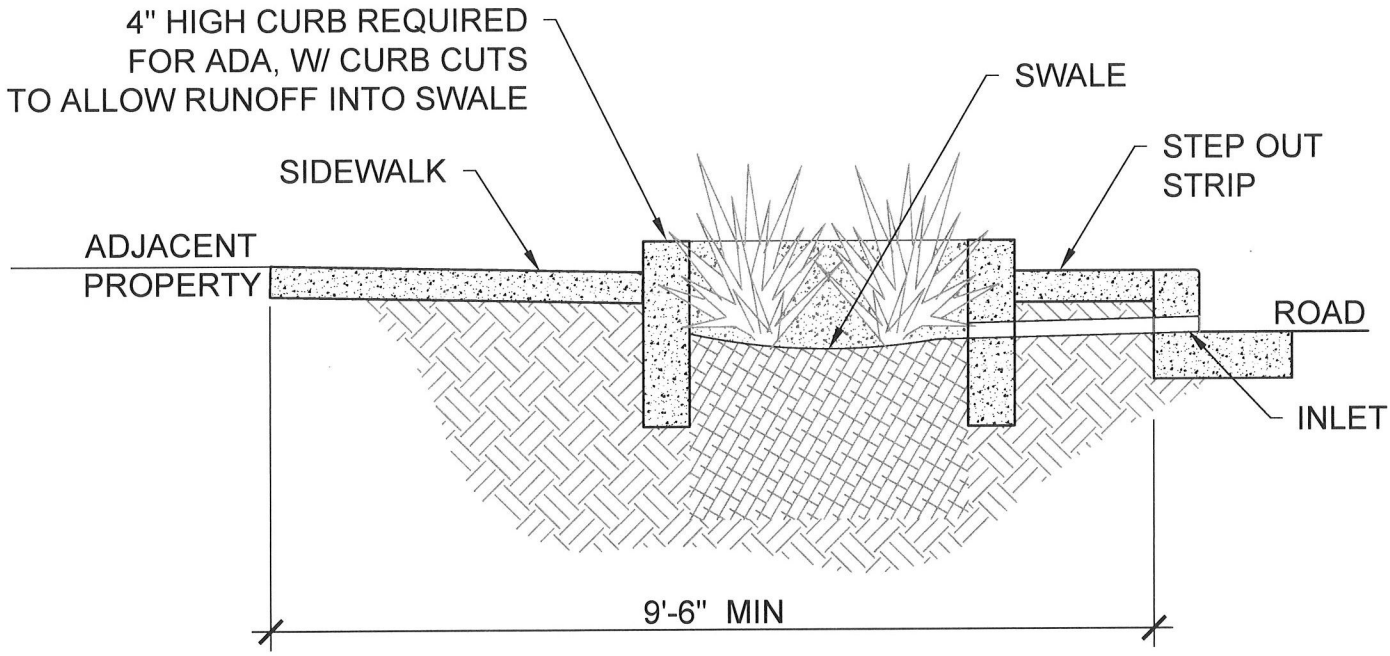
SECTION VIEW - AREAS WITH SIDEWALKS AND PARKING

SLOPED BIO-SWALE (RAIN GARDEN)

SURFACE TYPE LID



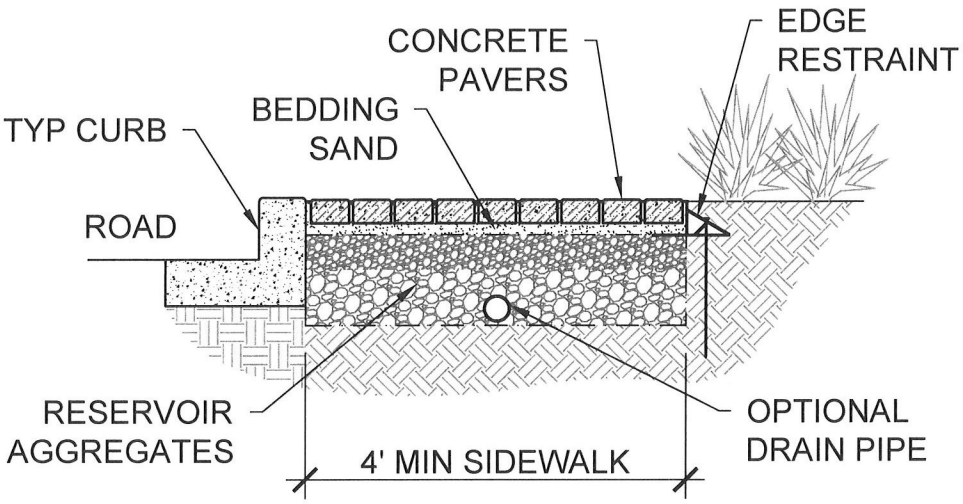
SECTION VIEW - AREAS WITH NO PARKING



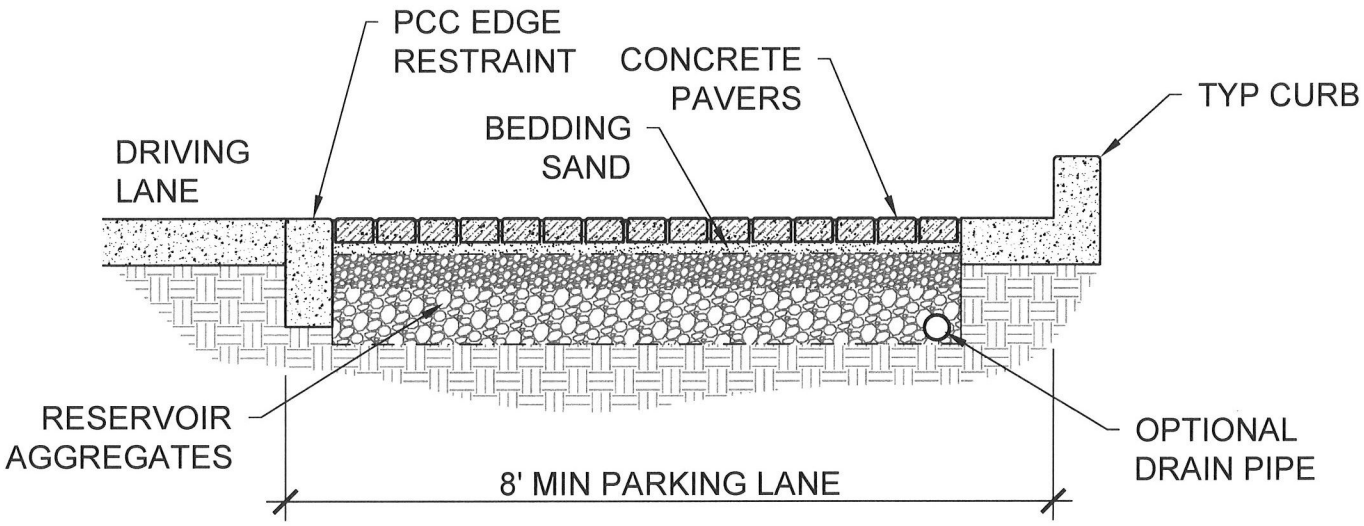
SECTION VIEW - AREAS WITH PARKING

PLANTER BOX BIO-SWALE (RAIN GARDEN)

SURFACE TYPE LID



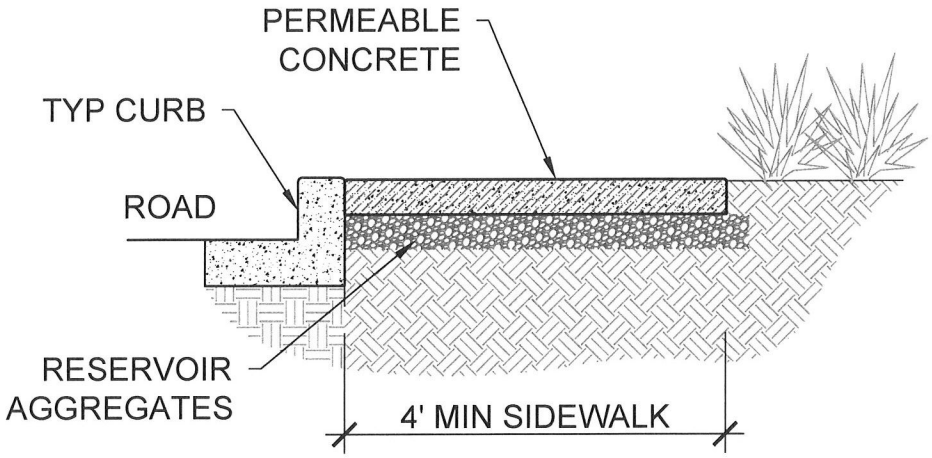
SECTION VIEW - PERMEABLE PAVERS - SIDEWALK



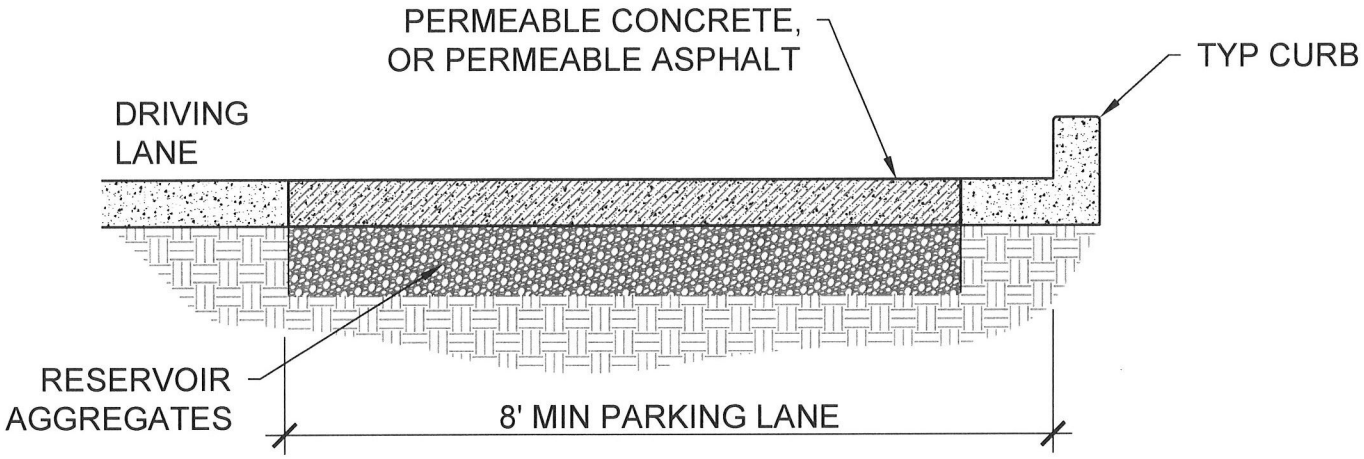
SECTION VIEW - PERMEABLE PAVERS - ROADWAY PARKING LANE

PERMEABLE PAVERS (PAVING)

SURFACE TYPE LID



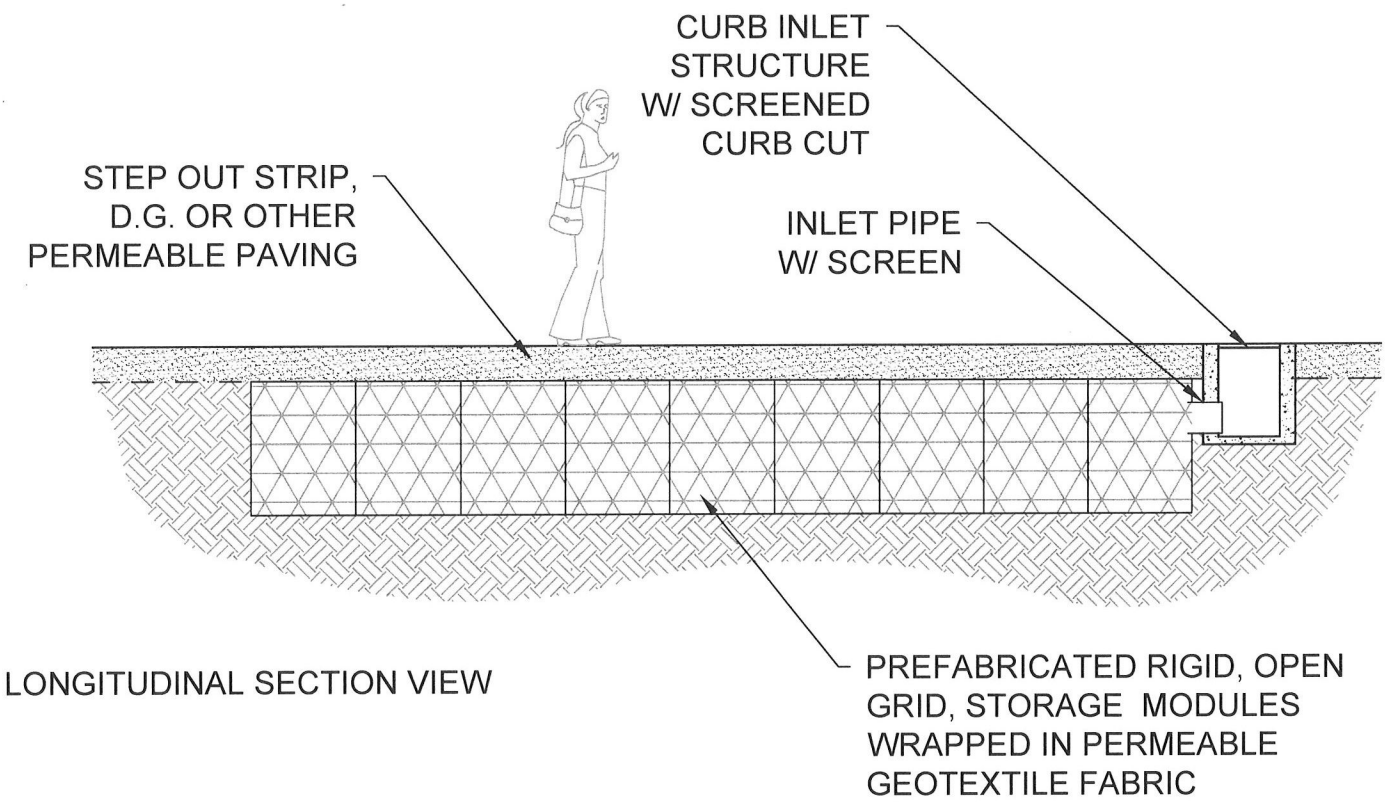
SECTION VIEW - PERMEABLE CONCRETE - SIDEWALK



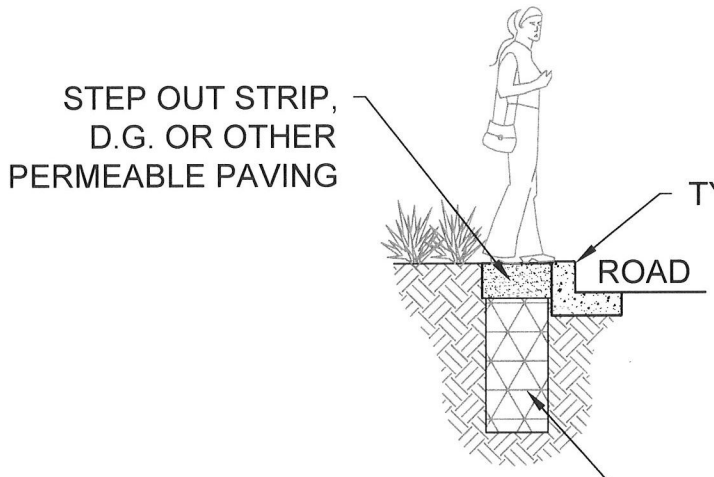
SECTION VIEW - PERMEABLE CONCRETE OR ASPHALT - ROADWAY PARKING LANE

PERMEABLE CONCRETE / ASPHALT PAVING

SURFACE TYPE LID



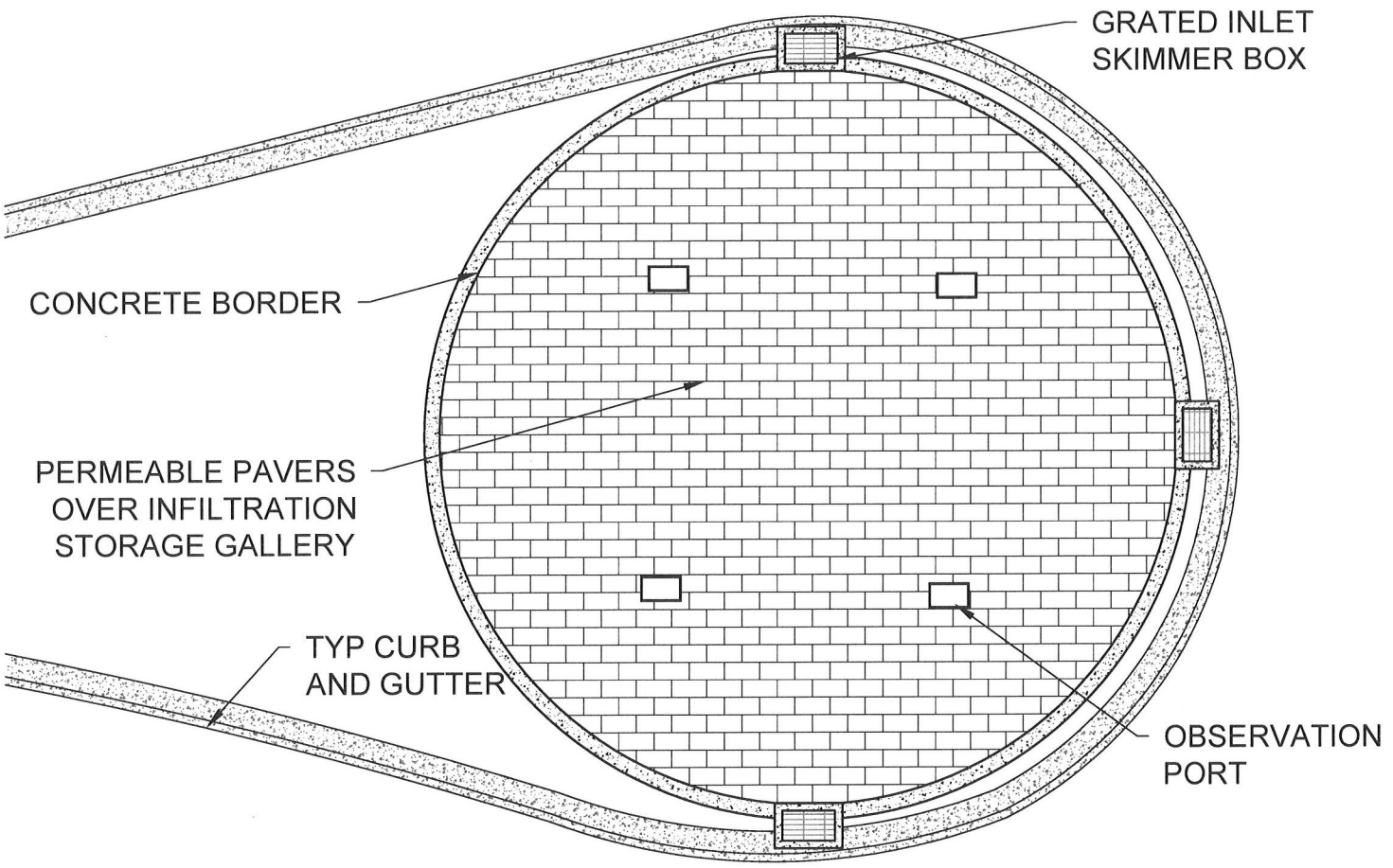
LONGITUDINAL SECTION VIEW



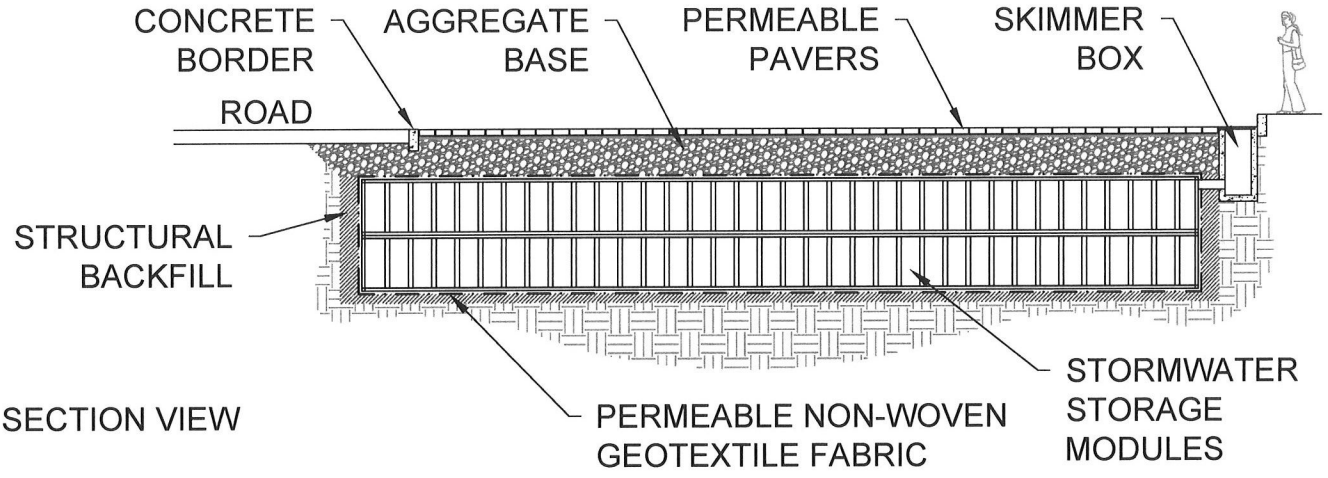
CROSS SECTION VIEW

CURBSIDE INFILTRATION UNITS

SURFACE TYPE LID



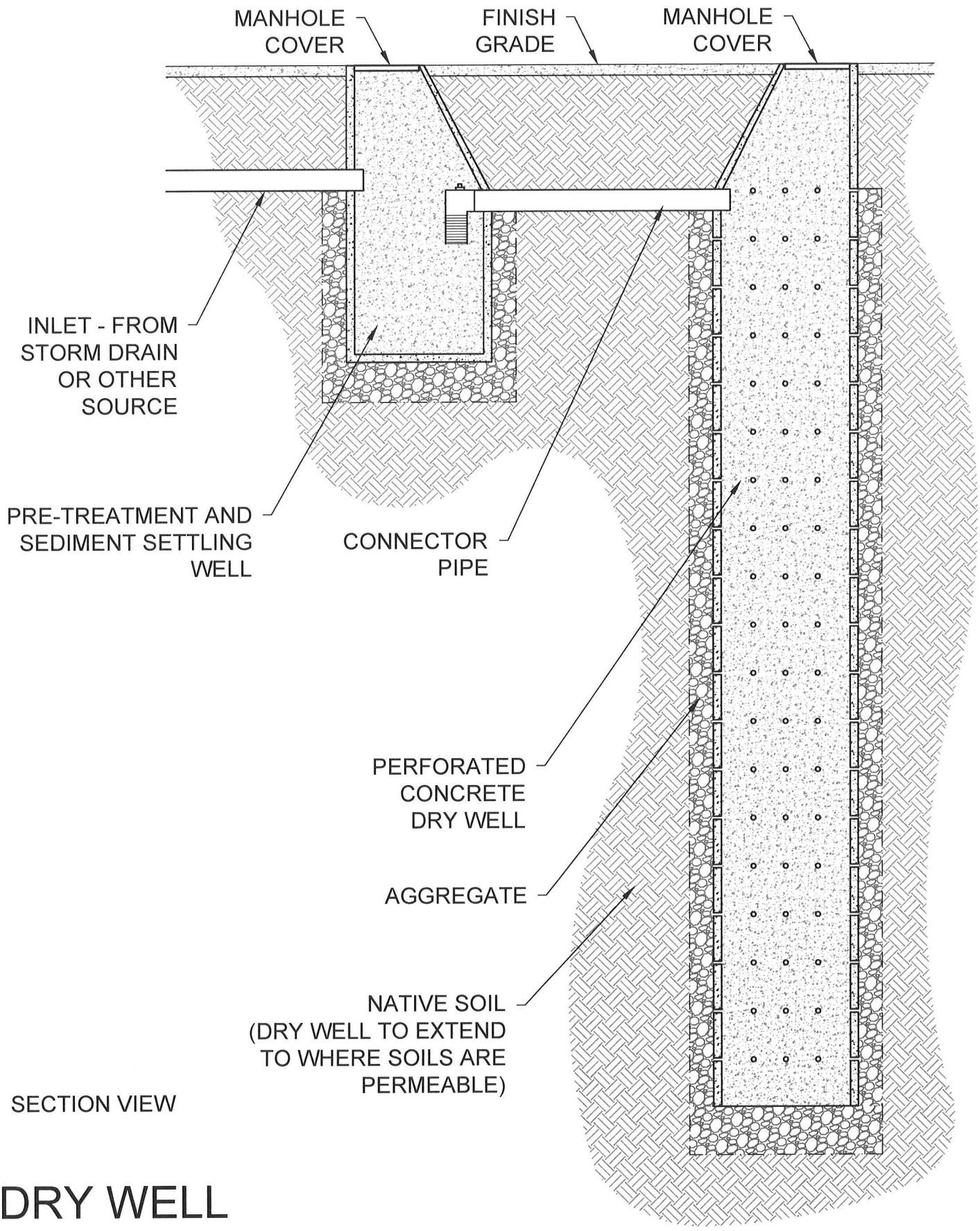
PLAN VIEW SHOWN AT TYPICAL CUL-DE-SAC



SECTION VIEW

INFILTRATION STORAGE GALLERY

SUBTERRANEAN TYPE LID



SECTION VIEW

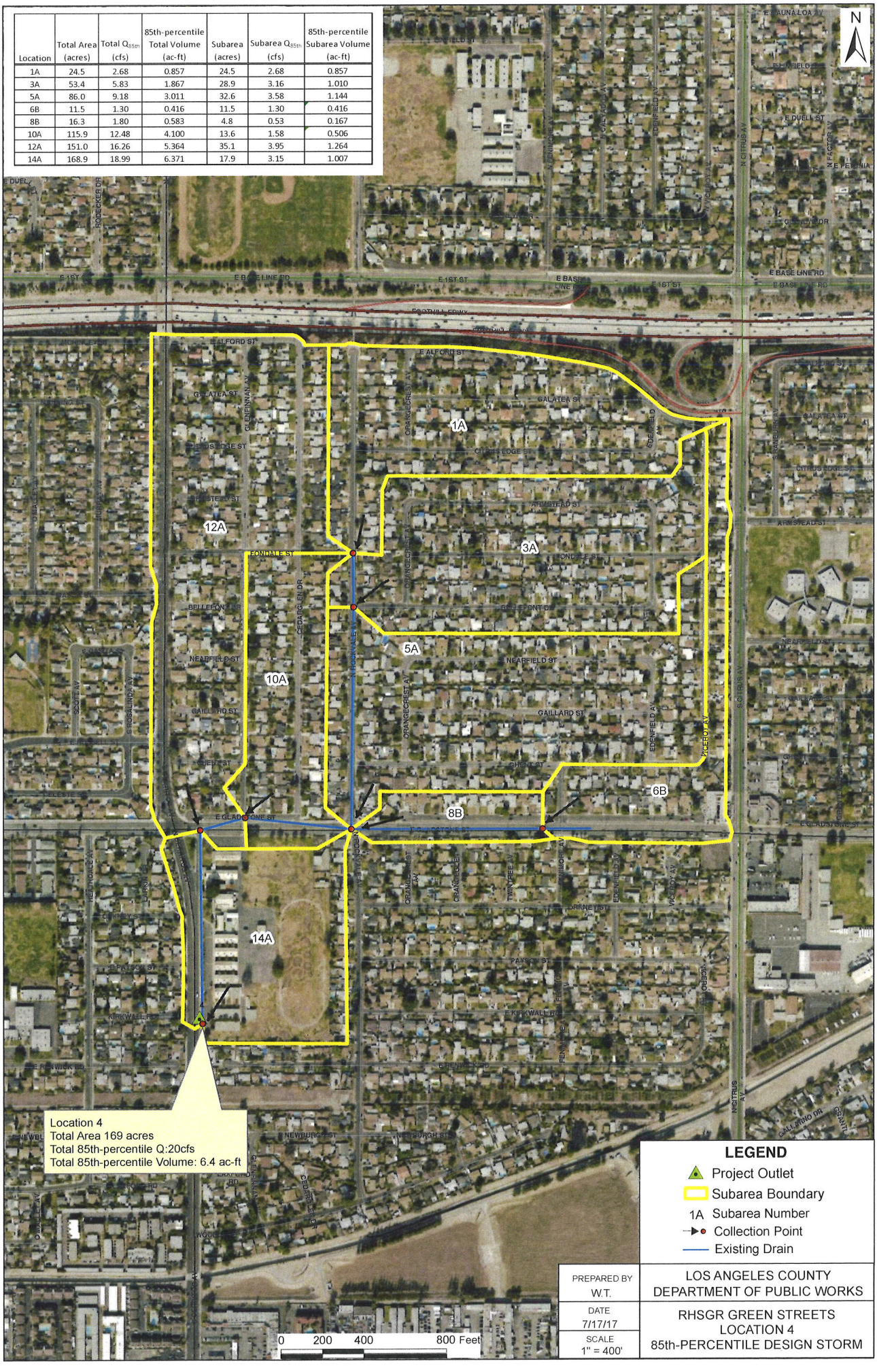
DRY WELL

SUBTERRANEAN TYPE LID

ATTACHMENT III

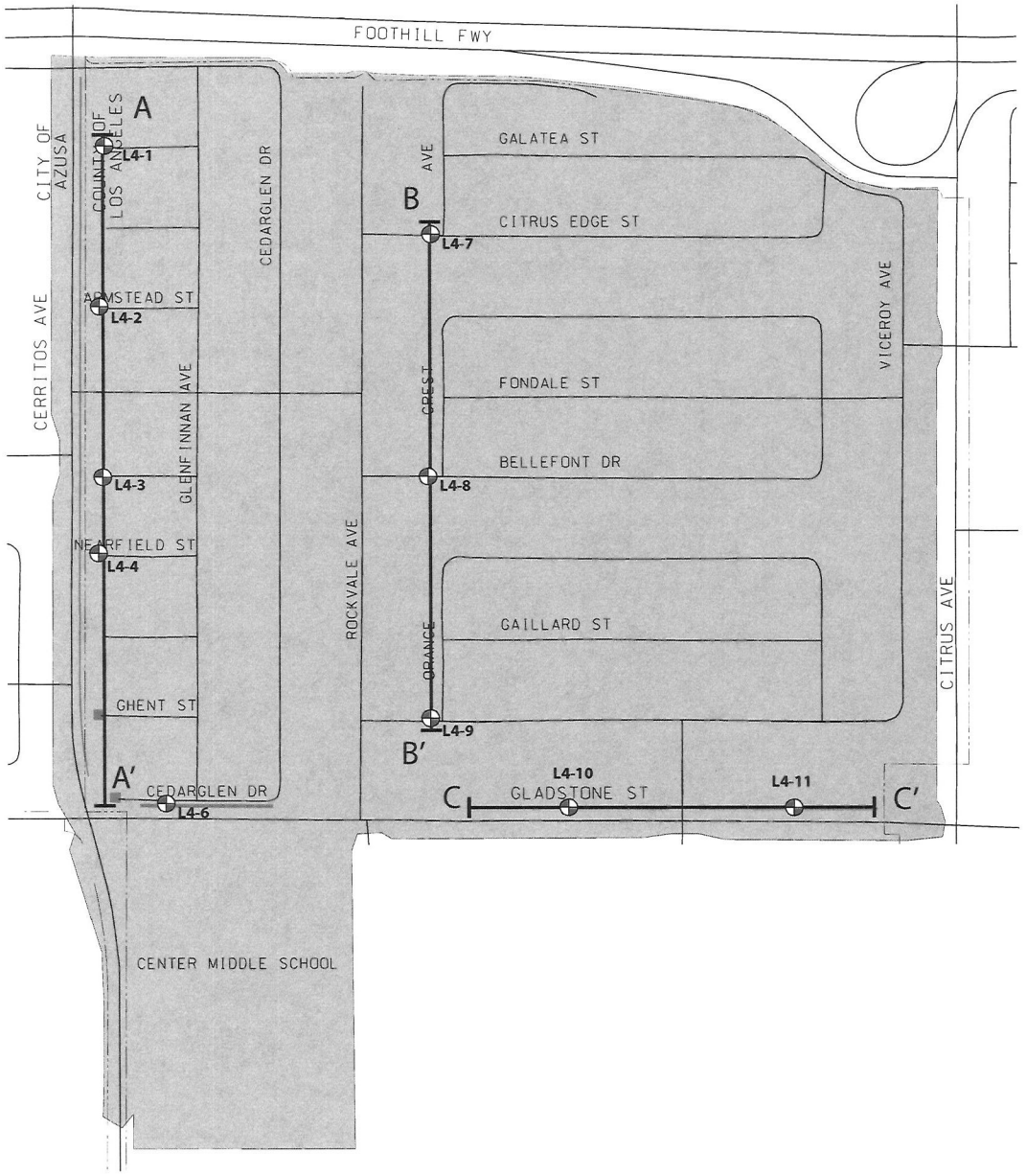
HYDROLOGY

Location	Total Area (acres)	Total Q_{85th} (cfs)	85th-percentile Total Volume (ac-ft)	Subarea (acres)	Subarea Q_{85th} (cfs)	85th-percentile Subarea Volume (ac-ft)
1A	24.5	2.68	0.857	24.5	2.68	0.857
3A	53.4	5.83	1.867	28.9	3.16	1.010
5A	86.0	9.18	3.011	32.6	3.58	1.144
6B	11.5	1.30	0.416	11.5	1.30	0.416
8B	16.3	1.80	0.583	4.8	0.53	0.167
10A	115.9	12.48	4.100	13.6	1.58	0.506
12A	151.0	16.26	5.364	35.1	3.95	1.264
14A	168.9	18.99	6.371	17.9	3.15	1.007



ATTACHMENT IV

CONE PENETRATION TEST RESULTS



N

PLAN
NO SCALE

LEGEND

PROPOSED LID

CPT location

X — X' Cross Section

DRAFTER	DESIGNER	CHECKER	CADD PROJECT FILE NAME	REVIEWED BY	DATE

COUNTY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS

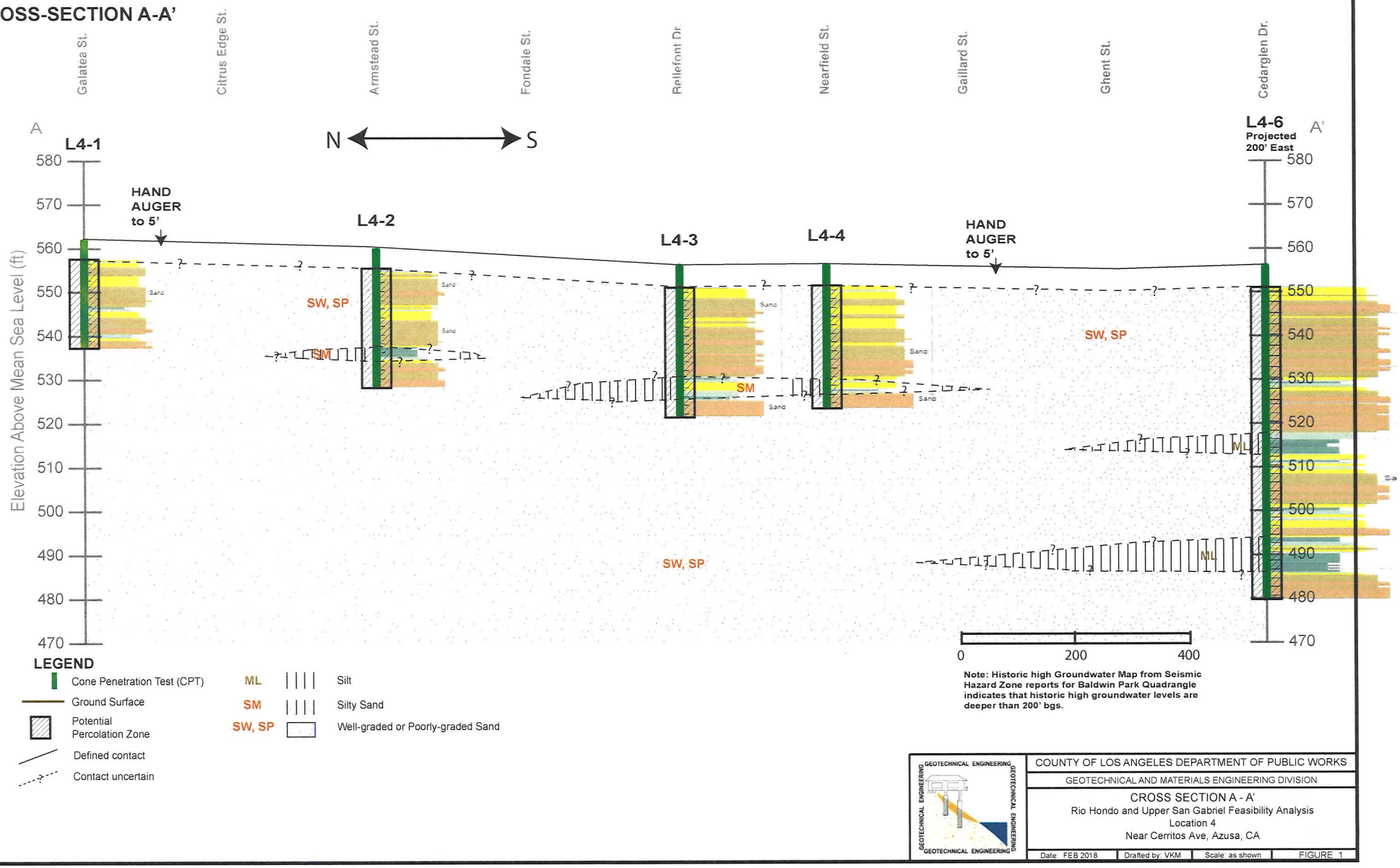
GREEN STREET INVESTIGATIONS
RIO HONDO SAN GABRIEL

AREA 3 - LOCATION 4

KEY MAP

PCA	DWG	SHEET 3 OF 7

CROSS-SECTION A-A'



COUNTY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS

GEOTECHNICAL AND MATERIALS ENGINEERING DIVISION

CROSS SECTION A - A'

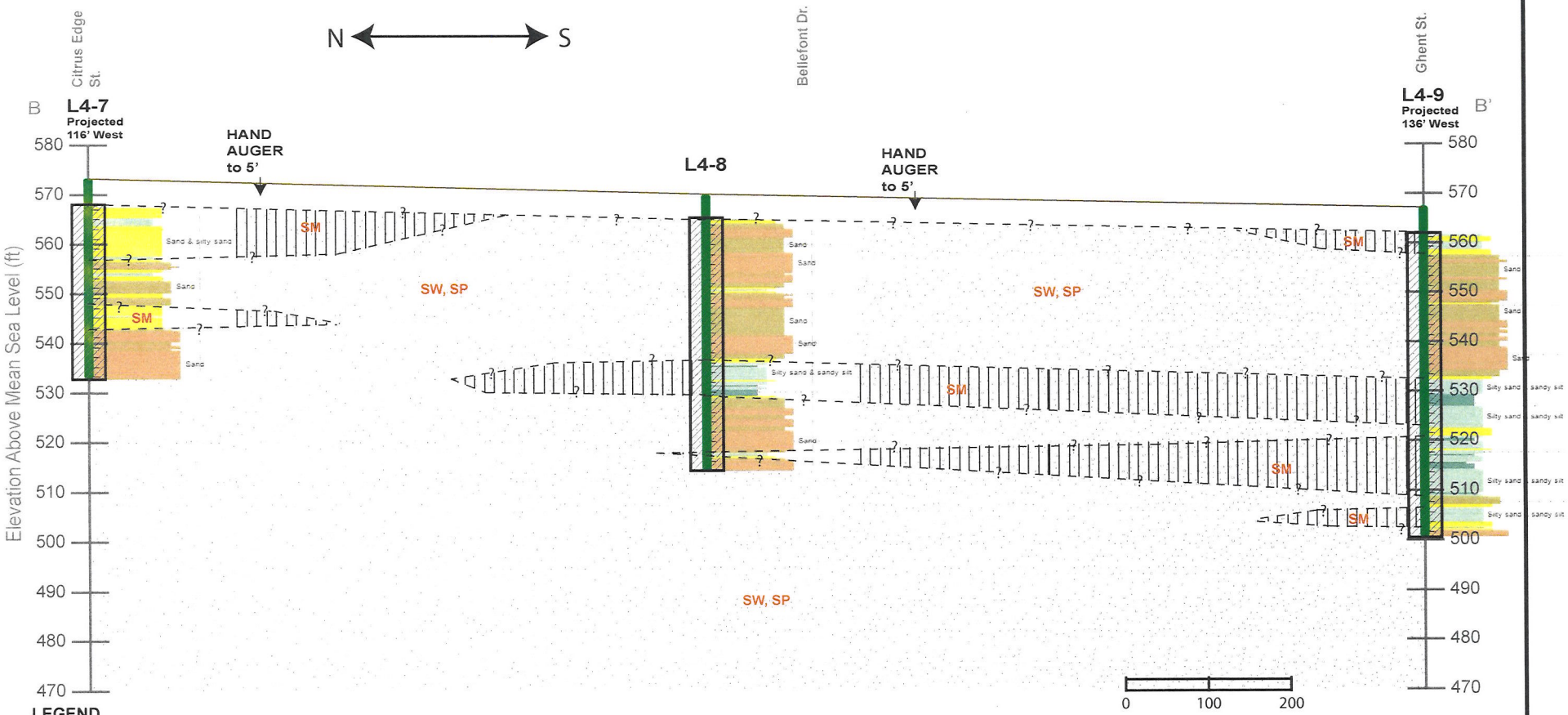
Rio Hondo and Upper San Gabriel Feasibility Analysis

Location 4

Near Cerritos Ave, Azusa, CA

Date: FEB 2018	Drafted by: VKM	Scale: as shown	FIGURE 1

CROSS-SECTION B-B'



LEGEND

- Cone Penetration Test (CPT)
- Ground Surface
- Potential Percolation Zone
- Defined contact
- Contact uncertain

ML		Silt
SM		Silty Sand
SW, SP		Well-graded or Poorly-graded Sand

Note: Historic high Groundwater Map from Seismic Hazard Zone reports for Baldwin Park Quadrangle indicates historic high groundwater levels are deeper than 200' bgs.

COUNTY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS

GEOTECHNICAL AND MATERIALS ENGINEERING DIVISION

CROSS SECTION B - B'

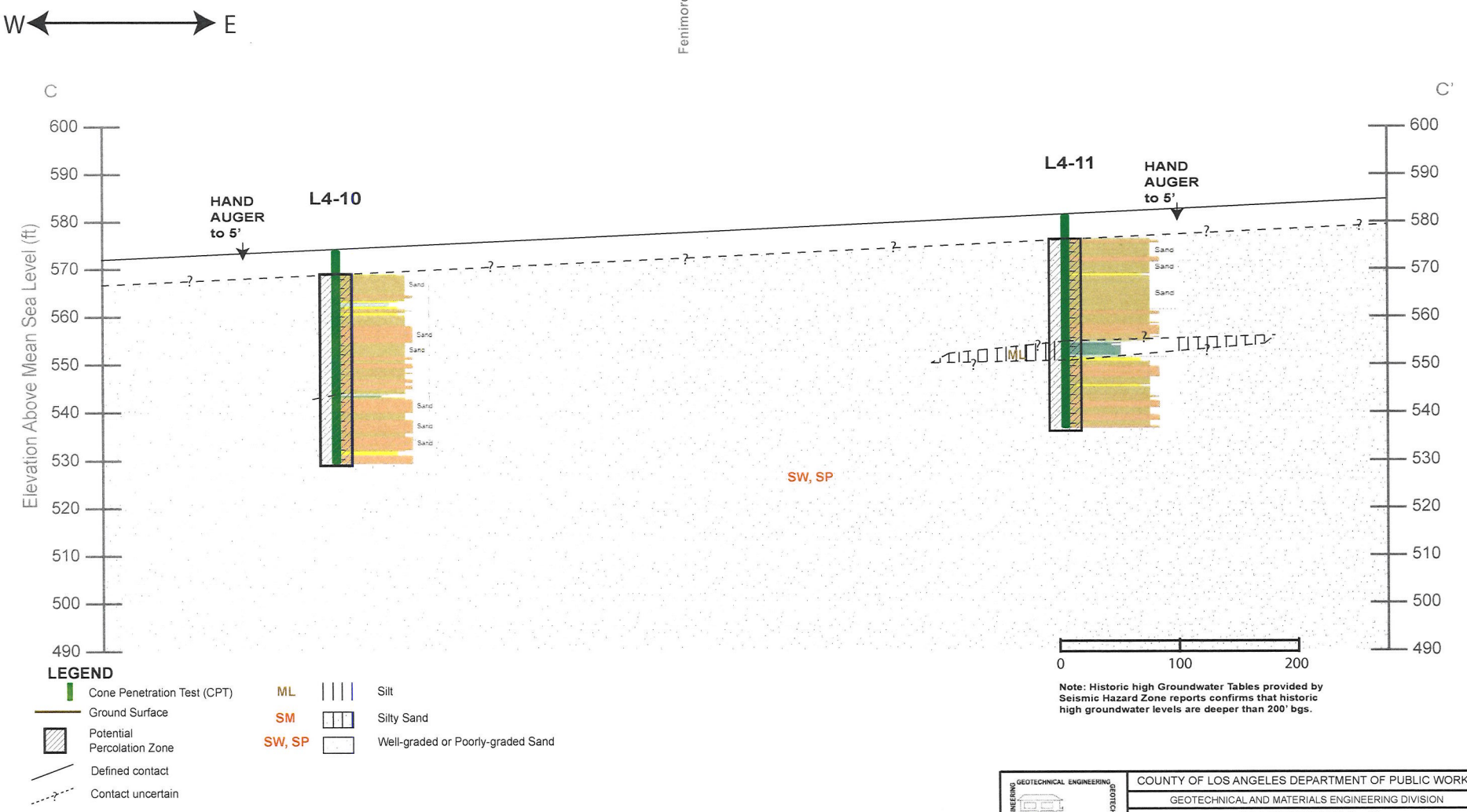
Rio Hondo and Upper San Gabriel Feasibility Analysis

Location 4

Near Rockvale Ave, Azusa, CA

Date: FEB 2018	Drafted by: VKM	Scale: as shown	FIGURE 1

CROSS-SECTION C-C' | GLADSTONE ST



Note: Historic high Groundwater Tables provided by Seismic Hazard Zone reports confirms that historic high groundwater levels are deeper than 200' bgs.

GEOTECHNICAL ENGINEERING

COUNTY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS

GEOTECHNICAL AND MATERIALS ENGINEERING DIVISION

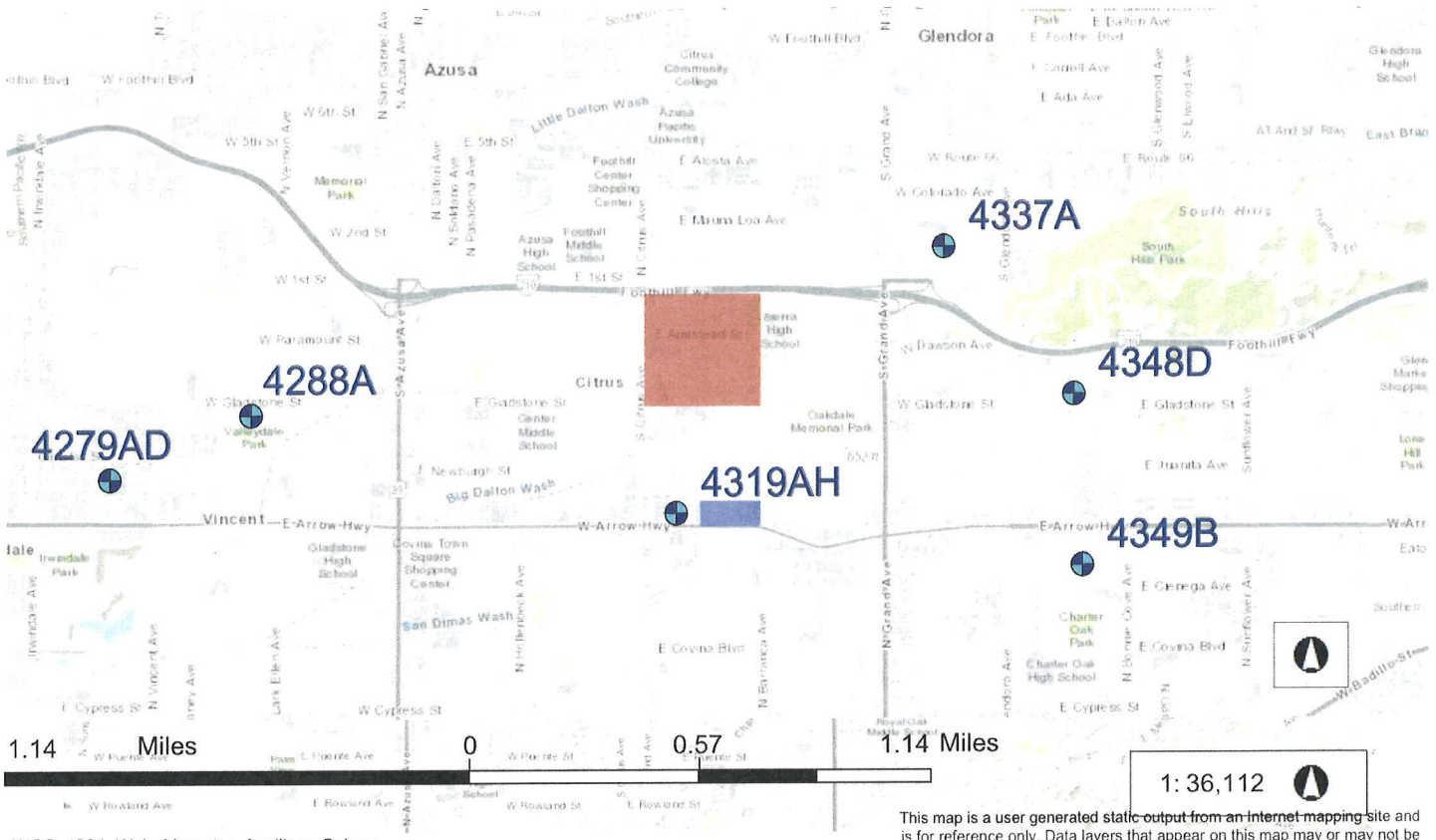
CROSS SECTION C - C'

Rio Hondo and Upper San Gabriel Feasibility Analysis

Location 4

Gladstone Street, Azusa, CA

Date: FEB 2018	Drafted by: VKM	Scale: as shown	FIGURE 1



WGS_1984_Web_Mercator_Auxiliary_Sphere

© Latitude Geographics Group Ltd.

Geocortex Essentials for ArcGIS Server

This map is a user generated static output from an Internet mapping site and is for reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable.
THIS MAP IS NOT TO BE USED FOR NAVIGATION

LEGEND

- Groundwater Monitoring Well LACDPW SWED Database
- Location 3
- Location 4

GEOLOGY AND SOILS

LOS ANGELES COUNTY DEPARTMENT OF PUBLIC WORKS

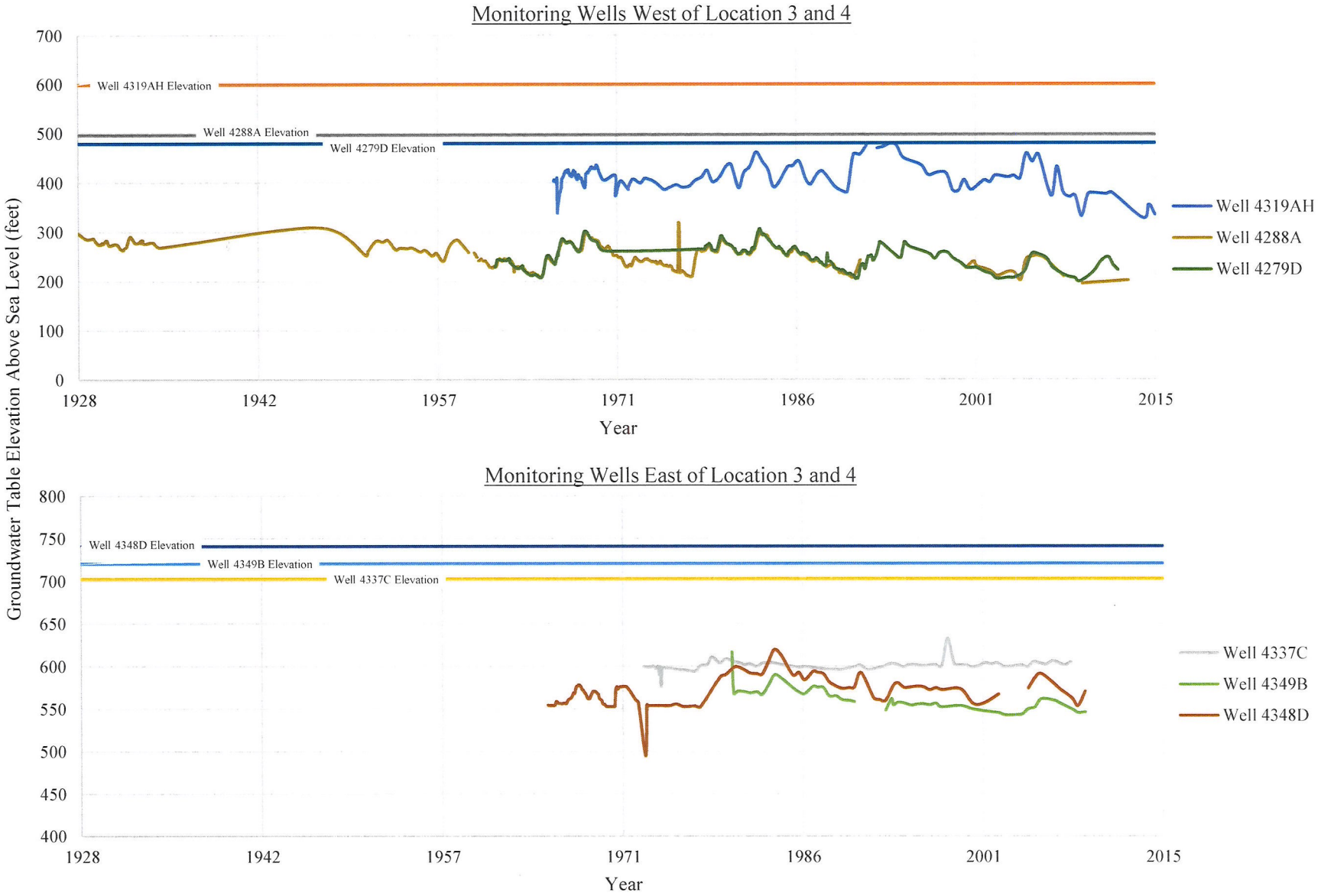
GEOTECHNICAL AND MATERIALS ENGINEERING DIVISION

Groundwater Monitoring Well Locations

Locations 3 and 4
Citrus, CA

Date: May 2018	Drafted by: VM	Scale: As Shown	FIGURE 1

Rio Hondo Groundwater Elevation of LACSW Monitoring Wells



ATTACHMENT V

PRELIMINARY ENVIRONMENTAL SITE SCREENING RESULTS

December 19, 2017

TO: Hector J. Bordas
Design Division

Attention Josafat Flores

FROM: Greg Kelley
Geotechnical and Materials Engineering Division

PRELIMINARY ENVIRONMENTAL SITE SCREENING
GREEN STREET INVESTIGATIONS RIO HONDO/SAN GABRIEL RIVERS
AREA 3 LOCATION 4, UNINCORPORATED AZUSA AREA
PROJECT ID DES0002991 (PROJECT NO. F21816I26G)

In response to your request dated June 20, 2017, and your September 25, 2017, e-mail, clarifying the project limits, a Preliminary Environmental Site Screening (PESS) was completed for the subject project. It is our understanding that the project scope is for the siting of various Low Impact Development features, including bioswales and drywells. Our PESS included a site reconnaissance, review of aerial photographs and topographic maps, and searches of publicly available regulatory databases.

Based on available information, the site conditions observed, and the proposed scope of work, the results of our screening did not identify environmental conditions affecting the subject project. At this time, no further assessment is warranted.

Note that our preliminary screening of the site conditions does not preclude that contamination may exist in subsurface soils at the site in areas that have not been identified as environmental concerns because: (1) contamination releases may not have been reported to the authorities, (2) contamination releases were not known to have occurred, or (3) data gaps exist in the referenced databases, historical photographs, or maps. There is also the possibility that site contamination may occur subsequent to our review. Additionally, if impacted soils are encountered during construction, the project contractor should implement proper health and safety measures and appropriate contaminated material handling and disposal procedures. This PESS is generally considered applicable for a period of 180 days from the date of this memorandum and is recommended to be updated thereafter as needed.

If you have any questions regarding this matter, please contact Phuong Schmit-Kallas or Gregory Sena at Extension 4923. To provide feedback on our services please access http://dpw.lacounty.gov/go/gmedsurvey to complete a Customer Service Survey.

PSK:GS:kw
p:\gmepub\secretarial\geoinv\pess\2017\hondo-gabriel area 3 location 4.docx

cc: Construction (Enriquez)
Design (Davis, Fung, Wu)

GREEN STREETS INVESTIGATIONS
RIO HONDO/SAN GABRIEL RIVER

TECHNICAL MEMO – LOCATION 5

PROJECT SCOPE

- Location: Unincorporated Community of East Pasadena (TG pages 566-H5, H6)
- Tributary area: Total area = 68.3 acres, Pipe Flow = 61 acres, Surface Flow = 0 acres
- Rio Hondo Watershed RAA Volume: 4.79 acre-feet
- Area Jurisdiction – 100% within County

Stormwater Quality Division requested Design Division (DES) to conduct a green street feasibility study for various locations in the Rio Hondo/San Gabriel River watershed. These locations were submitted to Stormwater Engineering Division (SWED) to prepare tributary area maps showing the drainage area for each location. Based on the tributary area for Location 5 provided by SWED (see Attachment 3), DES conducted a field reconnaissance to identify potential locations for Low Impact Development (LID) features (see Attachment 1 for location maps). The following requests were then submitted to the following support divisions to provide necessary information to assess the feasibility of each location.

Division	Information Requested	Date Requested	Attachment
Construction	Preliminary Utility Search	May 23, 2017	N/A*
Geotechnical & Materials Engineering (GMED)	Preliminary Environmental Site Screening (PESS)	June 20, 2017	5
	Cone Penetration Test (CPT)	August 1, 2017	4

*Preliminary Utility Search responses are on file and available upon request.

FEASIBILITY REVIEW

Review Categories

Category	Description
Subarea	References the subarea number in the hydrology map prepared by SWED (see Attachment 3). Subareas are sorted generally from upstream to downstream storm drain flow.
ID	Number provided to reference individual LID features within one catchment area.
PESS	'X' indicates potential presence of contaminated soils in this location. Confirmation of this contamination will require the depth range of the proposed LID and additional file reviews from GMED.
Utility Search	'X' indicates potential conflict with one or more utilities. Due to the margin of error associated with aerial, property line, and utility information, the exact locations of utilities need to be confirmed through potholing.
CPT	'X' indicates this location may not be suitable for infiltration due to a soil profile consisting primarily of clayey material or a shallow groundwater table. Further subsurface investigation by GMED is

CPT	warranted to completely exclude the location from onsite infiltration. Biofiltration may still be possible.
Feasibility Tier	Provides a ranking of proposed locations based on all review categories. No potential issues were found at Tier 1 locations and should be considered priority for further development. Tier 2 locations may have a combination of potential utility and infiltration issues. Tier 3 locations have potential soil contamination and may have additional issues. These are recommended as a last priority.

Review Results

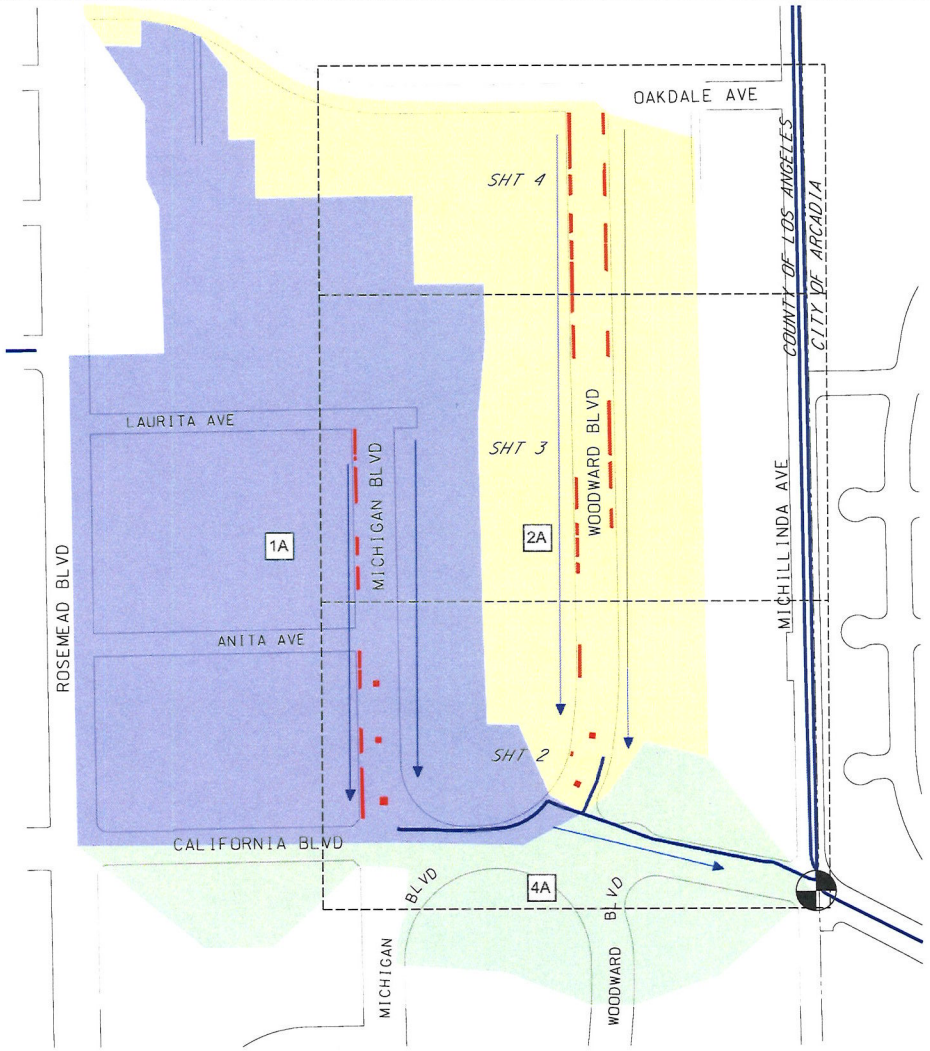
The below table summarizes DES's findings for the potential LID locations based on a concept level investigation. Further investigation is required during the Project Design Concept Phase to confirm the impact of the issues on the proposed scope of work. See Attachment 2 for schematic diagrams of the proposed features.

				Potential Issues			
Subarea	**V85th (ac-ft)**	**Cumulative V85th (ac-ft)**	**ID**	**PESS**	**Utility Search**	**CPT**	**Feasibility Tier**
1A	1.240	1.240	5-1		X		2
			5-2				1
			5-3				1
			5-4		X		2
			5-5				1
			5-6				1
			5-7		X		2
			5-12				1
			5-13				1
			5-14				1
			5-15		X		2
2A	0.839	2.079	5-8		X		2
			5-9				1
			5-10		X		2
			5-11				1
			5-16				1
			5-17				1
			5-18		X		2
			5-19				1
			5-20		X		2
			5-21				1
			5-22				1
			5-23				1
			5-24		X		2
			5-25		X		2
			5-26				1
			5-27				1
			5-28				1

				Potential Issues			
Subarea	V85th (ac-ft)	Cumulative V85th (ac-ft)	ID	PESS	Utility Search	CPT	Feasibility Tier
2A	0.839	2.079	5-29				1
			5-30				1
			5-31		X		2
			5-32				1
			5-33				1

ATTACHMENT I

LOCATION MAPS



PLAN
NO SCALE

LEGEND

- PROPOSED LID FEATURE
- SUBAREA BOUNDARY
- 1A SUBAREA NUMBER
- FLOW DIRECTION
- EXISTING STORM DRAIN
- LOCATION 5

DRAFTER	DESIGNER	CHECKER	CADD PROJECT FILE NAME	REVIEWED BY	DATE

COUNTY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS

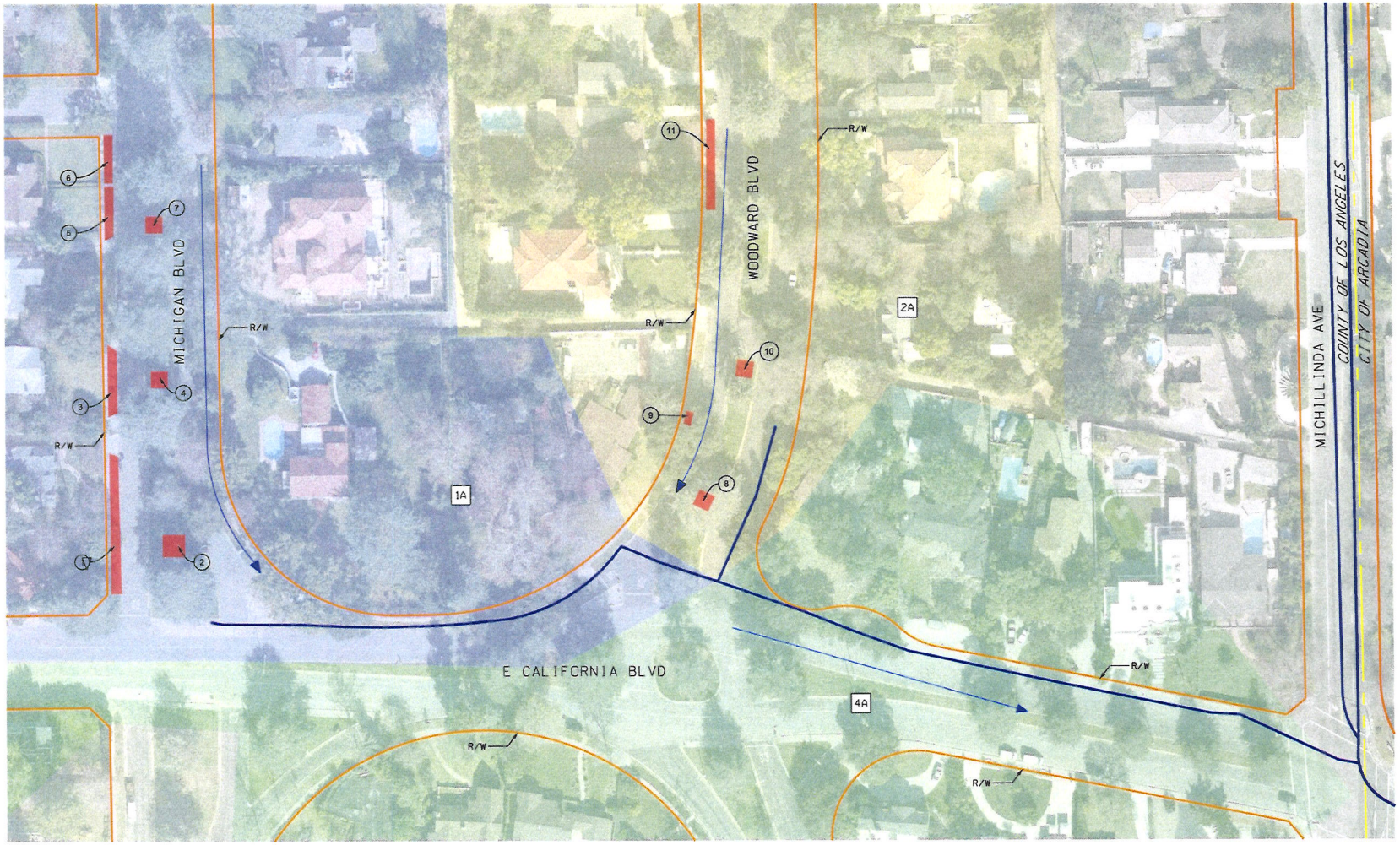
GREEN STREET INVESTIGATIONS
RIO HONDO SAN GABRIEL

LOCATION 5

KEY MAP

PCA	DWG	SHEET 1 OF 4

MATCH LINE SEE SHEET 3



PLAN
NO SCALE

LEGEND

- PROPOSED LID FEATURE
- (#) PROPOSED LID FEATURE ID
- SUBAREA BOUNDARY
- 1A SUBAREA NUMBER
- FLOW DIRECTION
- EXISTING STORM DRAIN

DRAFTER	DESIGNER	CHECKER	CADD PROJECT FILE NAME	REVIEWED BY	DATE

COUNTY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS

GREEN STREET INVESTIGATIONS RIO HONDO SAN GABRIEL

LOCATION 5

LOCATION MAP

PCA	DWG	SHEET 2 OF 4

MATCH LINE SEE SHEET 4



MATCH LINE SEE SHEET 2

PLAN
NO SCALE

LEGEND

- PROPOSED LID FEATURE
- (#) PROPOSED LID FEATURE ID
- SUBAREA BOUNDARY
- 1A SUBAREA NUMBER
- FLOW DIRECTION
- EXISTING STORM DRAIN

DRAFTER	DESIGNER	CHECKER	CADD PROJECT FILE NAME	REVIEWED BY	DATE

COUNTY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS

GREEN STREET INVESTIGATIONS RIO HONDO SAN GABRIEL

LOCATION 5

LOCATION MAP

PCA	DWG	SHEET 3 OF 4



MATCH LINE SEE SHEET 3

PLAN
NO SCALE

LEGEND

- PROPOSED LID FEATURE
- (#) PROPOSED LID FEATURE ID
- SUBAREA BOUNDARY
- 1A SUBAREA NUMBER
- FLOW DIRECTION
- EXISTING STORM DRAIN

DRAFTER	DESIGNER	CHECKER	CADD PROJECT FILE NAME	REVIEWED BY	DATE

COUNTY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS

GREEN STREET INVESTIGATIONS
RIO HONDO SAN GABRIEL

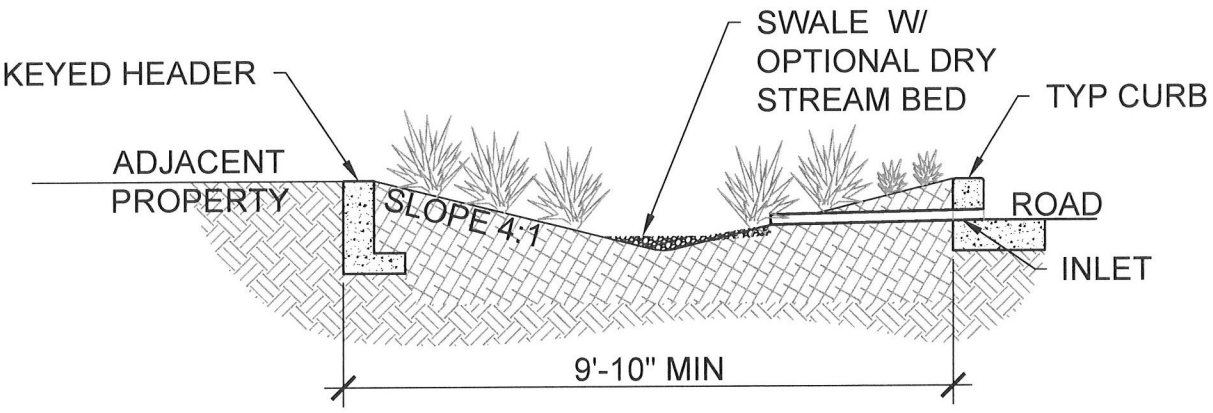
LOCATION 5

LOCATION MAP

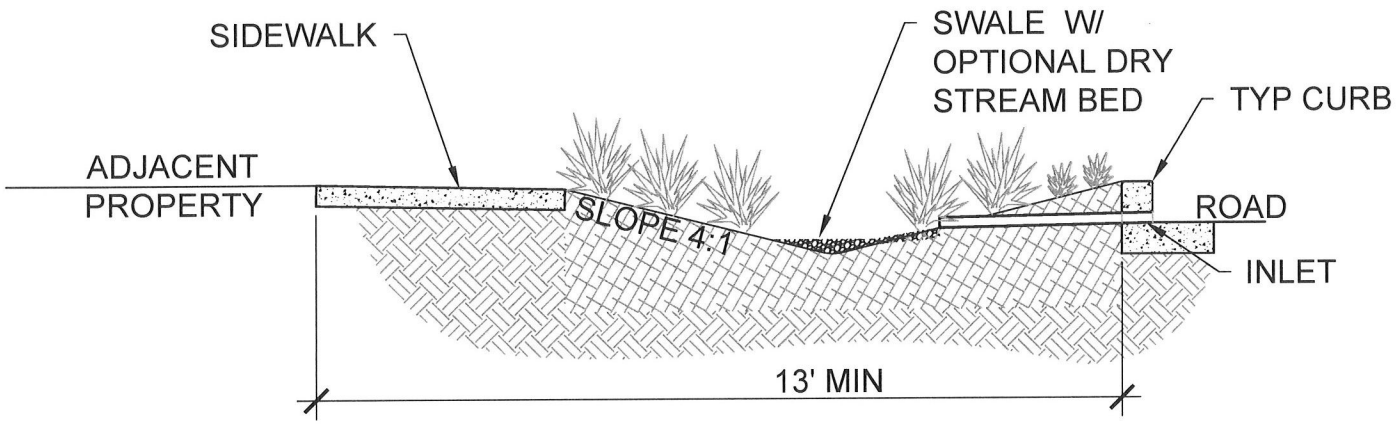
PCA	DWG	SHEET 3 OF 4

ATTACHMENT II

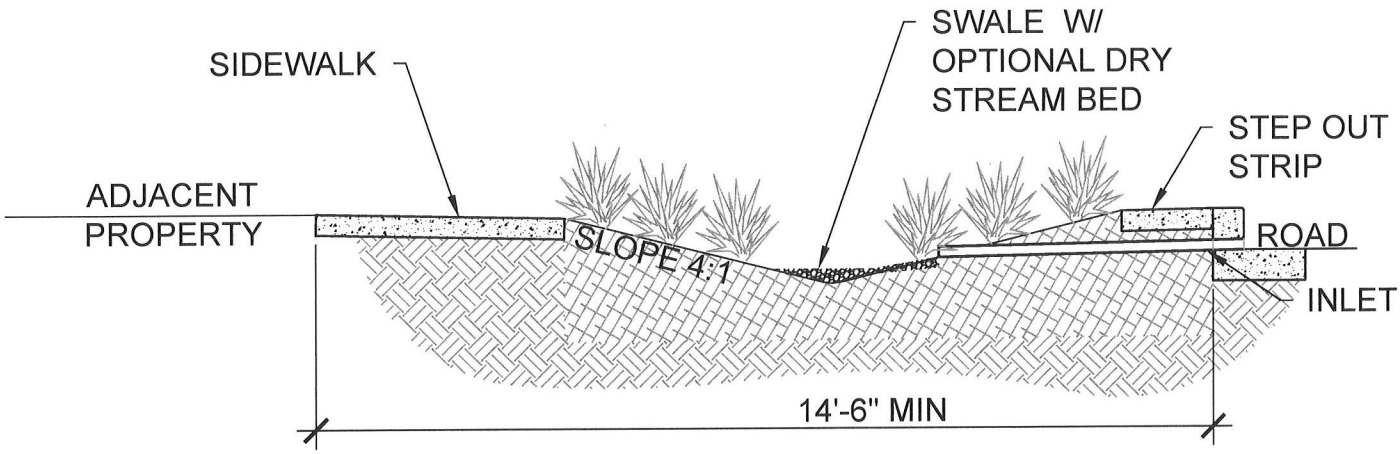
LID FEATURE TYPICAL SECTIONS



SECTION VIEW - AREAS WITHOUT SIDEWALKS AND NO PARKING



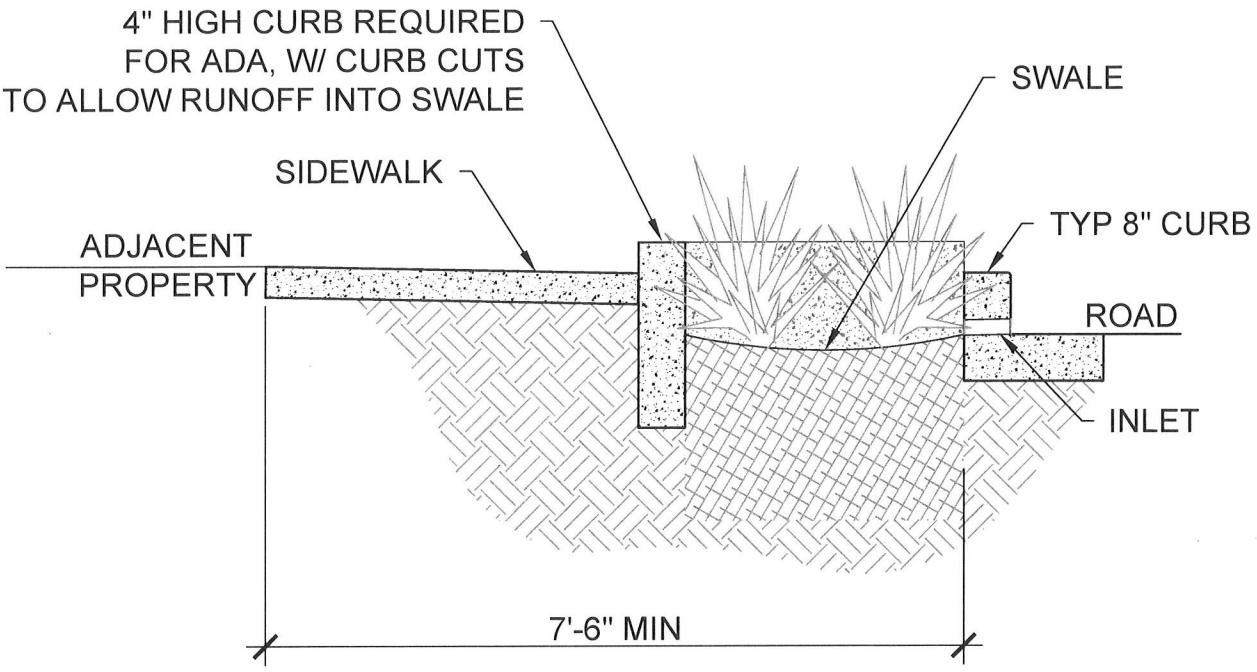
SECTION VIEW - AREAS WITH SIDEWALKS BUT NO PARKING



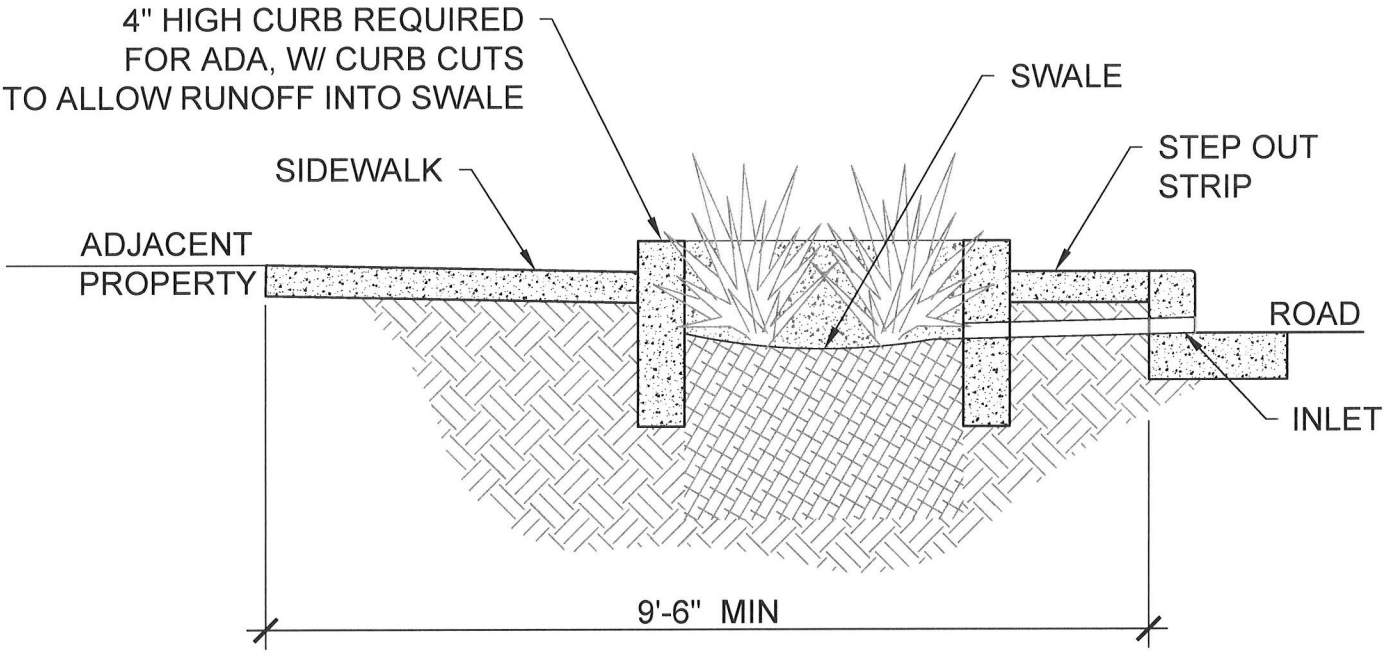
SECTION VIEW - AREAS WITH SIDEWALKS AND PARKING

SLOPED BIO-SWALE (RAIN GARDEN)

SURFACE TYPE LID



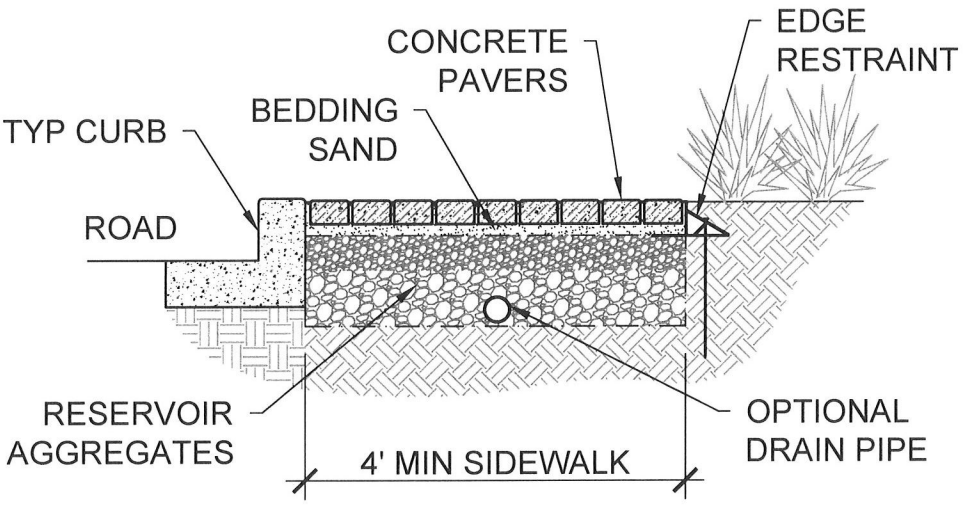
SECTION VIEW - AREAS WITH NO PARKING



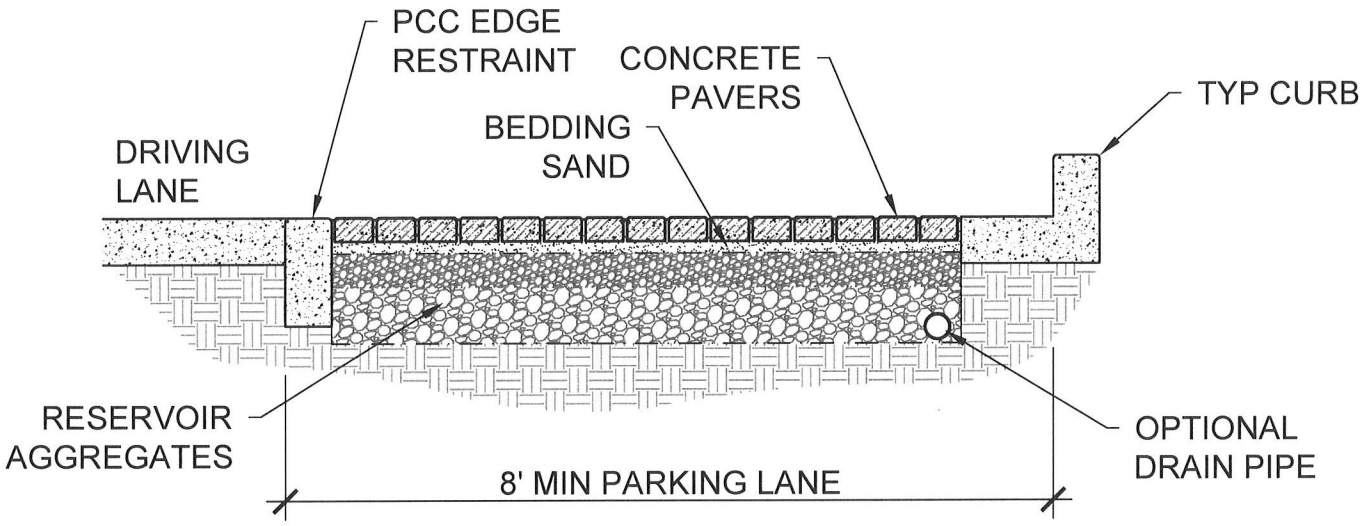
SECTION VIEW - AREAS WITH PARKING

PLANTER BOX BIO-SWALE (RAIN GARDEN)

SURFACE TYPE LID



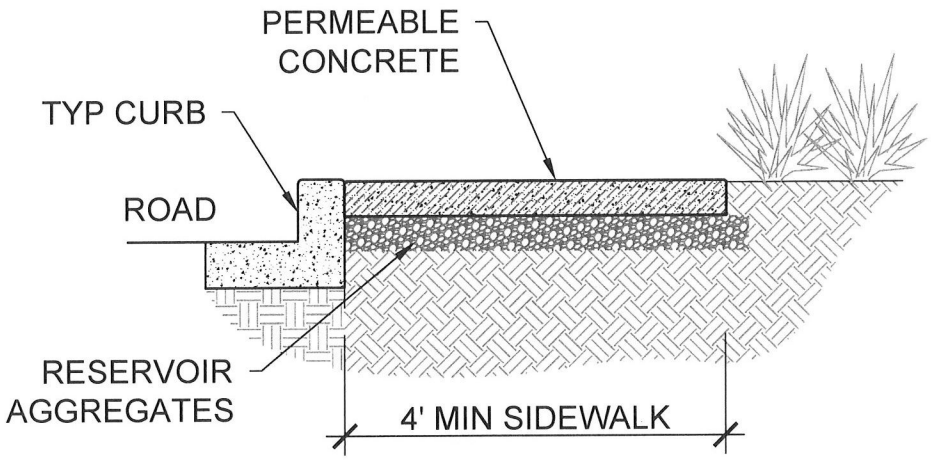
SECTION VIEW - PERMEABLE PAVERS - SIDEWALK



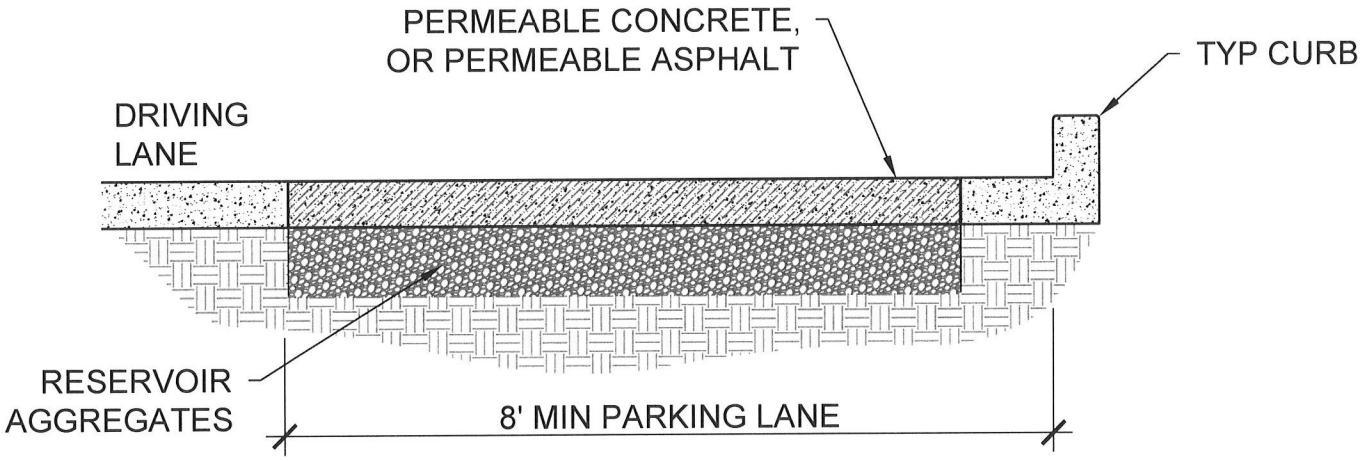
SECTION VIEW - PERMEABLE PAVERS - ROADWAY PARKING LANE

PERMEABLE PAVERS (PAVING)

SURFACE TYPE LID



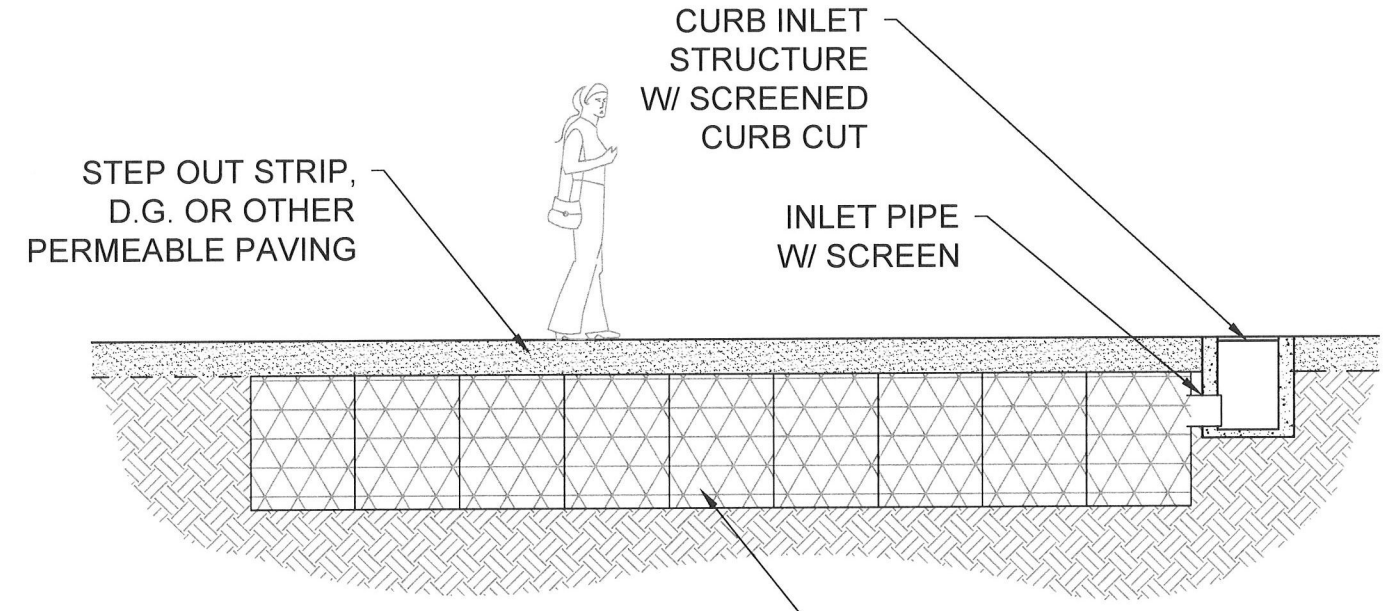
SECTION VIEW - PERMEABLE CONCRETE - SIDEWALK



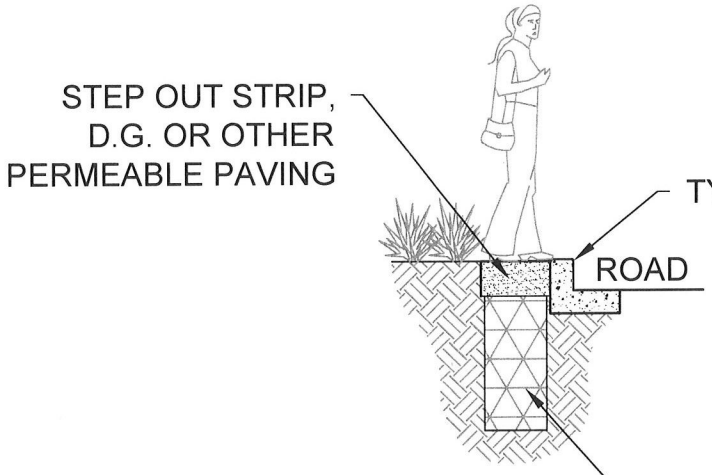
SECTION VIEW - PERMEABLE CONCRETE OR ASPHALT - ROADWAY PARKING LANE

PERMEABLE CONCRETE / ASPHALT PAVING

SURFACE TYPE LID



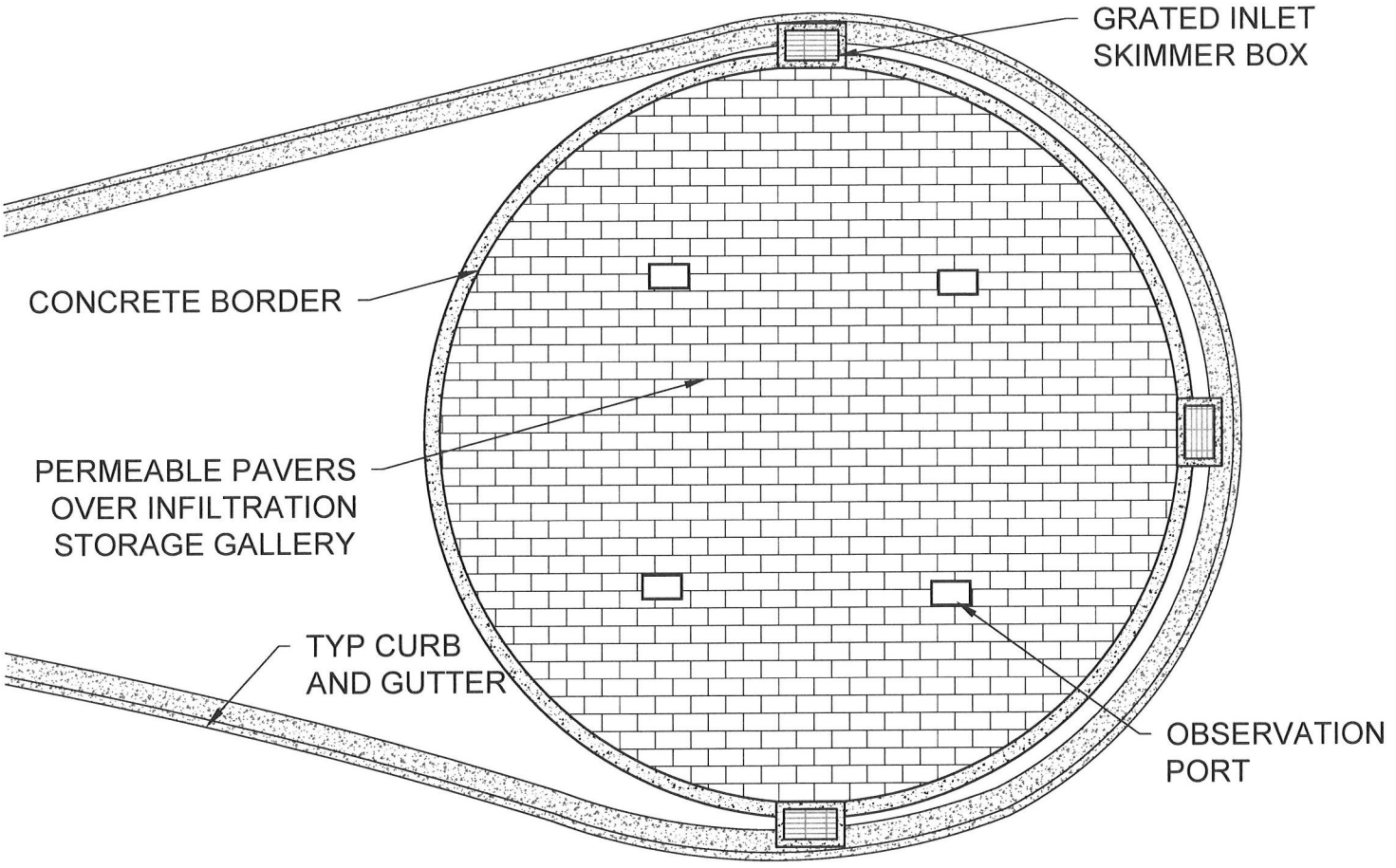
LONGITUDINAL SECTION VIEW



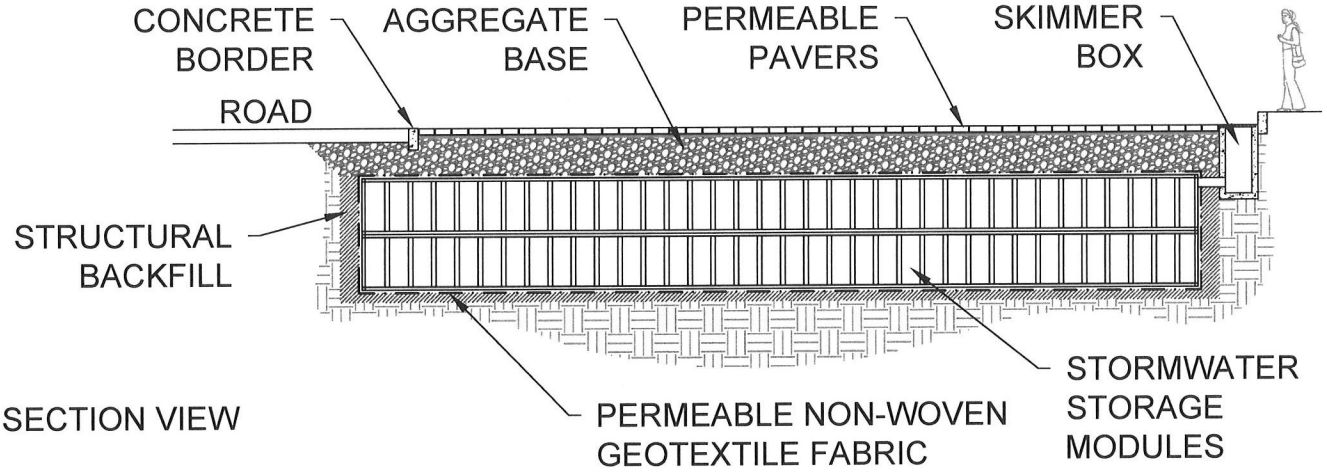
CROSS SECTION VIEW

CURBSIDE INFILTRATION UNITS

SURFACE TYPE LID



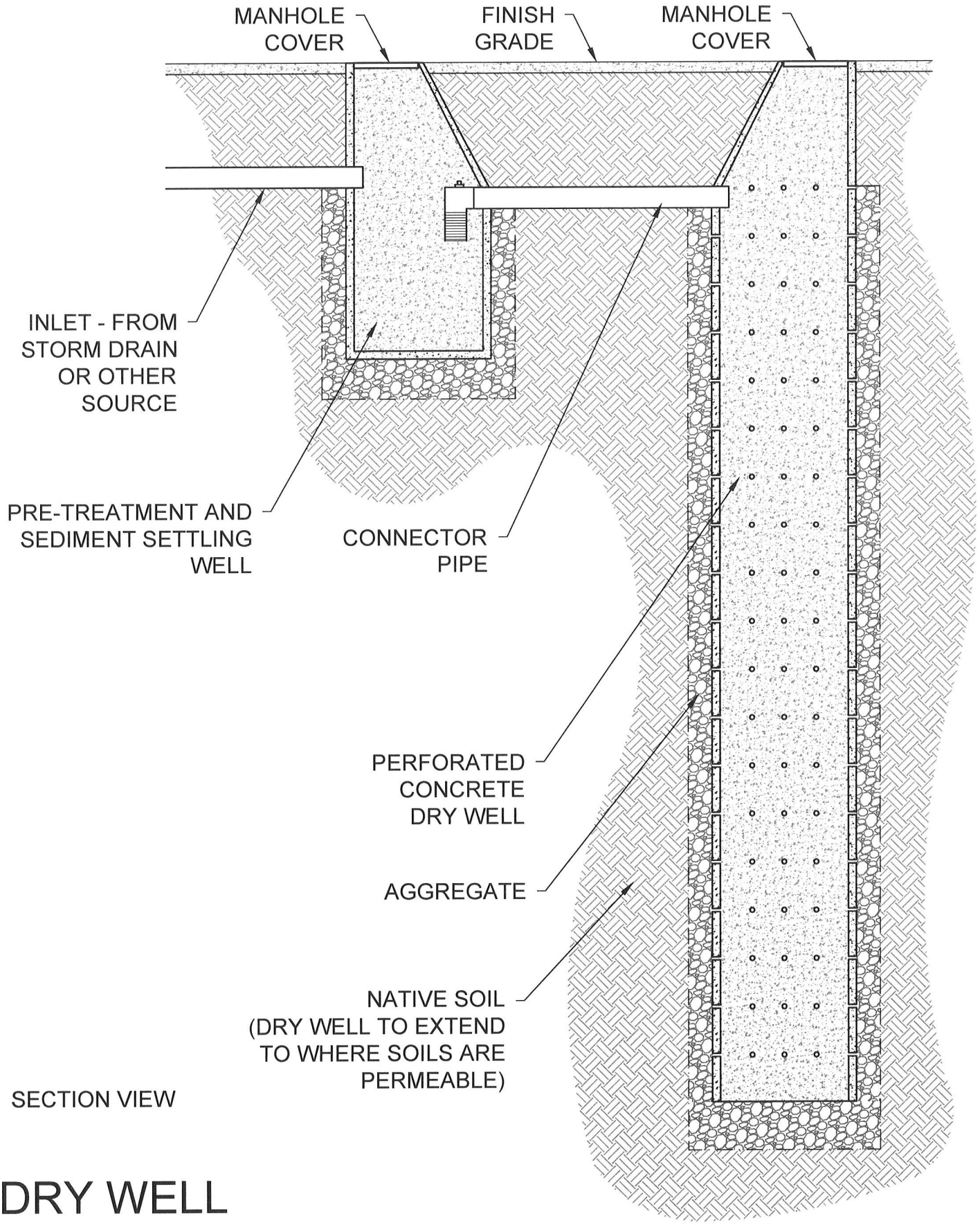
PLAN VIEW SHOWN AT TYPICAL CUL-DE-SAC



SECTION VIEW

INFILTRATION STORAGE GALLERY

SUBTERRANEAN TYPE LID



SECTION VIEW

DRY WELL

SUBTERRANEAN TYPE LID

ATTACHMENT III

HYDROLOGY



Location	Total Area (acres)	Total Q_{85th} (cfs)	85th-percentile Total Volume (ac-ft)	Subarea (acres)	Subarea Q_{85th} (cfs)	85th-percentile Subarea Volume (ac-ft)
1A	34.40	3.88	1.240	34.4	3.88	1.240
2A	57.30	6.5	2.079	22.9	2.62	0.839
4A	68.30	7.84	2.510	11.0	1.35	0.431

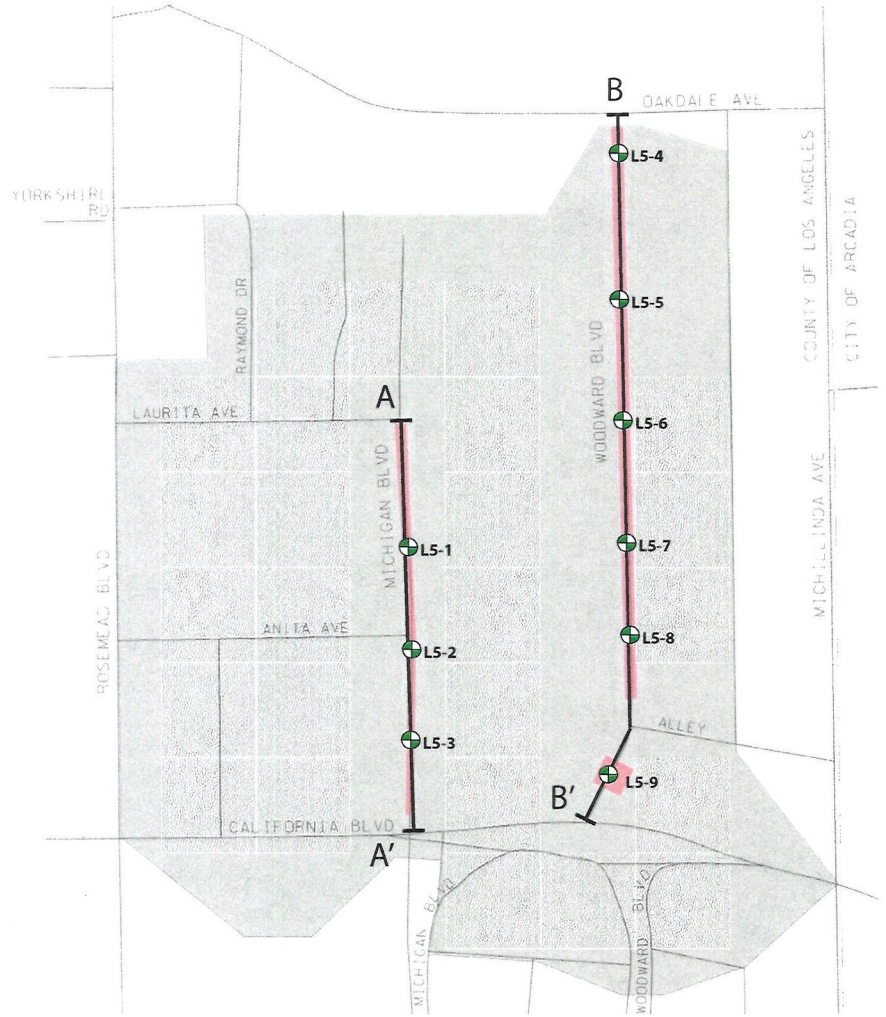
LEGEND

- Subarea Boundary
- Project Outlet
- Collection Point
- 1A — Subarea Number
- Existing Drain

PREPARED BY SM	LOS ANGELES COUNTY DEPARTMENT OF PUBLIC WORKS
DATE 07/18/2017	RHSGR GREEN STREETS LOCATION 5 85th-PERCENTILE DESIGN STORM
SCALE 1" = 400'	

ATTACHMENT IV

CONE PENETRATION TEST RESULTS



PLAN
NO SCALE

LEGEND

PROPOSED LID

CPT Location

X — X′ Cross Section Location

DATE	MK	DESCRIPTION
		REVISIONS

PROJECT ENGINEER DATE

COUNTY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS

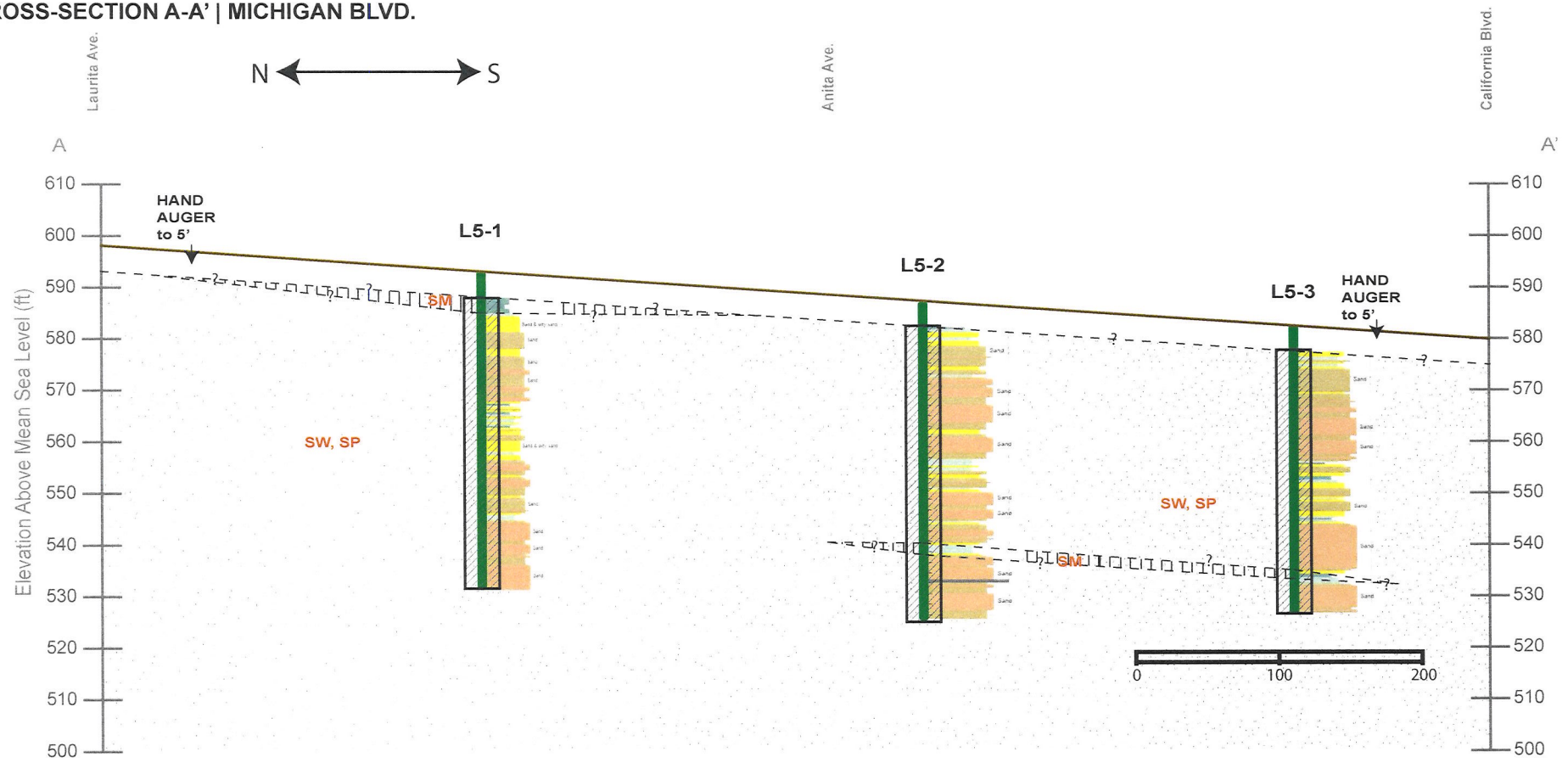
GREEN STREET INVESTIGATIONS
RIO HONDO SAN GABRIEL

AREA 1 - LOCATION 5

KEY MAP

PCA	DWG	SHEET 1 OF 4

CROSS-SECTION A-A' | MICHIGAN BLVD.



LEGEND

- Cone Penetration Test (CPT)
- Ground Surface
- Potential Percolation Zone
- Defined contact
- Contact uncertain

ML		Silt
SM		Silty Sand
SW, SP		Well-graded or Poorly-graded Sand

Note: Groundwater Measurement on 11/26/2013 provided by Stormwater Engineering Division's Well Database indicated the water level to be deeper than 100' bgs.

GEOTECHNICAL ENGINEERING

COUNTY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS

GEOTECHNICAL AND MATERIALS ENGINEERING DIVISION

CROSS SECTION A - A'

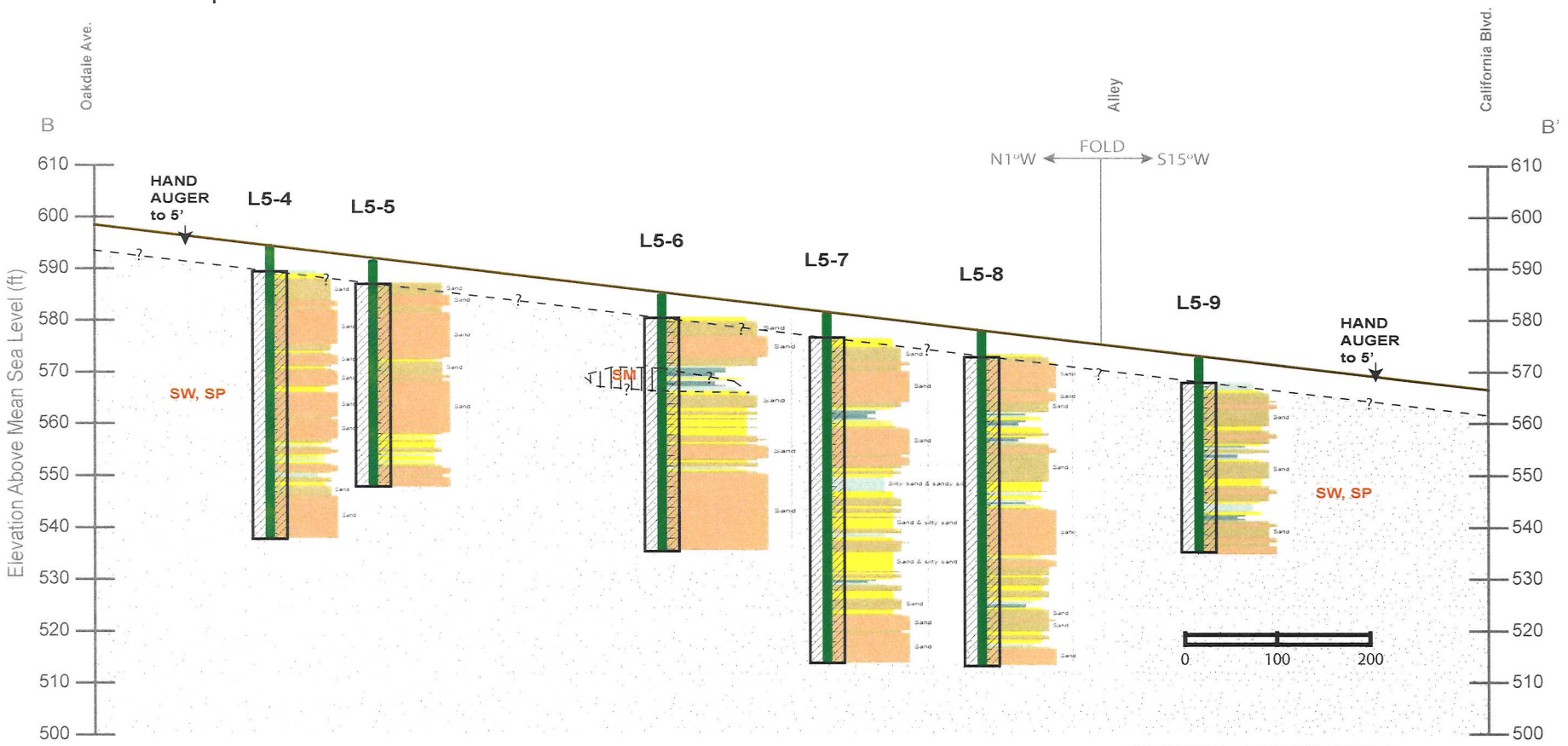
Rio Hondo and Upper San Gabriel Feasibility Analysis

Location 5

Michigan Blvd., Pasadena, CA

Date: FEB 2018	Drafted by: VKM	Scale: as shown	FIGURE 1

CROSS-SECTION B-B' | WOODWARD BLVD.



LEGEND

- Cone Penetration Test (CPT)
- Ground Surface
- Potential Percolation Zone
- Defined contact
- Contact uncertain

ML		Silt
SM		Silty Sand
SW, SP		Well-graded or Poorly-graded Sand

Note: Groundwater Measurement on 11/26/2013 provided by Stormwater Engineering Division's Well Database indicated the water level to be deeper than 100' bgs.

COUNTY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS

GEOTECHNICAL AND MATERIALS ENGINEERING DIVISION

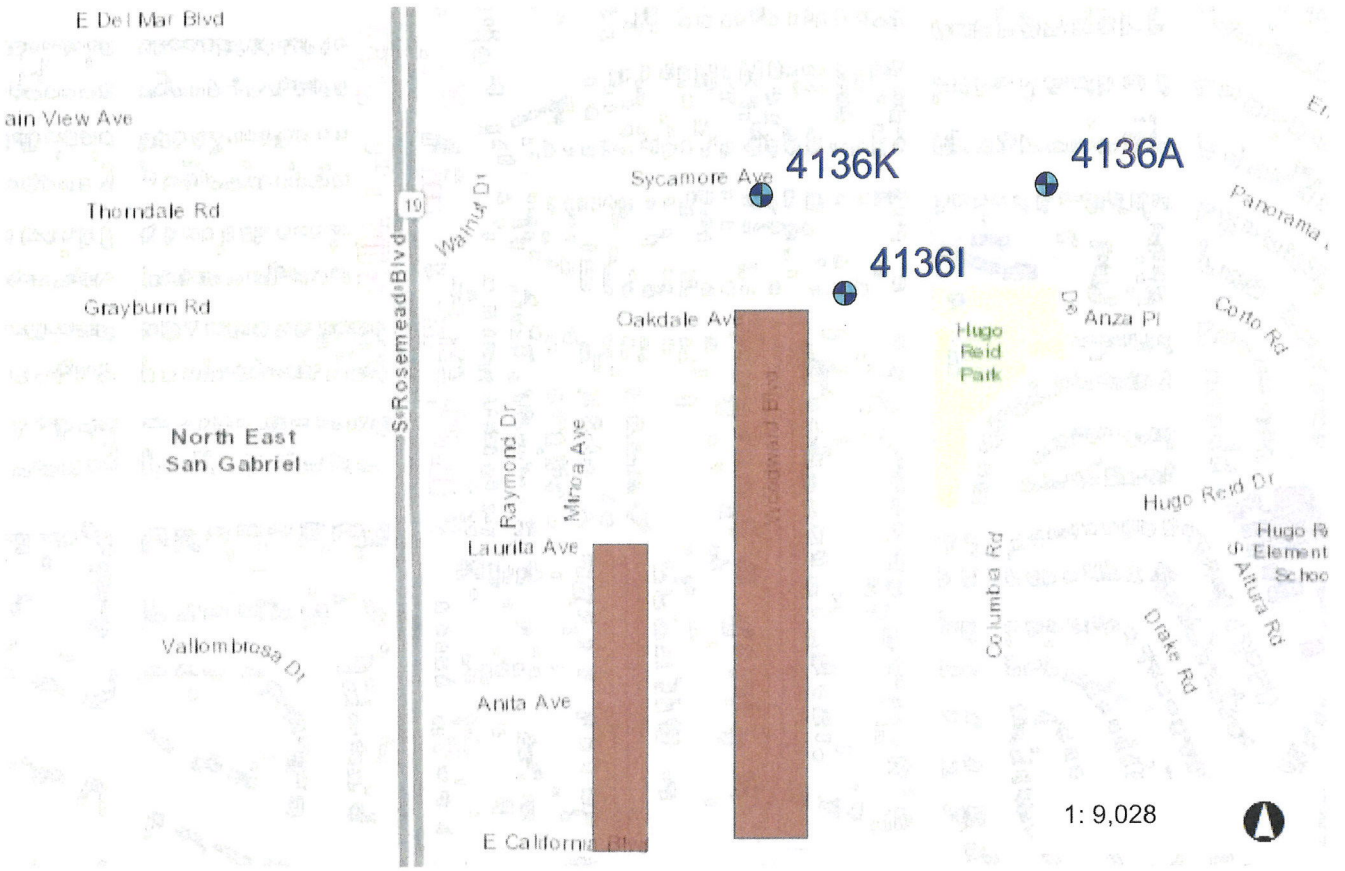
CROSS SECTION B - B'

Rio Hondo and Upper San Gabriel Feasibility Analysis

Location 5

Woodward Blvd., Pasadena, CA

Date: FEB 2018	Drafted by: VKM	Scale: as shown	FIGURE 1



This map is a user generated static output from an Internet mapping site and is for reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable.
THIS MAP IS NOT TO BE USED FOR NAVIGATION

WGS_1984_Web_Mercator_Auxiliary_Sphere
© Latitude Geographics Group Ltd.

Geocortex Essentials for ArcGIS Server

LEGEND

- Groundwater Monitoring Well LACDPW SWED Database
- Location 5

GEOLOGY AND SOILS

LOS ANGELES COUNTY DEPARTMENT OF PUBLIC WORKS

GEOTECHNICAL AND MATERIALS ENGINEERING DIVISION

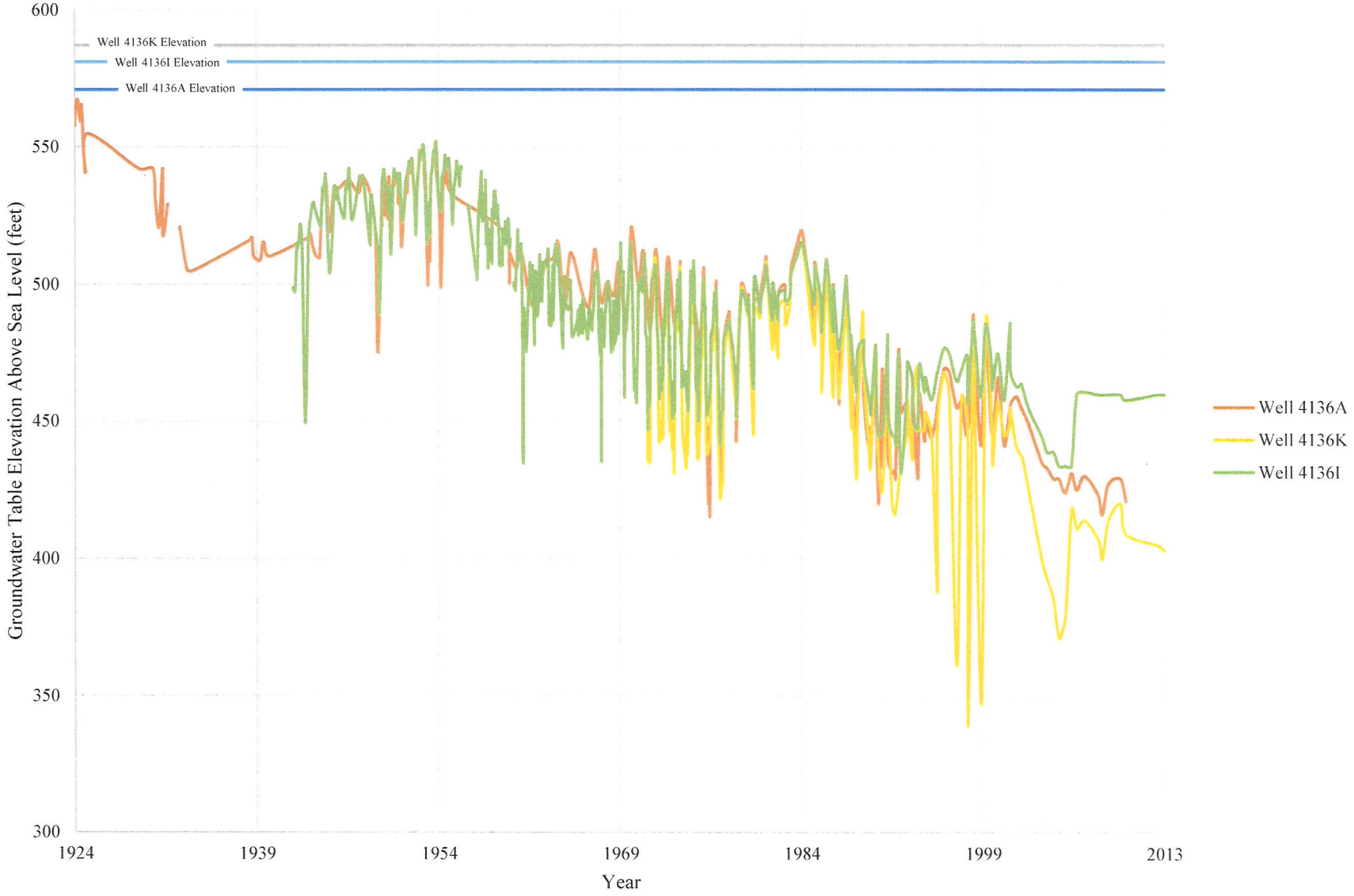
Groundwater Monitoring Well Locations

Location 5
Pasadena, CA

Date: May 2018	Drafted by: VM	Scale: As Shown	FIGURE 1

Rio Hondo Groundwater Elevation LACSW Monitoring Wells

Location 5



ATTACHMENT V

PRELIMINARY ENVIRONMENTAL SITE SCREENING RESULTS

December 19, 2017

TO: Hector J. Bordas
Design Division

Attention Josafat Flores

FROM: Greg Kelley Greg Kelley
Geotechnical and Materials Engineering Division

PRELIMINARY ENVIRONMENTAL SITE SCREENING
GREEN STREET INVESTIGATIONS RIO HONDO/SAN GABRIEL RIVERS
AREA 1 LOCATION 5, UNINCORPORATED CHAPMAN WOODS COMMUNITY
PROJECT ID DES0002991 (PROJECT NO. F21816I26G)

In response to your request dated June 20, 2017, and your September 25, 2017, e-mail clarification, a Preliminary Environmental Site Screening (PESS) was completed for the subject project. It is our understanding that the project scope is for the siting of various Low Impact Development (LID) features, including bioswales and drywells. Our PESS included a site reconnaissance, review of aerial photographs and topographic maps, and searches of publicly available regulatory databases.

Based on available information, the site conditions observed, and the proposed scope of work, the results of our screening did not identify environmental conditions affecting the subject project. At this time, no further assessment is warranted.

Note that our preliminary screening of the site conditions does not preclude that contamination may exist in subsurface soils at the site in areas that have not been identified as environmental concerns because: (1) contamination releases may not have been reported to the authorities, (2) contamination releases were not known to have occurred, or (3) data gaps exist in the referenced databases, historical photographs, or maps. There is also the possibility that site contamination may occur subsequent to our review. Additionally, if impacted soils are encountered during construction, the project contractor should implement proper health and safety measures and appropriate contaminated material handling and disposal procedures. This PESS is generally considered applicable for a period of 180 days from the date of this memorandum and is recommended to be updated thereafter as needed.

If you have any questions regarding this matter, please contact Phuong Schmit-Kallas or Gregory Sena at Extension 4923. To provide feedback on our services please access http://dpw.lacounty.gov/go/gmedsurvey to complete a Customer Service Survey.

PSK:GS:kw
p:\gmepub\secretarial\geoinv\pess\2017\hondo-gabriel area 1 location 5.docx

cc: Construction (Enriquez)
Design (Davis, Fung, Wu)

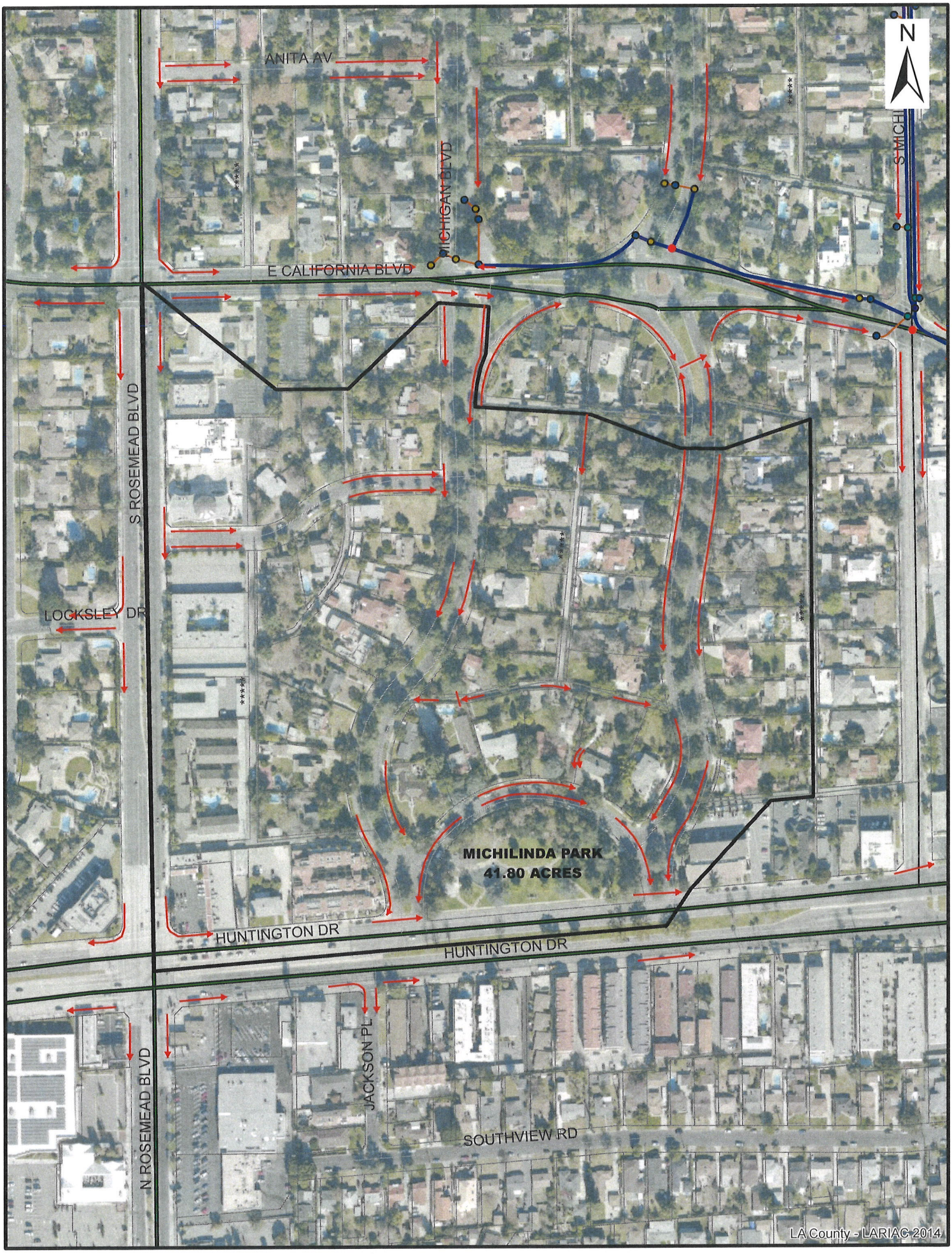

N
ANITA AV
MICHIGAN BLVD
S MICHI
E CALIFORNIA BLVD
S ROSEMEAD BLVD
LOCKSLEY DR
MICHILINDA PARK
41.80 ACRES
HUNTINGTON DR
HUNTINGTON DR
JACKSON PL
N ROSEMEAD BLVD
SOUTHVIEW RD
LA County - LARIAC 2014

EXHIBIT C

RIO HONDO/SAN GABRIEL RIVER WATERSHED QUALITY GROUP WMP RESPONSIBLE AGENCIES REPRESENTATIVES

City of Arcadia
11800 Goldring Rd.
Arcadia, CA 91066
Representative: Vanessa Hevener
E-mail: vhevener@ArcadiaCA.gov
Phone: (626) 254-2712

City of Bradbury
600 Winston Ave.
Bradbury, CA 91008
Representative: Kevin Kearney
E-mail: KKearney@cityofbradbury.org
Phone: (626) 358-3218

City of Duarte
1600 Huntington Drive
Duarte, CA 91010
Representative: Amanda Hamilton
E-mail: AHamilton@accessduarte.com
Phone: (626) 357-7931

City of Monrovia
600 S. Mountain Ave.
Monrovia, CA 91016
Representative: Alex Tachiki
E-mail: ATachikit@ci.monrovia.ca.us
Phone: (626) 932-5553

City of Sierra Madre
232 W. Sierra Madre Blvd
Sierra Madre, CA 91024
Representative: James Carlson
E-mail:
JCarlson@cityofsierramadre.com
Phone: (626) 355-7135 ext. 803

County of Los Angeles
Los Angeles County Public Works
Stormwater Quality Division, 11th Floor
900 South Fremont Avenue
Alhambra, CA 91803-1331
Representative: Mark Lombos
E-mail: mlombos@dpw.lacounty.gov
Phone: (626) 458-7143

Agenda Item: _____

CM Review: _____
Fiscal Review: _____

AGENDA REPORT

MEETING DATE:	May 12, 2020
TO:	Mayor and Members of the City Council
FROM:	Dr. Daniel Jordan, City Manager
BY:	Victoria Rocha, Management Analyst
SUBJECT:	Discuss and appoint City Council Covid-19 Coordinating Ad Hoc Committee
RECOMMENDATION:	Establish the Covid-19 Coordinating Ad Hoc Committee and appoint City Council members to serve
FISCAL IMPACT:	None

BACKGROUND

The City Council may choose to establish an ad hoc committee comprised of less than a quorum of the legislative body to provide Council support in addressing specific issues facing the City. An ad hoc committee will be dissolved once its specific task is completed.

At the April 28, 2020 Duarte City Council meeting, Councilmember Paras-Caracci requested that Mayor Kang consider establishing a Council Covid-19 Coordinating Ad Hoc Committee to inform City policy that promotes public health as well as responds to changes in Federal, State, and County mandates that impact City operations due to the Covid-19 pandemic.

DISCUSSION/ANALYSIS

Over the nearly two months that the Safer at Home Order has been in place, the Duarte City Council and City staff have worked closely with State and County officials to safeguard public health and monitor the economic impacts of Covid-19. Based on data from the Los Angeles County Department of Public Health, Duarte has 79 confirmed Covid-19 cases as of May 4, 2020, with three skilled nursing facilities reporting positive cases. Additionally, closure of nonessential businesses and stay-at-home directives have resulted in a severe economic slowdown nationwide, and this "pandemic-induced recession" is projected to impact the state and municipal revenues over at least the next year and possibly longer.

In an effort to mitigate further stalling of the economy, Governor Gavin Newsom announced on April 28, 2020, a Four-Stage framework for Californians to gradually reopen businesses and public spaces while continuing to preserve public health. Subsequently, Governor Newsom also announced greater discretion at the local level, allowing counties to continue with more restrictive measures based on local conditions or to move more quickly through "Stage 2" with the creation readiness plan that must be submitted to the State.

Based on further discussion among the City Council, the Covid-19 Coordinating Ad Hoc Committee would be empowered to make recommendations to the full City Council to guide the City's policy and actions with respect to Covid-19. Composed of two to three City Councilmembers, the Covid-19 Coordinating Ad Hoc Committee may consider recommendations in the following areas:

- Providing local businesses with assistance and information to enable them to re-open in a safe and timely manner;
- Directing staff on the timing and manner of re-opening City recreational facilities, re-starting City programs, and conducting City events;
- Working with Los Angeles County Public Health to continue monitoring and assisting the multiple nursing, assisted living, and continuing care retirement communities in Duarte; and
- Transmitting information regarding the impact of Covid-19 policies issued by the Federal, State, and County governments on the specific needs of Duarte businesses and residents.

In addition to the discussion of which City Councilmembers should serve on the Ad Hoc Committee, it is recommended that Council consider a future date to provide final recommendations and dissolve the committee with the understanding that the date could be extended if additional time is warranted.

RECOMMENDATION
Establish the Covid-19 Coordinating Ad Hoc Committee and appoint City Council members to serve.

FISCAL IMPACT
None

ATTACHMENTS
None

Duarte City Councilmember Meeting Attendance Report

Per Government Code Section 53232.3 (d): Members of a legislative body shall provide brief reports on meetings attended at the expense of the local agency at the next regular meeting of the legislative body.

City Council Agenda dated May 12, 2020

COUNCILMEMBER NAME	EVENT DESCRIPTION	DATE OF EVENT	PURPOSE/VALUE
Sam Kang	None reported as of May 6, 2020		
Bryan Urias	None reported as of May 6, 2020		
Tzeitel Paras-Caracci	None reported as of May 6, 2020		
John Fasana	None reported as of May 6, 2020		
Liz Reilly	None reported as of May 6, 2020		
Margaret Finlay	None reported as of May 6, 2020		
Toney Lewis	None reported as of May 6, 2020		

Meetings attended that did not require financial support from the City.

COUNCILMEMBER NAME	EVENT DESCRIPTION	DATE OF EVENT	PURPOSE/VALUE
Sam Kang	None reported as of May 6, 2020		
Bryan Urias	None reported as of May 6, 2020		
Tzeitel Paras-Caracci	None reported as of May 6, 2020		
John Fasana	None reported as of May 6, 2020		
Liz Reilly	Project Roomkey Briefing for Elected Officials LAHSA and the Faith Community's Response to COVID-19 (SPA3) Contract Cities Executive Board Meeting	5/4/20 5/6/20 5/6/20	
Margaret Finlay	None reported as of May 6, 2020		
Toney Lewis	None reported as of May 6, 2020		