



# Agenda

For Presentation at the  
2,194<sup>th</sup> Regular Meeting of the Board of Directors of the  
Middle Rio Grande Conservancy District

December 12, 2022 – 3:00 p.m.

Zoom Meeting Link:

<https://zoom.us/j/2765069278?pwd=V2d0SWppTkxGTTFMb0g5RFhmeERjZz09>

Meeting ID: 276 506 9278 and Passcode: 504470

One tap mobile: +16694449171,,2765069278#,,,504470# US

MRGCD General Office \* 1931 Second Street SW \* Albuquerque, New Mexico  
Meetings are held on second Mondays/month. Any questions please call the Board Liaison at (505) 247-0234.  
For more information, visit our website at [www.mrgcd.com](http://www.mrgcd.com)



*All items on Agenda are Subject to Action and times shown are approximate and are subject to change.*

- 3:00 1. **Pledge of Allegiance**
- 3:01 2. **Approval of the Agenda**
- 3:05 3. **Consent Agenda**
  - a. Consideration/Approval of Payment Ratification – December 12, 2022
  - b. Consideration/Approval of November 2022 Invoice for Wiggins, Williams & Wiggins
  - c. Consideration/Approval of November 2022 Invoice for Law and Resource Planning Assoc.
  - d. Consideration/Approval of the Minutes for the Regular Board Meeting – November 14, 2022
  - e. Memo on MRGCD Approved Licenses for November 2022 (For Informational Purposes Only)
- 3:07 4. **Items from the Floor (Comments are limited to six (6) minutes)**
- 3:30 5. **Rio Grande Water Fund Update from the Nature Conservancy** – Matthew Piccarello, Forest and Watershed Health Manager and Steve Bassett, Director of Planning & Spatial Analysis
- 3:40 6. **Report(s) from the Human Resources Department** – Christine L. Nardi, MBA
  - a. Introduction of MRGCD New Hires
  - b. Consideration/Approval of the 2023 Holiday Schedule
- 3:45 7. **Consideration/Approval of the 2023 Bid Awards – Richard DeLoia, CPO**
  - a. Machine Mowers for Albuquerque and Belen Divisions
  - b. Corrales Siphon Pumping Project – Alicia Lopez, Engineering & Mapping Manager
  - c. Low Flow Conveyance Channel River Mile 60 Gate Automation Project – Anne Marken, Water Operations Division Manager
- 3:55 8. **Update on the 2022 Irrigation Season**
  - a. Report on the Water Supply Conditions – Anne Marken, Water Ops Division Manager
  - b. Status Report on Water Distribution – Matt Martinez, Water Distribution Division Manager
- 4:05 9. **Report(s) from the Department of the Interior**
  - a. Bureau of Reclamation – Jennifer Faler, Area Manager
    - 1. El Vado Update
  - b. Bureau of Indian Affairs – Sandra Lucero, BIA/SWRO/Water Resources
- 4:50 10. **Discussion/Approval of 1-Year Extension of the Current Bureau of Indian Affairs O&M Agreement** – Jason M. Casuga, CE/CEO

- 5:00 11. **Report(s) from the Secretary-Treasurer/CFO – Pamela Fanelli, CMA, CGFM**
- a. Report of the Exit Interview for Fiscal Year 2022 Audit with Ricci & Company, December 12, 2022 – Pam Fanelli, CFO
- 5:10 12. **Report(s) from the Chief Engineer/CEO – Jason M. Casuga, PE**
- a. Consideration/Approval of the Isleta Drain Trail Plan – Robert Oberdorfer, Sites Southwest and Yasmeen Najmi, Planner
  - b. Consideration/Approval of Resolution M-12-12-22-197 for Participation in Capital Outlay Program Administered by NM Department of Transportation – Jason M. Casuga, CE/CEO
  - c. Update on the Meeting with the Secretary of State regarding the LEA Implementation for the 2023 Election, December 5, 2022 – Jason M. Casuga, CE/CEO, Director Barbara Baca, Director Joaquin Baca and John Thompson, MRGCD Lobbyist
  - d. Report on the Water Leadership Workshop, November 30 – December 1, 2022 – Jason M. Casuga, CE/CEO
  - e. Report on the December Levee Task Force Meeting, December 7, 2022 – Jason M. Casuga, CE/CEO
  - f. Upcoming Events
    1. Middle Rio Grande Flood Control Association Annual Breakfast, Albuquerque Country Club | December 13, 2022
    2. Family Farm Alliance Annual Conference, Reno, NV | February 23-24, 2023
    3. Land & Water Summit, Indian Pueblo Cultural Center | March 2-3, 2023'
- 6:10 13. **Report(s) from the MRGCD Attorney(s) – Chief Water Counsel or General Counsel**
- 6:15 14. **Report(s) from the Board**
- a. Report on the CEO Review Process Scoping Meeting, November 15, 2022 – Chair Russo Baca
  - b. Report on the Valencia County Commission Meeting, November 16, 2022 – Chair Russo Baca
  - c. Report on the Conservation Advisory Committee, November 17, 2022 – Chair Russo Baca
  - d. Report on the 350NM Speaker Series on Water, "New Mexico's Water Future", November 29, 2022 – Chair Russo Baca
  - e. Report on the NM Water Leaders Workshop, Elephant Butte Delta Channel Project, November 30 and December 2, 2022 – Chair Russo Baca
  - f. Report on the Finance Committee Meeting, November 30, 2022 – Director Kelly, Vice Chair Dunning and Director Barbara Baca
  - g. Report on the Middle Rio Grande Water Advocates: NM Water Recommendations, December 8, 2022 – Chair Russo Baca
  - h. Report on the 2022 Congreso De Las Acequias, December 9-10, 2022 – Chair Russo Baca and Director Barbara Baca
  - i. Report on the Personnel Committee Meeting, December 12, 2022 – Vice Chair Dunning, Directors Kelly, Barbara Baca and Chair Russo Baca

THE PUBLISHING OF THIS AGENDA DOES NOT PRECLUDE THE CONSIDERATION OF OTHER MATTERS.

*If you are an individual with a disability who is in need of a reader, amplifier, qualified sign language interpreter, or any other form of auxiliary aid or service to attend or participate in the hearing or meeting, please contact the Board Liaison at (505) 247-0234 at least one (1) week prior to the meeting or as soon as possible. Public documents, including the agenda and minutes can be provided in various formats.*



**MIDDLE RIO GRANDE CONSERVANCY DISTRICT**  
**DECEMBER 12, 2022**  
**Checks for the Period November 1, 2022 through November 30, 2022**

Check Number	Vendor Name	Check Amount	Description	Location
EFT	NEW MEXICO TAXATION & REVENUE DEPARTMENT	19,750.31	OCTOBER 2022 WITHHOLDING TAX	
EFT	PAYROLL 22	292,375.12	PAY PERIOD 22	
EFT	PUBLIC EMPLOYEES RETIREMENT	95,872.41	PAY PERIOD 22	
EFT	IRS	39,958.62	PAY PERIOD 22	
EFT	VOYA DEFERRED COMP	6,351.00	PAY PERIOD 22	
EFT	PAYROLL 23	294,032.43	PAY PERIOD 23	
EFT	PUBLIC EMPLOYEES RETIREMENT	96,066.29	PAY PERIOD 23	
EFT	IRS	40,005.68	PAY PERIOD 23	
EFT	VOYA DEFERRED COMP	6,151.00	PAY PERIOD 23	
<b>TOTAL PAYROLL</b>		<b>890,562.86</b>		
<b>145168</b>	4 RIVERS EQUIPMENT	72.82	BELT UNIT 47022	ALBUQUERQUE DIVISION
		316.44	WINDOWPANE UNIT 37108	COCHITI DIVISION
<b>145169</b>	ALBUQUERQUE PUB	57.67	LEGAL AD- REQUEST FOR BID- MACHINE MOWERS	PURCHASING
<b>145170</b>	AMAZON CAPITAL	8.99	I.T. CABLE	INFORMATION SYS
		26.99	DRIVEWAY ALARM - SOCORRO DIVISION	SOCORRO DIVISION
<b>145171</b>	BATTERY SYSTEMS INC	1,182.91	BATTERY ORDER- REPLENISH INVENTORY	INVENTORY
<b>145172</b>	BERNALILLO COUNTY CL	225.00	RELEASE OF LIENS	ACCOUNTING
<b>145173</b>	CONSERVANCY OIL CO	2,116.40	DEF ORDER- REPLENISH INVENTORY	INVENTORY
<b>145174</b>	CONSTRUCTION RENTAL	989.99	BRUSHCUTTER-REPLACING UNIT 6627.56	ALBUQUERQUE DIVISION
		763.87	STIHL ORDER- REPLENISH INVENTORY	INVENTORY
<b>145175</b>	CRAIG INDEPENDENT	78.28	FLAT REPAIR UNIT 57309	BELEN DIVISION
		88.58	TIRE REPAIR UNIT 57306	
		16.48	TIRE REPAIR UNIT 80035	WATER DISTRIBUTION DIV
<b>145176</b>	D.R.B. ELECTRIC, INC	4,037.50	CHOCHITI OFFICE LIGHTING UPDATE	COCHITI DIVISION
<b>145177</b>	DESERT GREENS EQUIPM	233.32	WINDOWPANE & WEATHER STRIP UNIT 67004	SOCORRO DIVISION
<b>145178</b>	FEDEX	15.49	SHIPPING FOR RTU TO CONTRAIL	WATER OPS & CONS
<b>145179</b>	HIGH DESERT INDUSTRI	122.81	OXYGEN AND ACEYTELEN REFILL	BELEN DIVISION
<b>145180</b>	JOSE M. AGUILAR J.A	350.08	TIRE REPAIR UNIT 57023	BELEN DIVISION
		365.08	TIRE REPAIR UNIT 57024	
<b>145181</b>	KRONOS SAASHR, INC.	1,180.20	SEPT22- UKG KRONOS READY SOFTWARE	INFORMATION SYS
<b>145182</b>	LINDE GAS	126.68	SWITCH UNIT 8920.35	EQUIPMENT REPAIR & TRANS
<b>145183</b>	MARQUEZ, BELLINA C	641.89	NOV22- RETIREE	HUMAN RESOURCES
<b>145184</b>	MCT INDUSTRIES, INC.	125.37	MESH TARP UNIT 44416	ALBUQUERQUE DIVISION
<b>145185</b>	MRGCD PETTY CASH	21.04	REPLENISH PETTY CASH OCT22	ALBUQUERQUE DIVISION
<b>145186</b>	NAPA AUTO PARTS	1,156.56	AUTOMOTIVE ORDER- REPLENISH INVENTORY	INVENTORY
<b>145187</b>	NEW MEXICO GAS CO	188.93	052707401-0553979-2 OCT22	BELEN DIVISION
<b>145188</b>	NEW MEXICO TRACTOR S	15.96	VALVE UNIT 67017	SOCORRO DIVISION
<b>145189</b>	PARTS AUTHORITY	275.93	FILTER ORDER- REPLENISH INVENTORY	INVENTORY
<b>145190</b>	POWER FORD	778.52	MISC. FORD TIMING COMPONENTS UNIT 43448	WATER DISTRIBUTION DIV
<b>145191</b>	PRUDENTIAL OVERALL S	23.58	FY23- UNIFORM RENTAL	BELEN DIVISION
		19.72	FY23-UNIFORM RENTAL	EQUIPMENT REPAIR & TRANS
		6.94	FY23-UNIFORM RENTAL	SOCORRO DIVISION
<b>145192</b>	PURCELL TIRE COMPANY	16.05	MOUNT/DISMOUNT TIRE UNIT 44010	ALBUQUERQUE DIVISION
		445.00	TIRE REPAIR UNIT 47018	
		546.26	TIRE UNIT 44602	
		322.31	TIRE REPAIR UNIT 57024	BELEN DIVISION
		318.33	TIRE REPAIR UNIT 37012	COCHITI DIVISION
		415.73	TIRES & WHEEL UNIT 64110	SOCORRO DIVISION

Check Number	Vendor Name	Check Amount	Description	Location
145193	ROMERO'S TIRE SERVIC	48.55	TIRE REPAIR UNIT 67017	SOCORRO DIVISION
145194	SOCORRO COUNTY CLERK	25.00	RELEASE OF LIEN	ACCOUNTING
145195	SORBCO	47.00	BOLTS UNIT 57025	BELEN DIVISION
145196	SOUTHERN TIRE MART	26.94	TIRE REPAIR UNIT 44010	ALBUQUERQUE DIVISION
		510.38	TIRES UNIT 44012	
145197	UNIFORMS & MORE	66.00	LADIES POLO SHIRTS	ACCOUNTING
145198	VALENCIA COUNTY CLER	325.00	RELEASE OF LIENS	ACCOUNTING
145199	4 RIVERS EQUIPMENT	168.46	REAR VIEW MIRROR UNIT 57503	BELEN DIVISION
		1,994.20	SHIFTER UNIT 57503	
145200	ABCWUA	459.81	3062929560 OCT22	ALBUQUERQUE DIVISION
		489.62	4158566487 HYDRANT OCT22	
		136.65	5596579560 1932 2ND OCT22	EQUIPMENT REPAIR & TRANS
		703.65	1931 2ND SW 4382929560 OCT22	NON DIVISION
145201	ALBUQUERQUE GRAVEL P	183.00	FY 2023 CONCRETE/SHOTCRETE - ALBUQUERQUE	ALBUQUERQUE DIVISION
145202	ANSWER NEW MEXICO	196.95	123-5267-721 OCT22	BELEN DIVISION
		455.03	123-5266-061 OCT22	NON DIVISION
145203	BANK OF AMERICA	159.83	COURTYARD BY MARRIOT AT NM WATER CONF- J CASUGA	EXEC TEAM
		23.39	JASON PER DIEM 67TH NM WATER CONFERENCE LAS CRUCES	
		159.83	COURTYARD BY MARRIOT AT NM WATER CONF- J ISH	PLANNING
145204	BEMP	3,750.00	MOA- QUARTER 1 FY23	NON DIVISION
145205	BOOT BARN	150.00	FY23- MARTINEZ SEVERO- BOOT VOUCHER	ALBUQUERQUE DIVISION
		150.00	FY23- SCHORR DANIEL- BOOT VOUCHER	BELEN DIVISION
145206	BRUCKNER TRUCK SALES	156.13	ABS SENSOR UNIT 44415	ALBUQUERQUE DIVISION
145207	CENTURY LINK	233.72	505-864-7466 429B OCT22	BELEN DIVISION
145208	CITY OF BELEN	309.34	25 GENERAL E BACA OCT22	BELEN DIVISION
145209	ESPINOSA, LAWRENCE	139.54	NOV22- RETIREE	HUMAN RESOURCES
145210	EXCEL STAFFING COMPA	679.44	TEMP STAFFING	ACCOUNTING
145211	GEOTEL CORPORATION	257.88	OCT22 - ANNUAL PRESS CLIPPING SERVICE	NON DIVISION
145212	HUNTER BOWER LUMBER	316.32	REDI MIX ORDER- REPLENISH INVENTORY	INVENTORY
145213	ISH, JAMES CASEY	36.98	PER DIEM FOR 67TH NM WATER CONFERENCE LAS CRUCES	PLANNING
145214	MARTINEZ, DANIEL	1,146.50	NOV22- RETIREE	HUMAN RESOURCES
145215	MIDDLE RIO GRANDE FL	275.00	ANNUAL BREAKFAST MEETING	NON DIVISION
145216	NEW MEXICO GAS CO	41.83	079084112-0814966-2 OCT22	COCHITI DIVISION
		23.70	079084212-0814967-9 OCT22	
		64.75	081518001-0839304-7 OCT22	
145217	OCCUPATIONAL HEALTH	117.45	POST ACCIDENT, PRE EMPLOYMENT & DOT RECERT	ALBUQUERQUE DIVISION
		205.80	POST ACCIDENT, PRE EMPLOYMENT & DOT RECERT	COCHITI DIVISION
		95.90	POST ACCIDENT, PRE EMPLOYMENT & DOT RECERT	EQUIPMENT REPAIR & TRANS
145218	PARTS AUTHORITY	88.44	FILTER ORDER- REPLENISH INVENTORY	INVENTORY
145219	PNM	17.01	0 PL L0010 ALGODONES OUTLET	ALBUQUERQUE DIVISION
		17.87	13 NM HWY 313 - ALGODONES (DAM PROPERTY)	
		403.68	CALLE JON - VALDEZ DITCH	
145220	QUEST DIAGNOSTICS	37.10	POST ACCIDENT, PRE EMPLOYMENT & DOT RANDOM	ACCOUNTING
		55.60	POST ACCIDENT & DOT RANDOM	ALBUQUERQUE DIVISION
		151.50	POST ACCIDENT, PRE EMPLOYMENT & DOT RANDOM	
		111.20	POST ACCIDENT & DOT RANDOM	BELEN DIVISION
		40.20	POST ACCIDENT, PRE EMPLOYMENT & DOT RANDOM	COCHITI DIVISION
		117.50	POST ACCIDENT, PRE EMPLOYMENT & DOT RANDOM	ENGINEERING & MAPPING
		40.20	POST ACCIDENT, PRE EMPLOYMENT & DOT RANDOM	EQUIPMENT REPAIR & TRANS
		259.50	POST ACCIDENT & DOT RANDOM	SOCORRO DIVISION

Check Number	Vendor Name	Check Amount	Description	Location
		77.30	POST ACCIDENT, PRE EMPLOYMENT & DOT RANDOM	
		80.40	POST ACCIDENT, PRE EMPLOYMENT & DOT RANDOM	WATER DISTRIBUTION DIV
145221	RED SHOVEL LLC	523.17	NOV22- GENERAL OFFICE MONTHLY GROUNDS MAINTENANCE	NON DIVISION
145222	ROBERTS TRUCK CENTER	1,532.15	CLUTCH, BRAKE, & BEARING UNIT 44422	ALBUQUERQUE DIVISION
145223	ROMERO, ALFRED	455.17	OCT22- RETIREE	HUMAN RESOURCES
		455.17	SEPT22- RETIREE	
145224	SAFETY COUNSELING	969.75	WOMENS SELF DEFENSE CLASS	SAFETY DEPARTMENT
145225	STAPLES ADVANTAGE	56.80	GENERAL OFFICE SUPPLIES	ALBUQUERQUE DIVISION
		17.80	GENERAL OFFICE SUPPLIES	EQUIPMENT REPAIR & TRANS
		29.97	GENERAL OFFICE SUPPLIES	INFORMATION SYS
		27.16	GENERAL OFFICE SUPPLIES	NON DIVISION
145226	THE PRINTERS PRESS	317.00	WORK ORDER FORMS	NON DIVISION
145227	VALENCIA COUNTY	24,028.32	OCT22 FUEL COSTS	BELEN DIVISION
		1,201.42	OCT22 FUEL COSTS ADMIN FEE	NON DIVISION
145228	WEX BANK	432.29	0496002760635 WEX FUEL OCT22	ALBUQUERQUE DIVISION
		3,401.57	0496002760635 WEX FUEL OCT22	BELEN DIVISION
		7,369.97	0496002760635 WEX FUEL OCT22	COCHITI DIVISION
		3,027.32	0496002760635 WEX FUEL OCT22	EQUIPMENT REPAIR & TRANS
		523.72	0496002760635 WEX FUEL OCT22	EXEC TEAM
		4.99	0496002760635 WEX FUEL OCT22	GENERAL NON DIVISION
		182.21	0496002760635 WEX FUEL OCT22	LICENSING & LAND SALES
		21.50	0496002760635 WEX FUEL OCT22	NON DIVISION
		147.08	0496002760635 WEX FUEL OCT22	PLANNING
		13,326.13	0496002760635 WEX FUEL OCT22	SOCORRO DIVISION
		8,813.75	0496002760635 WEX FUEL OCT22	WATER DISTRIBUTION DIV
		887.28	0496002760635 WEX FUEL OCT22	WATER OPS & CONS
145229	WIPER SUPPLY INC	472.97	CLEANING SUPPLY ORDER- REPLENISH INVENTORY	INVENTORY
145230	4 RIVERS EQUIPMENT	1,910.42	3' & 4' CARBIDE CUTTING EDGE UNIT 57503	BELEN DIVISION
		764.69	CHECK & ADVISE/SERVICE CALL UNIT 57503	
145231	ACTION HOSE INC.	65.45	HOSE & CABLE TIES UNIT 47023	ALBUQUERQUE DIVISION
		78.10	HYDRAULIC HOSE ASSEMBLY UNIT 47019	
		51.54	INDUSTRIAL HOSE ASSEMBLY UNIT 44415	
145232	ADVANCE AUTO PARTS	75.52	SPARK PLUGS UNIT 43448	WATER DISTRIBUTION DIV
145233	BANK OF AMERICA	38.87	NOV22 - INTERMEDIA	INFORMATION SYS
		2.24	OCT22- ZENDESK MONTHLY TALK CHARGE	
145234	CHILD SUPPORT ENFORC	927.27	Payroll Run 1 - Warrant PP2222	GENERAL NON DIVISION
145235	CLARK TRUCK	89.20	GAS SPRING UNIT 44011	ALBUQUERQUE DIVISION
145236	CONSERVANCY OIL CO	4,501.20	OIL ORDER- REPLENISH INVENTORY	INVENTORY
145237	CONTINENTAL BATTERY	226.44	BATTERIES UNIT 54419	ALBUQUERQUE DIVISION
145238	FLEETPRIDE	13.79	PLUG UNIT 44109	ALBUQUERQUE DIVISION
		60.84	RESURFACE FLYWHEEL & LIGHTS UNIT 44422	
		49.13	SEAL UNIT 44415	
		33.79	FILTER UNIT 34603	COCHITI DIVISION
		(157.08)	CREDIT FILTER- INV 102370688 PO 23001867	INVENTORY
		63.66	FILTER ORDER- REPLENISH INVENTORY	
145239	GENUINE NAPA	21.46	BELTS UNIT 448.040	BELEN DIVISION
		175.39	TOOL ORGANIZERS FOR MECHANIC TRUCK 53809	
145240	GREENWOOD, JEFFREY C	1,036.47	NOV22- RETIREE	HUMAN RESOURCES

Check Number	Vendor Name	Check Amount	Description	Location
145241	GARNISHMENT	225.00	Payroll Run 1 - Warrant PP2222	GENERAL NON DIVISION
145242	HEIGHTS SECURITY	15.62	DUPLICATE KEY FOR ER&T	EQUIPMENT REPAIR & TRANS
145243	JPR DECORATIVE	1,370.10	4" - 8" ROCK FOR ALBUQUERQUE DIVISION	ALBUQUERQUE DIVISION
145244	MAINTENANCE SERVICE	397.49	NOV22 - ABQ DIVISION JANITORIAL CLEANING	ALBUQUERQUE DIVISION
		1,954.36	NOV22-GENERAL OFFICE JANITORIAL CLEANING	NON DIVISION
145245	O'REILLY AUTO PARTS	13.05	MISC. PARTS UNIT 53423	ALBUQUERQUE DIVISION
		134.99	REAR ROTORS & BRAKE PADS UNIT 53462	
		54.43	TAIL LIGHT CONNECTOR UNIT 44415	
145246	POWER FORD	71.26	TIMING CHAINS UNIT 43448	WATER DISTRIBUTION DIV
145247	PURCELL TIRE COMPANY	40.16	TIRE REPAIR UNIT 44420	ALBUQUERQUE DIVISION
145248	RELEVANT INDUSTRIAL	116.07	HOSE UNIT 47018	ALBUQUERQUE DIVISION
145249	SOUTHERN TIRE MART	203.40	TIRE REPAIR UNIT 80033	WATER DISTRIBUTION DIV
145250	STATE OF NEW MEXICO	258.21	Payroll Run 1 - Warrant PP2222	GENERAL NON DIVISION
145251	T & T TRAILER SERVIC	34.99	MISC PARTS UNIT 53809	BELEN DIVISION
		739.00	MISC PARTS UNIT 54110 & 54205	
		34.99	MISC PARTS UNIT 54205	
145252	TRANSCRIPTION	820.50	OCT22 -REGULAR BOARD MEETING MINUTES	BOARD OF DIRECTORS
145253	UNUM LIFE INSURANCE	3,943.96	OCT22- LIFE, AD&D, STD, & LTD EMPLOYEE PD	GENERAL NON DIVISION
145254	AMAZON CAPITAL	649.90	HYDROLOGY & IT SUPPLIES	INFORMATION SYS
		12.69	USB CABLE SUPER SPEED	
		116.98	HYDROLOGY & IT SUPPLIES	WATER OPS & CONS
145255	BANK OF AMERICA	379.98	IT SUPPLIES	BELEN DIVISION
		379.98	IT SUPPLIES	COCHITI DIVISION
		699.99	IT SUPPLIES	INFORMATION SYS
		71.56	IT SUPPLIES	NON DIVISION
		379.98	IT SUPPLIES	SOCORRO DIVISION
145256	BERNALILLO COUNTY CL	125.00	RELEASE OF LIENS	ACCOUNTING
145257	BETTER GLASS	350.00	LEFT HAND DOOR GLASS INSTALL UNIT 37011	COCHITI DIVISION
		275.00	RIGHT HAND DOOR GLASS INSTALL UNIT 37108	
		325.00	WINDOW INSTALLATION UNIT 37205	
145258	BJW VENTURES, LLC	265.00	WINDOW TINT UNIT 43449 & SEAT COVER UNIT 44012	ALBUQUERQUE DIVISION
		200.00	WINDOW TINT UNIT 43449 & SEAT COVER UNIT 44012	EQUIPMENT REPAIR & TRANS
145259	BOOT BARN	131.74	FY23- CHAVEZ CYERRAH- BOOT VOUCHER	ALBUQUERQUE DIVISION
		150.00	FY23- CHILMIDOS JARED- BOOT VOUCHER	EQUIPMENT REPAIR & TRANS
145260	CITY OF ALBUQUERQUE	43,197.79	COA004001471 OCT22	ALBUQUERQUE DIVISION
		815.52	COA004001471 OCT22	EQUIPMENT REPAIR & TRANS
		125.00	ADMIN FEE OCT22	NON DIVISION
		222.25	COA004001471 OCT22	SAFETY DEPARTMENT
		1,938.85	COA004001471 OCT22	WATER DISTRIBUTION DIV
145261	CITY OF SOCORRO	326.59	04-009470-001 OCT22	SOCORRO DIVISION
145262	FINANCE AUTHORITY	35,898.39	PPRF-4727 OCT22 EQP. PURCHASE	GENERAL NON DIVISION
		26,611.07	PPRF-5636 OCT22 EQUIPMENT	
145263	JIVE COMMUNICATIONS,	2,044.85	CN-384945-2004 NOV22	NON DIVISION
145264	LINDE GAS	207.51	MIG WIRE & ARGON BOTTLE REFILL	ALBUQUERQUE DIVISION
		1,902.15	NEW LEADS FOR ALBUQUERQUE WELDER	
145265	NAJMI, YASMEEN	75.00	REIMBURSEMENT FOR NM WILDLAND URBAN FIRE SUMMIT	NON DIVISION
145266	NAPA AUTO PARTS	518.81	MISC. PARTS UNIT 44012	ALBUQUERQUE DIVISION
		25.85	MISC. PARTS UNIT 44416	
		3.28	MISC. PARTS UNIT 47022	
		43.08	MISC. PARTS UNIT 73432 & 43446	

Check Number	Vendor Name	Check Amount	Description	Location
		42.81	WHEEL SEAL & SOCKET UNIT 44415	
		20.39	CIRCUIT TESTER- ER&T	EQUIPMENT REPAIR & TRANS
		19.08	MISC. PARTS UNIT 73432	
		197.55	MISC. PARTS UNIT 73432 & 43446	
		37.30	WHEEL SEAL & SOCKET UNIT 44415	
		38.78	MISC SUPPLIES UNIT 68614	SOCORRO DIVISION
		58.07	MISC. PARTS UNIT 43448	WATER DISTRIBUTION DIV
145267	PENA BLANCA SANIT	74.49	SYSTEM# 38 OCT22	COCHITI DIVISION
145268	PNM	1,057.54	25 GENERAL E BACA RD - BELEN DIVISION OFFICE	BELEN DIVISION
145269	PREVENTIVE PEST	112.06	GENERAL PEST CONTROL FOR ER&T	EQUIPMENT REPAIR & TRANS
145270	PRUDENTIAL OVERALL S	23.58	FY23- UNIFORM RENTAL	BELEN DIVISION
		39.86	FY23-UNIFORM RENTAL	EQUIPMENT REPAIR & TRANS
		6.94	FY23-UNIFORM RENTAL	SOCORRO DIVISION
145271	ROBERTS TRUCK CENTER	367.69	TRANSMISSION FLUID UNIT 44422	ALBUQUERQUE DIVISION
145272	SANDOVAL COUNTY CLER	50.00	RELEASE OF LIEN	ACCOUNTING
145273	SANDOVAL COUNTY LAND	759.78	LANDFILL OCT22	ALBUQUERQUE DIVISION
145274	SOCORRO COUNTY CLERK	50.00	RELEASE OF LIEN	ACCOUNTING
145275	SOCORRO ELECTRIC	679.44	10268007 OCT22	SOCORRO DIVISION
		655.90	10268012 OCT22	
145276	SOUTHWEST LANDFILL	3,892.93	LANDFILL- OCT22	ALBUQUERQUE DIVISION
145277	THE PRINTERS PRESS	109.00	ENVELOPES	NON DIVISION
145278	VALENCIA COUNTY CLER	175.00	RELEASE OF LIEN	ACCOUNTING
145279	A-1 QUALITY REDI-MIX	466.50	CONCRETE/ SHOTCRETE - SOCORRO	SOCORRO DIVISION
145280	ALBUQUERQUE SUPPLY	214.92	DUCT TAPE ORDER- REPLENISH INVENTORY	INVENTORY
145281	BENAVIDEZ, CAROL	464.26	NOV22- RETIREE	HUMAN RESOURCES
145282	BLAND, MICHAEL A.	141.76	NOV22- RETIREE	HUMAN RESOURCES
145283	BOOT BARN	150.00	FY23- CASTILLO ANTHONY- BOOT VOUCHER	ALBUQUERQUE DIVISION
		150.00	FY23- CHILIMIDOS JARED- BOOT VOUCHER	
		131.74	FY23- SILVA DAVID- BOOT VOUCHER	BELEN DIVISION
		123.24	FY23- MARTINEZ MATT- BOOT VOUCHER	WATER DISTRIBUTION DIV
		110.49	FY23- PARNELL ROBERT- BOOT VOUCHER	
145284	CENTURY EQUIPMENT	122.28	GREASE LINES UNIT 47024	ALBUQUERQUE DIVISION
145285	CITY OF ALBUQUERQUE	172,415.95	OCT22 - PRESBYTERIAN COA001401362	GENERAL NON DIVISION
145286	DEMAND SAFETY	1,250.10	SAFETY SUPPLY ORDER- REPLENISH INVENTORY	INVENTORY
145287	DESERT GREENS EQUIPM	132.85	ARMREST UNIT 47018	ALBUQUERQUE DIVISION
		1,005.52	WINDSHIELD & WEATHERSTRIP UNIT 47024	
145288	GENSLER, DAVID	1,498.22	NOV22- RETIREE	HUMAN RESOURCES
145289	GOMEZ, RAY	2,269.60	NOV22- RETIREE	HUMAN RESOURCES
145290	HUNTER BOWER LUMBER	583.50	HARDWARE ORDER- REPLENISH INVENTORY	INVENTORY
145291	IMSCO DIVISION	578.70	LL TRAFFIC GATE GRATE LOCKS AND CHAIN	GRANTS
145292	IRSC	520.00	RADIATOR UNIT 44420	ALBUQUERQUE DIVISION
145293	LESEBERG'S	8.23	OIL CHANGE UNIT#80025	SOCORRO DIVISION
		107.12	OIL CHANGE UNIT#80025	WATER DISTRIBUTION DIV
145294	MARQUEZ, DENNIS M	1,291.27	NOV22- RETIREE	HUMAN RESOURCES
145295	MESA OIL, INC	125.00	WASTE FOR USED OIL AND FILTERS-BELEN	BELEN DIVISION
145296	NAPA AUTO PARTS	105.95	MISC. PARTS UNIT 53462	ALBUQUERQUE DIVISION
		15.96	ADAPTER FOR ER&T	EQUIPMENT REPAIR & TRANS
		192.70	GREASE GUN ORDER- REPLENISH INVENTORY	INVENTORY
145297	NEW MEXICO BUREAU OF	35.00	REGISTRATION NM WATER LEADERS WORKSHOP	PLANNING
		35.00	REGISTRATION NM WATER LEADERS WORKSHOP	WATER OPS & CONS

Check Number	Vendor Name	Check Amount	Description	Location
145298	NEW MEXICO MUTUAL	19,916.07	ACCT# 212978753- INSTALLMENT & DEDUCTIBLE	NON DIVISION
145299	PACE	6,330.73	BOARD ROOM AUDIO UPGRADES	INFORMATION SYS
145300	PARTS AUTHORITY	172.20	AUTOMOTIVE ORDER- REPLENISH INVENTORY	INVENTORY
145301	PURCELL TIRE COMPANY	37.45	TIRE REPAIR UNIT 54419	ALBUQUERQUE DIVISION
		1,305.03	TIRES UNIT 54205	BELEN DIVISION
145302	SAN ACACIA MDWCA	14.70	OCT22 WATER SAN ACACIA	SOCORRO DIVISION
145303	SOUTHERN TIRE MART	53.88	TIRE REPAIR UNIT 80004	WATER OPS & CONS
145304	SOUTHWEST CONSTRUCTI	365.24	CUTTING EDGE & HARDWARE UNIT 57306	BELEN DIVISION
145305	SOUTHWEST GENERAL TI	397.30	TIRE TUBE ORDER- REPLENISH INVENTORY	INVENTORY
145306	STAPLES ADVANTAGE	523.79	GENERAL OFFICE 2023 CALENDARS & SUPPLIES	NON DIVISION
		56.87	PAPER FOR MAPPINGS PLOTTER	
145307	TABET LUMBER	24.40	CONSTRUCTION SUPPLIES	BELEN DIVISION
145308	TRIADIC ENTERPRISES	994.75	OCT22- MONTHLY SERVICE	INFORMATION SYS
145309	UNICOR	116.58	11/2/22 - SHRED BINS PICKUP	ACCOUNTING
145310	VAISA, MORRIS	943.70	NOV22- RETIREE	HUMAN RESOURCES
145311	WASTE MANAGEMENT	174.87	NOV22 - MONTHLY SERVICE- COCHITI	COCHITI DIVISION
145312	WIPER SUPPLY INC	1,861.55	TOWEL ORDER- REPLENISH INVENTORY	INVENTORY
145313	ACTION HOSE INC.	285.92	HOSE, NIPPLE, CAM, STRAINER, UNIT 44602	ALBUQUERQUE DIVISION
		93.88	HYDRAULIC HOSE ASSEMBLY UNIT 47024	
		41.69	HOSE & COUPLER UNIT 54204	EQUIPMENT REPAIR & TRANS
145314	ALBUQUERQUE PUB	83.18	LEGAL AD FOR RFB FOR IRRIGATION PUMPS	PURCHASING
145315	AUI INC	44,256.33	OCT22- CORRALES SIPHON PUMPING PROJECT	ALBUQUERQUE DIVISION
		45,930.93	SEPT22 - CORRALES SIPHON PUMPING PROJECT	
145316	AUTOMATED ELECTION	3,371.04	2022 WSC NOTICE MAILING	ACCOUNTING
145317	AVALONE, SARAH	315.89	NOV22- RETIREE	HUMAN RESOURCES
145318	BARKEMEYER, CAMAS	141.00	RODENT MANAGEMENT- SOCORRO RIVERSIDE DRAIN	SOCORRO DIVISION
145319	BARNHILL BOLT CO	94.76	BOLTS, NUTS, & WASHERS UNIT 47022	ALBUQUERQUE DIVISION
145320	BJW VENTURES, LLC	75.00	DASH MAT UNIT 13420	EQUIPMENT REPAIR & TRANS
145321	BOHANNAN HUSTON	2,801.50	6- IRRIGATION INFRASTRUTURE ASSESSMENTS OCT22	ENGINEERING & MAPPING
		2,194.64	TO 14- BELEN HIGHLINE STUDY- OCT22	
		21,087.59	TO 15- FREE-SPAN CATWALK CROSSING DESIGN- OCT22	
145322	BOOT BARN	150.00	FY23- ARMIJO ANDREW- BOOT BARN	SOCORRO DIVISION
145323	CENTURY EQUIPMENT	21.00	ALAMO NUTS ORDER- REPLENISH INVENTORY	INVENTORY
145324	CHAVEZ, RAYMOND	99.00	RODENT MANAGMENT- LUIS LOPEZ DRAIN	SOCORRO DIVISION
145325	CHOICE STEEL COMPANY	9,516.00	ALB WELD SHOP METAL	ALBUQUERQUE DIVISION
145326	CINTAS FIRST AID	9.45	RESTOCK FIRST AID CABENITS	ALBUQUERQUE DIVISION
		24.98	RESTOCK FIRST AID CABENITS	EQUIPMENT REPAIR & TRANS
		26.91	RESTOCK FIRST AID CABENITS	NON DIVISION
145327	DELTA DENTAL	10,699.01	NOV22- DELTA DENTAL FY2023	GENERAL NON DIVISION
145328	EXCEL STAFFING COMPA	1,324.91	TEMP STAFFING	ACCOUNTING
145329	GPS, LLC	20.00	TIRE REPAIR UNIT 64110	SOCORRO DIVISION
145330	HEIGHTS SECURITY	7.90	DUPLICATE KEY FOR ER&T	EQUIPMENT REPAIR & TRANS
145331	HIND, JOSH	64.60	REIMBURSE-SUPPLIES FOR BELEN TRAINING KIOSK	BELEN DIVISION
145332	HM LIFE INSURANCE	1,523.59	NOV22 - DAVIS VISION FY2023	GENERAL NON DIVISION
145333	HOME DEPOT CREDIT	258.00	GRINDERS/WELDING SHOP TOOLS	BELEN DIVISION
		247.62	TOOL BOX & TAPE MEASURES / MATT MARTINEZ	WATER DISTRIBUTION DIV
		45.93	TOOLS FOR MATT MARTINEZ	
145334	NAPA AUTO PARTS	17.56	LOCK FOR ER&T	EQUIPMENT REPAIR & TRANS
		25.00	SUPPLIES FOR SOCORRO DIVISION	SOCORRO DIVISION
145335	PURCELL TIRE COMPANY	318.33	TIRE REPAIR/SERVICE CALL UNIT 47502	ALBUQUERQUE DIVISION



Check Number	Vendor Name	Check Amount	Description	Location
145336	RELEVANT INDUSTRIAL	85.95	HYDRAULIC HOSE ASSEMBLY UNIT 47018	ALBUQUERQUE DIVISION
145339	WAGNER EQUIPMENT CO.	5,751.06	MISC. CATERPILLAR EXCAVATOR PARTS UNIT 57308	BELEN DIVISION
145340	A-1 QUALITY REDI-MIX	505.38	FY2023 BUDGET CONCRETE/ SHOTCRETE - SOCORRO	SOCORRO DIVISION
145341	ACOSTA EQUIPMENT INC	234.02	RENTAL FOR 4014LEMW JIMMY SANCHEZ XING	SOCORRO DIVISION
145342	ALLSTATE HYDRAULICS	464.29	R&R HYDRAULIC CYLINDER UNIT 47022	ALBUQUERQUE DIVISION
145343	AMAZON CAPITAL	179.00	SUBSCRIPTION - BUSINESS PRIME FREE SHIPPING	NON DIVISION
145344	AMERESCO INC	816.00	SOLAR PANEL ORDER- REPLENISH INVENTORY	INVENTORY
145345	CARRILLO, RALPH	135.14	NOV22- RETIREE	HUMAN RESOURCES
145346	CELLCO PARTNERSHIP	5,195.43	SEPT22 -GPS MONTHLY MAINTENANCE	EQUIPMENT REPAIR & TRANS
145347	CENTURY EQUIPMENT	63.55	VENT PLUGS UNIT 57023	BELEN DIVISION
		2,680.70	ALAMO BLADE & HARDWARE ORDER- REPLENISH INVENTORY	INVENTORY
145348	CENTURY LINK	146.75	5054652298 281B NOV22	COCHITI DIVISION
145349	CLARK TRUCK	42.00	LIGHT BAR UNIT 74803	EQUIPMENT REPAIR & TRANS
		3,426.70	ACCESSORIES FOR NEW ISO UNIT 80024	WATER DISTRIBUTION DIV
		3,426.70	ACCESSORIES FOR NEW ISO UNIT 80030	
145350	CONSTRUCTION TRUCK	88.16	PRESSURE SWITCH UNIT 54204	EQUIPMENT REPAIR & TRANS
145351	CONTINENTAL BATTERY	74.46	BATTERY UNIT 54019	BELEN DIVISION
		119.00	BATTERY UNIT 67016	SOCORRO DIVISION
145352	CRITTERS OIL CHANGE	75.00	OIL CHANGE UNIT 53453	BELEN DIVISION
		75.00	OIL CHANGE UNIT 80027	WATER DISTRIBUTION DIV
145353	DESERT GREENS EQUIPM	576.32	GASKETS, BLOWER, & RESISTOR UNIT 47023	ALBUQUERQUE DIVISION
		(290.12)	CREDIT ON PARTS INV 02-63800 PO 23002788	COCHITI DIVISION
145354	GOVERNMENT PORTFOLIO	876.04	OCT22-INVESTMENT ADVISOR FEES	ACCOUNTING
145355	HOME DEPOT CREDIT	200.73	WATER DEPT SUPPLIES- HYDROLOGY	WATER DISTRIBUTION DIV
		733.81	WATER DEPT SUPPLIES- HYDROLOGY	WATER OPS & CONS
145356	HUNTER BOWER LUMBER	584.70	GROUT ORDER- REPLENISH INVENTORY	INVENTORY
145357	J & B AUTOMOTIVE	14.95	SWITCH UNIT 89002	WATER DISTRIBUTION DIV
145358	LARRY H. MILLER CASA	281.09	VAPOR CANISTER UNIT 43434	ALBUQUERQUE DIVISION
145359	LINDE GAS	37.65	CONNECTORS FOR ER&T	ALBUQUERQUE DIVISION
		42.82	ELECTRODE HOLDER/"STINGER" UNIT 8920.35	EQUIPMENT REPAIR & TRANS
145360	MORA, RUBEN	644.49	NOV22- RETIREE	HUMAN RESOURCES
145361	NAPA AUTO PARTS	23.30	BLOW GUN ER&T	EQUIPMENT REPAIR & TRANS
		56.47	BLOWER MOTOR UNIT 13432	
145362	OLGUIN, FRANK	61.22	NOV22- RETIREE	HUMAN RESOURCES
145363	PACIFIC OFFICE AUTO	10.99	OCT22 - OVERAGES CUSTOMER# 635984	ALBUQUERQUE DIVISION
		120.91	OCT22 - OVERAGES CUSTOMER# 635984	NON DIVISION
145364	PNM	16.84	735 ATRISCO NW, HERRERA PUMP	ALBUQUERQUE DIVISION
		261.52	31 CARROS DE CABALLOS	COCHITI DIVISION
		20.41	33 CARROS DE CABALLOS	
		16.09	35 CARROS DE CABALLOS	
145365	PRUDENTIAL OVERALL S	23.58	FY23- UNIFORM RENTAL	BELEN DIVISION
		19.72	FY23-UNIFORM RENTAL	EQUIPMENT REPAIR & TRANS
		6.94	FY23-UNIFORM RENTAL	SOCORRO DIVISION
145366	ROBERTS TRUCK CENTER	(30.00)	CORE CHARGE INV X814046096:01 PO 23003337	ALBUQUERQUE DIVISION
		366.37	DEF SENDING UNIT: UNIT 54419	
145367	SCOTT'S FENCING	490.26	REPAIR AUTOMATED ABQ DIV YARD GATE	ALBUQUERQUE DIVISION
145368	SOUTHERN TIRE MART	927.18	TIRE UNIT 47025	ALBUQUERQUE DIVISION
		553.00	TIRES UNIT 13449	SOCORRO DIVISION
		552.00	TIRES UNIT 63340	

Check Number	Vendor Name	Check Amount	Description	Location
145369	SOUTHWEST GENERAL TI	281.46	TIRES UNIT 53458	BELEN DIVISION
145370	STAPLES ADVANTAGE	10.58	GENERAL OFFICE SUPPLIES	HUMAN RESOURCES
		24.06	GENERAL OFFICE SUPPLIES	GENERAL OFFICE
		61.46	GENERAL OFFICE SUPPLIES	WATER OPS & CONS
145371	TABET LUMBER	10.49	ANGLE VALVE FOR OFFICE WATER LEAK	BELEN DIVISION
145372	TAFOYA, MARK A	555.76	NOV22- RETIREE	HUMAN RESOURCES
145373	TYLER BUSINESS FORMS	591.20	2022 CALENDAR YR- 1099'S & W-2 ORDER FORMS	ACCOUNTING
145374	UNICOR	116.58	11/9/22 - SHRED BINS PICKUP	ACCOUNTING
145375	UNUM LIFE INSURANCE	6,551.52	OCT22- UNUM LIFE EMPLOYER	GENERAL NON DIVISION
145376	WAGNER EQUIPMENT CO.	326.00	BEARING SLEEVES UNIT 47309	ALBUQUERQUE DIVISION
		90.60	BUSHING UNIT 47309	
145377	4 RIVERS EQUIPMENT	285.92	JOHN DEERE FILTER ORDER- REPLENISH INVENTORY	INVENTORY
		(100.00)	CREDIT CORE- INV 1202319 PO 22003658	SOCORRO DIVISION
145378	A-1 QUALITY REDI-MIX	583.88	RIPRAP NEEDED FOR 4014LEMW MASTER WO	SOCORRO DIVISION
		946.00	RIPRAP NEEDED FOR MASTER WO JIMMY SANCHEZ XING	
145379	AMAZON CAPITAL	77.91	SAFETY MIRROR'S LEEANN/ ERIC Z	SAFETY DEPARTMENT
145380	AWARDS ETC	7.50	NAME PLATE PLATE ANGEL MADERA	NON DIVISION
145381	BANK OF AMERICA	1,819.00	TABLES AND CHAIRS FOR BELEN /LEEANN	BELEN DIVISION
		530.00	2022 CRWUA ANNUAL CONFERENCE REGISTRATION	EXEC TEAM
		161.96	AIRLINES LAS VEGAS, NV CRWUA CONF.- J CASUGA	
		530.00	2022 CRWUA ANNUAL CONFERENCE REGISTRATION	PLANNING
		205.96	AIRLINES LAS VEGAS, NV CRWUA CONF. J ISH	
145382	BERNALILLO COUNTY CL	100.00	RELEASE OF LIENS	ACCOUNTING
145383	COFFEETIME	13.50	COFFEE FILTERS FOR GENERAL OFFICE	GENERAL OFFICE
145384	CONCRETE SYSTEMS INC	252.58	CONSTRUCTION SUPPLIES	BELEN DIVISION
145385	CRAIG INDEPENDENT	217.01	MOUNTING NEW TIRES UNIT 54205	BELEN DIVISION
		16.48	TIRE REPAIR UNIT 80020	WATER DISTRIBUTION DIV
145386	CRITTERS OIL CHANGE	75.00	OIL CHANGE UNIT 80026	WATER DISTRIBUTION DIV
145387	GENUINE NAPA	132.96	MISC PARTS UNIT 53452	BELEN DIVISION
		101.99	MISC PARTS UNIT 53809	
		42.08	MISC PARTS UNIT 54205	
		45.31	MISC PARTS UNIT 54421	
		14.78	SHOP SUPPLIES	
145388	HIGH DESERT INDUSTRI	81.39	WELDING BOTTLE REFILLS	BELEN DIVISION
145389	HUNTER BOWER LUMBER	316.32	REDI MIX CONCRETE ORDER- REPLENISH INVENTORY	INVENTORY
145390	NAPA AUTO PARTS	27.50	MISC PARTS UNIT 47022	ALBUQUERQUE DIVISION
		114.97	MISC PARTS UNIT 47025	
		39.67	SUPPLIES FOR ER&T	EQUIPMENT REPAIR & TRANS
		117.69	MISC PARTS UNIT#63808	SOCORRO DIVISION
145391	NEW MEXICO TRACTOR S	99.12	PARTS AND REPAIRS UNIT 57025	BELEN DIVISION
		12.80	PARTS UNIT 57024	
145392	POSTMASTER	92.00	BELEN PO BOX ANNUAL RENEWAL FEE- BOX # 1291	BELEN DIVISION
145393	POWER EQUIPMENT	252,576.00	WHEELED EXCAVATOR FOR BELEN UNIT 57311	BELEN DIVISION
145394	RAKS BUILDING SUPPLY	46.54	FIELD SUPPLIES FOR SOCORRO DIVISION	SOCORRO DIVISION
145395	SOCORRO COUNTY CLERK	50.00	RELEASE OF LIENS	ACCOUNTING
145396	TECHNA GLASS	228.81	WINDSHIELD REPLACEMENT UNIT 33437	COCHITI DIVISION
145397	THE PRINTERS PRESS	505.00	WSC BILLING	ACCOUNTING
145398	WAGNER EQUIPMENT CO.	715.92	INJECTOR, TUBE, HOSES, & KIT UNIT 4448.040	BELEN DIVISION
145399	WILSON & COMPANY	2,521.89	8/13/22 TO 11/4/22-DESIGN CORRALES	ALBUQUERQUE DIVISION
145400	4 RIVERS EQUIPMENT	122.60	FILTER UNIT 47027	ALBUQUERQUE DIVISION

Check Number	Vendor Name	Check Amount	Description	Location
		43.78	COUPLING UNIT 67303	SOCORRO DIVISION
		173.70	HANDLE UNIT 67303	
145401	ALBUQUERQUE PUB	89.91	NOV22- ABQ JOURNAL BOARD MEETING NOTICE	BOARD OF DIRECTORS
		94.25	NOV22- EL DEFENSOR BOARD MEETING NOTICE	
145402	AMBER A RAMIREZ	1,499.40	2022 EWLP LEASE PAYMENT 2ND INSTALLMENT ONLY	GRANTS
145403	AUTOZONE, INC	25.92	MISC SUPPLIES NEEDED FOR ER&T	EQUIPMENT REPAIR & TRANS
145404	BANK OF AMERICA	1,079.96	G.O. SUPPLIES/ IT SUPPLIES	INFORMATION SYS
		241.43	G.O. SUPPLIES/ IT SUPPLIES	NON DIVISION
		363.60	STORAGE MAPPING	
145405	BOOT BARN	116.36	FY23- DIAZ CRUZ- BOOT VOUCHER	ALBUQUERQUE DIVISION
		150.00	FY23- GONZALES MICHAEL- BOOT VOUCHER	BELEN DIVISION
145406	CHAVEZ TOMAS	165.00	RODENT MANAGEMENT- LEMITAR WASTEWAY	SOCORRO DIVISION
145407	CHILD SUPPORT ENFORC	927.27	Payroll Run 1 - Warrant PP2322	GENERAL NON DIVISION
145408	CLARK TRUCK	3,425.80	ACCESSORIES FOR NEW ISO UNIT 80032	WATER DISTRIBUTION DIV
		3,425.80	ACCESSORIES FOR NEW ISO UNIT 80037	
145409	EXCEL STAFFING COMPA	543.55	TEMP STAFFING	ACCOUNTING
145410	GPS, LLC	222.09	SERVICE ON UNIT 63340	SOCORRO DIVISION
145411	GARNISHMENT	225.00	Payroll Run 1 - Warrant PP2322	GENERAL NON DIVISION
145412	HALL, SHAD R.	161.50	2022 EWLP LEASE PAYMENT 2ND INSTALLMENT	GRANTS
145413	HIND, JOSH	53.01	KIOSK DESK FOR SOCCORO	SOCORRO DIVISION
145414	HOME DEPOT CREDIT	35.93	JANITORIAL SUPPLIES FOR ER&T & ABQ DIVISION	ALBUQUERQUE DIVISION
		36.84	PAD LOCKS FOR UNITS 37205, 37107 AND 37108	COCHITI DIVISION
		19.97	JANITORIAL SUPPLIES FOR ER&T & ABQ DIVISION	EQUIPMENT REPAIR & TRANS
145415	HONNEN EQUIPMENT CO	785.77	VALVES UNIT 67504	SOCORRO DIVISION
145416	KRONOS SAASHR, INC.	1,197.90	OCT22 - UKG KRONOS READY SOFTWARE	INFORMATION SYS
145417	NEW MEXICO TRACTOR S	20.46	CABIN FILTERS UNIT 47027	ALBUQUERQUE DIVISION
		642.53	A/C LINE/DRYER/HOSE UNIT 57026	BELEN DIVISION
145418	O'REILLY AUTO PARTS	21.99	FLOOR MAT UNIT 80012	WATER DISTRIBUTION DIV
145419	PNM	21.96	0 BE161 - ISLETA DAM LIGHTS	BELEN DIVISION
145420	QBENCH, INC.	15,617.05	SOIL LABS SOFTWARE/SUBSCRIPTON & PS (14 MONTHS)	SOILS LAB
145421	SOUTHERN TIRE MART	741.40	TIRE UNIT 47311	ALBUQUERQUE DIVISION
145422	STATE OF NEW MEXICO	258.21	Payroll Run 1 - Warrant PP2322	GENERAL NON DIVISION
145423	WRIGHT FARM	132.00	RODENT MANAGEMENT- JARAL 1 & 2	BELEN DIVISION
145424	4 RIVERS EQUIPMENT	81.78	JOHN DEERE FILTER ORDER- REPLENISH INVENTORY	INVENTORY
145425	ACTION HOSE INC.	477.91	HOSES UNIT 47112	ALBUQUERQUE DIVISION
145426	ADVANCE AUTO PARTS	18.84	REPAIR KIT UNIT 47113	ALBUQUERQUE DIVISION
145427	BOOT BARN	144.49	FY23- MISHOE JAMES- BOOT VOUCHER	SOCORRO DIVISION
145428	CENTURY EQUIPMENT	1,299.39	ASSEMBLIES, BRACKET, SPACERS, & BUSHINGS UNIT47022	ALBUQUERQUE DIVISION
145429	CONSERVANCY OIL CO	2,107.60	DEF ORDER- REPLENISH INVENTORY	INVENTORY
145430	CRAIG INDEPENDENT	62.27	MOUNTED NEW TIRES UNIT 53458	BELEN DIVISION
145431	DESERT GREENS EQUIPM	724.82	ALTERNATOR & SHEAVE UNIT 47024	ALBUQUERQUE DIVISION
145432	FEDEX	137.28	NMDA HSG Soil sample shipping for PO 20231628	SOILS LAB
145433	GPS, LLC	102.30	TIRE REPAIR ON UNIT# 35801	SOCORRO DIVISION
145434	HUNTER BOWER LUMBER	976.80	REDI MIX FOR ALBUQUERQUE DIVISION	ALBUQUERQUE DIVISION
145435	IMSCO DIVISION	218.90	LOCK ORDER- REPLENISH INVENTORY	INVENTORY
145436	LAW & RESOURCE	16,407.26	OCT22- SERVICES	NON DIVISION
145437	NAPA AUTO PARTS	201.51	FILTERS UNIT 47204	ALBUQUERQUE DIVISION
145438	NEW MEXICO TRACTOR S	217.98	HOOD GAS OPERATED CYLINDERS UNIT 57026	BELEN DIVISION
145439	PACIFIC OFFICE AUTO	329.87	NOV22 -COPIER LEASE 3RD YEAR - 2022-2023	ALBUQUERQUE DIVISION

Check Number	Vendor Name	Check Amount	Description	Location
		204.20	NOV22 -COPIER LEASE 3RD YEAR - 2022-2023	EQUIPMENT REPAIR & TRANS
		1,036.72	NOV22 -COPIER LEASE 3RD YEAR - 2022-2023	NON DIVISION
145440	PARTS AUTHORITY	1,548.93	FILTER ORDER- REPLENISH INVENTORY	INVENTORY
145441	PRUDENTIAL OVERALL S	23.58	FY23- UNIFORM RENTAL	BELEN DIVISION
		39.44	FY23-UNIFORM RENTAL	EQUIPMENT REPAIR & TRANS
		6.94	FY23-UNIFORM RENTAL	SOCORRO DIVISION
145442	PURCELL TIRE COMPANY	272.64	TIRE & WHEEL UNIT 45304	ALBUQUERQUE DIVISION
145443	ROMERO, ALFRED	455.17	NOV22- RETIREE	HUMAN RESOURCES
145444	SAFETY-KLEEN CORP.	379.93	SERVICE PARTS CLEANER	SOCORRO DIVISION
145445	TRAVERS MECHANICAL	237.05	SERVICE CALL BELEN DIVISION	BELEN DIVISION
145446	UNICOR	516.48	DISPOSAL OF RECORDS FROM MRGCD WAREHOUSE	NON DIVISION
145447	VALENCIA COUNTY CLER	200.00	RELEASE OF LIENS	ACCOUNTING
145448	WAGNER EQUIPMENT CO.	127.98	CLIPS UNIT 47112	ALBUQUERQUE DIVISION
145449	WIGGINS, WILLIAMS	6,461.23	OCT22	NON DIVISION
145450	A-1 QUALITY REDI-MIX	752.50	FY2023 BUDGET CONCRETE/ SHOTCRETE - SOCORRO	SOCORRO DIVISION
145451	ACTION HOSE INC.	289.02	HYDRAULIC HOSE ASSEMBLY UNIT 47112	ALBUQUERQUE DIVISION
145452	ALBUQUERQUE PUB	83.18	LEGAL AD- RFP FOR CANAL GATES	PURCHASING
145453	AMAZON CAPITAL	473.84	MONITOR REPLACEMENT JOSH HIND	INFORMATION SYS
145454	CASTLE BRANCH, INC.	715.27	PRE-EMPLOYMENT BACKGROUND CHECKS	HUMAN RESOURCES
145455	CENTURY EQUIPMENT	4,496.86	CONTROLLER UNIT 47019	ALBUQUERQUE DIVISION
145456	CLARK TRUCK	3,426.70	ACCESSORIES FOR NEW ISO UNIT 80022	WATER DISTRIBUTION DIV
145457	CONSTRUCTION RENTAL	4,950.00	ABQ DIVISION - LEAF VACCUM MID SIZE0 UNIT 4445.14	ALBUQUERQUE DIVISION
145458	CONTINENTAL BATTERY	150.28	BATTERIES UNIT 47404	ALBUQUERQUE DIVISION
145459	DEMAND SAFETY	916.00	WINTER GLOVES ORDER- REPLENISH INVENTORY	INVENTORY
145460	DESERT GREENS EQUIPM	36.46	LOCKING FUEL CAP UNIT 37011	COCHITI DIVISION
		451.96	COVER, BOX, & AIR FILTERS UNIT 67019	SOCORRO DIVISION
		141.25	LINE, HOSE, CLAMP, & O-RING UNIT 67017	
145461	EXCEL STAFFING COMPA	543.55	TEMP STAFFING	ACCOUNTING
145462	FIMBRES, JUAN	429.00	RODENT MANAGEMENT- SAN ACACIA DRAIN	SOCORRO DIVISION
145463	HUNTER BOWER LUMBER	195.36	REDI MIX FOR ALBUQUERQUE DIVISION	ALBUQUERQUE DIVISION
145464	LEGALSHIELD	451.90	NOV22 - GROUP# 34628- LEGALSHIELD FY2023	GENERAL NON DIVISION
145465	MARKEN, ANNE	13.29	SHIPPING RTU TO ONERAIN	WATER OPS & CONS
145466	MELLOY FORD LOS LUNA	70.97	LOCK CYLINDER UNIT 80007	WATER DISTRIBUTION DIV
145467	NAPA AUTO PARTS	53.81	FILTER UNIT 47113	ALBUQUERQUE DIVISION
		23.48	PLASTIC WELDER UNIT 47113	
145468	NEW MEXICO GAS CO	32.84	023488000-0308786-0 NOV22	ALBUQUERQUE DIVISION
		1,022.36	064166213-0665790-9 NOV22	EQUIPMENT REPAIR & TRANS
		343.75	022638203-0301840-0 NOV22	NON DIVISION
145469	O'REILLY AUTO PARTS	27.24	COOLANT HOSE UNIT 54414	BELEN DIVISION
145470	PRUDENTIAL OVERALL S	23.58	FY23- UNIFORM RENTAL	BELEN DIVISION
		6.94	FY23-UNIFORM RENTAL	SOCORRO DIVISION
145471	PURCELL TIRE COMPANY	610.38	TIRE UNIT 54419	ALBUQUERQUE DIVISION
145472	RANCHERO BUILDERS	68.96	SHOP TOOLS AND SUPPLIES	BELEN DIVISION
145473	SANDOVAL COUNTY CLER	25.00	RELEASE OF LIEN CUSTOMER ID #25667	ACCOUNTING
145474	SOCORRO COUNTY CLERK	25.00	RELEASE OF LIEN- CUSTOMER# 35213	ACCOUNTING
145475	SORBCO	231.37	HYDRAULIC REPAIRS UNIT 57116	BELEN DIVISION
145476	SOUTHERN TIRE MART	26.94	TIRE REPAIR UNIT 43460	ALBUQUERQUE DIVISION
		334.11	TIRE UNIT 44109	
		2,674.00	TIRE AND TUBE ORDER- REPLENISH INVENTORY	INVENTORY

Check Number	Vendor Name	Check Amount	Description	Location
145477	SPECIALTY COMMUNICAT	323.25	NOV22- RADIO REPEATER	NON DIVISION
145478	STAPLES ADVANTAGE	33.59	RUBBER BANDS/ MAPPING	ENGINEERING & MAPPING
		172.32	INK CARTRIDGE ORDER- REPLENISH INVENTORY	GENERAL NON DIVISION
		437.12	MINUTE BOOKS/TARAH	NON DIVISION
145479	TAS SECURITY SYSTEMS	37.66	BELEN SECURITY- DEC22	BELEN DIVISION
145480	UNICOR	116.58	11/22/22 - SHRED BINS PICKUP	ACCOUNTING
145481	VALENCIA COUNTY CLER	25.00	RELEASE OF LIEN CUSTOMER ID#34962	ACCOUNTING
145482	VERIZON WIRELESS	223.17	NOV22 ACCT 770525624-00001	ALBUQUERQUE DIVISION
		260.73	NOV22 ACCT 770525624-00001	BELEN DIVISION
		155.85	NOV22 ACCT 770525624-00001	COCHITI DIVISION
		282.29	NOV22 ACCT 770525624-00001	ENGINEERING & MAPPING
		298.40	NOV22 ACCT 770525624-00001	EQUIPMENT REPAIR & TRANS
		565.15	NOV22 ACCT 770525624-00001	EXEC TEAM
		88.45	NOV22 ACCT 770525624-00001	HUMAN RESOURCES
		104.56	NOV22 ACCT 770525624-00001	INFORMATION SYS
		263.05	NOV22 ACCT 770525624-00001	LICENSING & LAND SALES
		157.17	NOV22 ACCT 770525624-00001	PLANNING
		277.16	NOV22 ACCT 770525624-00001	PURCHASING
		52.61	NOV22 ACCT 770525624-00001	SAFETY DEPARTMENT
		156.51	NOV22 ACCT 770525624-00001	SOCORRO DIVISION
		2,205.70	NOV22 ACCT 770525624-00001	WATER DISTRIBUTION DIV
		209.78	NOV22 ACCT 770525624-00001	WATER OPS & CONS
145483	ALBUQUERQUE PUB	97.41	REQUEST FOR BID- PLASTIC PIPE PARTS	NON DIVISION
145484	ALBUQUERQUE SUPPLY	478.50	TOOLS FOR HYDROLOGY ANNE/ JESSICA	WATER OPS & CONS
145485	ALL AMERICAN PUMPING	115.00	NOV22 - PORTABLE TOILET RENTAL	SOCORRO DIVISION
145486	BATTERY SYSTEMS INC	528.90	HYDROLOGY ORDER- REPLENISH INVENTORY	INVENTORY
145487	BJW VENTURES, LLC	1,450.00	WINCH & TRAY UNIT 80032	WATER DISTRIBUTION DIV
145488	CENTURY LINK	290.67	575-835-1454 245B NOV22	SOCORRO DIVISION
145489	CHACON, MARK	(200.00)	ANNUAL FEE APPLIED TO PAYMENTS	GENERAL NON DIVISION
		209.62	JUL, AUG, SEPT, OCT & NOV22 - RETIREE	HUMAN RESOURCES
145490	CONTINENTAL BATTERY	119.00	BATTERY UNIT 57024	BELEN DIVISION
145491	DESERT GREENS EQUIPM	1,248.72	JOHN DEERE FILTER ORDER- REPLENISH INVENTORY	INVENTORY
145492	DMC LOGISTICS	531.15	NOV22-DELIVERY OF BOD MEETING PACKETS	BOARD OF DIRECTORS
145493	GENUINE NAPA	19.95	COOLANT HOSE UNIT 54414	BELEN DIVISION
		19.96	FILTER UNIT 54422	
		19.96	FILTER UNIT 54423	
		19.16	FLANGE FOR LIGHTS UNIT 54422	
		75.63	MISC PARTS UNIT 53456	
		30.22	MISC PARTS UNIT 54415	
		48.43	MISC PARTS UNIT 54423	
		27.74	PARTS UNIT 54422	
		52.89	PARTS UNIT 54423	
145494	LEVEL 3 FINANCING IN	909.60	INTERNET: NOV22	BELEN DIVISION
		1,152.08	INTERNET: NOV22	COCHITI DIVISION
		4,406.90	INTERNET: NOV22	INFORMATION SYS
		1,013.81	INTERNET: NOV22	SOCORRO DIVISION
145495	NAPA AUTO PARTS	12.54	GASKETS UNIT 43434	ALBUQUERQUE DIVISION
		194.06	MISC. PARTS UNIT 33804	COCHITI DIVISION
		7.85	MISC. PARTS UNIT 74803	EQUIPMENT REPAIR & TRANS
		58.80	PARTS NEEDED FOR UNIT# 67406	SOCORRO DIVISION

Check Number	Vendor Name	Check Amount	Description	Location
145496	PACIFIC OFFICE AUTO	7.29	NOV22 - OVERAGES CUSTOMER# 635984	ALBUQUERQUE DIVISION
		90.23	NOV22 - OVERAGES CUSTOMER# 635984	NON DIVISION
145497	PNM	773.34	1930 2ND ST. SW, ABQ OFFICE	ALBUQUERQUE DIVISION
		57.46	1930 2ND ST. SW, LIGHTS/CAMERA	
		10.18	1930 2ND SW #A, GUARD SHACK ACCNT	
		16.84	2712 WILLIAM ST SE	
		14.31	O PL T0353 US 85 NO (US 85 LIGHTS)	
		82.73	0 BE166 B4 (ISLETA DAM)	BELEN DIVISION
		240.16	1930 2ND ST. SW, LIGHTS	EQUIPMENT REPAIR & TRANS
		1,168.05	1931 2ND ST. SW, GENERAL OFFICE	GENERAL OFFICE
145498	PRUDENTIAL OVERALL S	6.94	FY23- UNIFORM RENTAL	COCHITI DIVISION
145499	RAKS BUILDING SUPPLY	16.72	FIELD SUPPLIES	SOCORRO DIVISION
145500	SOCORRO ELECTRIC	136.50	10268009 - NOV22	SOCORRO DIVISION
145501	SOUTHWEST CONSTRUCTI	281.16	TEETH & RETAINERS UNIT 6045.16	ALBUQUERQUE DIVISION
		66.00	PLOW BOLTS, NUTS, & WASHERS UNIT 57503	BELEN DIVISION
145502	SOUTHWEST GENERAL TI	555.24	TIRES UNIT 80007	WATER DISTRIBUTION DIV
145503	STAPLES ADVANTAGE	83.16	RESTOCK COFFEE CUPS FOR ALL DIVISIONS	NON DIVISION
145504	THE PRINTERS PRESS	259.00	11X17 BROCHURES	NON DIVISION
145505	V-VARGAS, ERMELIND	433.43	NOV22- RETIREE	HUMAN RESOURCES
145506	4 RIVERS EQUIPMENT	50.00	FREIGHT FOR UNIT 67504	SOCORRO DIVISION
		412.25	PARTS NEEDED FOR UNIT# 67504	
145507	ACTION HOSE INC.	56.35	CABLE TIES FOR COCHITI DIVISION	COCHITI DIVISION
145508	BACA, BARBARA	134.94	TRAVEL REIMBURSEMENT	BOARD OF DIRECTORS
145509	BANK OF AMERICA	25.00	REGISTRATION CONGRESO DE LAS ACEQUIAS 2022-BACA	BOARD OF DIRECTORS
		7,152.48	ANNUAL CHARGE-11/22-11/23	INFORMATION SYS
		848.00	WILDCARD MRGCD CERTIFICATE FOR MUNIS & TRUEPOINT	
145510	CENTURY EQUIPMENT	438.45	ALAMO FILTER ORDER- REPLENISH INVENTORY	INVENTORY
145511	CONSERVANCY OIL CO	1,625.80	OIL ORDER- REPLENISH INVENTORY	INVENTORY
145512	CONTINENTAL BATTERY	119.00	BATTERY UNIT 53463 & UNIT 47018	ALBUQUERQUE DIVISION
		74.46	BATTERY UNIT 53463 & UNIT 47018	WATER DISTRIBUTION DIV
145513	DAYLIGHT ELECTRIC	86.55	ELECTRICAL WORK IN BELEN MECHANIC SHOP /SLOAN	BELEN DIVISION
145514	FRESH AND CLEAN PORT	211.19	RESTROOM RENTAL 11/17/22-12/16/22	ALBUQUERQUE DIVISION
145515	GPS, LLC	108.97	MAINTENANCE ON UNIT# 80031	SOCORRO DIVISION
145516	HIGHWAY SUPPLY	1,674.60	SIGNS AND SIGN STANDS FOR ALBUQUERQUE DIV.	ALBUQUERQUE DIVISION
		3,896.70	LL TRAFFIC GATE GRANT SIGNS	GRANTS
145517	O'REILLY AUTO PARTS	505.39	MISC. PARTS UNIT 33438	WATER DISTRIBUTION DIV
		23.86	MISC. PARTS UNIT 53463	
		33.92	MISC. PARTS UNIT 80001	
145518	OCCUPATIONAL HEALTH	424.54	PRE EMPLOYMENT PHYSICAL & SCREENING- BERNIGER&WOODY	BELEN DIVISION
		212.27	PRE EMPLOYMENT PHYSICAL & SCREENING- VALADEZ	WATER DISTRIBUTION DIV
145519	PURCELL TIRE COMPANY	1,096.74	TIRES & TIRE REPAIRS UNIT 74803	EQUIPMENT REPAIR & TRANS
145520	SAFETY COUNSELING	1,616.25	SAFETY TRAINING / LEEANN	SAFETY DEPARTMENT
145521	SOUTHERN TIRE MART	1,061.76	TIRE UNIT 47204	ALBUQUERQUE DIVISION
145522	TECHNA GLASS	254.07	WINDSHIELD REPLACEMENT UNIT 33804	COCHITI DIVISION
145523	UNIFORMS & MORE	1,996.50	FY23 ALBUQUERQUE DIV JACKET ORDER	ALBUQUERQUE DIVISION
		913.00	FY23 BELEN DIVISION JACKET ORDER	BELEN DIVISION
		266.50	FY23 ER&T JACKET HOODIE	EQUIPMENT REPAIR & TRANS
		1,134.50	ISO'S JACKET / HOODIE	WATER DISTRIBUTION DIV
		218.00	FY 23 HYROLOGY JACKET/ HOODIE ORDER	WATER OPS & CONS



Check Number	Vendor Name	Check Amount	Description	Location
		50.00	FY23 LAND & LICENSING JACKET HOODIE	
<b>145524</b>	UNUM LIFE INSURANCE	1,910.88	NOV22- CRITICAL, HOSPITAL & ACCIDENT	<b>GENERAL NON DIVISION</b>
<b>145525</b>	WILSON & COMPANY	572.63	FY22 CARRY FWD GUN CLUB LATERAL SURVEY	<b>ENGINEERING &amp; MAPPING</b>
		23,713.93	10/8/22-11/4/22- SOCORRO MAIN CANAL LINING	<b>SOCORRO DIVISION</b>
<div> <div>TOTAL PAYROLL</div> <div>-</div> <div>TOTAL CHECKS</div> <div>1,083,276.46</div> <div>GRAND TOTAL \$</div> <div>1,083,276.46</div> </div>				
<div> <div>Pamela S. Fanelli, CFO</div> </div>			<div> <div>Stephanie Russo Baca, Chair</div> </div>	

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**MINUTES OF THE  
2,193rd REGULAR MEETING OF THE  
BOARD OF DIRECTORS OF THE  
MIDDLE RIO GRANDE CONSERVANCY DISTRICT**

**NOVEMBER 14, 2022 - 3:00 PM**

Directors having been duly notified; Vice Chair Dunning called the regular meeting to order at 3:03 pm.  
The following Directors and Staff were present:

**DIRECTORS**

Stephanie Russo Baca, Madam Chair Present  
Karen Dunning, Vice Chair Present  
Barbara Baca, Director Present  
John Kelly, Director Present  
Joaquin Baca, Director Absent  
Glen Duggins, Director Present  
Michael T. Sandoval, Director Present

**STAFF**

Chief Engineer/CEO  
General Counsel  
Chief Water Counsel  
Secretary-Treasurer/CFO  
Water Distribution Division Mgr.  
Water Operations Division Mgr.

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The following names of individuals were interested viewers, callers and/or participants

David L. C' de Baca	Caroline Ogg, BHI	Alicia Lopez, MRGCD
Hannah Riseley-White, NMISC	Craig Hoover, BHI	Rhett Sanders-Spencer, MRGCD
Anthony Wagner	John Thompson, MRGCD Lobbyist	Doug Strech, MRGCD
John Fleck, Utton Center	Eric Zamora, MRGCD	Casey Ish, MRGCD
Matt Russell, UNM	Gabriella Coughlin, MRGCD	Angel Madera Enriquez, MRGCD
Page Pegram, NMISC	Casey Ish, MRGCD	Josh Hind, MRGCD
Rudy Perea	Sloan Washburn, MRGCD	Greg Bacon
Judith McSweeney, MRGCD	Gus Vandeveld	Elaine Hebard

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**AGENDA ITEM NO. 1 – PLEDGE OF ALLEGIANCE**

Colonel David C De Baca, a veteran, was asked to lead the Pledge of Allegiance at today's meeting.

Vice Chair Dunning stated that Chair Russo Baca although present had a bad cold wearing a mask; therefore the Vice Chair led the meeting. She declared a quorum, and the meeting was publicly noticed.

Mr. Casuga briefed the Board on the newly purchased microphones that include mute buttons to help prevent unwanted noise on the recordings.

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**AGENDA ITEM NO. 2 – APPROVAL OF THE AGENDA**

Jason Casuga moved Item 11(b) up and also moved Item 13(g) up to right before 10(a). He also asked to add to number 11(k) the upcoming CRWUA (Colorado Rural Water Association Conference) meeting and the Family Farm Alliance Conference.

Director Kelly made the **MOTION TO APPROVE THE MEETING AGENDA AS MODIFIED**. Director Barbara Baca seconded the motion. The **MOTION CARRIED UNANIMOUSLY**.

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Vice Chair Dunning congratulated Director Barbara Baca on being newly elected as the Commissioner of Bernalillo County which makes her the second commissioner on the Board. Director Duggins being the first for Socorro County.

### **AGENDA ITEM NO. 3 - CONSENT AGENDA**

- a. **Consideration/Approval of Payment Ratification - November 14, 2022**
- b. **Consideration/Approval of October 2022 Invoice for Wiggins, Williams & Wiggins**
- c. **Consideration/Approval of October 2022 Invoice for Law and Resource Planning Assoc.**
- d. **Consideration/Approval of the Minutes for the Regular Board Meeting - October 10, 2022**
- e. **Consideration/Approval of the Minutes for the Special Board Meeting - October 21, 2022**
- f. **Memo on MRGCD Approved Licenses for October 2022 (For Informational Purposes Only)**

Director Kelly made the **MOTION TO APPROVE THE CONSENT AGENDA**. Seconded by Director Barbara Baca. The **MOTION CARRIED UNANIMOUSLY**.

### **AGENDA ITEM NO. 4 - ITEMS FROM THE FLOOR (Comments are limited to six (6) minutes)**

#### **David C' de Baca**

Mr. C' de Baca, a resident of Corrales, stated that he had to transfer his rights from surface water to groundwater back in 2020 due to the lateral that came to his property to maintain the irrigation ditch, but still has to pay the service charge for service. He asked if there was anything the board could do to change the language of the rules or procedures to where he did not have to pay the service fee. He also suggested a veteran exemption for those who reside in the MRGCD's jurisdiction.

Jason Casuga stated he was not up to speed with Mr. C' de Baca's situation but would gather his contact information and speak with him directly.

#### **Rudy Perea**

Mr. Perea representing Corrales Orchards and wanted to know what changes the Board would make to get more water next season, stating this season was not enough. He also asked if they were going to install more pumps or finish the siphon.

Director Dunning thanked him for his comments and informed him there would be an update on the Corrales Siphon later in the meeting.

#### **Elaine Hebard**

In an email sent to the Chair Ms. Hebard was not able to provide public comment on line and wrote the following:

Dear Directors,

My name is Elaine Hebard, and I am a resident within the benefitted area within Bernalillo County.

In September, there was a lengthy discussion under Item 11 d. Report on the Local Election Act (LEA) Meeting. It sounded as if there was a lot of work simply to merge the voting information, without making any other changes, in order to comply with the current LEA and hold the next

election next November.

While that presumably will be the topic for Items 11 b and 13 f today, I would like to address potential 2023 legislation to change MRGCD voting boundaries and the definition of a "qualified voter" (which I also raised at the February 14 and September 12 Board meetings).

My concern is that the legislative session starts up in two months and there may be suggested changes, again, to the MRGCD voting boundaries and voters. Rather than wait to react to such legislation, why not hold a virtual clinic, explain the issues and ask for input? In that way, the legislature will be able to see that the MRGCD Board is addressing issues raised in the past.

If no changes are made to the LEA before next April, using the celebration of 100 years of MRGCD's history would be a great opportunity for any changes to be fully explored -- with the goal of finalizing any changes in time for the 2024 legislature and election.

I also want to mention the One Water concept again. Brought up at the MRCOG Water Resource Board July and October meetings, there will be a more robust discussion at the January 4 meeting. Given the current Compact deficit, another La Niña year predicted, the 40% reduction in SJC water this year and a request that the region cut its overall SJC use by 30%, working together with the other water providers is essential. One idea to implement such reductions would be to have a One Water Budget, showing how the water is being consumed and thus where there might be reductions available -- taking into consideration water rights, of course!

Finally, a shout out regarding the Irrigation Update. Lots of necessary information in two pages. Thank you!

**AGENDA ITEM NO. 5 - NM INTERSTATE STREAM COMMISSION INTRODUCTION & UPDATES - Hannah Riseley-White, Deputy Director & Page Pegram, Rio Grande Basin Bureau Chief**

Ms. Riseley-White stated the Interstate Stream Commission was tasked with supporting New Mexico's Compliance with their interstate compacts to support retaining water in New Mexico as much as possible for New Mexico users. She congratulated MRGCD on their recent title transfer and thanked them for their efforts in supporting Compact deliveries. Ms. Riseley White discussed some good news, which included the good monsoon season, an agreement reached between the three compact states on credit water agreement which resulted in a credit to New Mexico of 32,500 acre-feet due to inappropriately released water from Elephant Butte in 2011, the working relationships within the basin, especially the work around the Low Flow Conveyance Channel, and the funding available heading into the next legislative session.

However, Ms. Riseley-White stated there was some bad news, including that they were still 100,000 acre-feet in debt and would have limitations in upstream storage pertaining to Article VII restrictions, and work on their 50-year water plan which is showing that they would have 25% less water in their rivers by 2070. She stated a lot more was needed from a Compact perspective in order to protect New Mexicans, which included a real need to engage with New Mexico's vital agricultural communities. She stated it was critical that they worked well with them and others and that they understand the challenges they face. She added that they would like to engage in continued conversation with MRGCD and would be listening to the meetings as much as possible.

Vice Chair Dunning asked if there would be anymore releases of acre-feet similar to 2011. Ms. Riseley-White gave kudos to Page Pegram for the agreement. Ms. Pegram stated that it was a onetime deal.

Chair Russo Baca asked if they could present on the governor's report on the 50-year water plan at some point. Ms. Riseley-White confirmed that they would, adding that they were still currently still in conversation about it, but could present on what was available.

Director Kelly stated the 32,500 acre-feet credit was good but would have rather seen that in wet water and asked if there was any opportunity for that credit to turn into wet water for use next summer. Ms. Riseley-White stated that was not possible under the agreement.

Director Kelly also stated that two years ago, they were asked to shut irrigation season down early and start late, but the same request was not made of many of the other big water users up and down the Rio Grande. He stated they felt singled out as the easiest ones to go after due to their water surface rights tied to the river. Ms. Riseley-White stated it was going to take effort on everyone's part and would be really good to have conversations now about how to plan and prepare for the climate projections. She stated she heard his concern, and it was a valid one.

**AGENDA ITEM NO. 6 - CONSIDERATION/APPROVAL FOR THE SELECTION OF THE MRGCD CONSULTANT & LOBBYIST - Richard DeLoia, Chief Procurement Officer**

Mr. DeLoia stated that requests for proposals were advertised on October 5 and 7, three bid packets were issued to qualified firms, and one RFP was received by the deadline on October 20th. He stated it was awarded to John Thompson for a one year contract with an option of three additional years.

Director Kelly made the **MOTION TO SUPPORT THE STAFF RECOMMENDATION FOR LOBBYIST SERVICES**. Seconded by Director Barbara Baca. The **MOTION CARRIED UNANIMOUSLY**.

**AGENDA ITEM NO. 7 - REPORT(S) FROM THE HUMAN RESOURCES DEPARTMENT**

**a. Introduction of MRGCD New Hires - Christine L. Nardi, MBA**

Christine Nardi shared the names of our newest employees and introduced them if they were in the audience, as well as to advise the Board of some well-deserved promotions.

**Albuquerque Division**

SEVERO	MARTINEZ	FIELD MAINTENANCE TECHNICIAN	10/17/2022
ANTHONY	CASTILLO	FIELD MAINTENANCE TECHNICIAN	10/31/2022
CRUZ	DIAZ	FIELD MAINTENANCE TECHNICIAN	10/31/2022
JARED	CHILIMIDOS JR.	FIELD MAINTENANCE TECHNICIAN	10/31/2022
CYERRAH	CHAVEZ	DIVISION CLERK II	10/31/2022
JOSE	CARO	MEDIUM EQUIPMENT OPERATOR	10/17/2022 PROMOTION
RUEBEN	GUTIERREZ	MEDIUM EQUIPMENT OPERATOR	10/17/2022 PROMOTION
WILLIAM	GARCIA	LIGHT EQUIPMENT OPERATOR	10/17/2022 PROMOTION

**General Office**

ANGEL	MADERA ENRIQUEZ	ENGINEERING INTERN	10/24/2022
ANTHONY	VALADEZ	IRRIGATION SYSTEMS OPERATOR	11/14/2022

**Cochiti Division**

DILLON	DOBBINS AZURE	HEAVY DUTY MECHANIC	11/07/2022
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She also mentioned that Severo Martinez and Jarrod Chilimidos Jr., have family members that either worked here or are currently working here, so it's in the family, and Ruben Gutierrez, his father retired from the District, she felt MRGCD's clearly a great place to work.

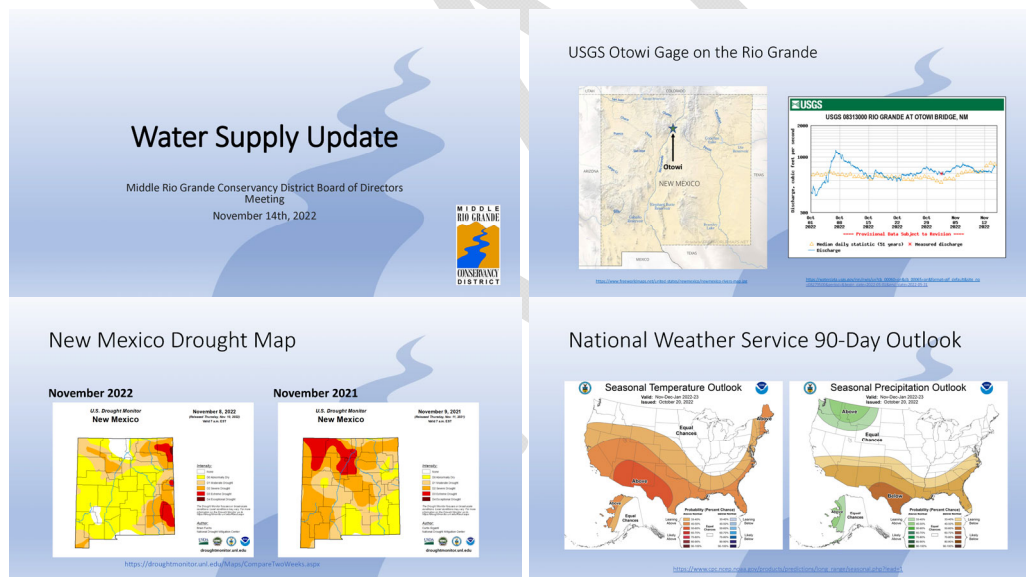
She stated the vacancy rate was at 9%. She thanked the Board for the new proposed pay plan that had a huge impact in hires.

## **AGENDA ITEM NO. 8 - UPDATE ON THE 2022 IRRIGATION SEASON**

### **a. Report on Water Supply Conditions - Anne Marken, Water Ops Division Manager**

Anne Marken stated there was about 800 cubic feet per second at Otowi Gauge above Cochiti Reservoir and steadily climbing storage in Elephant Butte. She said there was currently 18,600 acre-feet of prior and paramount water in Abiquiu and releases of storage of that water to Elephant Butte that would begin November 15th. Ms. Marken added that MRGCD received several late season San Juan Chama allocations, ending the year with 2,500 acre-feet left.

Ms. Marken stated that most of the Rio Grande was either abnormally dry or better, so they would be starting off winter under better drought conditions than last year. She said the 90-day forecast showed above average chances for above average temperatures and below average precipitation through January. She did say even though it was too early to celebrate snowpack conditions, there was 2.7 inches of snow water equivalent in higher elevations.



### **b. Status Report on Water Distribution - Matt Martinez, Water Distribution Division Manager**

Mr. Martinez stated the non-pueblo irrigation season ended on October 31st and water deliveries to pueblos would continue until November 15th. He stated that water use had been low over the past month and diversions were set to provide carriage water for efficient late season irrigation. He said ISOs were transitioning to offseason work which would include several projects and routine maintenance of irrigation facilities. He announced that they did a pilot project to document water deliveries by mobile phone application with the hope to replace paper planners and logbooks. Mr. Martinez thanked the active monsoon season and hoped it would continue by bringing a healthy snowpack in the winter and active rain season in the summer.



Director Kelly asked what the Board and Jason (Casuga) could do to help him do his job better next year. Mr. Martinez stated one of a few, they could do is help fill vacant positions as quickly as possible.

## **AGENDA ITEM NO. 9 - REPORT(S) FROM THE DEPARTMENT OF INTERIOR**

- a. Bureau of Reclamation - Jennifer Faler, Area Manager
- b. Bureau of Indian Affairs - Sandra Lucero, BIA/SWRO/Water Resources

Neither Ms. Faler nor Ms. Lucero were in attendance.

## **AGENDA ITEM NO. 10 - REPORT(S) FROM THE SECRETARY-TREASURER/CFO - Pamela Fanelli, CMA, CGFM**

- a. **Consideration/Approval of Resolution M-11-14-22-196 for Loan Agreement for the Water Trust Board Project No. 5675-WPF; Water Storage, Conveyance and Delivery Project; Socorro Division Conveyance - Pam Fanelli, CFO**

Ms. Fanelli stated this is the loan agreement for the Water Trust Board grant/loan for the Socorro Main Canal concrete lining project. Further explaining the grant portion was \$6,439,500, the loan portion was \$715,500, and the District match portion was \$1,073,250. She said the packet to sign would approve the loan portion of the concrete lining project.

Director Duggins made the **MOTION TO APPROVE THE RESOLUTION M-11-14-22-196 FOR LOAN AGREEMENT AND FOR WATER TRUST BOARD PROJECT NO. 5675-WPF**. Seconded by Chair Russo Baca. The **MOTION CARRIED UNANIMOUSLY**.

Director Kelly stated that the Finance Committee discussed several issues, including the Corrales Siphon Project where they would run the electrical feed. He said they needed to move some things around in the budget but had a good plan for that. He stated they had some new mowers coming. He said they also discussed the five year project schedule and the demand for rehab and renovation projects. Director Kelly said they took a look at the vacation schedule going into next year and decided there would not be a COVID day for people to get vaccinated, considering all that have wanted it had already received it. He said they were looking at flexibility in taking off certain holidays but there would be no increase in paid time off. Jason Casuga added they would be bringing the full holiday schedule to the board next month.

## **AGENDA ITEM NO. 11 - REPORT(S) FROM THE CHIEF ENGINEER - Jason M. Casuga, PE**

- a. **Report on the Belen Highline Alternative Analysis, Eric Zamora, COO and Craig Hoover, Bohannon Huston, Inc.**

Mr. Zamora stated they had contracted with Bohannon Huston, Inc. to undertake the Belen Highline alternative study to protect against storm water flows, improve irrigation efficiency, and provide more flexibility within the system.

Craig Hoover from Bohannon Huston affirmed the project would be located in the Belen area and what they would be trying to accomplish with the study. He stated the project would be considering five tasks. He said they had an alternative workshop where MRGCD staff, Bohannon Huston staff, and Lopez Precision were present to brainstorm ideas of how to best configure the system, where they evaluated the configuration and came up with a scoring

matrix. Mr. Hoover stated Configuration B was the one they would be recommending based on the evaluation. He said they looked at reducing risk, flexibility of the operations, cost, ease of maintenance, how much right of way would be acquired, and ease of design and construction.

Caroline Ogg from Bohannon Huston also added that they assigned a weight to each factor on a 0 to 5 point rating scale and Configuration B scored the highest. She stated they were proposing to divert the majority of the flow out of the Belen Highline Main Canal and upsize the Garcia Acequia south of feeder number three. She said it scored well on operational flexibility, risk reduction, and the lowest probable construction cost, but there would be significant right of way acquisition required and complexity with the design and construction.

Vice Chair Dunning asked if this option is selected and it requires obtaining right of way, does the District have the power of eminent domain to which Ms. Wiggins replied yes they do.

Director Kelly asked if the pressure pipe system would be parallel to the freeway or gravity driven. Ms. Ogg confirmed it would be entirely gravity driven. Jason Casuga added that it would be open channel flow and not in a pipe.

### Belen Highline Main Canal Alternatives Study


Presentation to the  
MRGCD Board  
November 14, 2022

Craig Hoover, P.E.  
Caroline Ogg, P.E.

Bohannon & Huston

### Project Purpose

- Evaluate ways to:
  - Reduce the risk of damage to MRGCD Infrastructure
  - Help ensure consistent and predictable delivery of irrigation water
  - Provide flexible water operations



Bohannon & Huston


### Project Approach

- Identify Water Demand
- Assess Existing Infrastructure
- Create Proposed System Configurations
- Evaluate Configurations
- Recommend Configuration

Bohannon & Huston

### Configurations

- Six Configurations were developed and evaluated
  - Status Quo – leave as-is
  - A-E – proposed rerouting
- Configuration B was recommended



Bohannon & Huston

### Evaluation Criteria

- Risk Reduction
- Operational Flexibility
- Engineer's Opinion of Probable Cost
- Ease of Maintenance
- ROW Acquisition
- Ease of Design/Construction

Bohannon & Huston

### Criteria Weighting & Scale

Criteria	Weight	Rating Scale 0 (minimum) 5 (maximum)	
Risk Reduction	25%	None	Major
Operational Flexibility	24%	Minimal	Efficient
Engineer's Opinion of Probable Cost	18%	Expensive	Economic
Ease of Maintenance	15%	Non-Standard Practices	Standard Practices
ROW Acquisition	9%	Significant	None
Ease of Design/Construction	9%	Difficult	Efficient


Bohannon & Huston

### Evaluation Results

Configuration	Description	Total Weighted Score (out of 5)
Status Quo	No Improvements	1.09
A	Dump Road Lateral, Garcia Acequia	2.79
B	New Belen Wasteway, Garcia Acequia	3.77
C	Dump Road Lateral, I-25 Lateral	2.37
D	New Belen Wasteway, Garcia Acequia, I-25 Lateral	3.10
E	New Belen Wasteway, Lower Arroyos Acequia	3.22

Bohannon & Huston

### Highest: Configuration B – Score 3.77



**Description**

- Diverts majority of flow from BHLHC at NBV
- Upsized Garcia Acequia becomes main conveyance south to Feeder No. 3

**Pros**

- Efficient Operational Flexibility
- Major Risk Reduction
- Lowest Cost (\$2.2m const. cost)
- Requires Standard Maintenance

**Cons**

- Significant ROW Acquisition
- Somewhat Difficult Design/Construction

Bohannon & Huston

**b. Report on the Local Election Act (LEA) Meeting with Maggie Toulouse Oliver, NM Secretary of State, October 12, 2022 - Jason M. Casuga, CE/CEO, Doug Strech, Systems & Data Integration Manager and Directors Joaquin Baca and Barbara Baca**

Mr. Casuga first discussed that the Local Election Act was passed in 2018 to help unify New Mexico elections into a single election day, but special districts, such as MRGCD, were given time to delay the implementation and that implementation was up in July 2022. He stated that now MRGCD would no longer administer their elections, the election date would be moved to November, and MRGCD would be responsible for delivering a qualified elector's list no later than 180 days prior to the election and keep it updated every 30 days up to 90 days prior to the election day. However, he said the definition of qualified electors would remain the same, which are only those persons who have reached the age of majority and for at least six months prior to the election have owned during the entire six month period, real property situated within the district that is subject to Conservancy District appraisals, assessments, levees, and taxes. He stated that the District's qualified elector is still a landowner qualified elector's list and not a registered voter's list.

Mr. Casuga stated they had met with the Secretary of State's office twice and discussed concerns with the complexity and details of merging MRGCD's elections with the Local Election Act. He said that after reviewing MRGCD's concerns, the Secretary of State communicated that it was impossible to have combined database of both registered voters and MRGCD qualified electors by landowner and stated they would need more time to fully implement all elements as it would pertain to MRGCD. He said she also proposed her office would seek development of legislation for the 2023 session for an extension as it would pertain to MRGCD until 2025, delaying full implementation. However, Jason (Casuga) stated they did not quite know what "full" meant as of yet. He recommended the Board to consider and then direct staff to work with the Secretary of State's Office in this development to extend the implementation period.

Director Duggins asked about discussing whether limited liability companies should be able to vote. Vice Chair Dunning added that would fall under MRGCD Rule 20, not the Local Election Act, and that they as a Board should be able to change that without going to the legislature. Lorna Wiggins, Chief Counsel, affirmed that yes, it was under MRGCD Rule 20, but that rule also stated it had to be in accordance with the law.

Director Barbara Baca added the issues were unforeseen complexities when the Local Election Act was passed in 2018, which was why they were given time to work it out. She said they needed to work together with the District, Secretary of State, and the county clerks to move it forward. She added that in November 2023 they were probably looking at consolidated polling places but not a consolidated ballot due to the databases.

Chair Russo Baca added that she agreed they needed to work with the Secretary of State's Office but also needed to clean up Rule 20 in conjunction. Director Duggins also added that changing the date was shrinking the farmer's vote since it would now be in the middle of harvest season.

Director Kelly asked if the District would go with their own election coordinator as done in the past for an election in November 2023 and wondered if that work hasn't dried up with the Local Election Act and are those firms even still in business to conduct an election on behalf of the MRGCD. Jason Casuga didn't know what the outcome of the legislation itself would become of the election. Ms. Wiggins stated that it's not the MRGCDs responsibility to run this election the way the law

currently stands. She also said that extension is based on what the Secretary of State indicated was reasonable. Ms. Wiggins shared his varied questions, but we have been told numerous times that it is simply impossible at this point with the technology to combine who we consider a qualified elector into the Secretary of State's system. Jason Casuga ended with he thinks it will be worthwhile to seek the extension and to have he and his team work with the Secretary of State's Office.

**c. Consideration/Approval of Corrales Siphon PNM 3 Phase Electrical Services Contract - Alicia Lopez, Engineering & Mapping Supervisor and Jason M. Casuga, CE/CEO**

Alicia Lopez discussed the next steps in improving their pump setup at the Corrales Siphon. She stated they received a contract from PNM in the amount of \$473,652.05. She said the contract was for PNM to extend three-phase power to the site with the possibility of putting two 20 CFS pumps where the diesel pumps were located this year. Ms. Lopez said it was anticipated date to be done by March 2023 to be ready for the coming irrigation season. She noted that they explored alternative alignments and came up with 7,300 feet of a residential area, and they would put the transformer near the parking lot on the north side.

Jason Casuga noted that the contract was not a one year thing. He stated that MRGCD put in a Water Trust Board application and heard that it was approved and moving onto the legislative process with hopes of getting that funding. He said he expected the pumping operation by electricity to continue for two more years due to it being very specialized work. He also said that they do not have priority system to prioritize crops, so the number of times and frequency of irrigations was dependent on the amount of water they had coming from the Rio Grande.

Director Dunning asked if it would be cheaper to use electricity. Ms. Lopez said the main benefit is having the electricity there to use in multiple years. The more years we need this, that's when the price becomes more beneficial to go the electric route. Just the cost of the diesel, and then again, the staff time and hardship to run the pumps is where the electric provides the most benefit.

Director Duggins added that he runs irrigation wells and electric was less than half what it cost with diesel. He also asked if other people took advantage of the power line, would some of the money come back to the MRGCD. He stated that it should be easier next season since they would not have the delay of diesel pump maintenance. Mr. Casuga stated he did not believe they would get reimbursed for the power line, but affirmed, yes, they expect the pumps to be significantly easier to run next season.

Director Duggins asked why not leave the pumps there. Director Kelly explained that it was not an engineering issue, but a parody issue. When the siphon was working, the water was coming off the river at Angostura Diversion Dam 20 miles upstream and comes under the Sandia Pueblo. He said in a very dry year, the river would be wet down to Angostura and if they were depending on pumps at that location that would not be good for Corrales.

Director Kelly made the **MOTION TO APPROVE THE CORRALES SIPHON PNM CONTRACT**. Seconded by Director Sandoval. The **MOTION CARRIED UNANIMOUSLY**.

**d. Consideration/Approval of MOU between MRGCD and Valencia County for participation in the USDA-NRCS Watershed Operations Program - Jason M. Casuga, CE/CEO**

Jason Casuga reminded the board that MRGCD pursued a USDA grant under PL-566 project, a watershed study, to help plan, design, and construct arroyo flood control infrastructure. He stated that MRGCD was doing it as part of a settlement agreement and trying to advance it into the region. He said going forward, the USDA would need to see that every agency involved had the legal ability to participate and maintain the works that gets instructed. He said anything pertaining to irrigation, the MRGCD would do, but they needed to have partners that could take on the arroyo flood control infrastructure. Mr. Casuga stated that the MOU was needed to show an agreement between the MRGCD and Valencia County to bring them in. He mentioned that Valencia County would be taking it up at their commission meeting on the 16<sup>th</sup> and it would be helpful to have this to show the board supports their involvement.

Chair Russo Baca made the **MOTION TO APPROVE THE MOU BETWEEN MRGCD AND VALENCIA COUNTY FOR PARTICIPATION IN THE USDA-NRCS WATERSHED OPERATIONS PROGRAM**. Seconded by Director Barbara Baca. The **MOTION CARRIED UNANIMOUSLY**.

**e. Report on the 3<sup>rd</sup> Annual National Latino Farmers & Ranchers Congreso, October 27-30, 2022 - Eric Zamora, COO, Gabriella Coughlin, Agronomist/Agroecologist, Chair Russo Baca, Director Joaquin Baca and Director Barbara Baca**

Eric Zamora stated it was his first experience with the National Latino Farmers & Ranchers Association and was hoping for more discussion farming and ranch issues. He said his key takeaway was the good attendance by the USDA and much discussion on how to open up USDA programs to minority farmers and ranchers. He stated he was able to meet several USDA officials to discuss issues and was told they were looking to improve their services, coordination, and responsiveness to local agencies and individuals.

Chair Russo Baca recognized one of the speakers, Anthony Wagner, who talked about conservation projects and the farm bill. She stated the farm bill would be coming up in 2023 and they needed to keep their eye on it. She enjoyed the day where local school children came in and were able to learn about some of the issues.

Gabriella Coughlin stated one of the benefits of the National Latino Farm & Ranch Association Conference held in Albuquerque, especially at the Isleta Casino, was getting to stare out at the beautiful bosque and Rio Grande. She discussed a teacher from Polk Middle School who brought students to the conference, stating the school had access to a ditch and received USDA funding to be able to create a farm agricultural program to use their ditch and show the long lineage and tradition of flood irrigation in the valley. She said they were looking at ways to deliver water access information to many schools as an opportunity to have more conversations with the Water Authority on how groundwater is used for agriculture.

*Director Dunning noted that Director Sandoval had to leave at this time due to the pueblo curfew.*

**f. Report on the NM Watershed & Dam Owners Coalition 2022 Fall Conference, October 12-14, 2022 - Jason M. Casuga, CE/CEO, Alicia Lopez, Engineering & Mapping Manager, and Chair Russo Baca**

Mr. Casuga stated it was a bittersweet conference because he found out one of their partners, AMAFCA, stole one of their engineers. He said one of the most interesting presentations was on the fire analysis and the overall effect it could have on Bernalillo County as a whole. He noted he was having similar conversations with Bureau of Reclamation, and

others related to the San Juan Chama project basin. He said any significant fire in the San Juan Chama basin would wipe out their ability to receive their yield annually for the project. He was nominated and approved to be added to the New Mexico Dam Owners Steering Committee. He'll now be joining Jerry Lovato (AMAFCA), Chuck Easterling (STANTEC), Zack Libbin (EBID), Andrés Sanchez (SSCAFCA), and a few others.

Chair Russo Baca said the best part was the field trip that they went to the El Cerro Open Space in Los Lunas off Highway 6. She said it was interesting to see how they have prevented huge erosion issues over many years.

**g. Report on the 67<sup>th</sup> Annual NM Water Conference, Las Cruces, October 26-27, 2022 - Jason M. Casuga, CE/CEO, Casey Ish, Water Resources Specialist and Chair Russo Baca**

Mr. Casuga said they faced many of the same challenges they do from a stormwater standpoint, but they had found a partnership between many of the municipalities, the irrigation district, and the Flood Control Commission which helped them be able to operate a little bit better; however, MRGCD does not have that type of flood entity to take the lead. He noted that south of Elephant Butte, they're having discussions about having the arroyo flood events come and spread out onto private property and not necessarily make it back to the river, but north of Elephant Butte, they want water in the channel or arroyo and want it to hit the river due to the Compact.

Chair Russo Baca stated it was a very interesting conference and Jason (Casuga) did great on his presentation. She noted it was a free Zoom conference, so the presentation should possibly be available to watch online.

**h. Report on the Six Middle Rio Grande Pueblos Coalition Meeting, November 3, 2022 - Jason M. Casuga, CE/CEO**

Mr. Casuga said they were in the process of identifying the list for offseason work. He said there was much energy around vegetation maintenance as they got into monsoon season that he reported to the Coalition. He said he assured them that MRGCD had an operator for any operational piece of equipment and was doing its best to keep up. Mr. Casuga said they discussed the current state of where they were with negotiations with BIA. He said his plan was to present it because it was a major financial issue to the Finance Committee but would take Board direction on if they wanted to establish a BIA negotiating committee for him to report to. He also updated the coalition on the Local Elections Act and the coordination with the Secretary of State's Office and vowed to keep them updated.

**i. Report on the Rio Grande Agricultural Land Trust 25<sup>th</sup> Anniversary Celebration and Annual Fundraiser, November 5, 2022 - Jason M. Casuga, CE/CEO, Chair Russo Baca and Directors Barbara Baca and Duggins**

Mr. Casuga thanked Director Duggins for hosting and appreciated the opportunity to get to bring his family and show them what he does. He said MRGCD's investment in the program was worthwhile and believed there was more partnering they could do with RGALT to make sure people understood MRGCD is invested.

Director Duggins stated it was his pleasure to host and was nice to see some of the members, staff and others in a different setting. Ms. Wiggins complimented Director Duggins fans.



Chair Russo Baca stated she had a great time, and her son and husband also enjoyed the event. She said RGALT was a great organization and was nice to have a silent auction.

Director Barbara Baca thanked Director Duggins for hosting the event. She complimented his barn. She felt the Rio Grande Agricultural Land Trust was a phenomenal operation and good to see the video and see people working together for the right thing.

**j. Discussion for Future Informational Meetings - Jason M. Casuga, CE/CEO**

Mr. Casuga said they would hopefully be presenting on some dates to have some of the same farmers meetings they had last year to continue informing people on the new way of moving water around and how that scales when we have lots of water and when it scales down to when we have a little bit of water. He felt it would be a good opportunity to talk about the Local Election Act as well, to engage the community.

**k. Upcoming Events**

**1. Middle Rio Grande Flood Control Association Annual Breakfast, December 13, 2022**

**2. 2023 Environmental Water Leasing and Fallowing Program**

Jason Casuga wanted to let the board know they did present the following program again to the Irrigation Committee with slight modifications to provide more flexibility to farmers who wanted to participate. He said they were going to offer a shortened season for fall irrigators.

**3. Land and Water Summit: Community, Collaboration and Climate Change, March 2-3, 2023**

**4. CRWUA, Colorado River Water Users Association, December 14-16, 2023**

Mr. Casuga stated he was highly encouraged to attend the CRWUA this year with some of the ongoing Colorado River issues. He said he would be attending on December 14th and 15th, and that Casey would be staying until the 16th. He said it was recommended to him as a good place to start learning what was going on.

**5. Family Farm Alliance Conference**

Mr. Casuga stated that MRGCD had attended in the past and thought it was important to go again for him to learn and engage in some of the broader water issues.

**AGENDA ITEM NO. 12 - REPORT(S) FROM THE MRGCD Attorney(s) - Chief Water Counsel or General Counsel**

Tanya Scott presented on behalf of Chuck DuMars who's out of town. She said the only thing on his radar at the moment was Ohkay Owingeh to store some of their water in El Vado to see what they propose.

Ms. Wiggins said she didn't have anything to report at this time.

**AGENDA ITEM NO. 13 - REPORT(S) FROM THE BOARD**

**a. Report on the Mid-Region Counsel of Governments Water Resources Board Meeting, October 5, 2022 - Director Barbara Baca**

Director Barbara Baca didn't have anything to report other than she's now the alternate on this committee. Director Joaquin Baca is our representative on that subcommittee of COG, and when he doesn't attend, she will.

**b. Report on Meeting with Joseph Fickett, Babbitt Center, Perspectives on Ag Water Resilience, October 11, 2022 - Chair Russo Baca**

Chair Russo Baca stated it was a call that Anne Marken also participated in. She said they were asking about some of the biggest water supply issues, and she explained to them that certain irrigators that receive MRGCD water cannot use San Juan Chama water because they're not part of the District. She said they wanted to interview farmers in the valley, so she gave them a list of names, including Director Duggins.

**c. Report on NM Desalination Association, New Water for New Mexico, October 20, 2022 - Chair Russo Baca**

Chair Russo Baca stated they had large pockets of groundwater that was high in saline, so they discussed how to maybe desalinate the water and the technologies to do that to access more water. She said the technology was there, but at a cost, whereas right now their water does not cost anything. It's the delivery or the electricity to get the water.

**d. Report on the Conservation Advisory Committee Meeting, October 24, 2022 - Chair Russo Baca**

Chair Russo Baca said they discussed the river conditions and the leasing program update. She said they would be offering an early open enrollment where they would receive an extra \$50/acre. The first 100 full season applicants to enroll 5 or more acres will also receive a lump sum bonus of \$500 to their contract. She said they would also be offering a partial season option for those interested in just doing a fall crop. She also noted that anyone that has a pre-1907 water right and wanted to enroll would have to prove that up with the State Engineer's Office. The program acreage cap remains the same of 3,200 acres. Chair Russo Baca said they were looking at maybe a 20% match for on-farm efficiencies to ensure an irrigator invested some of their own money.

**e. Report on the Irrigation Committee Meeting, November 2, 2022 - Chair Russo Baca, Director Sandoval and Director Duggins**

Chair Russo Baca reported that this report was similar to the conservation advisory committee meeting regarding the leasing program.

**f. Report on the Legislative Committee Meeting, November 2, 2022 - Director Barbara Baca, Chair Russo Baca and Director Joaquin Baca**

Barbara Baca stated the Mr. Casuga's LEA report summarized where they were in the Legislative Committee, that they would be the group working on the Local Elections Act with the Secretary of State.

599 **g. Report on the Finance & Personnel Committee Meetings, November 14, 2022 -**  
600 **Directors Kelly, Dunning and Barbara Baca**

601  
602 See the report discussed earlier in the meeting.

603  
604 Director Kelly made the **MOTION TO APPROVE ALL THE REPORTS FROM THE**  
605 **BOARD.** Seconded by Chair Russo Baca. The **MOTION CARRIED UNANIMOUSLY.**

606  
607 With no further comments, questions, or concerns, Madam Chair Russo Baca adjourned the  
608 meeting at 5:28 pm.

609  
610 Approved to be the correct Minutes of the Board of Directors of November 14, 2022.

611  
612  
613  
614 **ATTESTED:**

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616  
617  
618  
619 \_\_\_\_\_  
620 Pamela Fanelli, CMA, CGFM  
Secretary/Treasurer

\_\_\_\_\_  
Stephanie Russo Baca, Madam Chair  
MRGCD Board of Directors



**MEMORANDUM  
LICENSING AND LANDS DEPARTMENT**

**F.Y.I.**

TO: Jason M. Casuga, P.E., Chief Executive Officer/Chief Engineer

THRU: Eric Zamora, P.E., Chief Operations Officer

FROM: Rhett Sanders-Spencer, Right-of-Way Specialist

DATE: December 6<sup>th</sup>, 2022

RE: MRGCD Executed Licenses for November 2022

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1. 277-2022—Special Use License with Surveying and Mapping, LLC to conduct professional land surveying services for the purpose of informing the SunZia Transmission Line project.
2. 298-2022—Special Use License with Riverrestoration.org, LLC to perform a hydrographic survey on the Rio Grande along Sandia Pueblo as contracted by the United States Bureau of Reclamation.
3. 304-2022—Special Use License with Lee-Sure Pools, Inc. to use the ditch bank as access road to install a pool on adjacent property within the Corrales Main Canal right-of-way.
4. 308-2022\_AMD2(081-2022) —Amendment of Special Use License No. 081-2022 to extend the expiration date to December 9, 2022.
5. 310-2022—Special Use License with Lopez Precision, LLC to install a culvert and concrete slope paving and riprap channel lining within the Pajarito Lateral right-of-way per license agreement 248-2021.
6. 024-2022—License to access and maintain an existing 16'W X 20'L timber bridge crossing within the Corrales Main Canal right-of-way to serve MRGCD Map 17, Tract A & B Lands of Frances Wood, in care of current owner(s), and its successors or assigns.
7. 039-2022—License to install and maintain a 72" Ø X 60' CMP culvert crossing within the Los Padillas Interior Drain right-of-way to serve MRGCD Map 57 Tract 37B in the care of current owner(s), and its successors, and/or assigns.
8. 166-2022—License with SunZia Transmission, LLC to install and maintain an aerial utility crossing within the Garcia Extension Acequia right-of-way.
9. 167-2022—License with SunZia Transmission, LLC to install and maintain an aerial utility crossing within the Sabinal Lateral No. 1 right-of-way.
10. 168-2022—License with SunZia Transmission, LLC to install and maintain an aerial utility crossing within the Bosque Interior Drain right-of-way.
11. 169-2022—License with SunZia Transmission, LLC to install and maintain an aerial utility crossing within the Sabinal Lateral No. 2 right-of-way.
12. 170-2022—License with SunZia Transmission, LLC to install and maintain an aerial utility crossing within the Luna Interior Drain right-of-way.

13. 174-2022—License with SunZia Transmission, LLC to install and maintain an aerial utility crossing within the San Juan Main Canal right-of-way.
14. 175-2022—License with SunZia Transmission, LLC to install and maintain an aerial utility crossing within the Belen Highline Canal right-of-way.
15. 176-2022—License with SunZia Transmission, LLC to install and maintain an aerial utility crossing within the Garcia Extension Acequia right-of-way.
16. 177-2022—License with SunZia Transmission, LLC to install and maintain an aerial utility crossing within the Sabinal Lateral No. 1 right-of-way.
17. 178-2022—License with SunZia Transmission, LLC to install and maintain an aerial utility crossing within the Bosque Interior Drain right-of-way.
18. 179-2022—License with SunZia Transmission, LLC to install and maintain an aerial utility crossing within the Sabinal Lateral No. 2 right-of-way.
19. 180-2022—License with SunZia Transmission, LLC to install and maintain an aerial utility crossing within the Luna Interior Drain right-of-way.
20. 181-2022—License with SunZia Transmission, LLC to install and maintain an aerial utility crossing within the Belen Highline Canal right-of-way.
21. 183-2022—License with Albuquerque Bernalillo County Water Utility Authority to install and maintain a 6" Ø buried utility line crossing within the Arenal Main Canal right-of-way.
22. 192-2022—License with SunZia Transmission, LLC to install and maintain an aerial utility crossing within the Lands of Les Gibson Tract 4C right-of-way.
23. 214-2022—License with CenturyLink to install and maintain an aerial utility crossing within the Alameda Lateral right-of-way.
24. 246-2022—License with Public Service Company of New Mexico to install and maintain an aerial utility crossing within the Gun Club Lateral right-of-way.
25. 247-2022—License with Public Service Company of New Mexico to remove two (2) existing poles and install and maintain two (2) new 50' class 2 poles and an aerial utility crossing within the outer 5' of the Isleta Interior Drain right-of-way.
26. 248-2022—License with Public Service Company of New Mexico to replace an existing utility pole and maintain an aerial utility crossing within the Gun Club Lateral right-of-way.
27. 249-2022—License with Public Service Company of New Mexico to install and maintain an aerial utility crossing within the Los Padillas Drain right-of-way.
28. 250-2022—License with Public Service Company of New Mexico to install and maintain an aerial utility crossing within the Arenal Main Canal right-of-way.
29. 251-2022—License with Public Service Company of New Mexico to install and maintain an aerial utility crossing within the Isleta Interior Drain right-of-way.
30. 252-2022—License with Public Service Company of New Mexico to install and maintain an aerial utility crossing within the Gun Club Lateral right-of-way.
31. 253-2022—License with Public Service Company of New Mexico to install and maintain an aerial

utility crossing within the Los Padillas Interior Drain right-of-way.

32. 254-2022—License with Public Service Company of New Mexico to install and maintain an aerial utility crossing within the Isleta Interior Drain right-of-way.
33. 255-2022—License with Public Service Company of New Mexico to install and maintain an aerial utility crossing within the Arenal Main Canal right-of-way.
34. 256-2022—License with Public Service Company of New Mexico to install and maintain an aerial utility crossing within the Gun Club Lateral right-of-way.
35. 269-2022—License with Comcast of New Mexico to install and maintain a buried utility crossing within the Beckham Lateral right-of-way.
36. 272-2022—License with Public Service Company of New Mexico to install and maintain a parallel aerial utility within the Isleta Interior Drain right-of-way.
37. 276-2022—Temporary License to allow encroachments to serve MRGCD Map 24, Tract D2A, Lands of Annie Robertson within the westerly outside 15' within the Albuquerque Main Canal right-of-way in the care of current owner(s), and its successors, and/or assigns.
38. 282-2022—License with New Mexico Gas Company to install and maintain a buried utility crossing within the Pajarito Acequia right-of-way.



# Memorandum

**To:** MRGCD Chair Russo-Baca and Board of Directors

**Through:** Jason M. Casuga, Chief Engineer/CEO

**From:** Human Resources

**Date:** December 12, 2022

**Re:** Introduction of New Hires and Promotions

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## **Belen Division**

ERIC	MIRANDA	FIELD MAINTENANCE TECHNICIAN	11/28/2022
JOSHUA	BERNIGER	FIELD MAINTENANCE TECHNICIAN	11/28/2022
ANTHONY	WOODY	FIELD MAINTENANCE TECHNICIAN	11/28/2022
JACOB	LOPEZ	HEAVY EQUIPMENT OPERATOR	11/28/2022 PROMOTION

## **General Office**

ANGEL	MADERA ENRIQUEZ	ENGINEER I	12/12/22 JOB/TITLE CHANGE
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## **Albuquerque Division**

MANUEL	VIGIL	FIELD MAINTENANCE SUPERVISOR	11/28/2022 PROMOTION
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# Memorandum

**To:** Board of Directors  
**From:** Personnel Committee  
**Date:** December 6, 2022  
**Re:** Proposed 2023 MRGCD Holiday Schedule and Flex Federal Holiday

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The Personnel Committee met with the CE/CEO and staff to discuss the MRGCD 2023 Holiday Schedule. Staff is seeking Board approval for the following 2023 Holiday Schedule:

<u>HOLIDAY</u>	<u>APPROVED DATE</u>
New Year's Day (observed)	Monday, January 2
Martin Luther King, Jr. Birthday	Monday, January 16
Memorial Day	Monday, May 29
Independence Day	Tuesday, July 4
Labor Day	Monday, September 4
Veteran's Day (observed)	Friday, November 10
Thanksgiving Day	Thursday, November 23
Day after Thanksgiving Day	Friday, November 24
Christmas Day	Monday, December 25
Day After Christmas Day	Tuesday, December 26

In addition, after the Personnel Committee discussed the option of permitting flexibility for employees to take a personal holiday on a recognized Federal holiday of their choice, the Committee directed staff to grant each eligible MRGCD employee a Flex Federal Holiday for the 2023 Calendar Year. Staff recommends this Flex Federal Holiday be granted to eligible MRGCD employees under the following conditions:

This Flex Federal Holiday must be used for **one** of the following recognized Federal holidays, and must be declared/requested two-weeks in advance for operations planning purposes:

- President's Day, Monday, February 20, 2023
- Juneteenth, Monday, June 19, 2023
- Indigenous Peoples' Day, Monday, October 9, 2023





# Memorandum

**To:** MRGCD Chair Russo Baca and Board of Directors  
Jason Casuga, CEO/CE  
Pam Fanelli, CFO

**From:** Ricardo Varela, Purchasing Agent *RV*

**Date:** November 16, 2022

**Re:** REQUESTING BOARD APPROVAL FOR MACHINE MOWERS

---

MRGCD staff is requesting approval for two (2) Machine Mowers; This was formally bid out in compliance with the NM State Procurement Code. Bid was advertised on 10/28/22 and 10/31/22. Three (3) bid packets were sent out and one bid was received as follows;

<u>VENDOR</u>	<u>MACHINE MOWERS</u>	<u>TOTAL</u>	<u>GRAND TOTAL</u>
ATMAX Equipment Co.	2023 Mower Max Model: MMB	\$258,325.10 EA	\$516,650.20

After thorough review staff is recommending award to the lowest Responsible Bidder, ATMAX Equipment Co.

Albuquerque Division:	\$258,325.10
Belen Division:	\$258,325.10



# Memorandum

**To:** MRGCD Chair Russo Baca and Board of Directors  
Jason Casuga, CE/CEO  
Pam Fanelli, CFO

**From:** Richard DeLoia, Chief Procurement Officer *RD*

**Date:** December 1, 2022

**Re:** Recommendation for Irrigation Pumps Rental Corrales

---

Request for Bid for Irrigation Pumps to supply water to the Corrales Main Canal were advertised on November 10th and November 11th, 2022, four (4) bid packets were issued to pump rental suppliers, and one (1) Bid was received by the deadline 10:00 am on November 22nd, 2022. After thorough review and evaluation, MRGCD staff hereby recommends award of a one-year price agreement contract with the option of three (3) additional years (if needed) between the MRGCD and Rain for Rent. MRGCD Staff will make a final determination on Pumps needed, either Electric or Diesel, in coordination with PNM and their delivery of electricity to the Pump area. Below you will find the proposed costs for the Rentals and associated charges;

## Cost Breakdown:



MIDDLE RIO GRANDE CONSERVANCY DISTRICT  
1931 SECOND STREET, SW  
PO BOX 581  
ALBUQUERQUE, NM 87103  
505-247-0234



**CORRALES PUMPS**  
**DIESEL OPTION**  
**ENGINEERS ESTIMATE & BID TOTALS**

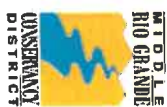
ITEM NO.	DESCRIPTION	QUANTITY	UNIT	MRGCD Estimate		Rain for Rent	
				UNIT COST	TOTAL	UNIT COST	TOTAL
1	DIESEL PUMPS, WITH 20CFS CAPACITY, MANIFOLDED TOGETHER, WITH ALL FITTINGS & STORAGE REQ.	2 EA	MONTH	\$17,932.50	\$36,866.00	\$13,886.49	\$27,772.96
2	SUCTION HOSE / PIPE & INSTALLATION OF HOSE INTO RIVER WITH FISH SCREENS	2	LS	\$9,957.20	\$8,966.96	\$500.44	\$1,000.88
3	INSTALLATION OF 20" DISCHARGE PIPE WITH VALVES, FITTINGS, ELBOWS	400	LF	\$66.40	\$24,560.00	\$12.56	\$5,025.69
4	EROSION PROTECTION FOR DISCHARGE OUTLET		EACH	N/A	N/A	N/A	N/A
5	MOBILIZATION / DEMOBILIZATION	1		\$73,800.00	\$73,800.00	\$31,603.96	\$31,603.96
6	INSTALLATION / REMOVAL OF PUMPS			\$46,312.00	\$46,486.80	\$67,233.00	\$67,233.00
7	500 GALLON DIESEL TANKS FOR FUEL STORAGE FOR REFUELING	2	EACH	\$1,035.00	\$2,070.00	\$833.00	\$1,666.00
8	REFUELING 3 DAYS A WEEK, FRIDAY, SATURDAY & SUNDAY DURING RUNNING SEASON		PER GAL PER DAY	\$7.50	\$8,747.00	\$7.03 PER GAL	\$22,271.04
9	ENVIRONMENTAL FEE		MONTH	N/A	N/A	\$1,152.66	\$1,152.66
10	SERVICES		MONTH	N/A	N/A	\$5,098.04	\$5,098.04

**NOTES:**

1. Line 5: Mobilization & Demobilization includes the following:  
a. Semi Delivery of Pumps & Discharge Piping (From AZ)  
b. Semi Pick Up of Pumps & Discharge Piping (Return to AZ)  
c. Pipeline equipment-2-  
d. Suction Hosing w/screens  
e. Delivery of heavy equipment to install setup



MIDDLE RIO GRANDE CONSERVANCY DISTRICT  
1931 SECOND STREET, SW  
PO BOX 581  
ALBUQUERQUE, NM 87103  
505-247-0234



**CORRALES PUMPS**  
**ELECTRIC OPTION**  
**ENGINEERS ESTIMATE & BID TOTALS**

ITEM NO.	DESCRIPTION	QUANTITY	UNIT	MRGCD Estimate		Rain for Rent	
				UNIT COST	TOTAL	UNIT COST	TOTAL
1	ELECTRIC PUMPS, 200CFS CAPACITY, MANIFOLDED TOGETHER w/ALL FITTINGS & STORAGE REQ.	2 EA	MONTH	\$22,415.63	\$44,831.25	\$20,621.60	\$41,243.20
2	SUCTION HOSE / PIPE & INSTALLATION OF HOSE INTO RIVER WITH FISH SCREENS	2	LS	\$9,952.20	\$19,904.40	\$500.44	\$1,000.88
3	INSTALLATION OF 20" DISCHARGE PIPE WITH VALVES, FITTINGS, EROSION PROTECTION FOR DISCHARGE OUTLET	400	LF	\$86.40	\$34,560.00	\$12.56	\$5,025.69
4	EROSION PROTECTION FOR DISCHARGE OUTLET	1	LS	NA	NA	NA	NA
5	MOBILIZATION / DEMOBILIZATION	1	LS	\$73,800.00	\$73,800.00	\$36,747.96	\$36,747.96
6	INSTALLATION / REMOVAL OF PUMPS	1	LS	\$48,312.00	\$48,312.00	\$67,233.00	\$67,233.00
7	ENVIRONMENTAL FEE		MONTH	NA	NA	\$1,536.29	\$1,536.29
8	SERVICES		MONTH	NA	NA	\$3,730.04	\$3,730.04

- NOTES:
- Line 5: Mobilization & Demobilization includes the following:
    - Semi Delivery of Pumps & Discharge Piping (From AZ)
    - Semi Pick Up of Pumps & Discharge Piping (Return to AZ)
    - Pipeline equipment
    - Suction Hosing w/screens
    - Delivery of heavy equipment to install setup



# Memorandum

**To:** MRGCD Chair Russo Baca and Board of Directors  
Jason Casuga, CEO/CE  
Pam Fanelli, CFO

**From:** Richard DeLoia, Chief Procurement Officer *RD*  
Anne Marken, Water Ops Division Manager

**Date:** December 6, 2022

**Re:** **ABSTRACT FOR AUTOMATION OF GATES**

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## **Project Background:**

The State of New Mexico ended 2021 with a cumulative 127,000 acre-foot Rio Grande Compact debt to Texas. This debt, along with El Vado Dam construction, has prevented MRGCD from storing native Rio Grande water in its upstream reservoir in 2021 and 2022. These restrictions on storage have impacted the ability of MRGCD to reliably meet the needs of irrigators after spring runoff. MRGCD staff believes it is critical to work towards improving deliveries to Elephant Butte so when El Vado construction is completed New Mexico will have reduced its Rio Grande Compact debt enough that MRGCD will be able to store and access native Rio Grande water in El Vado.

The US Bureau of Reclamation (Reclamation) is working on a project that can help increase the amount of water delivered to Elephant Butte reservoir by improving the efficiency of water delivered through the Low Flow Conveyance Channel (LFCC) in the San Acacia reach of the Rio Grande. Reclamation will be constructing an outfall to the river from the LFCC near river mile 60, south of Bosque Del Apache, in the spring of 2023. This outfall to the river is intended to be temporary until a plan to improve the river channel through the Lower San Acacia reach is developed and constructed.

Installing automation, gaging and telemetry on the LFCC outfall project was not a part of Reclamation's original project plans. MRGCD staff believes that automating this project will help to maximize its functionality and efficiency and offered to purchase and install automated actuators, stage and discharge gaging, and telemetry equipment that will tie into MRGCD's existing telemetry system on the LFCC outfall gates. Once the outfall is removed by Reclamation, MRGCD will retain possession of the purchased equipment and can/will be reinstalled on infrastructure within MRGCD's system.

## **Procurement Summary:**

Request for bid for the Automation of Canal Gates was advertised on November 21st and November 23rd, 2022, per NM State Procurement Code. Four (4) Bid packets were issued to Automation Suppliers, and on December 5th, 2022, by the 10:00 am deadline, one (1) bid was received as follows;

<b><u>VENDOR</u></b>	<b><u>TOTAL COST</u></b>
<b>Aqua Systems 2000 Inc.</b>	<b>\$61,450.00</b>

After thorough review, staff is recommending award for Automation of Canal Gates to the Lowest Responsible Bidder, Aqua Systems 2000 Inc. for a grand total amount of \$61,450.00.

1. DATE ISSUED MM/DD/YYYY 06/07/2022		1a. SUPERSEDES AWARD NOTICE dated 02/26/2022 except that any additions or restrictions previously imposed remain in effect unless specifically rescinded	
2. CFDA NO. 15.037 - Water Resources on Indian Lands			
3. ASSISTANCE TYPE Cooperative Agreement			
4. GRANT NO. A21AC10038-03 Originating MCA #		5. TYPE OF AWARD Other	
4a. FAIN A21AC10038		5a. ACTION TYPE Post Award Amendment	
6. PROJECT PERIOD MM/DD/YYYY From 03/01/2021		Through MM/DD/YYYY 02/28/2023	
7. BUDGET PERIOD MM/DD/YYYY From 03/01/2021		Through MM/DD/YYYY 02/28/2023	

NOTICE OF AWARD



AUTHORIZATION (Legislation/Regulations)  
2 CFR, Grants and Agreements, Volume 1, 1-299

8. TITLE OF PROJECT (OR PROGRAM) BIA Middle Rio Grande Conservancy District COOP			
9a. GRANTEE NAME AND ADDRESS MIDDLE RIO GRANDE CONSERVANCY DISTRICT 1931 2nd St SW Albuquerque, NM, 87102-4515		9b. GRANTEE PROJECT DIRECTOR Mr. Mike Hamman 1931 2ND ST SW ALBUQUERQUE, NM, 87102-4515 Phone: [NO PHONE RECORD]	
10a. GRANTEE AUTHORIZING OFFICIAL David Fergeson 1931 2ND ST SW ALBUQUERQUE, NM, 87102 Phone: 111-111-1111		10b. FEDERAL PROJECT OFFICER Mr. JAMES GAPPA 2201 N. 22nd Street Billings, MT, 59101 Phone: 406-247-7468	

ALL AMOUNTS ARE SHOWN IN USD

11. APPROVED BUDGET (Excludes Direct Assistance)				12. AWARD COMPUTATION			
I Financial Assistance from the Federal Awarding Agency Only				a. Amount of Federal Financial Assistance (from item 11m) \$ 1,515,970.86			
II Total project costs including grant funds and all other financial participation				b. Less Unobligated Balance From Prior Budget Periods \$ 0.00			
a. Salaries and Wages .....\$ 0.00				c. Less Cumulative Prior Award(s) This Budget Period \$ 1,112,113.60			
b. Fringe Benefits .....\$ 0.00				d. AMOUNT OF FINANCIAL ASSISTANCE THIS ACTION \$ 403,857.26			
c. Total Personnel Costs .....\$ 0.00				13. Total Federal Funds Awarded to Date for Project Period \$ 1,515,970.86			
d. Equipment .....\$ 0.00				14. RECOMMENDED FUTURE SUPPORT			
e. Supplies .....\$ 0.00				(Subject to the availability of funds and satisfactory progress of the project):			
f. Travel .....\$ 0.00				YEAR TOTAL DIRECT COSTS YEAR TOTAL DIRECT COSTS			
g. Construction .....\$ 0.00				a. 2 \$ d. 5 \$			
h. Other .....\$ 1,515,970.86				b. 3 \$ e. 6 \$			
i. Contractual .....\$ 0.00				c. 4 \$ f. 7 \$			
j. TOTAL DIRECT COSTS → \$ 1,515,970.86				15. PROGRAM INCOME SHALL BE USED IN ACCORD WITH ONE OF THE FOLLOWING ALTERNATIVES:			
k. INDIRECT COSTS \$ 0.00				a. DEDUCTION			
l. TOTAL APPROVED BUDGET \$ 1,515,970.86				b. ADDITIONAL COSTS			
m. Federal Share \$ 1,515,970.86				c. MATCHING			
n. Non-Federal Share \$ 0.00				d. OTHER RESEARCH (Add / Deduct Option)			
				e. OTHER (See REMARKS)			
				16. THIS AWARD IS BASED ON AN APPLICATION SUBMITTED TO, AND AS APPROVED BY, THE FEDERAL AWARDOING AGENCY ON THE ABOVE TITLED PROJECT AND IS SUBJECT TO THE TERMS AND CONDITIONS INCORPORATED EITHER DIRECTLY OR BY REFERENCE IN THE FOLLOWING:			
				a. The grant program legislation			
				b. The grant program regulations.			
				c. This award notice including terms and conditions, if any, noted below under REMARKS.			
				d. Federal administrative requirements, cost principles and audit requirements applicable to this grant.			
				In the event there are conflicting or otherwise inconsistent policies applicable to the grant, the above order of precedence shall prevail. Acceptance of the grant terms and conditions is acknowledged by the grantee when funds are drawn or otherwise obtained from the grant payment system.			

REMARKS (Other Terms and Conditions Attached - ☒ Yes ☐ No)

GRANTS MANAGEMENT OFFICIAL:

Joann Metcalfe, N/A  
1849 C ST NW  
WASHINGTON, DC, 20240  
Phone: 703-390-6410

17. VENDOR CODE	0071318964	18a. UEI	JHDMM3QFH215	18b. DUNS	966691800	19. CONG. DIST.	01
LINE#	FINANCIAL ACCT	AMT OF FIN ASST	START DATE	END DATE	TAS ACCT	PO LINE DESCRIPTION	
4	0051022037-00010	\$403,857.26	05/26/2022	02/28/2023	2100	O&M Services for Irrigation	

NOTICE OF AWARD (Continuation Sheet)

PAGE 2 of 3	DATE ISSUED 06/07/2022
GRANT NO. A21AC10038-03	

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LINE#	FINANCIAL ACCT	AMT OF FIN ASST	START DATE	END DATE	TAS ACCT	PR LINE DESCRIPTION
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NOTICE OF AWARD (Continuation Sheet)

PAGE 3 of 3	DATE ISSUED 06/07/2022
GRANT NO. A21AC10038-03	

Federal Financial Report Cycle			
Reporting Period Start Date	Reporting Period End Date	Reporting Type	Reporting Period Due Date
09/01/2021	02/28/2022	Semi-Annual	03/30/2022
03/01/2022	08/31/2022	Semi-Annual	09/30/2022
09/01/2022	02/28/2023	Final	05/29/2023



# AWARD ATTACHMENTS

MIDDLE RIO GRANDE CONSERVANCY DISTRICT

A21AC10038-03

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1. GENERAL TERMS & CONDITIONS

## General Terms and Conditions

By accepting this agreement, the recipient and its executives, as defined in 2 CFR § 170.315, certify that the recipient's policies are in accordance with the Office of Management and Budget's guidance located at 2 CFR part 200, all applicable Federal laws, and relevant Executive guidance, especially:

- Executive Order on Protecting American Monuments, Memorials, and Statues and Combating Recent Criminal Violence (E.O. 13933);
- Executive Order 14005 on Ensuring the Future is Made in All of America by All of America's Worker; and
- Guidance for Grants and Agreements in Title 2 of the Code of Federal Regulations (2 CFR), as updated in the Federal Register's 85 FR 49506 on August 13, 2020, particularly on:
  - Prohibiting the purchase of certain telecommunication and video surveillance services or equipment in alignment with section 889 of the National Defense Authorization Act of 2019 (Pub. L. No. 115—232) (2 CFR part 200.216),
  - Promoting the freedom of speech and religious liberty in alignment with Promoting Free Speech and Religious Liberty (E.O. 13798) and Improving Free Inquiry, Transparency, and Accountability at Colleges and Universities (E.O. 13864) (§§ 200.300, 200.303, 200.339, and 200.341),
  - Providing a preference, to the extent permitted by law, to maximize use of goods, products, and materials produced in the United States (2 CFR part 200.322), and
  - Terminating agreements in whole or in part to the greatest extent authorized by law, if an award no longer effectuates the program goals or agency priorities (2 CFR part 200.340).

### **1. MODIFICATION AND TERMINATION**

- a. Pursuant to 2 C.F.R. § 200.308, certain types of post-award programmatic and budget changes require prior written approval from the Bureau Grant Agreement Officer.
- b. The terms of this Grant Agreement may be modified only by written agreement of the Parties through their duly authorized representatives. Notwithstanding the foregoing, the Bureau may make changes to this Grant Agreement by means of a unilateral modification to address administrative matters, such as changes in address, no-cost time extensions at the Recipient's request, remove or de-obligation of excess funds during closeout of the Grant Agreement, provided that no unilateral modification will in any matter change any material term of the Grant Agreement.

- c. Pursuant to 2 C.F.R. § 200.339, either Party may terminate the Grant Agreement prior to the period of performance end date listed in this section.
- d. Pursuant to 2 C.F.R. § 200.343, the Bureau will close-out the Grant Agreement when it determines that all applicable administrative actions and all required work has been completed.

## **2. PAYMENTS**

All domestic financial assistance award payments/disbursements shall be made using a US-based financial institution. Payments shall be made using the Automated Standard Application for Payments (ASAP), a system administered by the Department of the Treasury.

- a. ASAP. A recipient must be registered with the Bureau of Indian Affairs in ASAP. All payments under this Grant Agreement will be made by electronic funds transfer through the Treasury Financial Management Service, Automated Standard Application for Payments (ASAP) site is [http://www.fiscal.treasury.gov/fsservices/gov/pmt/asap/asap\\_home.html](http://www.fiscal.treasury.gov/fsservices/gov/pmt/asap/asap_home.html).
- b. Invoice. The Recipient will submit all official invoices to the Bureau Project Officer not more than once per month.
- c. System for Award Management. All payments will be deposited in the banking information designated by the Recipient in the System for Award Management (SAM).

## **3. APPLICABLE REGULATIONS AND OTHER PROVISIONS**

The Recipient shall be subject to the following administrative, cost principles, and single audit requirements found in financial assistance regulations. Copies of these regulations can be obtained by visiting the Electronic C.F.R. website.

- a. Institutions of Higher Education, State and Local Governments , Tribal Governments, and Non-Profit Organizations
  - i. 2 C.F.R. part 200 Uniform Administrative Requirements, Cost Principles and Audit Requirements for Federal Awards
    - 1. 2 C.F.R. subpart A, Acronyms and Definitions
    - 2. 2 C.F.R. subpart B, General Provisions
    - 3. 2 C.F.R. subpart C, Pre-Federal Award Requirements and Contents of Federal Awards
    - 4. 2 C.F.R. subpart D, Post Federal Award Requirements
    - 5. 2 C.F.R. subpart E, Cost Principles
    - 6. 2 C.F.R. parts 200.416 and 200.417, Special Cost Considerations for State, Local Governments, and Indian Tribes

7. 2 C.F.R. parts 200.418 and 200.419, Special Cost Considerations for Institutions of Higher Education
8. 2 C.F.R. subpart F, Audit Requirements parts 200.501 to 200.512
- ii. 2 C.F.R. parts 1402.103, 1402.112, 1402.113 and 1402.315 Financial Assistance Interior Regulation.
- iii. Publications – Results of any project carried out under a financial assistance award are to be published in professional journals, trade magazines, or publications otherwise made by the DOI. Such manuscripts or publications submitted to journals or professional books for publication shall be accompanied by the following notation: Submission of this manuscript for publication with the understanding that the United States Government is authorized to reproduce and distribute reprints for Governmental purposes. Publishers are required to send copies, whether they be in print or electronic format (CD-ROM, DVD). Materials born digitally and not produced in print or a tangible electronic format like a CD-ROM or DVD must send a link to the digital document. The address of the library is: U.S. Department of the Interior, Natural Resources Library, Division of Information and Library Services, Gifts and Exchange Section, 18th and C Streets, NW. Washington, DC 20240. For additional information please visit the website for the Natural Resources Library.
- iv. Indirect Costs Proposals
  1. Appendix III to 2 C.F.R. part 200 – Indirect (F&A) Costs Identification and Assignment, and Rate Determination for Institutions of Higher Education (IHEs)
  2. Appendix IV to 2 C.F.R. part 200 – Indirect (F&A) Costs Identification and Assignment, and Rate Determination for Nonprofit Organizations
  3. Appendix V to 2 C.F.R. part 200 – State/Local Government and Indian Tribe Wide Central Service Cost Allocation Plans
  4. Appendix VI to 2 C.F.R. part 200 – Public Assistance Cost Allocation Plans
  5. Appendix VII to 2 C.F.R. part 200 – States and Local Government and Indian Tribe Indirect Cost Proposals
- b. 2 C.F.R. § 25 Central Contractor Registration and Data Universal Numbering System (Appendix A)
- c. 2 C.F.R. § 474 Travel Costs (Appendix A and B) See ATTACHMENT A.
- d. Recipient Employee Whistleblower Rights and Requirements to Inform Employees of Whistleblower Rights pursuant to the 2013 National Defense Authorization Act, P.L. 112-239.

- i. This Grant Agreement award and employees working on this Grant Agreement award will be subject to the whistleblower rights and remedies in the pilot program on Award Recipient employee whistleblower protections established at 41 U.S.C. 4712 by section 828 of the National Defense Authorization Act for Fiscal Year 2013 (P.L. 112- 239)
  - ii. The Recipient shall inform its employees in writing, in the predominant language of the workplace, of employee whistleblower rights and protections under 42 U.S.C. 4712.
- e. Conflict of Interest Provisions (a)-(f).
  - (a) Applicability.
    - (1) This section intends to ensure that non-Federal entities and their employees take appropriate steps to avoid conflicts of interest in their responsibilities under or with respect to Federal assistance agreements.
    - (2) In the procurement of supplies, equipment, construction, and services by recipients and by subrecipients, the conflict of interest provisions in 2 CFR 200.318 may apply.
  - (b) Requirements.
    - (1) Non-Federal entities must avoid prohibited conflicts of interest, including any significant financial interests that could cause a reasonable person to question the recipient's ability to provide impartial, technically sound, and objective performance under or with respect to a Federal financial assistance agreement.
    - (2) Non-Federal entities, including applicants for financial assistance awards, must disclose in writing any conflict of interest to the DOI awarding agency or pass-through entity in accordance with 2 CFR 200.112, Conflicts of Interest. conflicts of interest, no key official of an actual or proposed recipient or subrecipient, who is substantially involved in the proposal or project, may have been a former Federal employee who, within the last one (1) year, participated personally and substantially in the evaluation, award, or administration of an award with respect to the recipient or subrecipient or in development of the requirement leading to the funding announcement.
    - (3) No actual or prospective recipient or subrecipient may solicit, obtain, or use non-public information regarding the evaluation, award, or administration of an award to that recipient or subrecipient or the development of a Federal financial assistance opportunity that may be of competitive interest to that recipient or subrecipient.
  - (c) Notification.

(1) Non-Federal entities, including applicants for financial awards, must disclose in writing any conflict of interest to the DOI awarding agency or pass-through entity in accordance with 2 CFR 200.112, Conflicts of Interest.

(2) Recipients must establish internal controls that include, at a minimum, procedures to identify, disclose, and mitigate or eliminate identified conflicts of interest. The recipient is responsible for notifying the Financial Assistance Officer in writing of any conflicts of interest that may arise during the life of the award, including those that have been reported by subrecipients.

(d) Restrictions on Lobbying. Non-Federal entities are strictly prohibited from using funds under this Grant Agreement or Grant Agreement for lobbying activities and must provide the required certifications and disclosures pursuant to 43 CFR Part 18 and 31 USC 1352.

(e) Review Procedures. The Financial Assistance Officer will examine each conflict of interest disclosure on the basis of its particular facts and the nature of the proposed Grant Agreement or Grant, and will determine whether a significant potential conflict exists and, if it does, develop an appropriate means for resolving it.

(f) Enforcement. Failure to resolve conflicts of interest in a manner that satisfies the Government may be cause for termination of the award. Failure to make required disclosures may result in any of the remedies described in 2 CFR 200.338, Remedies for Noncompliance, including suspension or debarment (see also 2 CFR § 180).

Notwithstanding the provisions of § 200.444 General costs of government, travel costs of officials covered by that section are allowable with the prior written approval of the Federal awarding agency or pass-through entity when they are specifically related to the Federal award. (b) Lodging and subsistence. Costs incurred by employees and officers for travel, including costs of lodging, other subsistence, and incidental expenses, must be considered reasonable and otherwise allowable only to the extent such costs do not exceed charges normally allowed by the non-Federal entity in its regular operations as the result of the non-Federal entity's written travel policy. In addition, if these costs are charged directly to the Federal award documentation must justify that: (1) participation of the individual is necessary to the Federal award; and (2) The costs are reasonable and consistent with non-Federal entity's established travel policy.

f. Other Provisions

- i. Privacy Act. The Privacy Act, 5 U.S.C. § 552a, applies to all activities under this Grant Agreement and the Recipient agrees to protect personally identifiable information and other privileged and confidential information as defined under that Act and other applicable federal laws. In order to receive access to personally identifiable information, the Recipient's staff must sign a non-disclosure agreement and take Privacy Act and information security training.
- ii. Non-Exclusive Agreement. This Grant Agreement in no way restricts the Bureau from entering into similar agreements, or participating in similar activities or arrangements, with other tribes, public or private agencies, organizations, or individuals.
- iii. Survival. Any and all provisions which, by their nature, are reasonably expected to be performed after the expiration or termination of this Grant Agreement shall survive and be enforceable after the expiration or termination of this Grant Agreement. Any and all liabilities, actual or contingent, which have arisen during the term of and in connection with this Grant Agreement shall survive the expiration or termination of this Grant Agreement.
- iv. Partial Invalidity. If any provision of this Grant Agreement shall, to any extent, be held invalid or unenforceable by a court of competent jurisdiction, the remainder of this Grant Agreement shall not be affected thereby and each provision of this Grant Agreement shall be valid and be enforced to the fullest extent permitted by law.
- v. No Employment Relationship. This Grant Agreement is not intended to and shall not be construed to create an employment relationship between the Department or any bureau thereof and the Participating Tribe or its members, employees or contractors. No Participating Tribe or its member, employee or contractor shall perform any function or make any decision reserved by law or policy to the federal government.
- vi. No Third-Party Rights. This Grant Agreement creates enforceable obligations between only the Department and the Participating Tribe. Except as expressly provided herein, it is not intended nor shall it be construed to create any right of enforcement by or any duties or obligation in favor of persons or entities not a party to this Grant Agreement.
- vii. Captions and Headings. The captions, headings, article numbers and paragraph numbers appearing in this Grant Agreement are inserted only as a matter of convenience and in no way shall be construed as defining or limiting the scope or intent of the provisions of this Grant Agreement in any way affecting this Grant Agreement.

- viii. Conflict. In the event of a conflict between any information contained in the Grant Agreement Application and the Grant Agreement, and the Status Report shall prevail.

#### **4. STATUTE AND REGULATION REQUIREMENTS**

The following statutory and national policy requirements apply to individuals and non-Federal entities, including foreign public entities and foreign organizations, unless otherwise described in this section.

- a. 2 CFR part 25 Unique Entity Identifier – Unless exempted from this requirement under 2 CFR 25.110, the recipient must maintain the currency of their information in the System for Award Management (SAM) until submission of their final financial report required under this award or receipt of final payment, whichever is later. The recipient must notify potential subrecipients of the requirement to provide its unique entity identifier. The requirements in this part do not apply to individuals or any entity with a qualifying condition and exempted by the awarding bureau or office before award per 2 CFR §25.110(d) and bureau or office policy.
- b. 2 CFR part 170 Reporting Subawards and Executive Compensation – Unless the recipient is exempt from this award term, the recipient must report each action that obligates \$25,000 or more in federal funds for a sub-award to an entity. The recipient must report each obligating action to the Federal Funding Accountability and Transparency Act Subaward Reporting System. No later than the end of the month following the month in which the obligation was made. Recipients must report executive total compensation described in paragraph (b)(1) of this award term as part of your SAM registration profile by the end of the month following the month in which this award is made, and annually thereafter. Recipients must include the award term at paragraph c. concerning reporting of subrecipient total executive compensation in subaward agreements. This rule applies to all other awards with a total Federal share of more than \$500,000. It does not apply to individuals.
- c. 2 CFR part 175 Award Term for Trafficking in Persons – Applies to private entities as defined in 2 CFR §175.25(d) and awards to States, local governments, Indian tribes or foreign public entities, if funding could be provided under the award to a private entity as a subrecipient.
- d. 2 C.F.R. part 200 Appendix XII Recipient Integrity and Performance Matters (FAPIS) – Applies to awards with a total federal share of more than \$500,000.
- e. 2 C.F.R. part 1400 Nonprocurement Debarment and Suspension – A person or entity who is debarred or suspended is excluded from activities involving Federal financial and nonfinancial assistance and benefits. Recipients of DOI financial assistance (See exceptions in part 1400.215 to "primary covered transactions"),



are required to determine whether it or any of its principals (as defined in 2 C.F.R. part 180.995) is excluded or disqualified from participating in a covered transaction (i.e., grant or Grant Agreement) prior to entering into the covered transaction, i.e., prior to the drawdown of funds which signals acceptance of the grant award. Individuals and entities excluded from receiving government financial assistance and contracts are can be found on the GSA's System for Award Management website.

- f. 2 C.F.R. part 1401 Requirements for Drug-Free Workplace – Under the Drug-Free Workplace Act of 1988, 41 U.S.C. parts 701-707 a drug-free workplace policy is required for any organizations receiving a federal financial assistance award of any size. At a minimum, such organizations must:
  - i. Prepare and distribute a formal drug-free workplace policy statement.
  - ii. Establish a drug-free awareness program.
  - iii. Ensure that all employees working on the federal contract understand their personal reporting obligations.
  - iv. Take direct action against an employee convicted of a workplace drug violation.
  - v. Maintain an ongoing good faith effort to meet all the requirements of the Drug-Free Workplace Act throughout the life of the award. This rule does not apply to foreign public entities or foreign organizations.
- g. 43 C.F.R. part 18 New Restrictions on Lobbying – The Authorized Representative's signature on the application submitted to the DOI bureau or offices certifies to the statements in 43 C.F.R. part 18, Appendix A Certification Regarding Lobbying. These provisions prohibit the use of Federal funds for lobbying the executive or legislative branches of the Federal government in connection with an award, and require disclosure of the use of non-Federal funds for lobbying (31 U.S.C. part 1352). Any recipient (See Definition in 43 C.F.R. part 18.105(o)) that requests or receives (31U.S.C. part 1352(2)(b) more than \$100,000 in Federal funding and has made or agrees to make any payment using non-appropriated funds for lobbying in connection with a proposal or award shall submit a completed Form SF-LLL, "Disclosure of Lobbying Activities," regarding the use of non-Federal funds for lobbying. The Form SF-LLL shall be submitted at the end of each calendar quarter in which there occurs any event that requires disclosure or that materially affects the accuracy of the information contained in any disclosure form previously filed. Recipient includes all contractors and subgrantees at any tier of the recipient of funds received in connection with a Federal grant, loan, or Grant Agreement. These restrictions do not apply to an Indian tribe, tribal organization, or any other Indian organization with respect to expenditures specifically permitted by other Federal law. Please

visit 43 C.F.R. part 18.110 Certification and Disclosure Requirements for more information.

- h. 41 U.S.C. part 4712 Enhancement of Recipient and Subrecipient Employee Whistleblower Protection – Applies to all awards over the simplified acquisition threshold (currently \$250,000).
- i. 41 U.S.C. part 6306 Prohibition on Members of Congress Making Contracts with Federal Government – No member of or delegate to the United States Congress or Resident Commissioner shall be admitted to any share or part of this award, or to any benefit that may arise therefrom; this provision shall not be construed to extend to an award made to a corporation for the public's general benefit.
- j. Section 743 of Division E Title VII of Pub. L. 113-235 Prohibition on Issuing Financial Assistance Awards to Entities that Require Certain Internal Confidentiality Agreements
- k. 42 U.S.C. part 2000(d) Title VI of the Civil Rights Act of 1964, and the DOI implementing regulations published at 43 C.F.R. part 17 and Special Regulations at 43 C.F.R. part 4.800 prohibiting discrimination on the grounds of race, color, or national origin under programs or activities receiving Federal financial assistance.
- l. 20 U.S.C. part 1681 Title IX of the Education Amendments of 1972, and DOI implementing regulations published at 43 C.F.R. part 41.100 prohibiting discrimination on the basis of sex in Federally assisted education programs or activities.
- m. 42 U.S.C. part 12101 The Americans with Disabilities Act of 1990 – Prohibits discrimination on the basis of disability under programs, activities, and services provided or made available by State and local governments or instrumentalities or agencies thereto, as well as public or private entities that provide public transportation. Section 504 of the Rehabilitation Act of 1973, as amended 29 U.S.C. part 794, and the DOI implementing regulations published at 43 C.F.R. part 17 subpart B prohibiting discrimination on the basis of handicap under any program or activity receiving or benefiting from Federal financial assistance.
- n. 41 C.F.R. parts 101-19.6 Accessibility Standards – For purposes of complying with the standards set forth in non-federal entities must adhere to the regulations, published by the U.S. Department of Justice, implementing Title II of the Americans with Disabilities Act (ADA) 28 C.F.R. part 35; and Title III of the ADA 28 C.F.R. part 36. The revised regulations adopted new enforceable accessibility standards called the “2010 ADA Standards for Accessible Design,” which replace and supersede the former Uniform Federal Accessibility Standards for new construction and alteration projects.
- o. 42 U.S.C part 6101 The Age Discrimination Act of 1975, and DOI implementing regulations published at 43 C.F.R. parts 17.300-17.339 unless an exception

applies in 43 C.F.R. part 17.302, the rule prohibits discrimination on the basis of age in programs or activities receiving Federal financial assistance.

- p. 42 U.S.C. part 2000(e) Title VII of the Civil Rights Act of 1964 – Generally prohibits employers from discriminating against employees on the basis of religion. Title VII prohibits discriminatory treatment of employees on the basis of their religious beliefs and requires employers to make reasonable accommodations for employees’ religious practices. Religious organizations, however, may be exempt from some of the prohibitions of Title VII.
- q. Executive Order No. 11,246, 1965 Equal Employment Opportunity – Requires federally assisted construction contracts to include the nondiscrimination provisions of parts 202 and 203 of Executive Order No. 11,246 and Department of Labor regulations implementing at 41 C.F.R. part 60-1.4(b).
- r. Executive Order No. 12,432. 1983 Minority Business Enterprise Development– Encourages recipients to utilize minority business enterprises in the performance of the award. When contracting for any supplies, services, research, or construction under the award, the recipients must make their best efforts to solicit bids, proposals, or quotations from minority business enterprises. A minority business enterprise is defined as a business that is at least 51 percent owned by one or more minority individuals, or in the case of any publicly owned business, at least 51 percent of the voting stock is owned by one or more minority individuals. The daily business operations are likewise managed by a minority owner. A minority individual is defined as a U.S. citizen who has been subjected to racial or ethnic prejudice or cultural bias because of his or her identity as a member of this group without regard to his or her individual qualities. Such groups include, but are not limited to: Black [African] Americans, Hispanic Americans, Native Americans, and AsianPacific Americans.
- s. Executive Order No. 13,043, 1997 Increasing Seat Belt Use in the United States – Non-Federal entities are encouraged to adopt and enforce on-the-job seat belt policies and programs for their employees and contractors when operating company-owned, rented, or personally owned vehicles. Individuals are encouraged to use seat belts while driving in connection with award activities.
- t. Executive Order No. 13,513, 2009 Federal Leadership on Reducing Text Messaging While Driving Non-Federal entities are encouraged to adopt and enforce policies that ban text messaging while driving company-owned, government-rented vehicles or while driving privately-owned vehicles in connection with award activities.
- u. Sec. 5. Requirements for Federal Grants. The heads of all agencies shall review their respective grant programs and identify programs for which the agency may, as a condition of receiving such a grant, require the recipient to certify that it will not use Federal funds to promote the concepts that

- i. (a) one race or sex is inherently superior to another race or sex;
- ii. (b) an individual, by virtue of his or her race or sex, is inherently racist, sexist, or oppressive, whether consciously or unconsciously;
- iii. (c) an individual should be discriminated against or receive adverse treatment solely or partly because of his or her race or sex;
- iv. (d) members of one race or sex cannot and should not attempt to treat others without respect to race or sex;
- v. (e) an individual's moral character is necessarily determined by his or her race or sex;
- vi. (f) an individual, by virtue of his or her race or sex, bears responsibility for actions committed in the past by other members of the same race or sex;
- vii. (g) any individual should feel discomfort, guilt, anguish, or any other form of psychological distress on account of his or her race or sex; or
- viii. (h) meritocracy or traits such as a hard work ethic are racist or sexist, or were created by a particular race to oppress another race. Within 60 days of the date of this order, the heads of agencies shall each submit a report to the Director of the Office of Management and Budget (OMB) that lists all grant programs so identified.

## **5. DATA AVAILABILITY**

- a. Applicability. The Department of the Interior is committed to basing its decisions on the best available science and providing the American people with enough information to thoughtfully and substantially evaluate the data, methodology, and analysis used by the Department to inform its decisions.
- b. Use of Data. The regulations at 2 CFR 200.315 apply to data produced under a Federal award, including the provision that the Federal Government has the right to obtain, reproduce, publish, or otherwise use the data produced under a Federal award as well as authorize others to receive, reproduce, publish, or to otherwise use such data for Federal purposes.
- c. Availability of Data. The recipient shall make the data produced under this award and any subaward(s) available to the Government for public release, consistent with applicable law, to allow meaningful third party evaluation and reproduction of the following:
  - i. The scientific data relied upon;
  - ii. The analysis relied upon; and
  - iii. The methodology, including models, used to gather and analyze data.

## **6. REMEDIES FOR NONCOMPLIANCE**

Pursuant to 2 C.F.R. § 200.338, if the Recipient fails to comply with any term of this

Grant Agreement, whether stated in a Federal statute or regulation, an assurance, recital, or elsewhere, the Bureau may take one or more of the following actions, as appropriate in the circumstances:

- a. Temporarily withhold cash payments pending correction of the deficiency by the Recipient;
- b. Disallow (that is, deny both use of funds and matching credit for) all or part of the cost of the activity or action not in compliance;
- c. Wholly or partly suspend or terminate the current award;
- d. Initiate suspension or debarment proceedings;
- e. Withhold further awards for the program; and/or
- f. Take other remedies that may be legally available.

Pursuant to 2 C.F.R. § 200.341, upon taking any remedy for non-compliance, the Recipient will have an opportunity for such hearing, appeal, or other administrative proceeding to which the Recipient is entitled under any statute or regulation applicable to the action involved.

## **7. AGENCY AND TORT LIABILITY**

The Recipient is not an agent or representative of the United States, and neither the Bureau nor the Recipient will represent the Recipient as such to third parties. Bureau employees are not agents of the Recipient and will not act on behalf of the Recipient. Employees of the Recipient are not agents of the Bureau and will not act on behalf of the Bureau. Members and employees of the Recipient are not considered U.S. Government employees, officers, or agents, and are not covered under the Federal Tort Claims Act, 28 U.S.C. 2671 et seq., or the Federal Employee Compensation Act, 5 U.S.C. 8101 et seq.

## **8. ENDORSEMENTS**

- a. The Recipient shall not publicize or otherwise circulate, promotional material, such as advertisements, sales brochures, press releases, speeches, still and motion pictures, articles, manuscripts or other publications, which states or implies governmental, Departmental, bureau, or government employee endorsement of a product, service, or position which the Recipient represents. No release of information relating to this Grant Agreement may state or imply that the Government approves of the Recipient's work products, or considers the Recipient's work product to be superior to other products or services.
- b. All information submitted for publication or other public releases of information regarding this award shall carry the following disclaimer: The views and conclusions contained in this document are those of the authors and should not be interpreted as representing the opinions or policies of the U.S. Government.

Mention of trade names or commercial products does not constitute their endorsement by the U.S. Government.

- c. The Recipient must obtain prior Government approval for any public information releases concerning this Grant Agreement or award which refer to the Department of the Interior or any bureau or employee by name or title. The specific text, layout, photographs, etc. of the proposed release must be submitted with the request for approval.
- d. The Recipient agrees to include this provision in a sub-award to all subrecipients, except for a sub-award to a State government, a local government, or to a federally recognized Indian tribal government.

## **9. RETENTION AND ACCESS REQUIREMENTS FOR RECORDS**

Pursuant to 2 C.F.R. § 200.333, the Recipient shall maintain and make available for access all financial and programmatic records, supporting documents, statistical records, and other records pertinent to this Grant Agreement.

## **10. AUDIT REQUIREMENTS**

Pursuant to 2 C.F.R. § 200, Subpart F – Audit Requirements, if the Recipient expends \$750,000 or more during the Recipient's fiscal year in Federal awards, the Recipient must have a single or program-specific audit conducted for the year in accordance with Subpart F.

## **11. INDIAN PREFERENCE PROGRAM**

Pursuant to DOI Acquisition Regulation (DIAR) Part 1426 – Other SocioEconomic Programs, it is Indian Affairs (IA) policy to place a fair share of purchases with Indian-owned economic enterprises. IA is strongly committed to the objectives of this policy and encourages all Federal financial assistance recipients to take affirmative steps to ensure such fairness, including the following:

- a. Ensure that Indian owned businesses are used to the fullest extent practicable;
- b. Make information on forthcoming opportunities available and arrange time frames for purchases and contracts to encourage and facilitate participation by Indian owned businesses;
- c. Consider in the contract process whether firms competing for larger contracts intend to subcontract with Indian owned businesses;
- d. Encourage contracting with consortiums of Indian owned businesses when a contract is too large for one of these firms to handle individually; and
- e. Use the services and assistance, as appropriate, of such organizations as the Small Business Development Agency in the solicitation and utilization of Indian owned.



# ISLETA DRAIN + TRAIL PLAN

*December 2022*

PREPARED FOR:



PREPARED BY:



**WILSON  
& COMPANY**

# ACKNOWLEDGMENTS

The planning and design team would like to thank the staff, elected officials and hundreds of South Valley neighbors who contributed their time, ideas and guidance to the creation of the Isleta Drain + Trail Plan. We hope that this plan is an accurate reflection of your vision for a future asset within the community.

## TECHNICAL REVIEW TEAM

Richard Meadows, Technical Planning Manager, Bernalillo County  
Yasmeen Najmi, Planner, Middle Rio Grande Conservancy District  
Nolan Bennett, Field Engineer, Albuquerque Metropolitan Arroyo Flood Control Authority  
Willie West, Real Estate Manager, Albuquerque Metropolitan Arroyo Flood Control Authority

## COMMUNITY ORGANIZATIONS

Center for Social Sustainable Systems  
South Valley Regional Association of Acequias  
South Valley Coalition of Neighborhood Associations  
Atrisco Viejo Neighborhood Association  
Vecinos del Bosque Neighborhood Association  
Foothills Neighborhood Association  
Blake Road Neighborhood Association  
Southside Farms Neighborhood Association  
Pajarito Village Association  
Los Padillas Neighborhood Association  
Greater ABQ Recreational Trails Committee  
Greater ABQ Active Transportation Committee

## STAFF AND ELECTED OFFICIALS

District 2 - Commissioner Quezada and Staff  
Staff at South Valley Public Library  
Staff at the South Valley Senior Multipurpose Center  
Bernalillo County Sheriff Department, Community Services

## CONSULTANTS

Sites Southwest  
Wilson and Company



# CONTENTS

## 1 PROJECT OVERVIEW

## 2 EXISTING CONDITIONS

## 3 PREFERRED ALIGNMENT

## 4 IMPLEMENTATION RECOMMENDATIONS



*The Isleta Drain is a 13-mile drainage channel and potential recreation and trail corridor running from Central Avenue south to I-25. It was constructed by the Middle Rio Grande Conservancy District (MRGCD) in the 1930s to drain lands with high water tables and return unused irrigation water back to the Rio Grande, paving the way for increased cultivation and development in the South Valley.*





# 1 PROJECT OVERVIEW







# OVERVIEW

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The Isleta Drain is a nearly 13-mile drainage channel and potential recreation corridor running from Central Avenue south to I-25. It was constructed by the Middle Rio Grande Conservancy District (MRGCD) in the 1930s to drain lands with high water tables and return unused irrigation water back to the Rio Grande. The drain is still used for these purposes and to help route stormwater to the Rio Grande. Like many of the acequias and drains in the South Valley, people have used the Isleta Drain for decades as informal paths for walking, biking, horseback riding and connecting to destinations in the community.

The Isleta Drain is an important part of the water management infrastructure in the South Valley. It is now jointly managed and maintained by MRGCD, the Albuquerque Metropolitan Arroyo Flood Control Authority (AMAFCA) and Bernalillo County who work with residents to make sure this drain continues to serve the surrounding area for stormwater flood control and irrigation drainage purposes.

In addition to providing flood control and directing water back to the Rio Grande, this channel provides a convenient corridor through the heart of the community. It meanders through a diverse set of environments, from semi-urban

neighborhoods to rural stretches of farmland. A goal of this plan is to highlight the different conditions and interests along the corridor and work with community members to envision the Isleta Drain and proposed trail as a celebrated community asset. Additional priorities include:



Provide residents a functional corridor to connect to community destinations



Allow access to nature and wildlife viewing



Create a trail for recreation and exercise



Grow quality of life for residents through the development of gathering spaces



Foster a sense of stewardship for our shared water systems

## PHYSICAL CONTEXT

The Isleta Drain runs through the heart of the South Valley, beginning just north of Central Avenue – historic Route 66 – extending south to I-25 and the Isleta Pueblo beyond. The drain runs first through primarily residential areas, crossing commercial corridors and moving to less dense, agricultural land and open space as one moves south.

It crosses several major east-west vehicular connectors, including Central Avenue to the north and Bridge Boulevard and Rio Bravo Boulevard as you continue south. Coors Boulevard runs nearly parallel, meandering west of the drain. The Rio Grande provides another parallel corridor with possible connections, at a distance of between 1 to 2 miles east of the Isleta Drain, depending on reference point.

There are several religious institutions, schools, open spaces and community centers that are either directly adjacent to or within a reasonable walking distance of the Isleta Drain. Figure 1 identifies many of these community destinations and their relationship with the Isleta Drain.

This corridor presents a vital opportunity to potentially create the first multi-use trail in the South Valley west of the Rio Grande with significant transportation potential. As will be explored in later sections, the only other multi-use trails in the South Valley west of the river are short trails, typically constructed along Bernalillo County property frontages. Some of these are loop trails, but none provide the formal, long-distance potential that the Isleta Drain would provide.

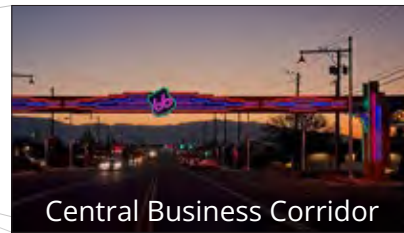
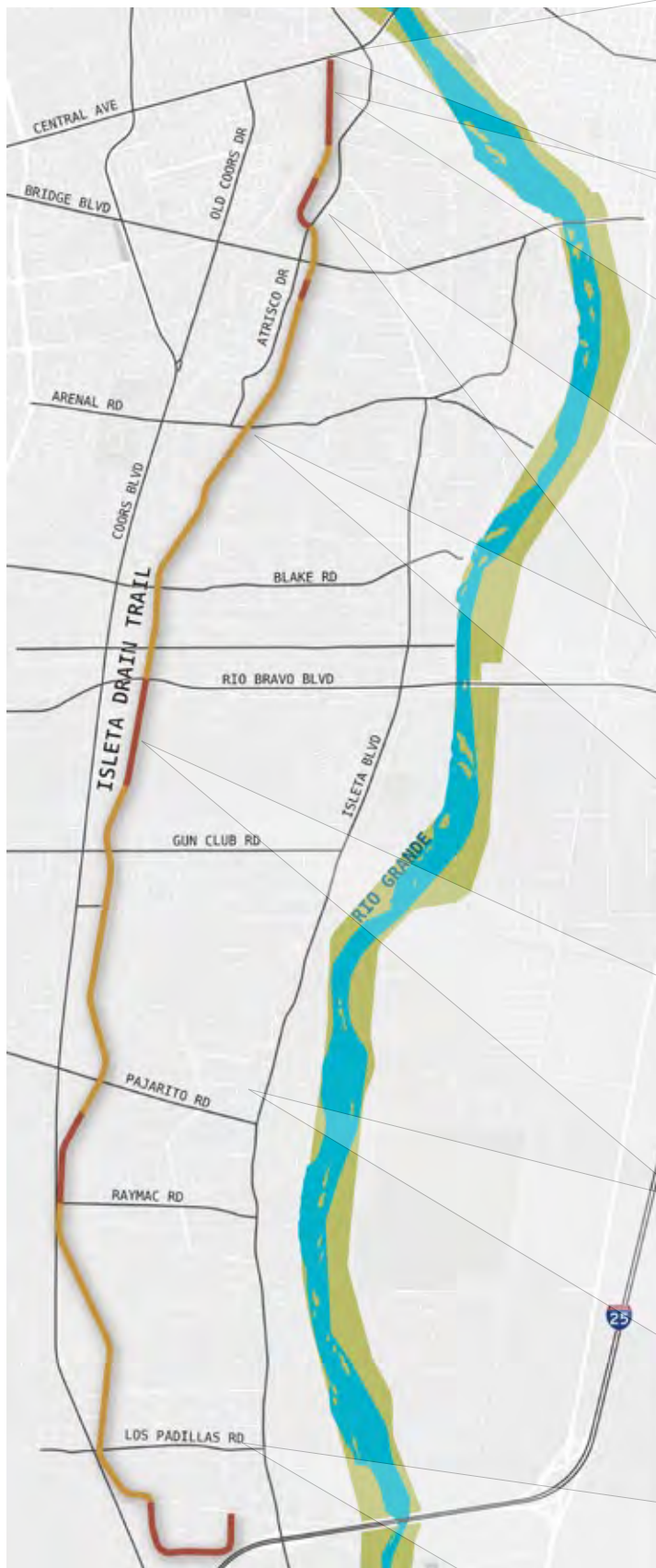


FIGURE 1. ISLETA DRAIN OVERVIEW MAP





## HISTORY AND COMMUNITY CONTEXT

The South Valley has long been the site of cultivation, with several groups of inhabitants working to direct the waters of the Rio Grande in support of local agriculture. Native Puebloans dug the original systems of ditches for flood irrigation, which were later shared and expanded by Hispano newcomers. Along with the acequia system came a unique form of democratic governance to guide decision-making and care for the waters.

With the expansion of Anglo American colonization in the 19th century and corresponding environmental demands, the combined impacts

of increased deforestation and grazing of sheep and cattle removed much of the ground cover throughout and upstream from the middle Rio Grande valley. These changes to the landscape led to increased silt in the riverbed, over time, raising the water table and flooding farmland throughout the valley. After several instances and increased frequency of flooding devastation, the Middle Rio Grande Conservancy District (MRGCD) was created to manage irrigation, drainage and river flood control in the region. The Isleta Drain was a part of a drainage network constructed by the MRGCD in the 1930s to alleviate high water tables and alkali soils throughout the Middle Rio



*FIGURE 2. WATERLOGGED LAND, 1930 FROM MRGCD*





## PUBLIC ENGAGEMENT

Grande Valley. Though these projects served their purpose of making water management in the valley more predictable, the cost of ongoing maintenance proved too much for the new Conservancy. The Congressional Flood Control Acts of 1948 and 1950 channeled federal funding to MRGCD and, later, the Bureau of Reclamation established the Rio Grande Flood Control Program to repair and modernize the District's dams, drains and channels.

Today, the MRGCD continues to provide maintenance to flood control, drainage and irrigation facilities, allowing for the continuation of agricultural production throughout the Middle Rio Grande Valley. In addition to the added economic and cultural benefits sustained through this work, the network of drainage channels and original irrigation ditches provides space for a number of informal recreational uses, including walking, biking, and horseback riding. Further, they provide valuable wildlife habitat along a critical migratory corridor.

The Isleta Drain + Trail Plan has been developed with direct input from residents, key stakeholders, agency staff and elected leaders. Given its proximity to neighborhoods, efforts have been made to prioritize the voices of those who would be most impacted by trail development. The planning team made presentations at neighborhood association and interest group meetings, hosted a project pop-up table at community events and hosted a community design workshop to refine design scenarios. Additionally, a project website and community survey was made available to solicit resident input and provide a forum for public comment and knowledge sharing. Flyers and physical signage were used to notify the public about engagement opportunities.

A summary of community input and its shaping of a project vision and priorities are provided in the following section.





## STAKEHOLDER COORDINATION

The team used a variety of virtual and in-person engagement strategies to make sure the Isleta Drain + Trail Plan exemplifies the vision, priorities and ideas of the South Valley community that surrounds it. Throughout the planning process, the team worked closely with key partners and stakeholders, including Bernalillo County, MRGCD, AMAFCA and neighborhood leadership to shape tactics and provide valuable opportunities to connect with neighbors.

These groups met regularly and provided invaluable guidance throughout the planning process.

Two site visits kicked off the planning process in the summer of 2021. Organizational and neighborhood representatives also reviewed draft documents and provided feedback.



*Isleta Drain near Los Padillos Rd*

### WE WANT TO HEAR FROM YOU QUEREMOS ESCUCHAR TUS IDEAS

Learn more and stay in touch  
at the project website:

Ver más información y  
manténgase en contacto:



Share your ideas by taking  
the community survey:

Cuéntanos tus ideas con la  
encuesta comunitaria:



For questions & comments:

Preguntas y comentarios:

**Project Planner - Bernalillo County**

Richard Meadows, Technical Planning Manager  
rmeadows@bernco.gov | 505.850.4496

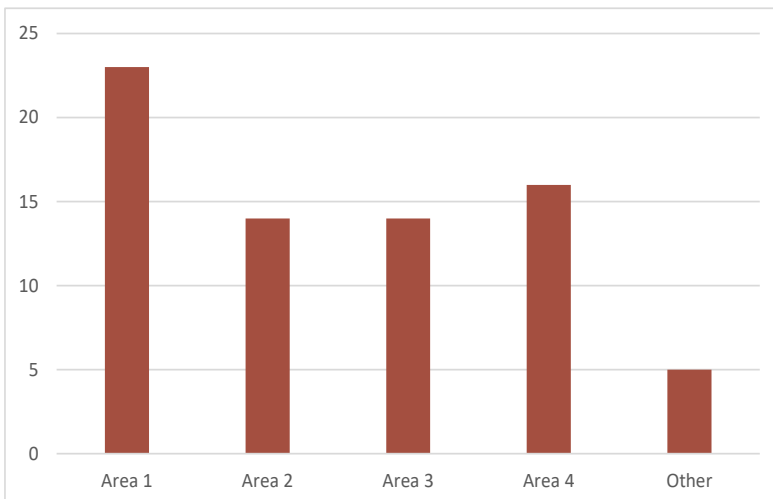
## COMMUNITY SURVEY

A community survey was launched in early September 2021 and remained open until the end of January 2022. The survey asked a number of open-ended and ranked choice questions related to current use and activity along the Isleta Drain, barriers or concerns, and future opportunities and priorities for improvement. In total, 92 responses were received. What follows is a summary of survey results and insights.

### Respondent Profile

Most of the community survey respondents are residents of the South Valley, with the majority of respondents living in the northernmost sections of the Isleta Drain (between Central Avenue and Blake Road). Further, while over 50 percent of respondents were older than age 55, a large number of younger adults (between ages 35 and 44) also completed the survey. Finally, the race/ethnic identity of respondents is reflective of the area population, with nearly 40 percent identifying as Hispanic or Latino.

#### WHAT NEIGHBORHOOD DO YOU LIVE IN?

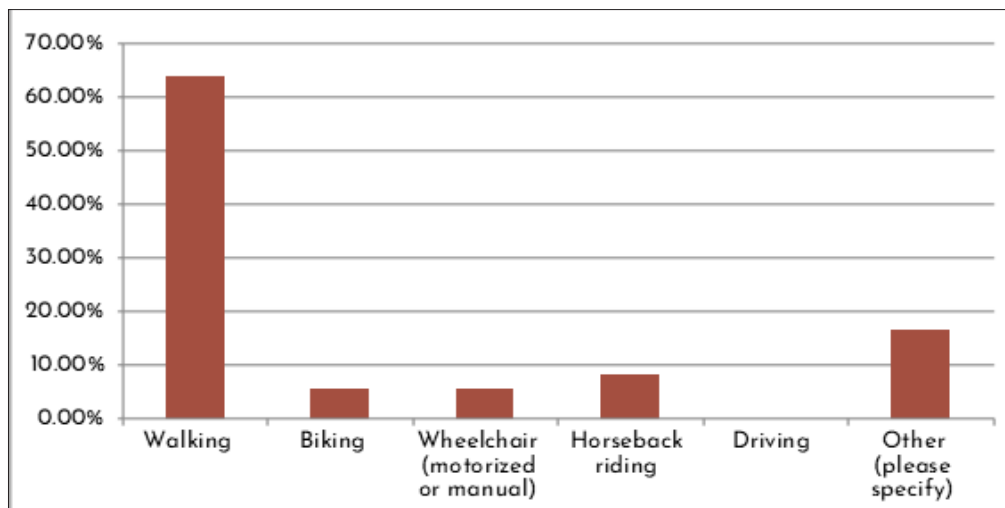


When the survey was created, the team used four character areas to define the different segments of the Isleta Drain, rather than the five that were used later in the planning process.

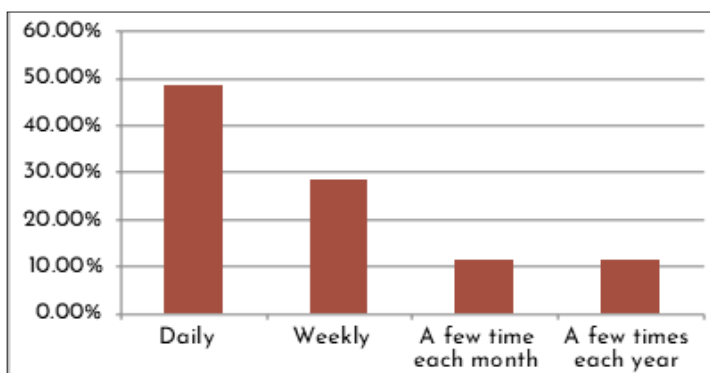
## Current Use and Activity

By and large, the majority of respondents indicated that walking is the primary activity and use along the Isleta Drain, and nearly half of respondents use the corridor daily.

WHAT IS YOUR PRIMARY ACTIVITY ALONG THE CORRIDOR?



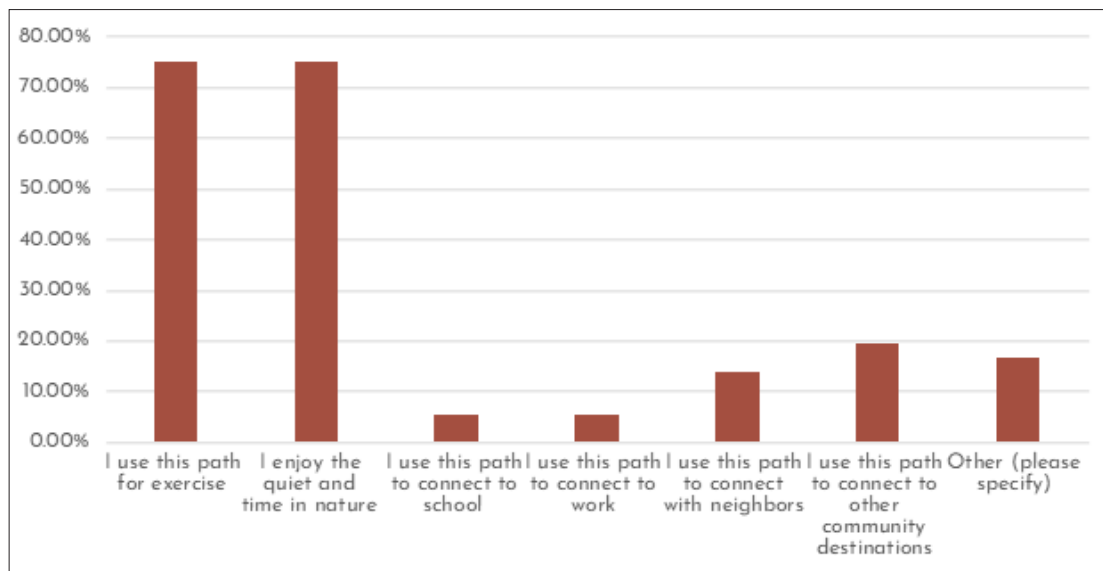
HOW OFTEN DO YOU USE THIS PATH?



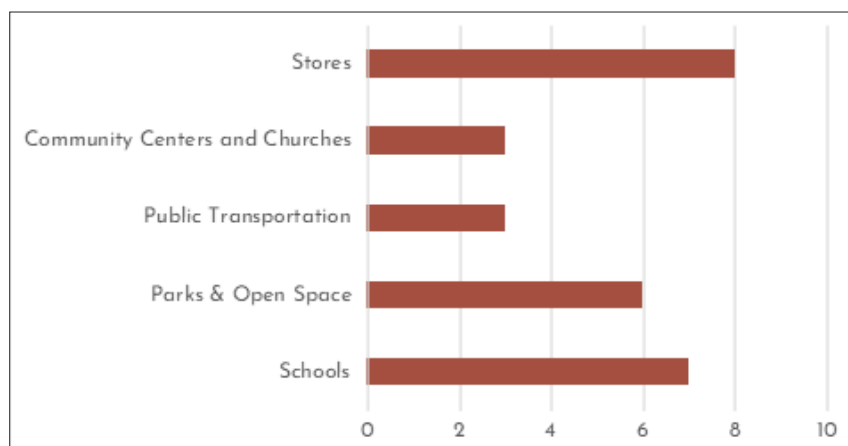
The primary reasons for using the land adjacent to the Isleta Drain are for exercise and to enjoy the quiet and time in nature. These responses are reflective of the unique, more rural character of the South Valley, overall, and for many, the reason

why they chose to call this community home. Respondents also noted that stores, schools and parks and open spaces are the most important community destinations that they might travel to along this path.

#### IF YOU USE THIS CORRIDOR, WHAT ARE YOUR PRIMARY REASONS?



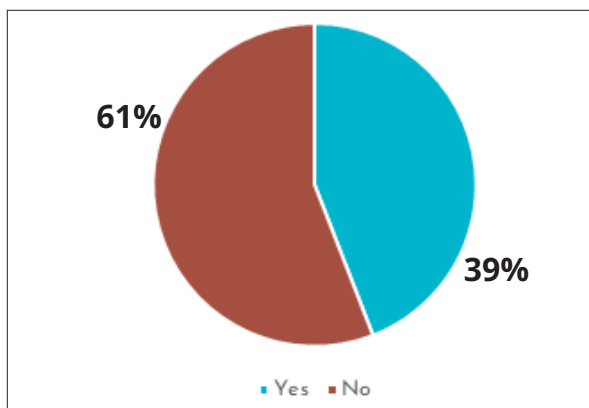
#### MOST IMPORTANT COMMUNITY DESTINATIONS



## Challenges and Barriers

While the proposed path along the Isleta Drain is widely used, respondents noted that there are several needs and concerns that should be addressed by this plan to improve the experience of users. The single most important improvement would be to create paved and/or packed trail surfaces. Respondents also noted that regular maintenance and trash and weed removal from the drain will be essential to future use of the trail.

### DOES THE ISLETA DRAIN CORRIDOR CURRENTLY MEET YOUR NEEDS?



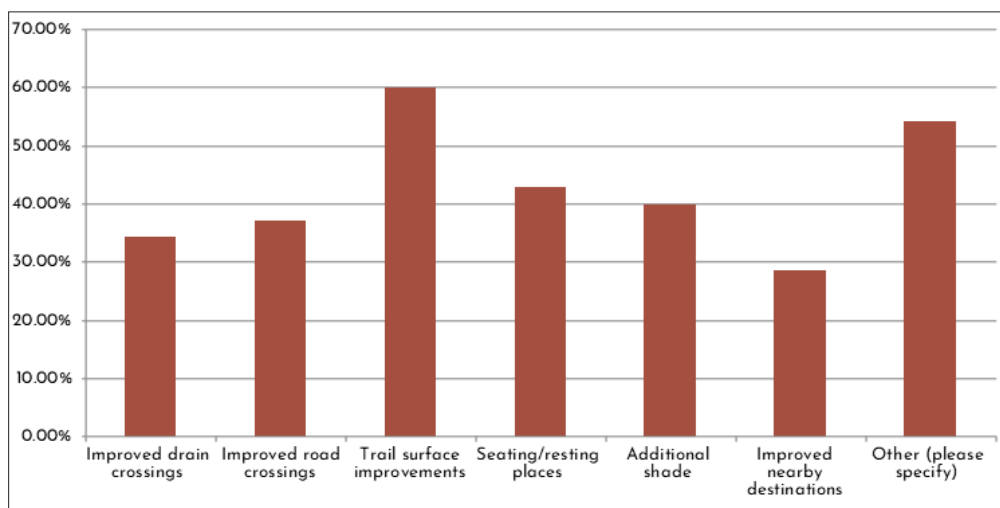
### OTHER CONCERNS OR BARRIERS TO USE:

Drain needs regular cleanup/reduce litter and dumping  
 Overgrown weeds and goatheads  
 Loose dogs are a concern  
 Soft surface is challenging for bicycles  
 ATV traffic can make the drain feel unsafe for other users  
 More trees for shade, plus natural vegetation  
 Poorly designed gates  
 Additional lighting, especially in the north

### ARE THERE SPECIFIC SECTIONS THAT NEED IMPROVED CONNECTIONS/CROSSINGS?

Between Bridge and Arenal  
 Rio Bravo  
 Blake Road  
 Raymac to Malpais (concerns are specifically with ATVs)

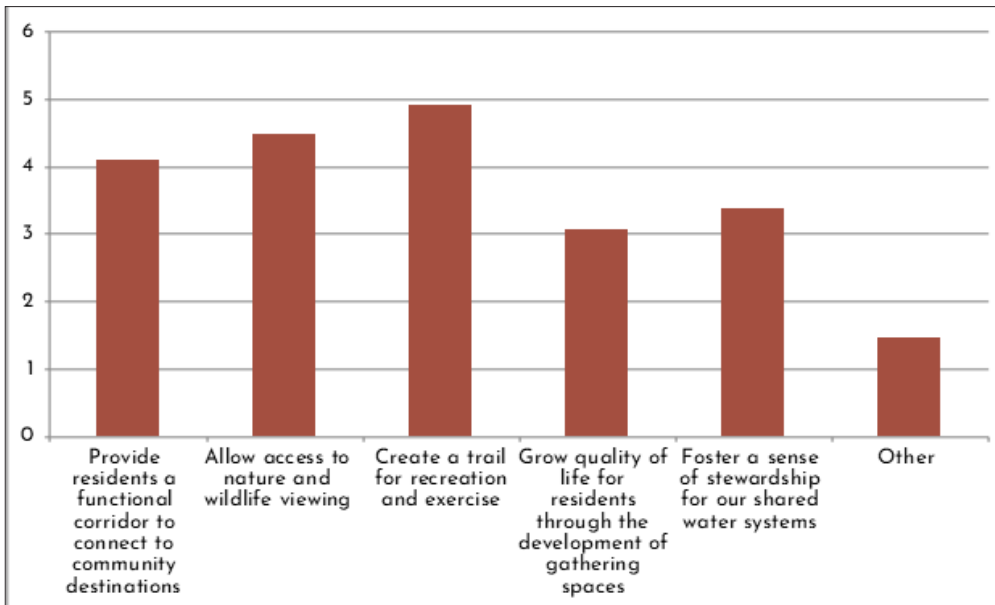
### WHAT CHANGES MIGHT IMPROVE YOUR EXPERIENCE HERE?



## Plan Priorities and Opportunities

The question below asked respondents to rank priority goals for this plan. The responses shown in the graph represent those priorities with the higher number corresponding to higher priority.

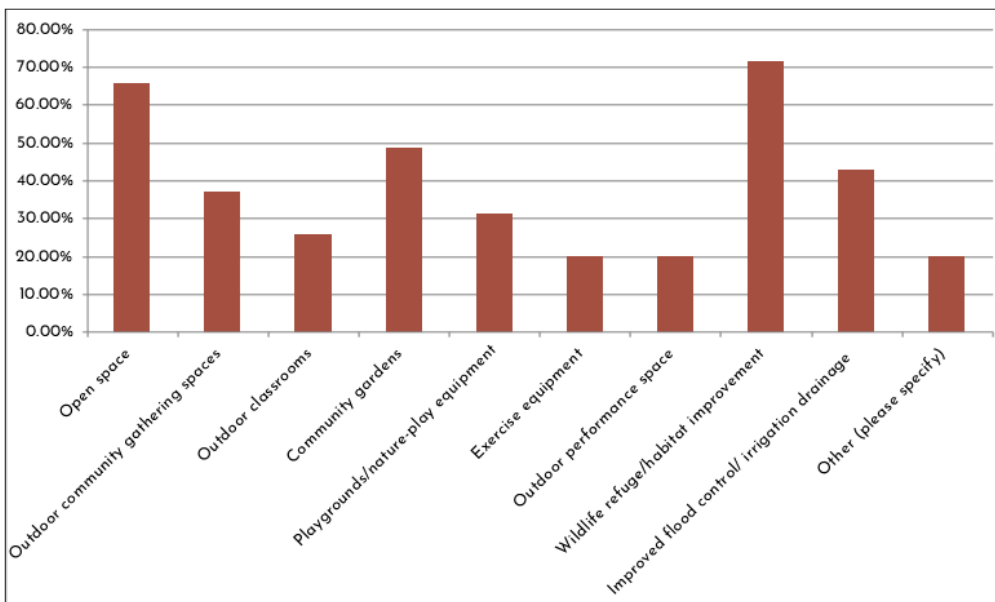
### WHAT SHOULD WE PRIORITIZE AS GOALS FOR THIS PLAN?



ARE THERE SECTIONS OF THE CORRIDOR OR SITES NEAR THE TRAIL THAT SHOULD BE CONSIDERED FOR ADDITIONAL IMPROVEMENTS OR THAT HAVE THE POTENTIAL TO BECOME COMMUNITY SPACES?

East of 5700 block of Isleta Boulevard  
Arenal Open Space  
Raven Pond  
Open Space near Atrisco Park and Atrisco Elementary  
Additional lighting, especially in the north  
Near schools  
Bridge Boulevard & Anthony Lane

### WHAT TYPES OF SPACES OR ASSETS WOULD BEST SUPPORT COMMUNITY NEEDS?





## Character Areas Survey Insights

The team recognizes that the quality of space, density of residences and natural environment (as well as the ideas of adjacent neighbors) shift dramatically as one traverses along the drain corridor. The following four character areas were a first attempt to define the unique segments that comprise the nearly 13 miles of the Isleta Drain and Trail. Since the survey was drafted and shared, the planning team has revised these to include an additional segment, for a total of five character areas.

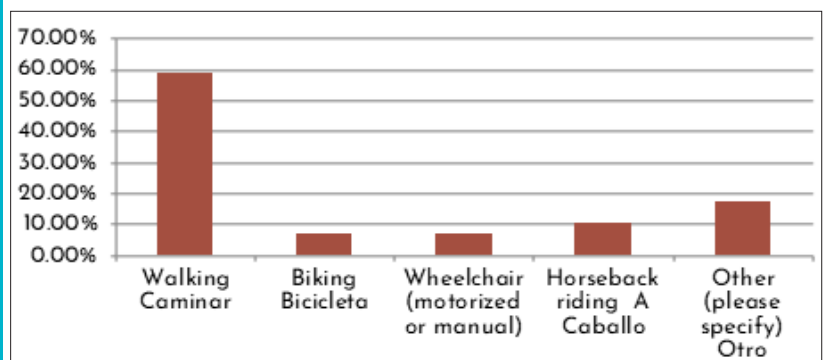
# Character Area 1



### IMPROVEMENTS NEEDED:

- Regular maintenance to remove trash, debris and weeds from the drain
- Shaded rest areas
- Paved trail
- Gates and improved fencing
- Lighting
- Crosswalks/safety at intersections

### WHAT ACTIVITY IS MOST COMMON IN CHARACTER AREA 1?





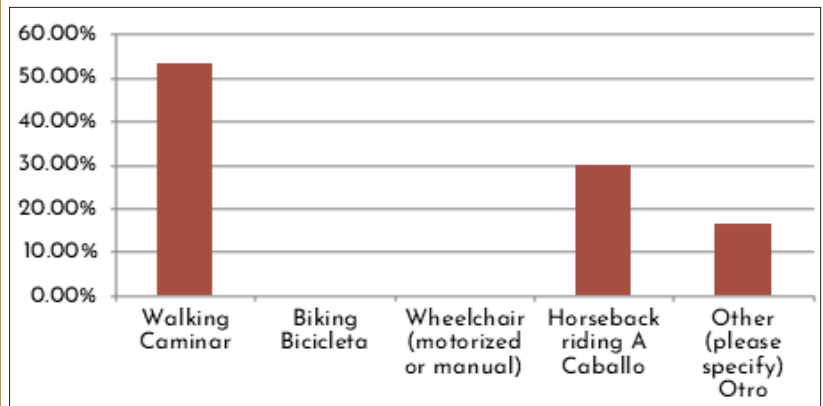
## Character Area 2



### IMPROVEMENTS NEEDED:

- Regular maintenance to remove trash, debris and weeds from the drain
- Paved trail
- Gates and improved fencing
- Safer street crossings

WHAT ACTIVITY IS MOST COMMON IN CHARACTER AREA 2?



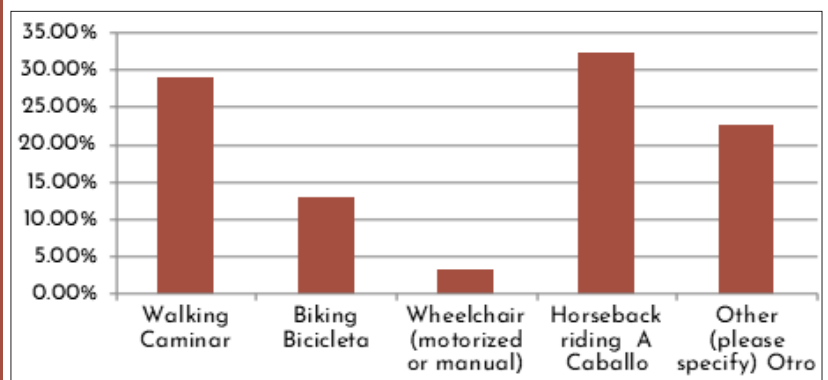
## Character Area 3



### IMPROVEMENTS NEEDED:

- Regular maintenance to remove trash, debris and weeds from the drain
- Shaded rest areas
- Barriers for ATVs
- Security & visually limiting fencing
- Tree planting

WHAT ACTIVITY IS MOST COMMON IN CHARACTER AREA 3?



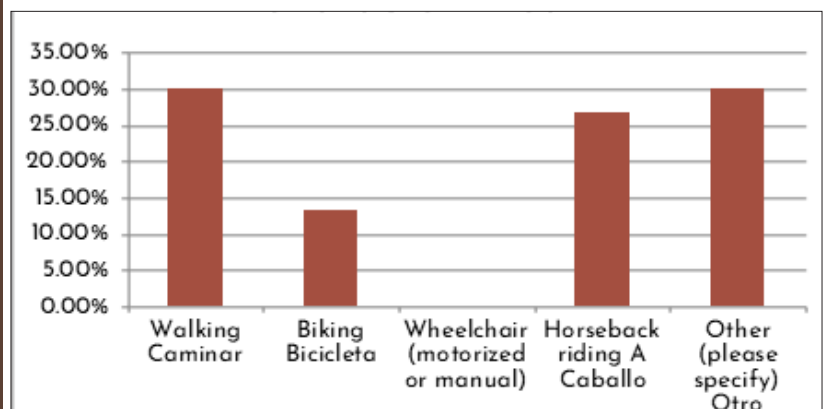
# Character Area 4



## IMPROVEMENTS NEEDED:

- Gates and improved fencing
- More trees, fewer weeds
- Smoothing and packing for easier walking
- Security & visually limiting fencing

WHAT ACTIVITY IS MOST COMMON IN CHARACTER AREA 4?





## WEBSITE

A project website, [www.IsletaDrainPlan.org](http://www.IsletaDrainPlan.org), launched in early September 2021 as a virtual place to keep residents and interested stakeholders updated on the Isleta Drain + Trail Plan as it progresses. This website also provides background about the project goals and intentions, as well as information and links where community members can share their ideas and shape plan development.

## TABLING EVENTS

The planning team also created mini information tables, including maps, printed surveys, voting tools and information flyers, that were set up at community events through the fall and winter of 2021. These events included:

- La Familia Growers' Market
- South Valley Growers' Market
- Rail Yards Market
- Acequia of Lights Celebration

## COMMUNITY PRESENTATIONS

The team engaged key stakeholders and neighbors in the communities closest to the Isleta Drain through one on one stakeholder interviews and presentations at neighborhood association and interest group committee meetings. Presentations were offered to all South Valley neighborhood associations. These included:

- The South Valley Coalition of Neighborhood Associations
- Atrisco Viejo Neighborhood Association
- Vecinos del Bosque Neighborhood Association
- Greater Albuquerque Active Transportation Committee
- Greater Albuquerque Recreational Trails Committee

## Isleta Drain Master Plan

[HOME](#)[BACKGROUND](#)[PARTICIPATE](#)[PLAN DOCUMENTS](#)[CONTACT](#)

## KEY INSIGHTS



Many people have multi-generational roots in this area and have close ties to the land and water systems



Separating and creating clear communication/wayfinding for separated user areas (walkers, bikers, horseback riders) is key to avoiding multi-user conflict and safety issues



Access, crossings and connections to both sides of the drain are important; How will the Isleta Drain + Trail provide recommendations for east-west connections to parallel trails?



Designation of roles and responsibilities (between AMAFCA, MRGCD, Bernalillo County and resident groups) for implementation and maintenance of drain and trail improvements is necessary



Safety (and perception of safety) and a feeling of belonging are key themes that have been raised by neighbors. This relates to lighting along the drain, proper fencing and gates to manage different user access, crossings of roads and intersecting drains, laterals and acequias, understanding the growing population of unhoused community members and the marginality of spaces that are offered to them, loose dogs who are either feral or can break the barriers around individual properties



Make sure community members have a clear understanding of project constraints throughout the engagement process



*Today, the Isleta Drain has become much more than a functional drainage channel. It serves as a marker of the South Valley's agricultural heritage and efforts over the years to manage flooding to allow for this activity. Moreover, it provides a relatively shaded, scenic corridor that today's residents use and enjoy.*





# 2 EXISTING CONDITIONS







# ISLETA DRAIN & THE SOUTH VALLEY

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## COMMUNITY PROFILE

The Isleta Drain cuts through the heart of the South Valley, encompassing southwestern portions of Albuquerque to the north and extending into unincorporated Bernalillo County as it travels south. The South Valley is well-known for its rich agricultural heritage which has been supported by a network of acequias, including the Atrisco, Arenal, Armijo, Los Padillas, and Pajarito.



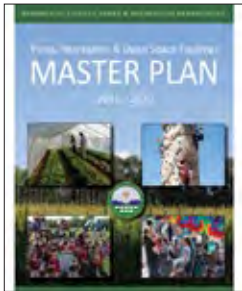

Also known as the Valle de Atrisco, the area owes its name to the Atrisco Land Grant of 1692. The land grant was created to encourage settlement of the area. Many of those original families' descendants remain in the community today.




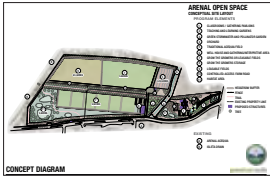

While neighborhoods and corridors to the north have grown and taken on more of an urban identity and density, those areas to the south maintain the quietness and appeal of rural living.

The team's goal in this existing conditions section is to document the elements that comprise current conditions along the Isleta Drain in order to better understand needs, constraints and opportunities for improvement that would make this a functional asset for South Valley residents.

The following section reviews many of the planning documents that helped to guide and inform initial research.

## EXISTING PLANS AND REGULATIONS

PLAN	YEAR	OVERVIEW	INSIGHTS
<b>Operations Maintenance Repair Replacement and Rehabilitation Manual (OMRRR) for the Southwest Valley Flood Reduction Project</b> 	2014	<p>The Operations, Maintenance, Repair, Replacement and Rehabilitation Manual for the Southwest Valley Flood Reduction Project Facilities is a living report created to clearly define the roles and responsibilities of public agencies – Bernalillo County Public Works Division, Albuquerque Metropolitan Arroyo Flood Control Authority, Middle Rio Grande Conservancy District and the Bureau of Reclamation – in operating, inspecting, maintaining, repairing, replacing and rehabilitating Southwest Valley Flood Reduction Project (SVFRP) Facilities.</p>	<p>The OMRRR Manual describes the purpose and ongoing maintenance needs of all SVFRP Facilities, including the Isleta Drain, as well as plans for future facility projects and improvements. It also provides valuable direction for current and future management of the Isleta Drain and any improvements that might impact it.</p>
<b>2040 Metropolitan Transportation Plan (MTP) Long Range Bikeway System Map</b> 	2020	<p>The Long Range Bikeway System shows both existing and future bikeways and paved trails. This map shows recommended types of bicycle facilities based on the safest and best option, however; the type of facility that ultimately gets implemented may vary based on local engineering assessments.</p>	<p>The Isleta Drain is identified in this plan as a location for a proposed paved trail in the future.</p>
<b>Parks, Recreation &amp; Open Space Facilities Master Plan - Bernalillo County Parks and Recreation Department</b> 	2015 – 2030	<p>The Parks, Recreation, and Open Space Facilities Master Plan (PROS Plan) provides a framework for the future development of parks, recreation, and open space facilities in Bernalillo County. Recognizing the intersecting impacts of public services, this plan update broadens the mission of the Parks, Recreation, and Open Space department to include quality of life services such as community health, economic development, and cultural heritage.</p>	<p>The Isleta Drain Trail is a project which will contribute toward the realization of the County's expanded quality of life goals and mission.</p>
<b>Pedestrian and Bicycle Safety Action Plan</b> 	2012	<p>The Pedestrian and Bicycle Safety Action Plan is a ten-year facility master plan which identifies issues within current pedestrian and bicycle facilities and provides recommendations for policy changes and projects that begin to fill gaps and remedy issues.</p>	<p>The Bike Lanes, Trails, and Routes section of the plan proposes future multi-use trail opportunities along the Isleta Drain and other AMAFCA/ MRGCD facilities. A trail along the Isleta Drain would also fill a need for Prescription (Rx) Trails and Safe Routes to Schools programs. This plan also provides direction regarding complete streets and trails policy.</p>

PLAN	YEAR	OVERVIEW	INSIGHTS
<b>MRGCD Ditches with Trails (DWT) Feasibility Report</b> 	2008	The Ditches with Trails Plan Feasibility Report was drafted in 2008 to develop a “community-supported stewardship plan for preserving and enhancing the valley’s system of irrigation ditches and drainage canals as a continuous and interconnected system of waterways and trails.” Though it is not an adopted plan of the MRGCD, it provided a vision for management and maintenance of ditch banks and a foundation for how to design future trails along MRGCD facilities.	The vision, priorities, and recommendations of the DWT report support the development of trails along ditches, including the Isleta Drain. This report also provides helpful details and guidance about considerations and actions future planners might take to address common issues related to ditch trails. The planning process revealed that the trust of community members is integral to plans, especially when proposed facilities are in close proximity to private residences.
<b>Southwest Area Plan</b> 	1988	This is a planning document which covers 115 square miles in the southwest quadrant of Bernalillo County. It established a framework for growth and development for the next twenty years. This plan provides recommendations for land use scenarios, environmental remediation, transportation, drainage, and public services based on estimated population growth over that time.	The Southwest Area Plan notes that there is a deep commitment within the community to conserve open space and park land to maintain the rural quality of life and prioritize recreational opportunities. The Isleta Drain is noted as Major Public Open Space feature which should be maintained and improved as part of a larger network of trail corridors in the community.
<b>El Camino Real National Historic Trail Development Concept Plan</b> 	2022	This conceptual plan provides actions, development projects and infrastructure improvements needed to create a multi-modal path that follows the historic El Camino Real as closely as possible. This plan covers approximately 22 miles of the trail, which originally extended from Mexico City to Ohkay Owingeh Pueblo.	The El Camino Real Plan recommends a path that runs roughly parallel to the Isleta Drain through the South Valley - the trail is identified a primarily east of the drain, along Sunset and Isleta s. - and provides several opportunities for connections to a future trail along the Isleta Drain.
<b>Arenal Open Space Master Plan</b> 	2022 - In progress	This Open Space Master Plan is for the approximately 34 acres of land north of Arenal, between the Isleta Drain and Arenal Acequia. The county bought the space in 2016 and 2018 with the intention of having green space to contribute to the community’s agricultural legacy.	The Arenal Open Space will be an important adjacent site and destination for users of the future Isleta Drain + Trail. It could provide an additional spur trail with amenities to learn more about the importance of agriculture and the waterways that support it.
<b>Alameda Drain &amp; Trail Master Plan</b> 	2016	This Plan provided a framework for improvements along the Alameda Drain between I-40 to the northern end of 2nd Street.	Several recommendations within this Plan, as well as lessons learned in implementation, were instrumental to the team’s understanding of best practices for the Isleta Drain.
<b>Southwest Valley Flood Reduction Project (SWVFRP)</b>	2001	The SWVFRP and subsequent studies have shown that there are deficiencies in the capacity of the Isleta Interior Drain as development occurs and runoff reaches the Isleta Interior Drain.	All future designs for the Isleta Drain + Trail must be consistent with those studies and include the necessary analysis and SWMM updates to ensure that stormwater conveyance and flood protection will be maintained.

## CHARACTER AREAS

Considering the nearly 13 miles that the Isleta Drain encompasses, the team determined that it would be helpful to look more closely at the distinct segments or character areas that it passes through to understand the unique assets and challenges, as well as the desires of neighbors closer to these segments. The five character areas shown in Figure 3, identified as the Atrisco, Arenal, Rio Bravo, Pajarito and Los Padillas, were determined based on the neighborhoods and major intersections that began to define them, as well as their physical and natural qualities.

Elements included in the following maps of these areas include: land use, community destinations, parks and open space, transit, as well as potential connections and opportunity areas. “Opportunity areas” the team has determined to be spaces that could benefit from additional enhancements or pedestrian amenities that could serve users and the broader community. They often correspond to road crossings or connections to nearby destinations near the drain,

Some of these sections of right-of-way along the Isleta Drain also serve as access roads to homes. These areas are of particular concern, as any potential future trail alignment will need to consider the space and needs of multiple users (both pedestrians and vehicles) to ensure the safety of all who use this corridor.

Finally, the character area maps on the following pages highlight stormwater outfalls along the drain, which provide insight into possible opportunities for green stormwater infrastructure improvements in the future,





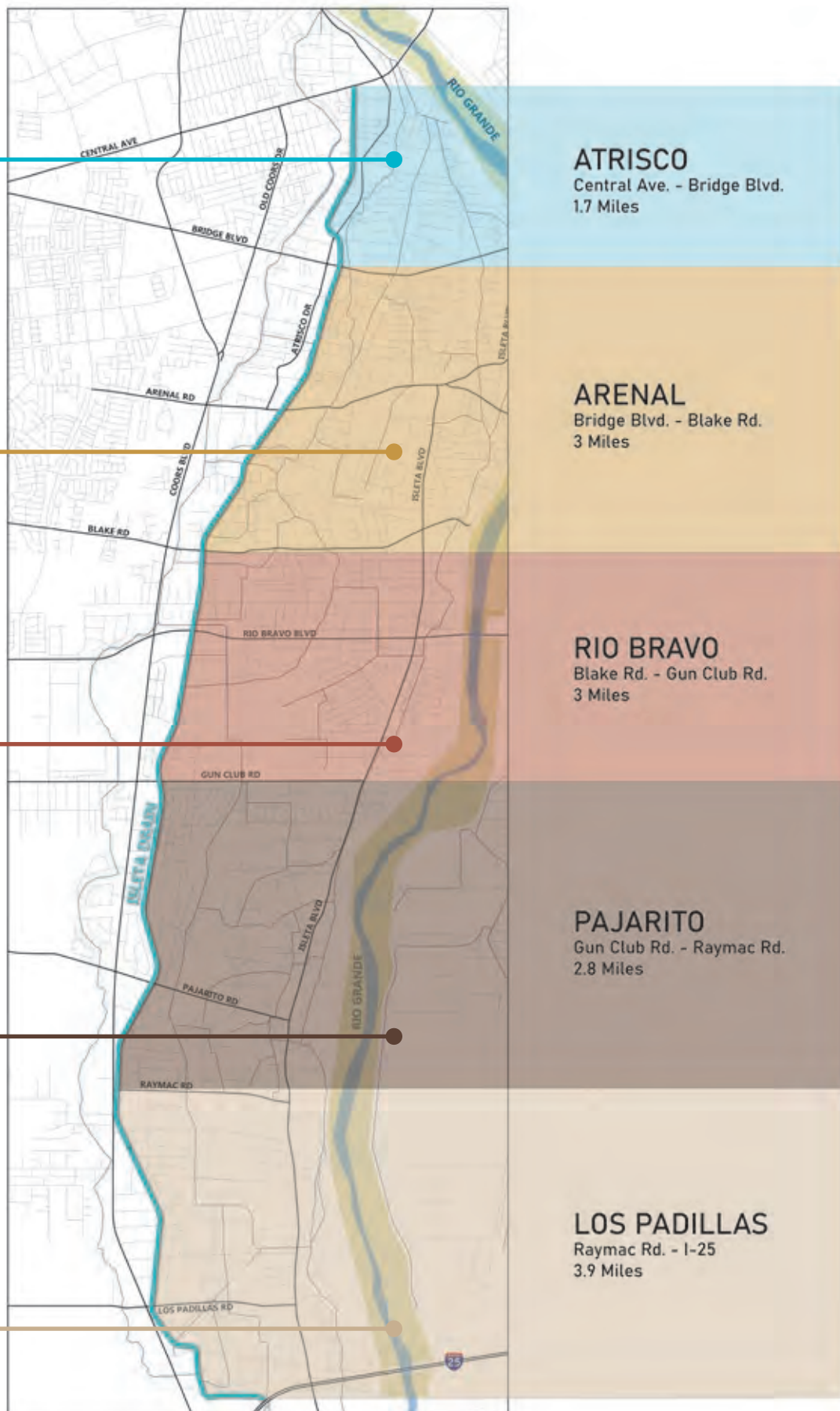


FIGURE 3. ISLETA DRAIN CHARACTER AREA MAP

# ATRISCO

## CENTRAL AVENUE – BRIDGE BOULEVARD (1.7 MILES)



This section of the Isleta Drain passes through relatively higher density residential areas, with close connections to neighborhood commercial corridors and several community amenities, including Atrisco Park and Little League, Valle Vista Elementary School, the future Crestview Bluff Open Space, and South Valley Senior Multi-Purpose Center. To the north, the Isleta Drain corridor connects to Central Avenue and the commercial amenities offered there. There are many road crossings through this character area, including major road crossings at Atrisco Road and Bridge Boulevard, as well as five minor road crossings. The drain runs close to the Atrisco Acequia through this section and connects with the Arenal-Atrisco feeder.





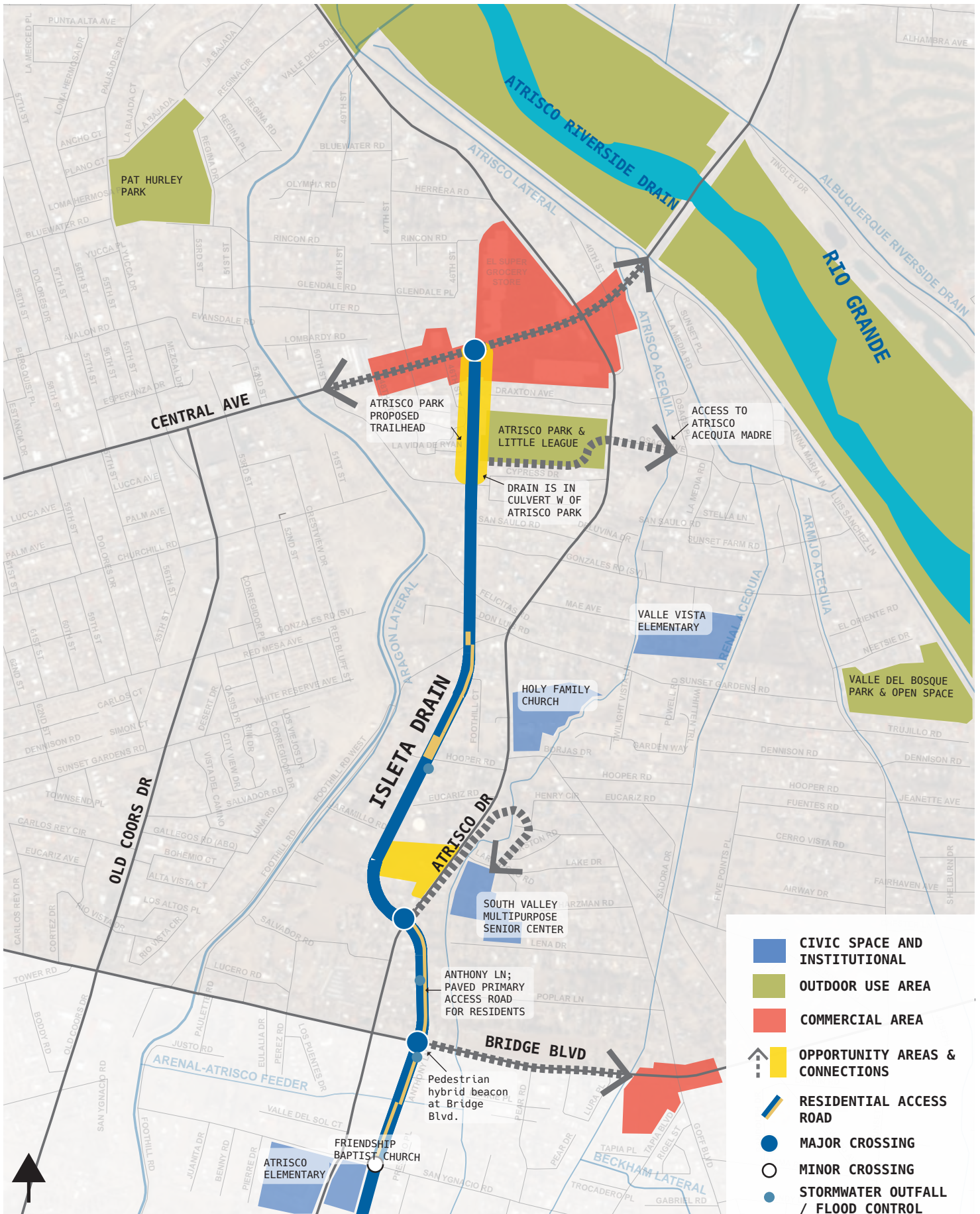


FIGURE 4. ATRISCO AREA MAP

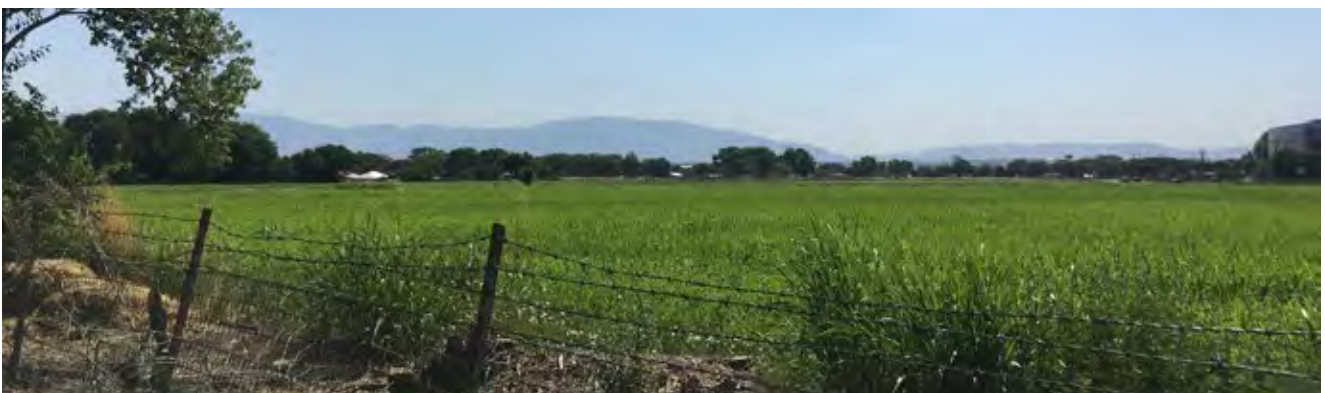


# ARENAL

## BRIDGE BOULEVARD – BLAKE ROAD (3 MILES)



The Arenal character area comprises a section of the Isleta Drain that has frequent acequia and lateral connections, as well as several connections to community schools, including Rio Grande High School and Atrisco Elementary School. This section maintains adjacencies to higher density neighborhoods and is frequented by students, as well as neighbors generally. This section also passes the west side of the proposed Arenal Open Space, just north of Rio Grande High School. A notable area near this section of the Isleta Drain is Raven Pond, connected to the drain via the Pajarito Lateral. This is also the first section of the drain that will require a bridge to allow future users to cross the Pajarito Lateral and continue along the Isleta Drain. The connection to Raven Pond is remarkably beautiful and has abundant mature trees and shaded areas, with the pond itself supporting habitat for birds and wildlife. Major crossings in the section include Arenal Road and Blake Road.





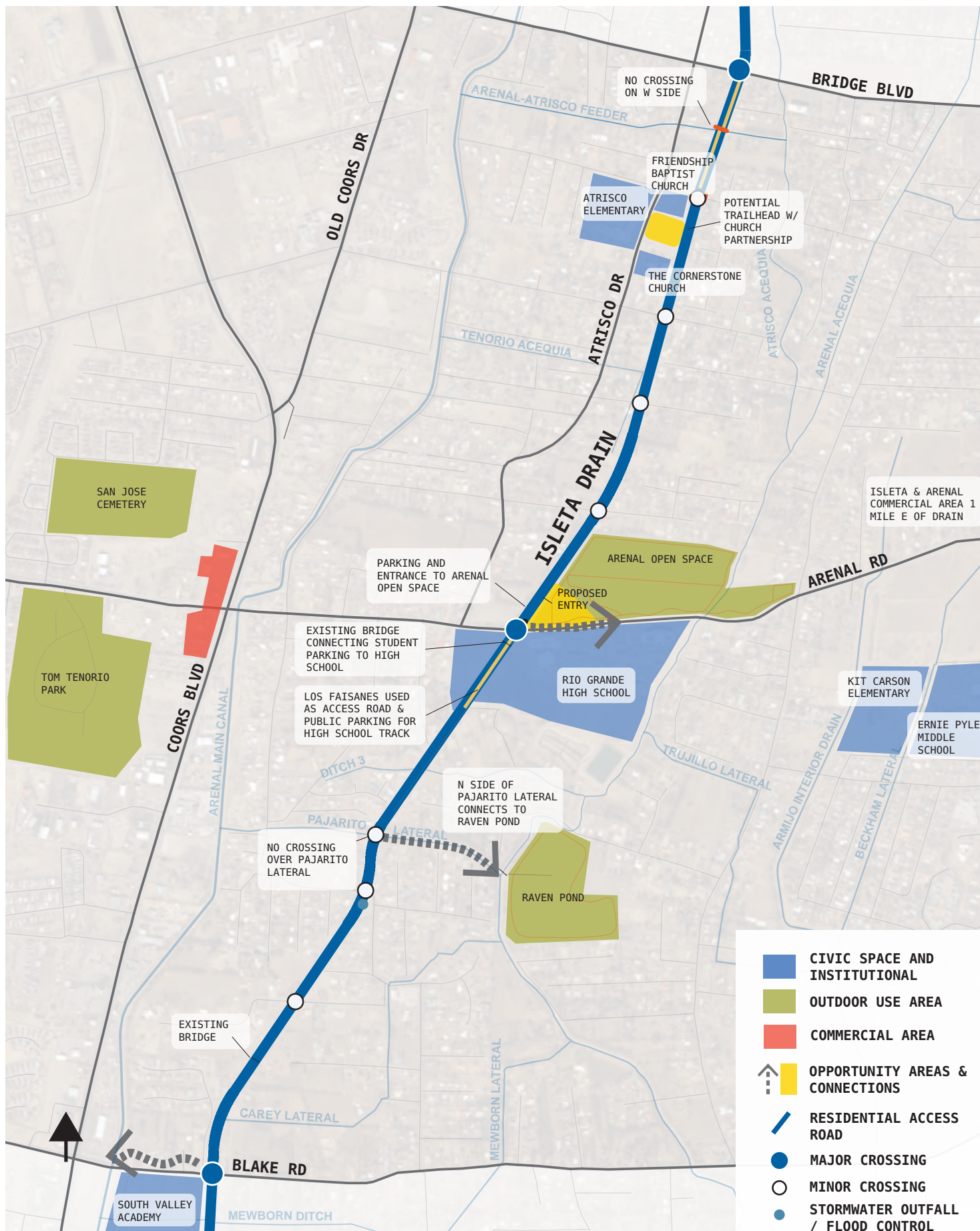


FIGURE 5. ARENAL AREA MAP

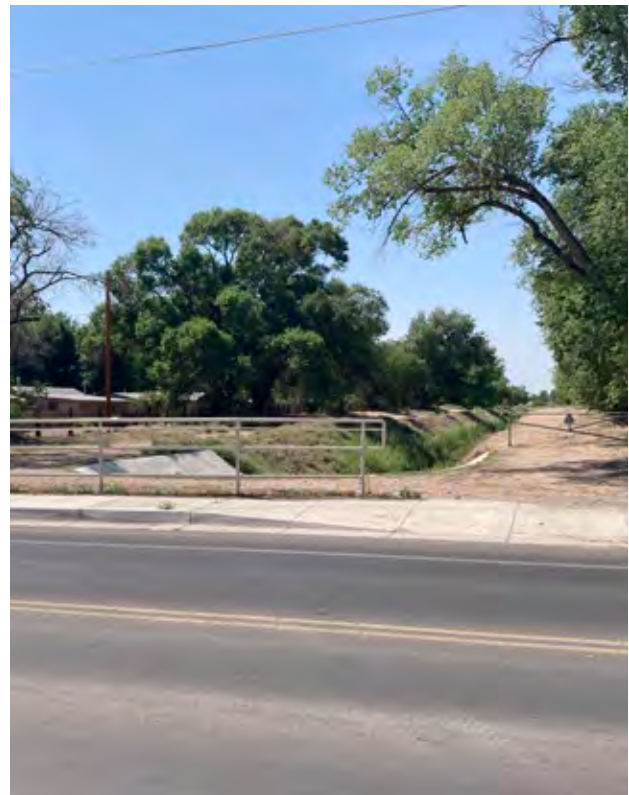


# RIO BRAVO

## BLAKE ROAD – GUN CLUB ROAD (2.1 MILES)



As the section closest to commercial amenities, as well as new development – including the Avanzando and Las Estancias developments - in the coming years, the Rio Bravo character area has the potential to be a highly trafficked section of the Isleta Drain in the future. Guidance for future development here has been outlined within the Anderson Farm Sector Development Plan and includes recommendations for future trail connections along the Isleta Drain to the Open Space reserve. This could offer area residents a safe walking/bicycling path to get to area grocery stores, entertainment and healthcare services centered along Coors Boulevard. This section includes adjacencies to South Valley Academy and Navajo Elementary School to the north. Additionally, the Hubbell Oxbow Farm City Open Space and Anderson Farm Open Space offer future recreational opportunities near the Isleta Drain. Rio Bravo Boulevard crosses the Isleta Drain through this section and poses a huge barrier in terms of traffic and safety of potential users. For east-west connections to the Isleta Drain, the traffic on Coors Boulevard also poses a challenge.



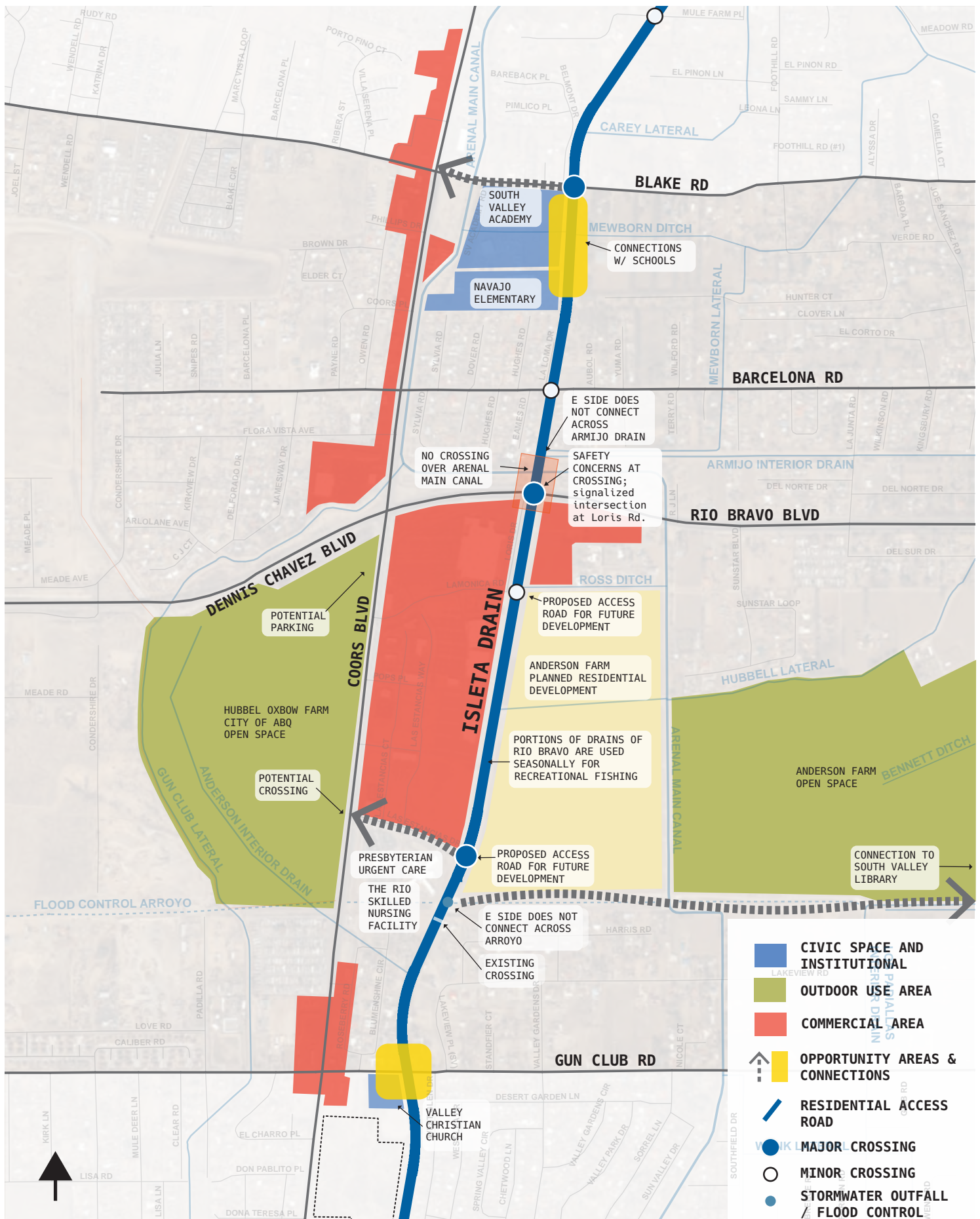


FIGURE 6. RIO BRAVO AREA MAP



# PAJARITO

## BLAKE ROAD — GUN CLUB ROAD (2.1 MILES)



South of Gun Club Road, the area surrounding the Isleta Drain becomes markedly more rural, with more agriculture adjacent to the Drain, as well as large tree stands. There are potential connections to nearby Pajarito Elementary School, as well as the historic Gutierrez-Hubbell House. Raymac Park and Pajarito Open Space offer nearby recreational amenities that could be connected to the Isleta Drain corridor. There is also more open space and greater distances between road crossings, with Pajarito Road and Raymac Road as the major crossings. Generally, there are more users on horseback or cross-country runners.









# LOS PADILLAS

RAYMAC ROAD – MALPAIS ROAD (3.9 MILES)



This section of the Isleta Drain is the most rural and quiet of all the character areas. The right-of-way along the drain tends to be tighter and there are more large shade trees sheltering potential users. Residential lots adjacent to the drain tend to be larger and more are used for agriculture. This section of the Isleta Drain offers connections to Polk Middle School, Los Padillas Elementary School and Los Padillas Community Center. West of Coors Boulevard, there is also a potential connection to Dennison Park and the Rodeo Grounds.





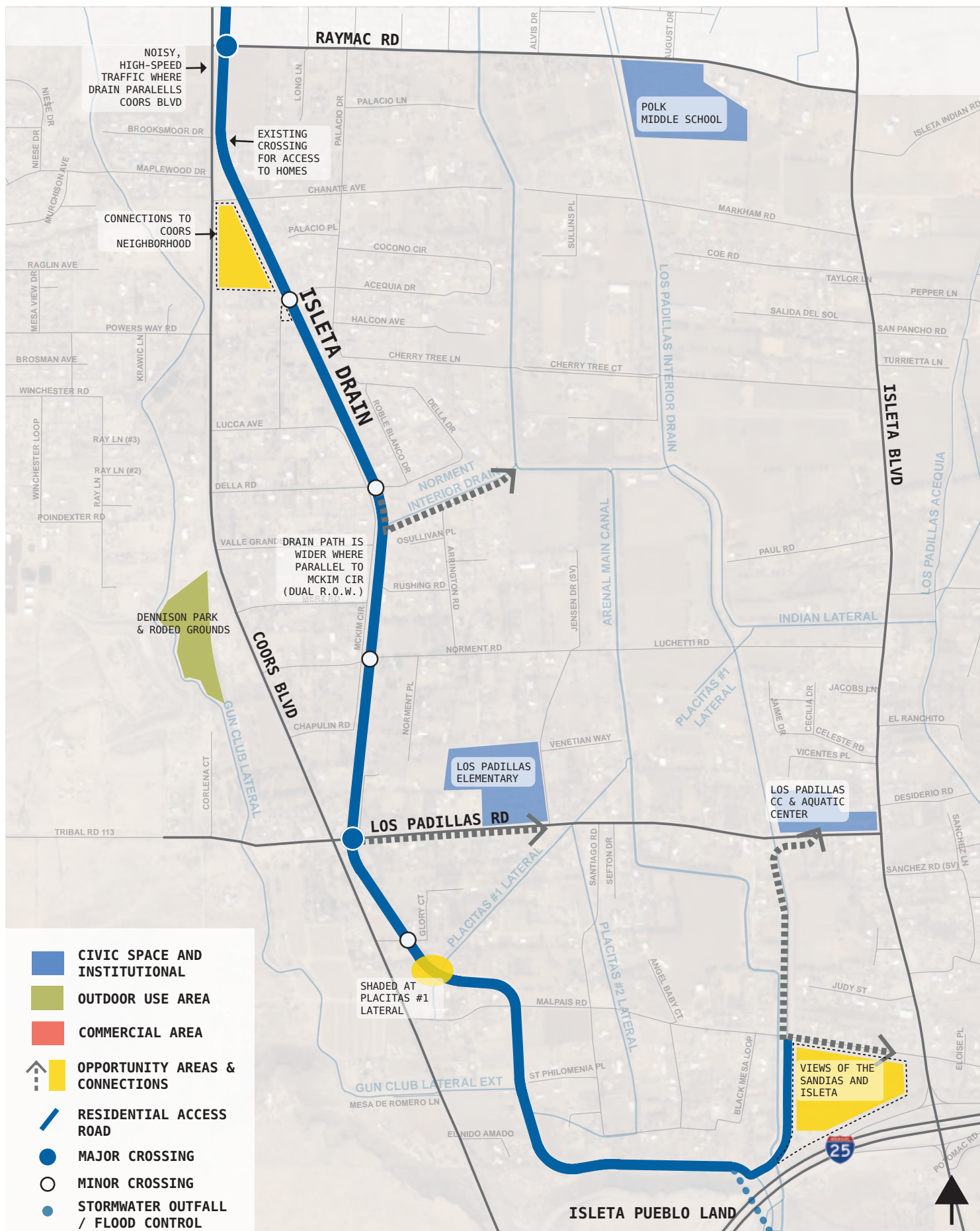


FIGURE 8. LOS PADILLAS AREA MAP

## PHYSICAL & ENVIRONMENTAL CONDITIONS

### Land Use

The South Valley comprises one of the most varied landscapes in the Middle Rio Grande Valley. The Isleta Drain meanders through sections that range from urban center – focused to the north, near Central Avenue – to rural agricultural land to the south. The Isleta Drain plays an important role in managing drainage, water tables and stormwater throughout this area, allowing for residential development and farming to continue.

Overall, the primary land use in the area is residential, with commercial uses concentrated along the major corridors: Central Avenue, Coors Boulevard, Isleta Boulevard, Bridge Boulevard, and Rio Bravo Boulevard. Agriculture takes place throughout the South Valley, but is most widespread in the far south, beyond Rio Bravo Boulevard. There are also several large open spaces along or near the Isleta Drain, including the Arenal Open Space, Anderson Farm Open Space, Hubbell Oxbow Farm Open Space and Pajarito Open Space.

### Drainage and Flood Control

The Isleta Drain is located in the Rio Grande Floodplain. It provides critical stormwater conveyance and protection for a large portion of the southwest valley and was the focus of the Southwest Valley Flood Reduction Project (SWVFRP) initiated by the US Army Corps of Engineers in 2001. It is a drainage channel which is operated and maintained jointly between MRGCD, AMAFCA and Bernalillo County. Most of the drain is unlined, with the exception of some concreted sections near culverts. The drainage channel is maintained at 60 feet wide on each side from the centerline in most sections. Additionally, most of

the right-of-way on either side of the drain is dirt or gravel and accessible to neighbors, cyclists, horseback riders, and some vehicular users who have primary access to their residences along the drain. There are several points where the drain crosses under roads and intersects with other water facilities, including laterals and acequias.

Bernalillo County Public Works Division authorized Wilson and Company, Inc., Engineers & Architects (Wilson & Company) to perform hydrologic and hydraulic analysis of the Isleta Drain, Armijo Drain and Los Padillas (Extension/Drain/Outfall) located in the southwest valley of Albuquerque, NM. The Drains are owned and maintained by Middle Rio Grande Conservancy District (MRGCD). The project study area extends from south of Central Avenue to the Los Padillas Extension outfall near Metzgar Road. This analysis above was performed in Segment 1, Segment 2 and a portion of Segment 3 of the Trail Study.

The Isleta Drain within the master plan area systems utilizes large channels as conveyance and storage elements. The channels are connected by culverts at roadway crossings within the basin. The culverts act as contraction points in the conveyance thus producing increased water surfaces in the channels and increased storage within the channels.







## Landscape

The Isleta Drain primarily flows behind residential housing and alongside agriculture and open spaces. In the section just south of Rio Bravo Boulevard, it follows the back edge of the major commercial center developing along Coors Boulevard. Beyond culverts and drain crossings, the drain is primarily natural and natural wildlife and vegetation abound in these sections of the drain. There are also sections of the Isleta Drain that support a health tree canopy, including cottonwood and willow, New Mexico olive, sand scrub, and desert grasses.



*North end of Isleta Drain near Atrisco Park*



*Looking South at San Ignacio Road Crossing*



*Looking North at Pajarito Road Crossing*



*Isleta Drain near Norment Road*



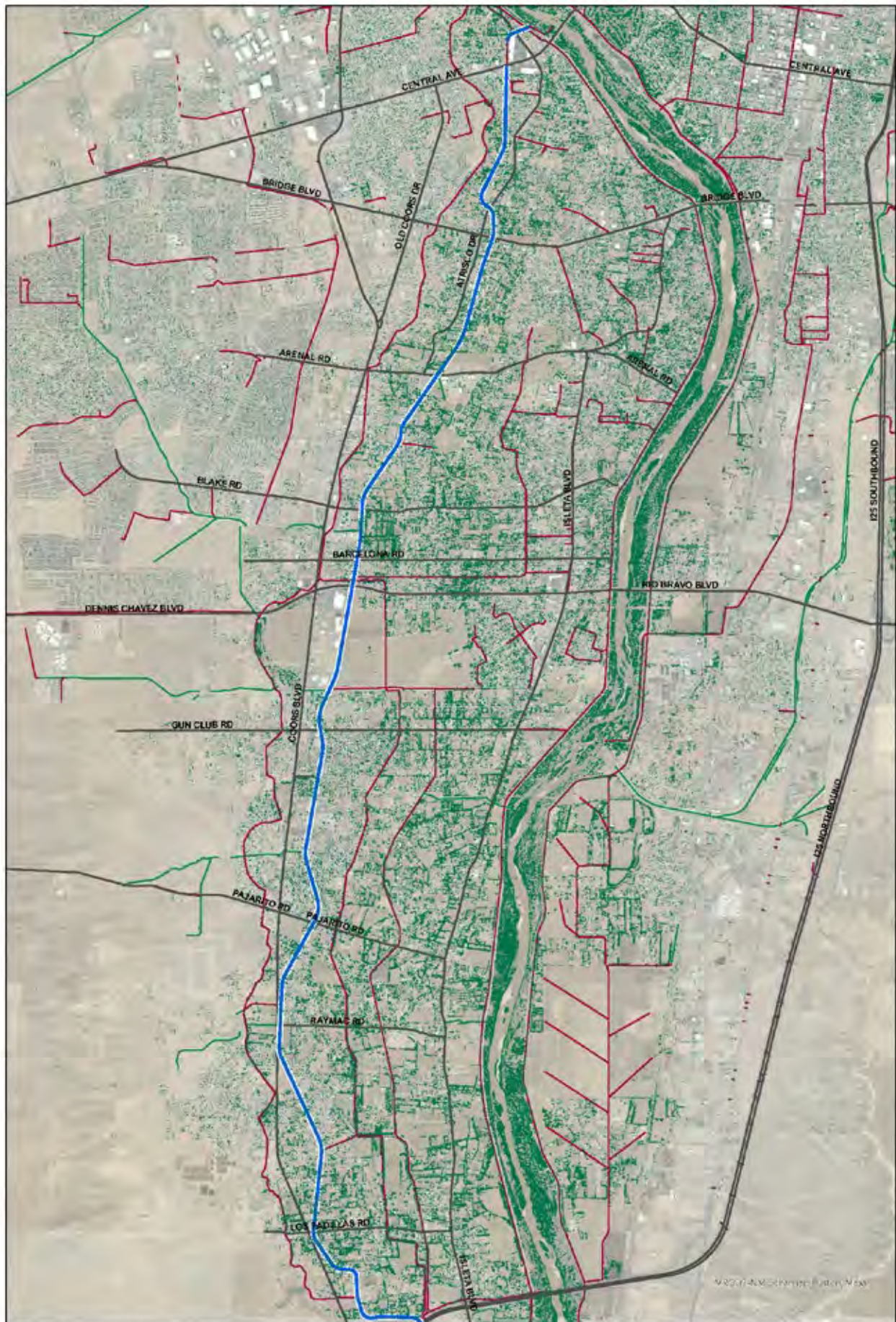
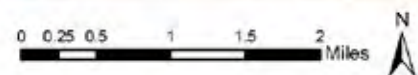


FIGURE 9. TREE CANOPY COVERAGE



## Connectivity

The following section summarizes the road, trail and transit network that surrounds the Isleta Drain and offers opportunities for residents and visitors to access the Isleta Drain.

### ROAD NETWORK

The Isleta Drain moves primarily in a north-south orientation. There are a few major roads that run parallel to the drain and several that cross the drain, though the majority are smaller, residential streets. Coors Boulevard and Isleta Boulevard are the major north-south corridors that carry vehicular traffic through the South Valley. Moving from north to south, the Isleta Drain crosses Central Avenue, Bridge Boulevard, Arenal Road, Blake Road, Rio Bravo Boulevard, Gun Club Road, Pajarito Road, Raymac Road, and, finally, Los Padillas Road. The drain curves back to the east just north of I-25.

### TRAIL AND BICYCLE NETWORK

There are several proposed trails that come close to the proposed Isleta Drain + Trail. These include the El Camino Real Trail, which would connect near the northernmost terminus of the Isleta Drain at Central Avenue. The Camino Real Trail is proposed to follow Sunset Avenue south and connect to Isleta Boulevard.

The Atrisco Riverside Drain Trail is another proposed multi-use trail that follows the Atrisco Riverside Drain between Bridge Boulevard and Central Avenue.

Bernalillo County has implemented bikeways and complete street projects which intersect or follow near the Isleta Drain. The complete streets projects follow the El Camino Real National Historic Trail, along Sunset Avenue and Isleta Boulevard, and extend east-west along Bridge Boulevard, Blake Road, and Barcelona Road. Bikeways exist along Bridge Boulevard, Goff Boulevard, and Isleta Boulevard.

MRMPO Long Range Bikeway System also provides recommendations for several nearby bikeways and trails:

- Arenal Road bike lanes
- Blake Road bike lanes (under design/construction)
- Barcelona Road bike lanes (under design/construction)
- Rio Bravo Boulevard planned multi-use trail
- Las Estancias Road existing trail
- Lake View Road planned bike route
- Metzgar Road planned bike route
- Gun Club Road planned bike lanes
- Los Padillas Drain planned multi-use trail
- Don Felipe Road planned bike lanes
- Pajarito Road planned bike lanes
- Raymac Road planned bike lanes
- Los Padillas Road bike route
- Malpais Road bike route
- Arenal Canal parallel planned trail
- Amole Trail extension through Hubbell Oxbow planned multi-use trail
- Coors Boulevard (NM 45) existing and planned bike lanes and multi-use trail

The Prescription (Rx) Trails program identifies walking and wheelchair rolling routes that are both safe and accessible to patients and families to promote healthy lifestyles. There are several Rx Trails in the South Valley including at the Valle Del Bosque Park, Westside Community Center, Sanchez Farm Open Space, Rio Bravo Open Space, Durand Open Space, Pajarito Open Space, and the Gutierrez-Hubbell Open Space. These trails tend to be shorter routes – anywhere from .25 miles to 1.5 miles – and offer potential spur trails for those accessing the Isleta Drain + Trail.



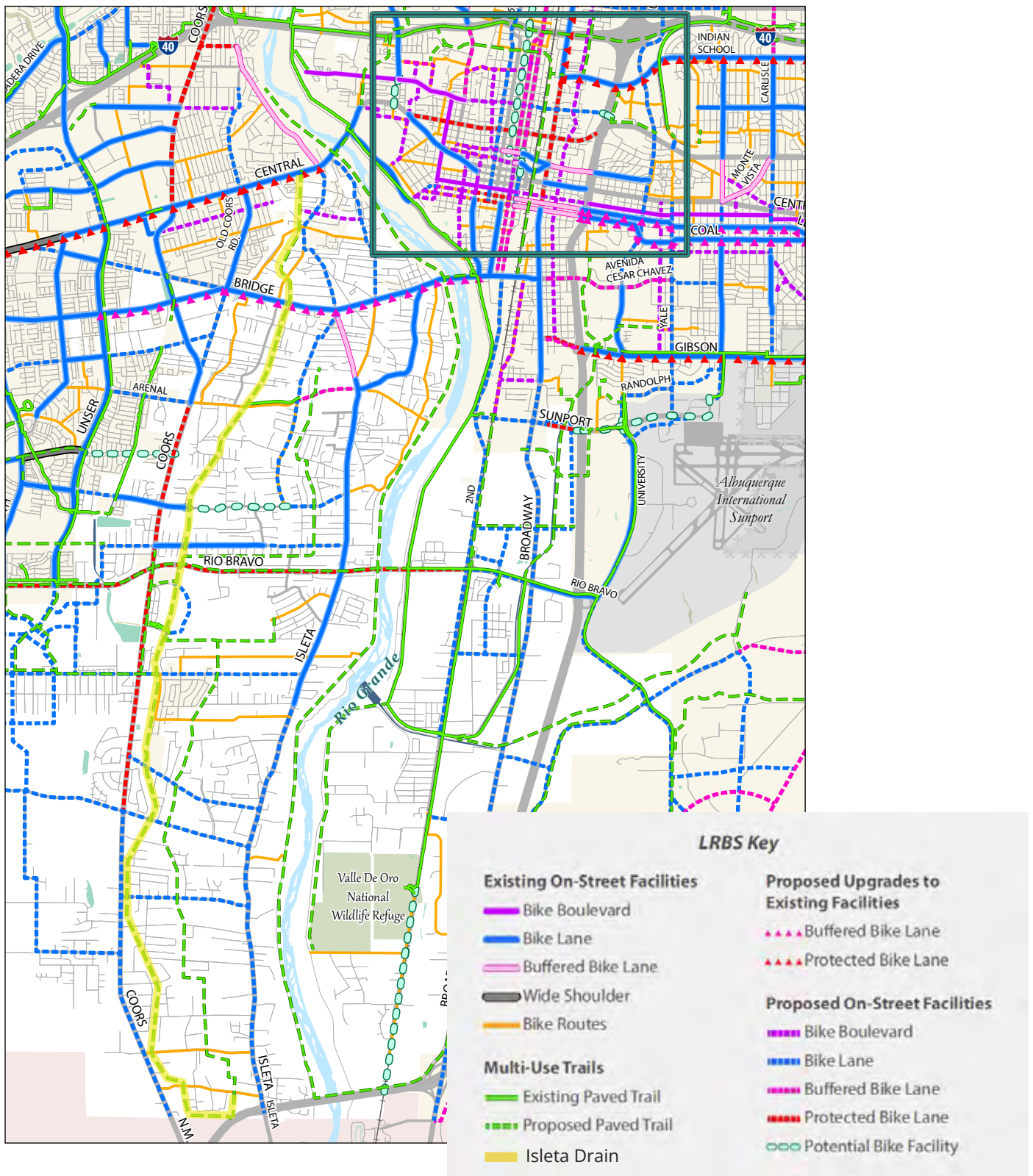


FIGURE 10. LONG RANGE BIKEWAY SYSTEM (LRBS) PLAN - 2021

## PUBLIC TRANSIT

The ABQ Ride bus service has several routes that run through the South Valley. Several routes service Central Avenue and could provide connections to the north part of the drain, including the Albuquerque Rapid Transit (ART) line, which has a stop at Atrisco Boulevard. Route 51 follows Atrisco Boulevard, and route 54 has stops near the Isleta Drain along Bridge Boulevard. Route 155 follows Coors Boulevard and could provide close connections at several points along the drain, notably near Rio Bravo Boulevard, Route 222 follows Rio Bravo Boulevard, crossing the drain. Finally, route 53 runs the furthest south (along Isleta Boulevard) of all the ABQ Ride bus routes and provides a close connection (less than .5 miles) to the end of the Isleta Drain, near Malpais Road.



FIGURE 11. PUBLIC TRANSIT - NORTH



FIGURE 12. PUBLIC TRANSIT - SOUTH

## Ownership and Operations

As a water channel that serves to provide drainage in the South Valley, the Isleta Drain requires regular maintenance to continue this function. This maintenance involves vehicles and heavy machinery whose needs must be considered alongside any other potential use along the drain. In addition to maintenance vehicles, the right-of-way along the drain is also used to access several private residences.

MRGCD is primarily responsible for Isleta Drain operations and maintenance, though, as outlined in the Operations Maintenance Repair Replacement and Rehabilitation Manual (OMRRR) for Southwest Valley Flood Reduction Project Facilities, these responsibilities will be shifted to AMAFCA and Bernalillo County Public Works Division per the schedule outlined for segment improvement.

These agencies are responsible for annual inspections of the channels, inlets/outlets, storm sewers, culverts, crossing structures, control gates, ponds, and rip rap. Annual inspections are normally performed in the spring prior to irrigation season. These inspections are key to identifying any maintenance issues that need to be addressed. In addition to these formal annual inspections, semi-annual inspections are a more informal way of identifying any maintenance needs along the drain. Often, these align with post operation inspections that occur after floodwater conditions have subsided. In particular, these are important to understand potential erosion points, debris build-up, and any plugging of inlets/outlets or crossing structures.

## ACCESS AND USE

MRGCD owns or has easement interest along the entire Isleta Drain corridor. Easements are nonpossessory property interests that allow the easement holder to use land that they do not own, in this case, for the purpose of properly maintaining the drain. There are maps in the appendix that show the extents of the MRGCD right of way and easements.

There are a few areas where private residences must access the land adjacent to the drain to reach their homes. As will be discussed in the Preferred Alignment chapter, these sections are avoided insofar as possible in the recommended alignment to help maintain safety and separation between vehicles and pedestrians/cyclists. Gates and other appropriate barriers are also discussed in the Safety Recommendations section to explore ways to manage and mitigate traffic that should not be moving through these areas.



## OPPORTUNITIES AND CONSTRAINTS

After assessing the existing conditions around the Isleta Drain, the planning team summarized findings as either opportunities or constraints that would inform future design decisions.

### Connectivity

The Isleta Drain already functions as a corridor that provides the opportunity to connect South Valley residents with places they frequent, including schools, religious institutions, commercial centers and parks and open spaces. It intersects with many existing roads, trails and sidewalks that create a full network of movement potential. A goal of this plan is to provide a clear and safe alternative, particularly for pedestrians and bicyclists, to reach community nodes without needing to utilize roads that are intended for vehicular traffic.

**Constraints:** Several major intersections constrain safe movement along the Isleta Drain. Rio Bravo Boulevard is one of the busiest traffic corridors in the area and, though there is a

traffic light near the drain, this would need to be improved to allow for safe travel by users of the Isleta Drain corridor. Additionally, Coors Boulevard is a major road that serves as a barrier for residents to the west who might want to access the drain. Particularly, south of Rio Bravo Boulevard, users who might connect to the Isleta Drain from the Hubbell Oxbow Farm Open Space lack a safe crossing.

**Opportunities:** As roads throughout the South Valley are redesigned and updated, planners should work with these teams to ensure that improvements take into consideration those linkages that would provide safe facilities and linkages for pedestrians and bicyclists. Additionally, increasing the number of access points along the drain will assist both neighbors and visitors in safely entering or exiting the trail in a convenient way. On a related note, ABQ Ride transit stops near the drain should be considered and improved as access points, with appropriate signage both for the overall drain map and with indicators for nearby community destinations.



FIGURE 13. RIO BRAVO BOULEVARD



FIGURE 14. NO CROSSING OVER ARENAL MAIN CANAL

## Crossings & Accessibility

Similar to the consideration above, crossings and the issue of accessibility will greatly impact the ability of potential users to access and enjoy the Isleta Drain corridor. Intersections and crossings can be a barrier for the trail, but they also provide points of connectivity. If designed thoughtfully, they can offer safe points of entry, wayfinding opportunities, and respites for pause and enjoyment.

**Constraints:** Major road crossings include Bridge Boulevard, Arenal Road, Blake Road, Rio Bravo Boulevard, Gun Club Road, Pajarito Road, Raymac Road, and Los Padillas Road. These crossings impede north-south bicycle and pedestrian traffic. In some cases, such as south of Arenal Road, a residential access road shares the right of way along the east side of the Isleta Drain. Wherever possible, it is preferable to avoid locating a trail where vehicular use might impact or impede trail use.

**Opportunities:** The places where the drain intersects with roads also provide opportunities to focus trail amenities and create small community gathering spaces. If designed correctly, these intersections can provide space for users to safely access both trail corridor and roads, whether moving by foot, wheel or horse. There are several design elements that should be considered to help both road and trail users see and understand how they should move through these intersecting spaces, while considering the needs and safety of others. These include raised crossings and speed tables, striped crosswalks, accessible curb ramps, signalized intersections, and/or refuge islands in the roads. Each of these will be explored in later sections and recommendations will be provided for which option is most appropriate for the intersection.



FIGURE 15. NEW PEDESTRIAN CROSSING AT BRIDGE

## Amenities

Trail amenities include any element or facility that would improve the experience of users along the Isleta Drain. These could include parking, site furnishings and seating, restrooms, shaded structures, community gathering spaces and gardens, public art, lighting or exercise stations. The goal of trail amenities are to provide valuable assets along the corridor that can be sufficiently maintained by managing organizations and community stewards.

**Constraints:** The proposed Isleta Drain corridor is over 13 miles in length. Any additions of amenities or improvements will need to be prioritized and strategically placed in order to be conscientious of associated costs. Additionally, the width of the right-of-way along the drain will determine what is possible in terms of amenity placement. Amenity

placement should also consider the needs of maintenance vehicles who need to access the drain. Finally, any improvements that would attract families and young children should be evaluated in terms of safety, proximity to the channel, and water quality.

**Opportunities:** While the Isleta Drain does not have many amenities at the moment, there are several areas where the potential amenities listed above would be welcomed. Particularly, those open spaces adjacent to the drain (with a focus on those that are already owned by the County, MRGCD, and AMAFCA) offer potential community nodes that could comprise a combination of resting, parking or gathering potential, if enhanced by a few key elements.





## Landscape & Vegetation

Ditch and drain corridors have historically served as an extension of the bosque, supporting a wide variety of plant and wildlife species that have followed the water that irrigates the farm fields across the former flood plain of the Rio Grande.

**Constraints:** Cottonwoods are the predominant native tree that has historically populated the bosque, and subsequently the ditch and drain corridors. However, since their introduction in the 1930s, Siberian elms have taken hold and spread freely within these corridors, as well as on adjacent private lands. Their extreme adaptability enables them to out-compete native cottonwoods, resulting in a shift toward the non-native elms, along with other invasives such as Russian olive and salt cedar. As such, it is important to preserve as many natives as possible during any implementation that may occur along the Drain.

**Opportunities:** Native trees and understory plants can be reintroduced as part of the plant palette that is used to landscape any improvements that might be made. Such landscaping can help to stabilize soil, improve water quality, and provide much-needed shade refuges along the Isleta Drain corridor. However, these improvements should be strategic in their placement, species and water requirements as water and irrigation infrastructure will be limited. Placement should also consider the operations and maintenance activities of MRGCD. Finally, landscape design should consider availability and connection to City and County water infrastructure and opportunities for passive water harvesting or other sustainable methods as discussed in Chapter 3, Landscape and Environment.





## Right of Way

The majority of the right-of-way along the Isleta Drain provides ample room for a potential trail on either side of the drain. This right-of-way is generally close to 120 feet, but this varies along the drain, as some areas are restricted by trees, vehicular access points or adjacent properties.

However, there are a few notable areas where there is a designated vehicular access road that connects private residences to main roads. These areas should be avoided on the preferred alignment when possible. Additionally, given the different needs of potential users, including walkers, joggers, bicyclists, and equestrian users, separated paths and alternative alignments should be considered so as to avoid potential conflict between users.

There are also areas where the navigable land adjacent to the drain is narrower than ideal – some points 20 feet or less:

- Between the Pajarito Lateral connection and north of Foothill Drive – west side
- Between Mule Farm Place and Blake Road – east side
- Between Blake Road and Barcelona Road – east side
- Between Don Felipe and Pajarito Roads – west side
- Between Glory Court and Malpais Road – west side

**Constraints:** Maintenance vehicular access (minimum of 15 feet) must be maintained on both sides of the Isleta Drain when possible. Through some sections of the corridor, the right-of-way is tighter, which may force the preferred alignment into a shared space with maintenance vehicles, which includes heavy equipment. In these segments, additional reinforcement for the trail should be considered to appropriately handle the shared use by vehicles. Additionally, the drain, like

other water facilities, must be dredged to allow for optimized flow of water. The dredged material often must sit and dry out along the banks of the drain before it can be hauled away. Areas along the drain where encroachments are an issue should be addressed by partners as proactively as possible in order to mitigate issues in the future.

**Opportunities:** Many sections of the drain corridor have ample width to allow development of a trail while still leaving adequate width for a parallel maintenance road. Those facilities also provide opportunities for equestrian use on a separate, maintained, but soft-surfaced roadbed.



**FIGURE 16.** DRAIN BEING USED FOR PARKING IS AN ISSUE

## Water Quality

The Environmental Protection Agency (EPA) regulates storm water quality discharges from urbanized areas under the Clean Water Act Municipal Separate Storm Sewer System (MS4) program. Under this program, the Middle Rio Grande Watershed based permit was issued in December 2014, directing the improvement of programs and activities that enhance storm water quality through cooperative efforts between the City of Albuquerque, Bernalillo County, and 14 other co-permittees. Permit terms require permittees to develop and implement programs for the management and control of storm water pollutants that are known to occur in developed areas including particulates, solid waste (floatables), and biological pollutants.


**Constraints:** A major provision of the permit requires that permittees address storm water quality impacts related to redevelopment activities. When and where possible, any developments and improvements along the Isleta Drain should try to mitigate the impacts of water quality within the drain from storm water discharges.

**Opportunities:** Development of any recreational facilities along the Drain would provide numerous opportunities for remediating stormwater runoff, through revegetation seeding, new landscape plantings, water harvesting, soil stabilization, and related dust reduction. Furthermore, trees and other landscaping along the channel would help reduce water temperature, further enhancing water quality.



**FIGURE 17.** WATER FILTRATION AT ARENAL RD. CROSSING





*The vision for the Isleta Drain + Trail Plan is to provide an accessible, comfortable, and well-maintained natural corridor that allows the community to connect to the places that they work, learn, and recreate.*





# 3 PREFERRED ALIGNMENT & RECOMMENDATIONS







# INTRODUCTION

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The vision for the Isleta Drain + Trail Plan is to provide an accessible, comfortable, and well-maintained natural corridor that allows the community to connect to the places that they work, learn, and recreate. Residents have indicated that they appreciate the quiet setting and hope to maintain and improve habitat opportunities near the drain. This corridor should provide a safe transportation alternative to busy streets for walkers, recreators, bicyclists, mobility-limited and equestrians while also providing learning and recreation opportunities.

The following section describes the proposed preferred trail alignment, amenities and design concepts that will help to achieve that vision for the surrounding community.



## PREFERRED TRAIL ALIGNMENT

The preferred trail alignment has been determined based on several considerations and criteria, including different user needs along dissimilar segments of the drain, right-of-way width and accessibility, connectivity to community destinations and residential access points, existing shade canopy and habitat or open space potential and overall continuity of the alignment to avoid unnecessary switching of drains sides. The following table provides a summary of the Isleta Drain's right-of-way widths on both sides, as this is a primary factor that influences where a possible trail could go, while accommodating enough space for maintenance activities. This analysis, in coordination with the above considerations have guided the preferred trail alignment.

			Approximate Corridor Width (feet)				
Segment	From	To	West Side	Drain	East Side	Total	Notes
Atrisco	Cypress Dr.	Foothill Rd.	30	40	35	105	
	Foothill Rd.	Hooper Rd.	24	48	22	94	
	Hooper Rd.	Atrisco Dr.	28	42	30	100	ROW narrows on the west side close to Atrisco; shared vehicular traffic to north
	Atrisco Dr.	Bridge Blvd.	32	45	34	111	Anthony Ln runs east side of Drain through this section
Arenal	Bridge Blvd.	Arenal-Atrisco Feeder	28	40	34	102	Anthony Ln runs east side of Drain through this section
	Arenal-Atrisco Feeder	San Ygnacio Rd.	26	42	25	93	The Feeder intersects the Drain on the west side
	San Ygnacio Rd.	Mares Rd.	32	30	30	92	Cars frequently park along east side of Drain north of Mares
	Mares Rd.	Arenal Rd.	20	34	26	80	Maintenance vehicles on east side; potential connection to Arenal Open Space
	Arenal Rd.	Pajarito Lateral	30	40	28	98	
	Pajarito Lateral	Foothills Dr.	28	32	26	86	The west side of the Drain is narrowed just south of the lateral crossing, then widens before the road
	Foothill Dr.	Blake Rd.	30	36	22	88	
Rio Bravo	Blake Rd.	Barcelona Rd.	22	40	24	86	East side of drain closest to Blake Rd. is very obscured by trees and overgrowth
	Barcelona Rd.	Rio Bravo Rd.	38	35	32	105	
	Rio Bravo Rd.	Las Estancias Dr.	28	40	40	108	Alignment anticipating future residential
	Las Estancias Dr.	Gun Club Rd.	20	38	24	82	West side of Drain intersects with the Los Padillas Extension
Pajarito Rd.	Gun Club Rd.	Don Felipe Rd.	24	40	30	94	Heavy vehicular use on east side of Drain south of Gun Club Rd.
	Don Felipe Rd.	Pajarito Rd.	24	34	26	84	Neighbors have vocalized desire to have main trail on west side
	Pajarito Rd.	Garner Rd.	22	36	34	92	Primary vehicular access point on east side of Drain
	Garner Rd.	Cottonwood Ln.	28	42	34	104	Trail could work on either side of the drain through this section
	Cottonwood Ln.	Raymac Rd.	22	38	26	86	Trail could work on either side of the drain through this section
Los Padillas	Raymac Rd.	Brooksmoor Dr.	20	30	28	78	
	Brooksmoor Dr.	Chanate Ave.	18	30	30	78	Land west of Drain in this section could be an opportunity area
	Chanate Ave.	Norment Rd.	22	35	22	79	
	Norment Rd.	Los Padillas Rd.	24	34	22	80	Lovely shaded section of the Drain
	Los Padillas Rd.	Malpais Rd.	16	38	18	72	Primary vehicular access on east side of Drain north of Malpais
	Malpais Rd.	Malpais Rd.	22	36	30	88	





The map in Figure 18 is a snapshot of the overall trail corridor illustrating the proposed alignment and highlighting which side of the drain would be preferred for trail development, based on existing conditions investigations.

Additional detail regarding the preferred alignment is provided on the Character Area Alignment Maps.

The colored cells in the table to the left show the initial preferred alignment, which is based primarily on the available right-of-way on either side of the drain, but also takes into account the physical conditions adjacent to the drain, shared-use areas and feedback received through the community engagement process.

FIGURE 18. OVERALL PREFERRED ALIGNMENT MAP



- 1 Foothill Road Intersection**  
Shifting alignment to the west was determined here due to vehicular access on the east side of the drain.
- 2 Hooper Road Intersection**  
The potential right-of-way narrows on the west side between Hooper Road and Atrisco Drive. Additionally, there are potential connections to nearby Holy Family Church and the South Valley Senior Multipurpose Center east of the drain.
- 3 Atrisco Drive Intersection**  
The trail alignment shifts back to the west south of Atrisco Drive, as there are several residences with primary access along Anthony Lane on the east side of the drain.
- 4 Arenal-Atrisco Feeder Crossing**  
Where the Arenal-Atrisco Feeder intersects the drain, the gate and access move back to the east side of the drain until San Ygnacio Road.
- 5 San Ygnacio Road Intersection**  
The alignment shifts back to the west at San Ygnacio Road to take advantage of ample right-of-way and potential connections to Atrisco Elementary and two churches.

FIGURE 19. PREFERRED ALIGNMENT- NORTH



FIGURE 20. PREFERRED ALIGNMENT- SOUTH

- 6 Rio Bravo Boulevard Intersection**  
An existing signalized crossing at Loris Drive shifts the alignment back to the east, south of Rio Bravo Boulevard. This alignment was also chosen in anticipation of future residential development and access here.
- 7 Las Estancias Drive Intersection**  
The alignment moves back to the west at Las Estancias Drive, anticipating future connections to the Hubbell Oxbow Open Space. The Los Padillas Extension also creates a barrier on the east side of the drain.
- 8 Garner Road Intersection**  
There is slightly more right-of-way on the east side of the drain between Garner Road and Raymac Road. Also, this alignment provides better access for residential areas to the east.
- 9 Raymac Road Intersection**  
The alignment moves to the west at Raymac Road to avoid barriers along the east side of the drain. There are additional residential areas (Western Terrace) that could connect to the Isleta Drain from Chanate Avenue. There is also good shade from mature trees to the west through this section.
- 10 Malpais Road Intersection**  
Finally, it is recommended that the alignment shift back to the east/north as it rounds the southern section of the Isleta Drain so as not to encroach on Tribal Lands.

## TRAIL SURFACING

### User Types

Any development within the Isleta Drain corridor should safely accommodate a range of user types. During the community engagement process, neighbors described the many ways that the Isleta Drain corridor is already used by the community. By far, walking was listed as the most common activity (nearly 50 percent of respondents listed this as the primary activity), followed by biking. An important priority for any future trail design is to consider whether and how to separate various uses to provide safe passage for everyone involved. Clear and simple signage should encourage the best uses of different trail sections so users understand and respect these guidelines.

In the case of the Isleta Drain corridor, trail users can generally be categorized into three types – on foot, equestrians, and non-motorized wheeled conveyances. “On foot” would include walkers and runners pursuing a variety of activities, including walking dogs or other pets, bird watching, etc. Wheeled trail users could include bicycles, strollers, scooters, rollerskates/blades, ski trainers, and other non-motorized forms of personal transportation.

In addition to the above categories of user groups, a major player within the corridor that must also be accommodated is maintenance activities. In order to meet the primary function of the corridor of carrying water, the channel must be maintained. That requires periodic access by vehicles ranging from pickup trucks to heavy equipment such as excavators and dump trucks. While both MRGCD and AMAFCA are amenable to sharing the corridor with recreational users, both have indicated a strong preference for keeping those uses separated, as maintenance and maintenance vehicle access must occur on both sides of the drain.



Walkers and Runners



Bicyclists



Equestrians



Dog Walkers

Given the wide range of uses and user groups, the potential for conflicts to arise is fairly great, particularly between those groups with the largest differential in size and/or speed. Maintenance vehicles comprise the proverbial elephant in the room, since they are hard to miss. Yet, despite the primacy of their mission to maintain the ditches, trail users often resent their presence. Second only to maintenance equipment, bicycles are seen as the next most prolific offender – at least by those who are not on bicycles. In almost all cases, the source of these conflicts is the greater speed differential between bicycles and pedestrian, or bicycles and horses. Trail etiquette signage and education are the primary tools that can be used to minimize those conflicts. For the safety of trail users and equipment operators, the MRGCD will work with Bernalillo County to notice trail users regarding scheduled maintenance and temporarily closed trail segments during maintenance activities.



## Corridor Typologies

To accommodate the various anticipated trail uses, user types, and levels of mobility while respecting surrounding context, different trail types and combinations may be appropriate within different reaches of the Isleta Drain corridor. As evidenced by community feedback at the January 2022 Public Meeting/Workshop (see results of dot voting in the image below), there is a wide range of preferences for surface treatments, with nearly as many attendees favoring no improvements as those wanting a fully developed combined-surface trail. These preferences must be addressed, while also meeting the intentions to create a fully accessible trail within the County.



January 2022 Public Meeting Voting Results

The following are different trail typologies that are recommended along the Isleta Drain:

### SHARED-USE PATH

Shared-use paths are by far the most common type of trail facility in urban and suburban settings. Shared-use paths provide a single surface that is shared by pedestrians and non-motorized wheeled vehicles, and in some cases can accommodate equestrians and other user groups. In order to serve the highest number of user groups, these paths are typically paved, although some trail management agencies prefer stabilized, unpaved, paths (see surfacing descriptions below). Shared-use paths provide the most economical solution for accommodating multiple user groups; however, a noted drawback is the likelihood of conflicts between user groups of different abilities, capabilities, and speeds.

### SINGLE-USE SEPARATED PATHS

Far less common, but theoretically less likely to result in user conflicts, separated paths can be designated for different intended uses if adequate space is available. A minimalist example of single-use paths would include a wide paved surface with striped areas denoted for “wheels” (bicycles, scooters, etc.) and “feet” (walkers, runners), and a separated soft-surface path for horses and users who prefer an unpaved surface. More complex installations would further subdivide unpaved uses into smaller groups such as off-road runners, mountain bikes, and equestrians, with separate paths or even separate routes for each. Such single-use paths are by far the most land-intensive as they require minimum widths for each of the assigned uses. And while they are intended to avoid conflicts, if not adequately monitored and enforced, the same conflicts can occur from users who ignore the use distinctions.

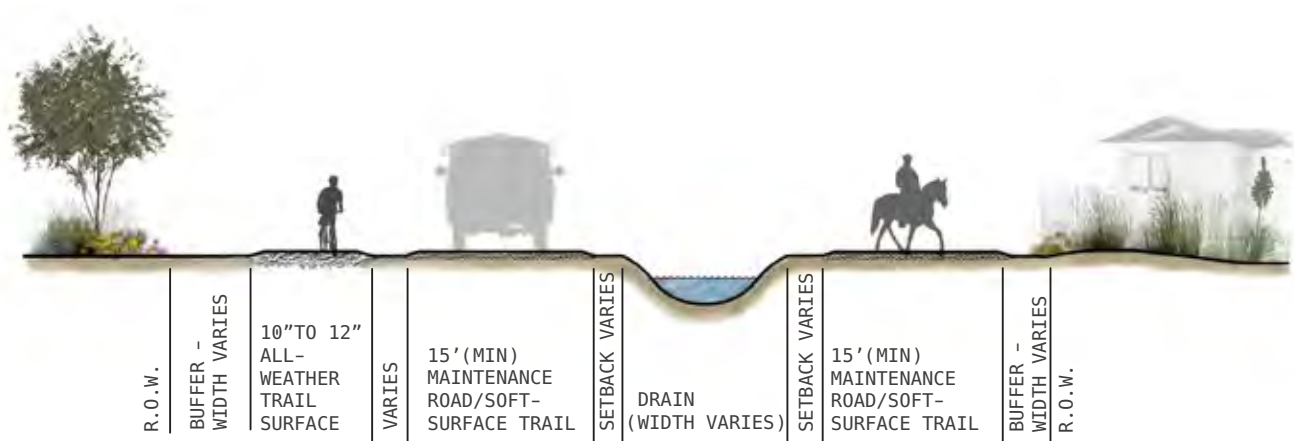
### COMBINED MULTI-USE, MULTI-SURFACE PATHS

In a suburban/rural setting such as the Isleta Drain Corridor, the most likely compromise among these options is one that combines disparate uses on separate hard- and soft-surfaced paths. Much like the “minimalist” single-use option described above, this would include a stabilized all-weather path for both pedestrians and wheeled users (albeit without separate use demarcations), with a parallel unsurfaced path for equestrians, mountain bikes, and pedestrians who prefer a more natural walking surface. In most cases this unsurfaced path would also serve as the maintenance road for the drain. In a few areas where right-of-way is sufficient, it may be possible to have an unsurfaced maintenance road on both sides of the drain, while still providing a parallel all-weather trail surface on one side.

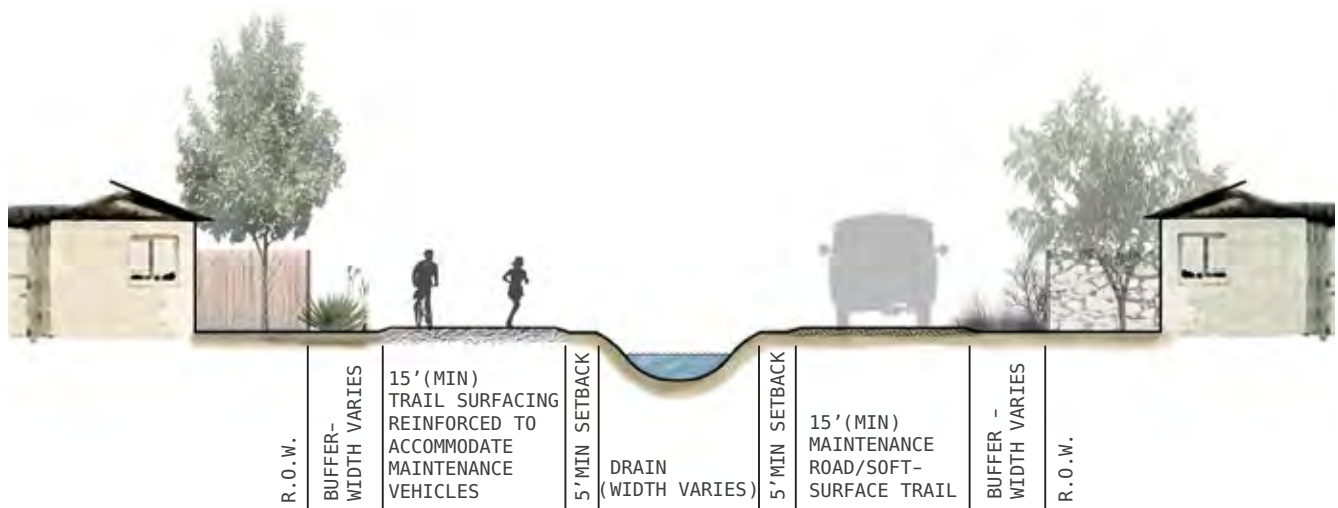
Trail treads should be sized to accommodate anticipated levels of use and surfaced with durable materials to maximize accessibility and reduce maintenance (see trail surfacing options).

Special consideration must be given to areas where the right-of-way is too narrow to sufficiently accommodate both trail uses and maintenance vehicles. In these cases, the trail and maintenance road may need to share the same space via reinforced surfacing, and care should be taken to locate any trail amenities outside the areas needed for maintenance vehicle movement.

Regardless of the trail configuration, clear and concise guidance should be provided regarding intended trail use should be posted at trailheads and regular intervals along the corridor. This will assist with educating the public about different intended trail uses and etiquette and improve overall user safety along the drain. This will be explored further in the wayfinding section of this chapter.



*Typical Multi-use, Multi-surface Path Configuration*



*Multi-use, Multi-surface Path in Constrained Right-of-Way*



## Surfacing Alternatives

Several trail surfacing options were considered in order to meet the needs of the various user groups. Each has its own benefits, as described below. In order to be ADA compliant, the primary future trail will most likely be paved, with options for alternative surfacing on adjacent alignments.

### NATURAL SURFACES

Natural surfacing, at its simplest, is merely the existing unimproved ground alongside the drain. By nature, it can vary from loose sand to silt to clay, and any combination of those soil types. This surfacing is well suited to equestrian trails and maintenance activities, but can be difficult for other users to navigate.

### STABILIZED NATURAL SURFACING

In order to make natural surfaces more conducive to trail use, binders or stabilizers can be added to consolidate the natural soils, prevent displacement under loading, and help the surface shed water to remain passable when weather deteriorates. Available from several manufacturers in a wide range of proprietary formulations, these materials can be blended into in-situ soils or imported natural materials such as decomposed granite or fine crushed gravels and compacted to provide a surface that will last for several seasons before needing to be replenished. These surfaces blend well into the natural environment of the drain corridor, and are generally considered ADA accessible as long as they are maintained and refreshed when deterioration begins to be evident. They also will deteriorate more quickly under heavy loads such as horse hooves and maintenance vehicle traffic.

### COMPACTED CRUSHER FINES

Crusher fines (the fine sand/gravel blend that is a byproduct of gravel crushing operations) can provide a very usable and cost-effective trail surface in many situations. It is particularly well suited for locations that already have a firm and relatively stable soil surface, such as sand/silt/clay blends, but is less effective in areas of loose sand. When properly compacted and maintained, crusher fines support a wide range of trail users, including bicycles and wheelchairs. However, proper drainage design and specification of a suitable material is critical, since not all crushed stone will remain consolidated under repeated



*Natural Surface Ditch Bank*



*Stabilized Natural Surfaces*



*Compacted Crusher Fines Surfacing*



freeze/thaw or rain events.

## ASPHALT SURFACING

Asphalt is probably the most common multi-use trail surfacing, due to its relatively low cost and lower maintenance requirements than natural surfacing materials. It can last for many years if properly maintained, but does require periodic maintenance in the form of crack repair and occasional resurfacing as it becomes rough over time. Asphalt is well suited to almost all trail uses, with the exception of equestrians. With added thickness, it will also stand up to occasional maintenance vehicle crossings, although it can be damaged by tracked machinery like dredges or excavators.

## CONCRETE SURFACING

Although among the most expensive surfacing options, concrete provides an even more stable surface than asphalt, as it generally lasts longer, and is not prone to deformation by extreme heat or incursion of tree roots (although it can crack or heave under certain conditions). It is well suited to the same uses as asphalt, but is more resistant to damage by tracked equipment, when installed to a minimum thickness of 6". Concrete also retains less heat than asphalt, due to its lighter color. While that feature is welcome in the summer, it can result in a longer thaw times in winter, when we receive those increasingly rare winter snows.



*Paved Trail (asphalt)*



*Paved Trail (concrete)*

## ALTERNATIVE MATERIALS

Several alternative surfacing materials have been developed in recent years, including recycled glass, recycled rubber, and tree resin binders. Of those materials, recycled rubber seems to show the most promise. Developed by tire companies as an outlet for disposing of used tires, these surfaces are weather resistant, permeable, and resilient, making them a comfortable, environmentally sensitive, walking surface, which also supports all other trail uses – including equestrians and maintenance vehicles. In a comparison test a number of years ago along the Santa Fe River, the recycled rubber surface held up the best of several experimental test samples (including recycled glass with a permeable binder, which deteriorated after several years). However, costs for this material exceed even that of concrete, due to a lack of local manufacturers and the resultant shipping costs. Nonetheless, recycled rubber can be a compelling surfacing option if environmental sensitivity (and/or all-weather walking comfort) is a high priority.

## COMBINATION SURFACING

As noted above in the Multi-Use, Multi-Surface Path Typology, the most appropriate surfacing type for the Isleta Drain Corridor would probably be a combination of paved and unpaved surfaces, either next to each other or on opposite sides of the drain channel. This combination could be supplanted in more rural areas by a combination of crushed stone or stabilized natural surfacing with an unpaved natural surface.



**RECYCLED RUBBER TRAIL SURFACING ON THE POPULAR OLD FAITHFUL TRAIL IN YELLOWSTONE NATIONAL PARK.**

All final decisions about trail surfacing should be made during the design phase of each segment of the project, however note that visual trail continuity is important and should be emphasized during design.



*Combination Path*



# ROAD CROSSINGS

Careful design of locations where the proposed trail alignment crosses roadways is important to ensuring a safe and comfortable experience for trail users.

Criteria for selecting road crossing treatments come from the Federal Highway Administration (FHWA) guidance, including the Guide for Improving Pedestrian Safety at Uncontrolled Crossing Locations (July 2018), accessibility standards including the United States Access Board's Public Right-of-Way Access Guidelines (PROWAG), and local standards including the Bernalillo County Technical Standards and the City of Albuquerque's Development Process Manual. These resources provide guidelines for implementation of roadway crossings mainly based on roadway traffic volume, roadway speed, and number of traffic lanes.

The project team also evaluated the feasibility of crossing treatments based on factors like the available right-of-way at the crossing location or existing crossing treatments in place near the proposed crossing location. The project team classified crossings into three types: Local, Collector, and Major. These groups generally correlate with the roadways' functional classification.

All but two roadway crossings along the Isleta Drain Trail alignment are County owned. Rio Bravo Boulevard is a state-owned highway, NM-500, and the portion of Gun Club Road that intersects with the Isleta Drain is owned by the City of Albuquerque.

The portions of Arenal Road, Barcelona Road, and Don Felipe Road crossed by the Isleta Drain + Trail alignment are school-related emergency routes. Treatments that include vertical deflection devices (such as speed bumps) are not recommended on these routes, as they can slow emergency vehicles.

## Types of Roadways

The majority of street crossings along the Isleta Drain Trail alignment are crossings of residential streets with "local" functional classifications, according to the Mid-Region Council of Governments (MRCOG). These are categorized as Local Street Crossings. These streets do not exceed two lanes total in width and have speed limits of 25 miles per hour and present the least potential stress or safety risk to trail users. The trail alignment crosses 20 local streets.

The next-most common crossing type is of Collector Street Crossings. All of these are designated as collector roadways by MRCOG, although the category does not encompass all collector roadways along the alignment. These roadways also have two lanes total and have speed limits of 25 to 35 miles per hour. All but one of these streets have traffic volumes of less than 9,000 average weekday daily traffic (AWDT), according to the latest pre-Covid-19 figures from 2019. (The exception is Blake Road, which had an AWDT of nearly 11,000 vehicles.)

Three other roadway crossings along the trail alignment were designated Major Street Crossings. Two of these, Rio Bravo Boulevard and Bridge Boulevard, are classified as major arterials by MRCOG.

Table 1 lists the roadways that the Isleta Drain Trail alignment would cross, from north to south, along with the crossing type (Local, Collector, or Major), the average weekday daily traffic (AWDT) volume, the roadway's posted speed limit, and its total number of vehicle lanes at the point where the Isleta Drain + Trail would cross it.

**TABLE 1. ROADWAY CROSSINGS ALONG THE ISLETA DRAIN TRAIL ALIGNMENT**

<b>Roadway name (north to south)</b>	<b>Crossing type</b>	<b>Average weekly daily traffic (AWDT)</b>	<b>Posted speed limit (miles per hour)</b>	<b>Number of vehicle lanes (total)</b>
Cypress Drive	Local	> 1,000	25	2
Felicitas Road	Local	> 1,000	25	2
Don Luis Road	Local	> 1,000	25	2
Foothill Drive (north leg)	Local	> 1,000	25	2
Hooper Road	Local	> 1,000	25	2
Atrisco Drive	Collector	4,300	30	2
Bridge Boulevard	Major	26,700	35	2
Anthony Lane	Local	> 1,000	25	2
San Ygnacio Rd	Local	> 1,000	25	2
Rosendo Garcia Road	Local	> 1,000	25	2
Kelly Road	Local	> 1,000	25	2
Mares Road	Local	> 1,000	25	2
Arenal Road	Major	11,900	35	3
Foothill Drive (south leg)	Local	> 1,000	25	2
Mule Farm Place	Local	> 1,000	25	2
Blake Road	Collector	11,700	30	2
Barcelona Road	Collector	4,600	30	2
Rio Bravo Boulevard	Major	23,000	45	5
Gun Club Road	Collector	5,400	30	2
Don Felipe Road	Collector	1,800	35	2
Pajarito Road	Collector	1,300	30	2
Garner Rod	Local	> 1,000	25	2
Cottonwood Lane	Local	> 1,000	25	2
Brooksmoor Drive	Local	> 1,000	25	2
Raymac Road	Collector	2,800	35	2
Chanate Avenue	Local	> 1,000	25	2
Acequia Drive	Local	> 1,000	25	2
Della Road	Local	> 1,000	25	2
Norment Road	Local	> 1,000	25	2
Los Padillas Road	Collector	2,000	25	2
Glory Court	Local	> 1,000	25	2
Malpais Road (west leg)	Collector	2,900	30	2
Malpais Road (east leg)	Collector	2,900	30	2



## Crossing Treatments

The project team considered several treatments for crossings along the Isleta Drain + Trail alignment. Based on federal and local guidelines, these treatments may be appropriate for the streets the Isleta Drain + Trail alignment would cross. For all crossing treatments and additional signage along the drain, signs should not be placed within the 15 feet of maintenance access where they might be damaged by equipment.

During or prior to the design phase, the County and design consultants must meet with Middle Rio Grande Conservancy District (MRGCD) and Albuquerque Metropolitan Arroyo Flood Control Authority (AMAFCA) staff to determine required access locations to the Isleta Drain from intersecting roads. Further review of types and locations of crossing treatments will be necessary as they could prevent access, especially by larger equipment, to drain banks.

Table 2 shows the feasibility of different treatments based on criteria including number of lanes and speed limit. The tables are adapted from the FHWA Guide for Improving Pedestrian Safety at Uncontrolled Crossing Locations and are presented for different ADT ranges. Treatments are described as being one of the following:

- Feasible, but additional treatment needed: The treatment should not be installed alone and should be accompanied by an additional treatment.
- Engineering judgment, meaning the

### LEGEND

✓	Feasible
✓+	Feasible, but additional treatment also needed
EJ	Engineering judgment
✗	Not feasible

**TABLE 2. CROSSING TREATMENT FEASIBILITY AT ROADWAYS ALONG ISLETA DRAIN + TRAIL ALIGNMENT**

#### Criteria: <9,000 ADT

Treatment	30 mph or less			35 mph			>35 mph	
	2 lane	2 lane with median	3 lane*	2 lane	2 lane with median	3 lane*	4+ lanes, no median (Bridge Blvd)	4+ lanes w/ median (Rio Bravo)
Marked crosswalk with signage	✓	✓	✓	✓+	✓+	✓+	✓+	✓+
Crosswalk with yield lines	✗	✓	✓	✗	EJ	EJ	EJ	EJ
Raised crosswalk	✓	✓	✓	✗	✗	✗	✗	✗
Median refuge island	EJ	✓	EJ	EJ	✓	EJ	EJ	EJ
Rectangular Rapid Flashing Beacon	✗	✗	✓	✓	✓	✓	✗	✗
Pedestrian hybrid beacon crossing	✗	✗	✓	✓	✓	✓	EJ	EJ
Full traffic signal crossing	✗	✗	✗	✗	✗	✗	EJ	EJ
Grade separated crossing	✗	✗	✗	✗	✗	✗	EJ	EJ

#### Criteria: 9,000-15,000 ADT

Treatment	30 mph or less			35 mph			>35 mph	
	2 lane	2 lane with median	3 lane*	2 lane	2 lane with median	3 lane*	4+ lanes, no median (Bridge Blvd)	4+ lanes w/ median (Rio Bravo)
Marked crosswalk with signage	EJ	✓+	✓+	EJ	✓+	✓+	✓+	✓+
Crosswalk with yield lines	✗	✓	✓	✗	EJ	EJ	EJ	EJ
Raised crosswalk	✗	✗	✗	✗	✗	✗	✗	✗
Median refuge island	EJ	EJ	EJ	✓	✓	✓	✓	✓
Rectangular Rapid Flashing Beacon	✓	✓	✓	EJ	EJ	EJ	✗	✗
Pedestrian hybrid beacon crossing	✗	✓	✓	✓	EJ	EJ	EJ	EJ
Full traffic signal crossing	EJ	EJ	EJ	EJ	EJ	EJ	EJ	EJ
Grade separated crossing	EJ	EJ	EJ	EJ	EJ	EJ	EJ	EJ

#### Criteria: >15,000 ADT

Treatment	30 mph or less			35 mph			>35 mph	
	2 lane	2 lane with median	3 lane*	2 lane	2 lane with median	3 lane*	4+ lanes, no median (Bridge Blvd)	4+ lanes w/ median (Rio Bravo)
Marked crosswalk with signage	EJ	✓+	✓+	✓+	✓+	✓+	✓+	✓+
Crosswalk with yield lines	✗	EJ	EJ	EJ	EJ	EJ	EJ	EJ
Raised crosswalk	✗	✗	✗	✗	✗	✗	✗	✗
Median refuge island	EJ	EJ	EJ	✓	✓	✓	✓	✓
Rectangular Rapid Flashing Beacon	✓	✓	✓	✓	EJ	✗	✗	✗
Pedestrian hybrid beacon crossing	✓	✓	✓	✓	EJ	EJ	EJ	EJ
Full traffic signal crossing	EJ	EJ	EJ	EJ	EJ	EJ	EJ	EJ
Grade separated crossing	EJ	EJ	EJ	EJ	EJ	EJ	EJ	EJ

\*One lane in each direction, plus a center two-way left turn lane. Along the proposed Isleta Drain + Trail alignment, only Arenal Road meets the description

treatment should only be considered after an engineer's detailed assessment of the specific location and context

- Not feasible: The treatment is likely not appropriate at the given location

Table 3 describes four key crossing treatments that would be feasible at most crossings along the trail alignment, especially those that are across local streets or collector roadways. All crossings should have at least a marked crosswalk and trail-related signage indicating the location of the trail crossing and depicting who has the right-of-way.

**TABLE 3. KEY ROADWAY CROSSING TREATMENT OPTION FOR ISLETA DRAIN + TRAIL ALIGNMENT**

Marked Crosswalk & Signage	Raised Crosswalk
<p>This is a recommended basic treatment for all street crossings along the Isleta Drain Trail alignment. A marked crosswalk indicates to trail users where they should cross and lets motorists anticipate trail users. With a marked crosswalk, painted markings are placed in the roadway in line with the path of the trail. The crosswalk markings should be at least as wide as the trail. A ladder-type or "continental"-type crosswalk pattern is recommended, as it allows vehicle tires to pass between the markings, reducing wear and extending the life of the markings.</p> <p>Marked crosswalks should always be installed along with signage along the roadway on the approach to the trail crossing. This signage should alert motorists to the presence of a trail crossing in advance of the crossing and indicate the location of the crossing. Signage must indicate who has the right-of-way at a crossing. Typically, a motorist retains the right-of-way, in which case stop signs are needed facing trail traffic. However, if trail users are given the right-of-way at a particular crossing, then signage, such as a "Yield to Bikes and Pedestrians" sign, must be installed, along with appropriate pavement markings, such as yield lines or a stop bar.</p>	<p>The raised crosswalk option is an enhanced marked crosswalk. It combines a crosswalk with a speed table. The elevated element encourages motorists to slow down and provides trail users a more seamless crossing, free of changes in grade. Raised crosswalks should be combined with the same signage that would accompany a regular marked crosswalk, along with signage indicating to motorists the presence of a speed table.</p> <p>Raised crosswalks are not recommended on roadways with posted speed limits of 35 miles per hour or higher. Raised crosswalks are typically not recommended on emergency routes because they slow emergency vehicles.</p>
Pedestrian Refuge Island	Centerline Pin Curb
<p>A pedestrian refuge island is a raised concrete median in the center of a roadway designed with space for pedestrians/ cyclists as they wait for traffic to clear. A refuge island allows trail users to cross one half of a roadway at a time, making the crossing safer and more comfortable. The median must typically be at least 4 feet wide, but in cases like with the Isleta Drain Trail where significant bicycle traffic is anticipated, they should be at least 8 feet wide in order to accommodate the length of a bicycle. Because most roadways along the Isleta Drain Trail alignment are only two lanes wide, the roadway would need to be widened to accommodate a median in the center of the roadway.</p>	<p>Centerline pin curb is curb built in place of the roadway centerline stripe. "Pin" refers to metal pins over which concrete that forms the curb is placed, helping to keep the concrete in place. As it takes the place of the centerline stripe, the curb is normally painted yellow to match a stripe. Like a stripe, a centerline pin curb helps delineate roadway lanes, but because it has a vertical component, it makes vehicle lanes feel narrower and encourages vehicles to slow down. It is therefore useful near pedestrian or trail crossings, where traffic calming may be needed. No guidelines exist for where centerline pin curb should be constructed. The decision to construct this treatment in a particular location should be based on engineering judgment; however, the treatment is likely feasible along most streets the Isleta Drain Trail would cross. Particular attention must be given to nearby driveways – centerline pin curb can block full access to driveway.</p>



## Local Street Crossings

All local crossings should have at least a marked crosswalk and trail-related signage indicating the location of the trail crossing and depicting who has the right-of-way. This treatment can be combined with a raised crosswalk at most crossings of local, residential streets. The raised crosswalk gives trail users a more seamless crossing experience and encourages motorists to slow down and exercise more caution as they cross the trail. Other key treatments are feasible are local street crossings, but given the low volumes and speeds on these roads, the other treatments may have limited impact on trail users' safety or comfort.

Figure 21 illustrates the recommended typical treatment for local street crossings.

Additional consideration is needed at local street crossings where the roadway approaches the trail crossing on a curve. These streets include Felicitas Road, Foothill Drive (south leg), and Acequia Drive. At these locations, the trail crossing would be obstructed by walls or fences. Approaching motorists would not see the crossing until they are very near it, and trail users would not see approaching motorists. These crossings require additional road signage and possibly pavement markings farther in advance of the crossing than on local streets that approach the crossing perpendicularly.

Acequia Drive does not have adequate sight line along the curve for a raised crosswalk so this intersection requires a rectangular rapid flashing beacon (RRFB) to alert oncoming eastbound motorists. If a curve provides adequate sight line, a raised crosswalk could be utilized in these areas. Figure 22 shows the typical treatment adapted for a curve approach.

**FIGURE 21. ROSENDO GARCIA ROAD - LOCAL ROAD CROSSING TREATMENT EXAMPLE**



**FIGURE 22. ACEQUIA DRIVE - LOCAL ROAD CROSSING TREATMENT EXAMPLE WITH CURVE APPROACH**



## Collector Roads

Table 4 shows the feasibility of key treatment on crossings at each collector street along the trail alignment, based on similar criteria to what is shown in Table 2, with the addition of centerline pin curb. Raised crosswalks can be employed on some collector streets where the speed limit is 30 miles per hour or lower. Other key treatments, including pedestrian refuge islands and centerline pin curb, may be feasible at different collector street crossings. The table also includes information about the current drain-to-drain width at each location. This is the distance between each drain opening measured across the roadway lanes and is relevant to understanding whether space exist for a raised median to be installed at the given crossing.

**TABLE 4. FEASIBILITY OF CROSSING TREATMENTS AT COLLECTOR STREETS ALONG ISLETA DRAIN TRAIL ALIGNMENT**

### Collector Roadways

	Average weekday daily traffic (AWDT)	Posted speed limit (mph)	Lanes (total)	Available width (feet)*	Drain is access or cross-street parallel**	Feasibility of key crossing options		
						Median refuge island	Raised crosswalk	Centerline pin curb
Atrisco Drive	4,300	30	2	55	No	✓	✓	✓
Blake Road	11,700	30	2	72	Yes	EJ	✗	✗
Barcelona Road	4,600	30	2	60	Yes	✓	✓	✗
Gun Club Road	5,400	30	2	94	No	EJ	EJ	EJ
Don Felipe Road	1,800	35	2	51	No	EJ	✗	EJ
Pajarito Road	1,300	35	2	40	No	EJ	✗	✓
Raymar Road	2,800	35	2	80	No	✓	✗	EJ
Los Padillas Road	2,000	25	2	62	No	✓	✓	✓
Malpais Road (west leg)	2,900	30	2	38	No	✗	✓	✓
Malpais Road (east)	2,900	30	2	46	No	✗	✓	✓

\* Approximate distance between drain openings across the median.

\*\* Remaining width is available with after 8-foot-wide median for one-foot clearances on either side of the median are constructed. Remaining width with new C&G and sidewalk assumes new 24-foot-wide curb and gutter and 8-foot-wide sidewalks on both sides of roadway. These elements comprise 24 feet total.

\*\*\* (1) A fence line lies very near the drain near the proposed trail alignment, meaning that while there may be adequate width between the drain openings to widen the street for a median refuge, road widening is likely infeasible due to probable impacts to adjacent fence lines; and/or (2) The drain had an easement for access to properties that front the drain, or a minor street or driveway runs parallel and very close to the drain and intersects the major road (the road the drain lies) would mean, meaning that placing a refuge island or operating all-out curb in the major road could block access to the drain access or the minor street/driveway.

### LEGEND

✓	Feasible
✓+	Feasible, but additional treatment also needed
EJ	Engineering judgment
✗	Not feasible

Figure 23 depicts a crossing treatment for Atrisco Drive and one that is feasible at many collector roads along the trail alignment. The trail would cross the road via raised crosswalk. A median refuge island would provide additional protection to trail users. As with most streets where a new median would be constructed, the roadway may need to be widened to accommodate the median. Alternatively, in such locations, the existing roadway width could be maintained and only a raised crosswalk installed, rather than the median. A median refuge of less than eight feet in width is not recommended.

The west leg of Malpais Road approaches the Isleta Drain on a curve and may require additional signage treatments, like with certain local streets. (See Figure 22).

**FIGURE 23. ATRISCO DRIVE - COLLECTOR ROAD CROSSING TREATMENT EXAMPLE**





## Major Street Crossings

The major crossings along the trail alignment, Rio Bravo Boulevard, Arenal Road, and Bridge Boulevard, require more intensive and tailored treatments due to the roads having higher automobile traffic volumes or unique land uses nearby, such as at Arenal Road, where Rio Grande High School and the planned Arenal Open Space are located immediately adjacent to the trail crossing. The following sections describe the intersections and the recommended trail crossing treatments at each.

### RIO BRAVO BOULEVARD

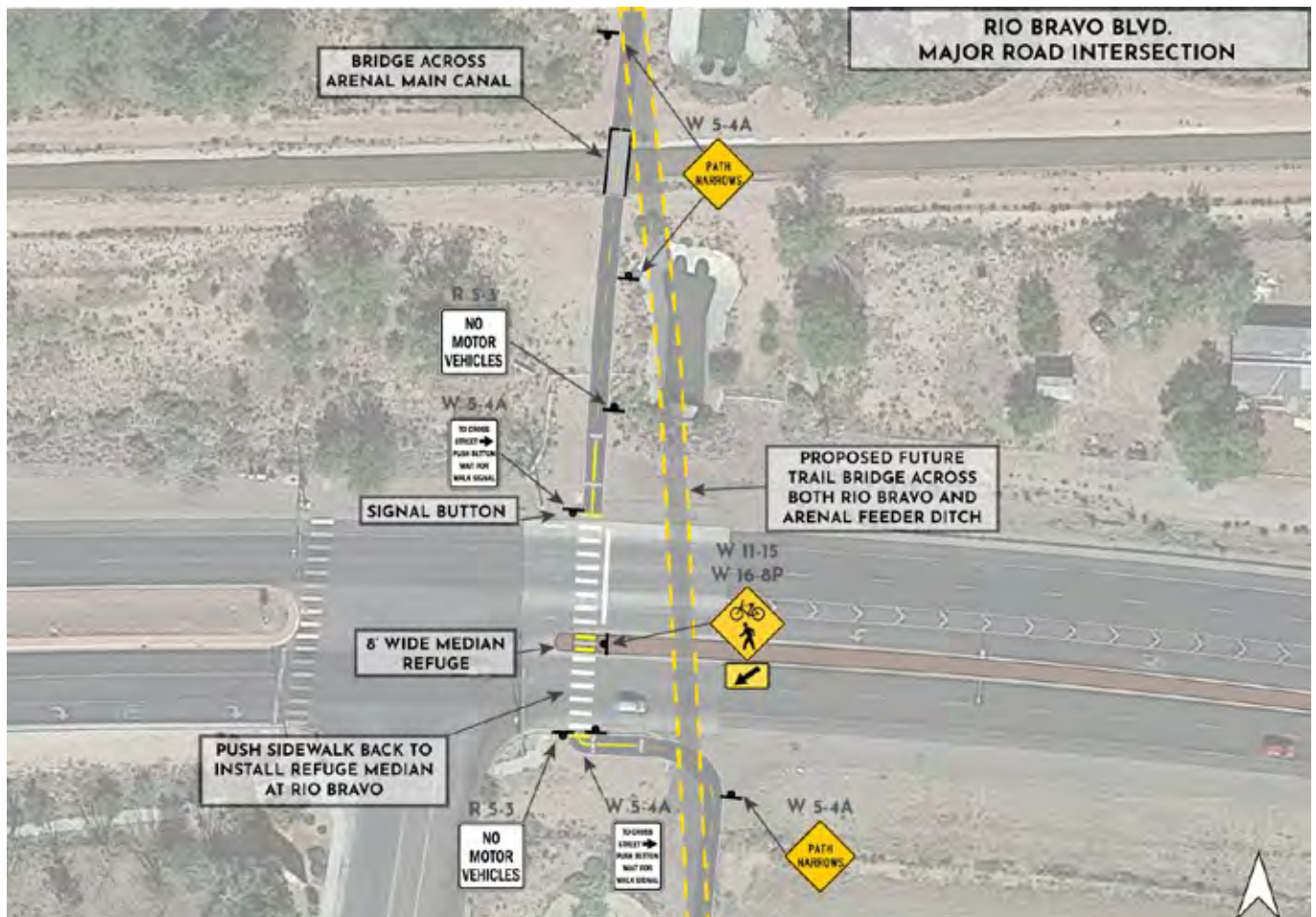
Rio Bravo Boulevard features two lanes in each direction and a speed limit of 40 miles per hour. The Isleta Drain cross the roadway directly east of the intersection of Rio Bravo Boulevard and Loris Drive. At this location, Rio Bravo has a 30-foot-wide concrete median. On the east side of the intersection there is dedicated left-turn lane for turns from eastbound Rio Bravo onto southbound Loris Drive. The lane reduces the width of the concrete median to approximately 10-12 feet.

The recommended trail crossing adapts the existing pedestrian cross on the east side of

the street. The crossing would use the existing crosswalk that crosses Rio Bravo. The crosswalk markings have worn and need to be refreshed. The trail crossing would be controlled by pedestrian crossing signal coordinated with the traffic signal.

A future phase could include a new pedestrian bridge that would be constructed across Rio Bravo Boulevard and the Arenal Main Canal to the north. Signage north of the roadway would need to be carefully designed to warn trail users of the narrowing of the path at the bridge and of the nearby Rio Bravo crossing.

**FIGURE 24. PROPOSED TRAIL CROSSING AT RIO BRAVO BOULEVARD**

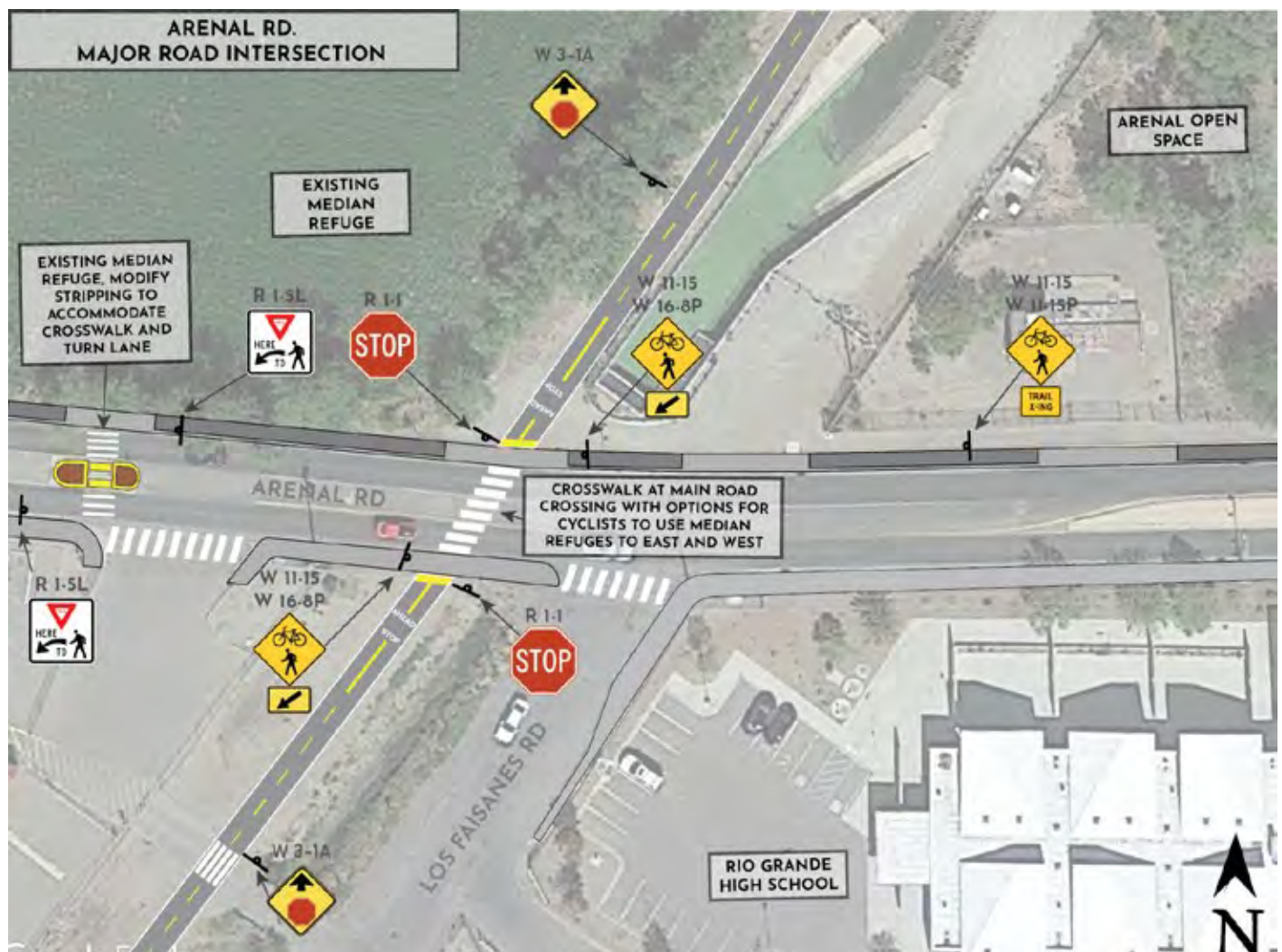


## ARENAL ROAD

The Arenal Road crossing would be located at a complex intersection, with various land uses, driveways, and traffic control devices converging on one location. At the point where Arenal Road crosses the Isleta Drain, the roadway has one lane in each direction with an additional center left-turn lane. The turn lane provides access to the Rio Grande High School's main parking lot, located west of the drain on the south side of Arenal Road, and to Los Faisanes Road, which runs along the west side of the high school and provides access to parts of the school complex. In addition to the high school complex to the southeast of the crossing, the planned Arenal Open Space recreation area is planned for the area to the northeast of the crossing.

Prior to design of the trail crossing at this location, Bernalillo County and any design consultants should observe traffic behavior – especially around school start and end times – and coordinate with APS on the crossing's design. The recommended crossing treatments are intended to provide trail users a direct path across the roadway, while keeping trail user movement visible and predictable for motorists. In the recommended treatment, shown in Figure 5, a marked crosswalk would extend across Arenal Road in line with the trail alignment on the west side of the drain. During school morning arrival, automobiles are likely to stack within the left-turn lane and block the crosswalk. Signage should encourage yielding to trail users crossing the roadway.

**FIGURE 25. PROPOSED TRAIL CROSSING AT ARENAL ROAD (MAJOR STREET)**





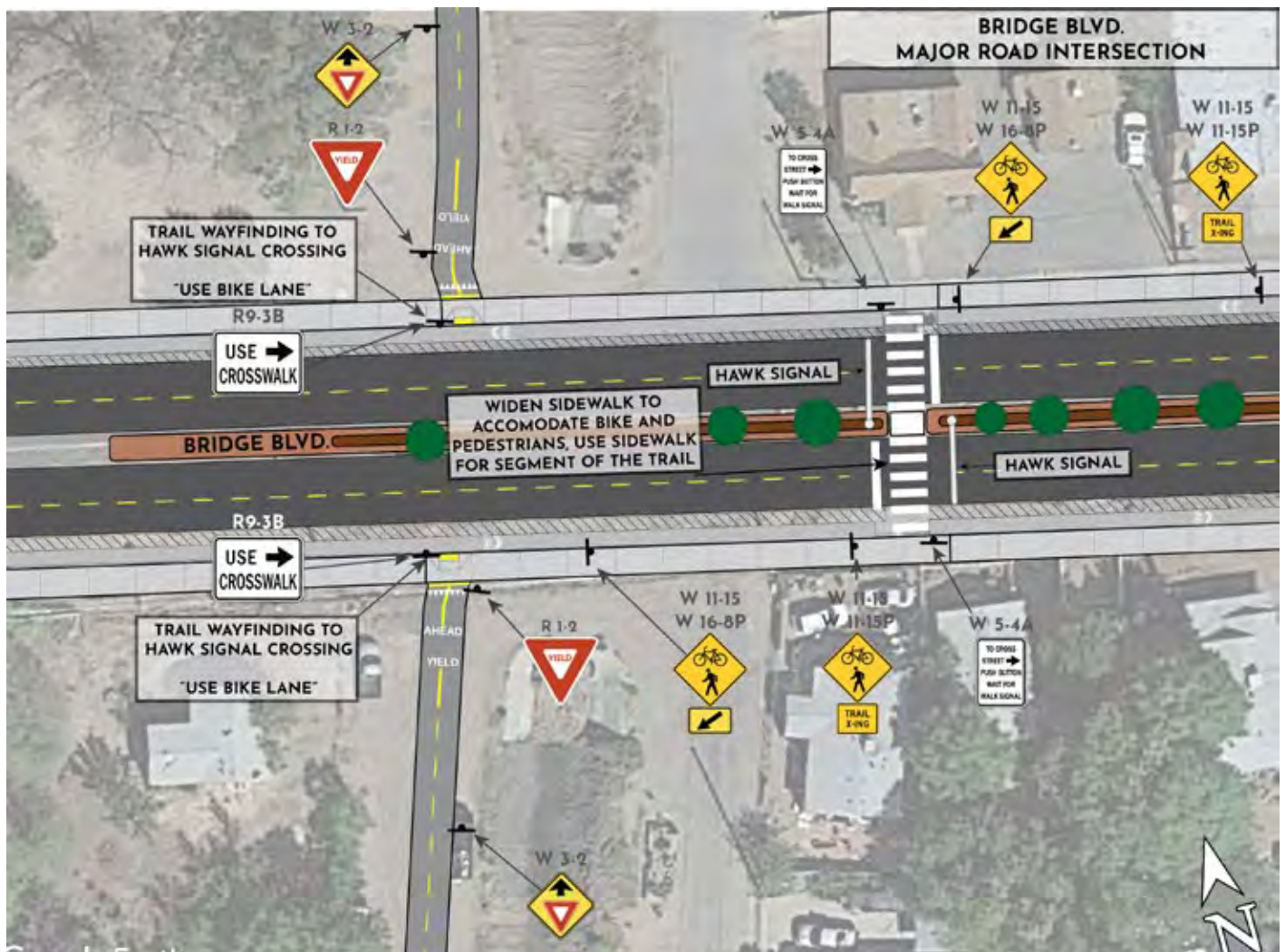
## BRIDGE BOULEVARD

Bridge Boulevard is being reconstructed at the time of this study. As shown in Figure 26, the new roadway cross section will have two vehicle lanes in each direction, with bicycle lanes on both sides of the roadway. A landscaped median will replace the existing central turn lane. A mid-block crossing, with marked crosswalk and pedestrian hybrid beacon signal, is being installed a short distance to the east of the Isleta Drain.

Both sides of the Isleta Drain on both sides of Bridge Boulevard are used for residential access. The east side of the drain is a paved road, Anthony Lane, while the west side of the drain is an unpaved easement access.

The proposed trail alignment would follow the easement to the west side of the drain. The trail crossing would use the new mid-block crossing. This would require trail users to travel a short distance to the east of the drain using the sidewalk, activate the pedestrian hybrid beacon, cross via the marked crosswalk, and then return to the trail to the west along the sidewalk. At each end of the trail, a curb cut would provide a connection between the trail and the adjacent bike lane. Signage would direct users to either use the marked crosswalk or, if they are riding bicycles, to use the bike lane. The trail would need to narrow to six feet wide where it merges with the sidewalk.

FIGURE 26. PROPOSED TRAIL CROSSING AT BRIDGE BOULEVARD (MAJOR STREET)



## TRAIL FEATURES

Beyond the basic functional aspects of a trail, incorporating special features and amenities can enhance users' experience and provide a "sense of place" that uniquely characterizes the Isleta Drain corridor. Proposed improvements are concentrated and organized around areas of highest potential and use, based on the earlier analysis of existing conditions along the Isleta Drain. These feature areas include:

- **Gateway Trailheads** - The most highly developed and enhanced spaces that serve as gateways to the corridor and welcoming entry points from the surrounding community
- **Major Community Nodes**- These are opportunity areas that have natural features or important community connections
- **Minor Neighborhood Nodes** - Road crossings that are close to or provide connections to community spaces; local trailheads

Determination of appropriate levels of development of those feature areas was driven primarily by public input. Throughout the planning process community members shared their ideas and preferences for features they would like to see via the Community Survey, comments offered on the project website, and feedback solicited during pop-up events and the community workshop. Additional discussions were held with agency representatives regarding appropriateness of various facilities at different points along the drain.

The following recommendations suggest effective ways of clustering trail amenities at key locations within the Isleta Drain corridor, while concentrating resources in areas of highest potential impact. As noted above, these areas are described as, 1) Gateway Trailheads, 2) Major Community Nodes, and 3) Minor Neighborhood Nodes.

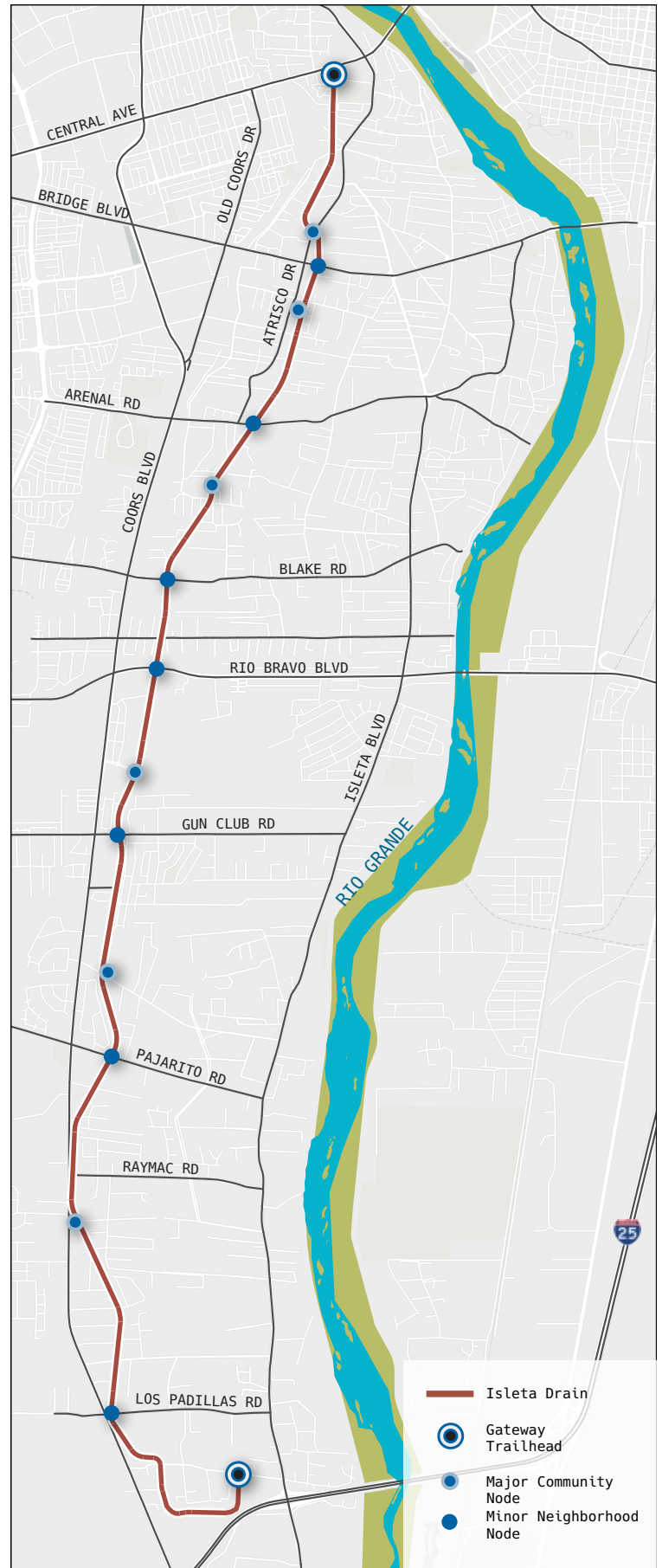


FIGURE 27. TRAIL FEATURE LOCATIONS



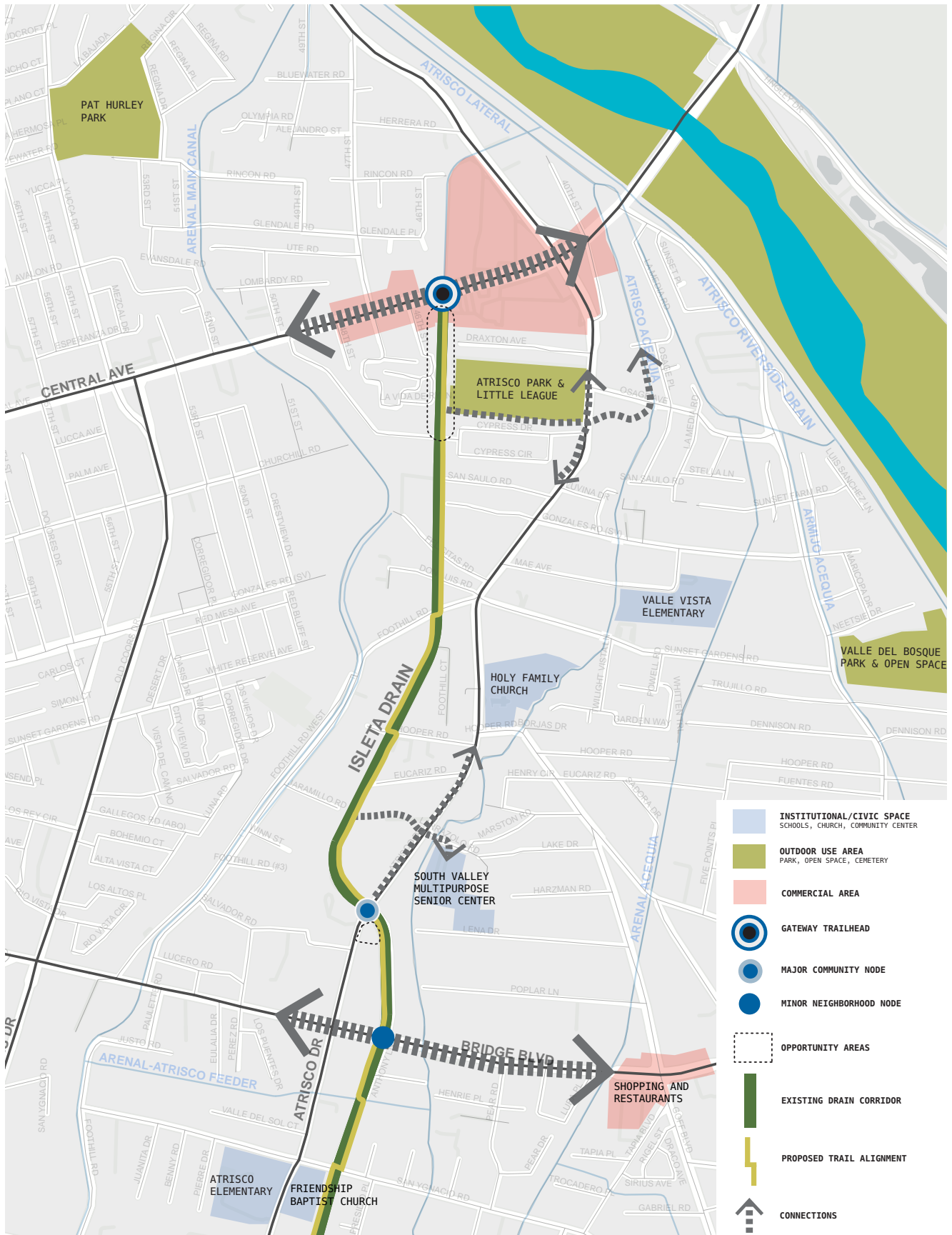


FIGURE 28. ATRISCO - TRAIL FEATURES





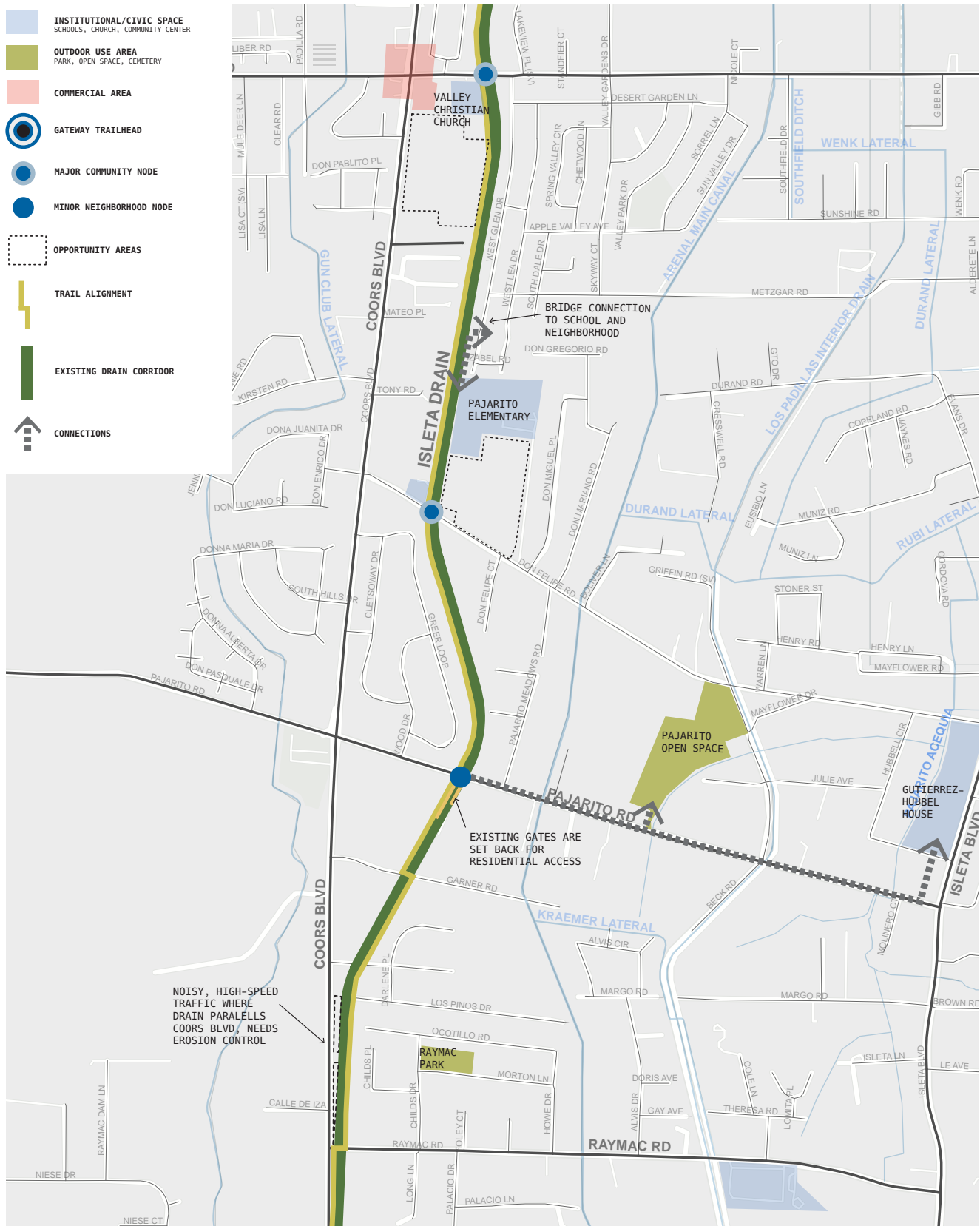


FIGURE 31. PAJARITO - TRAIL FEATURES



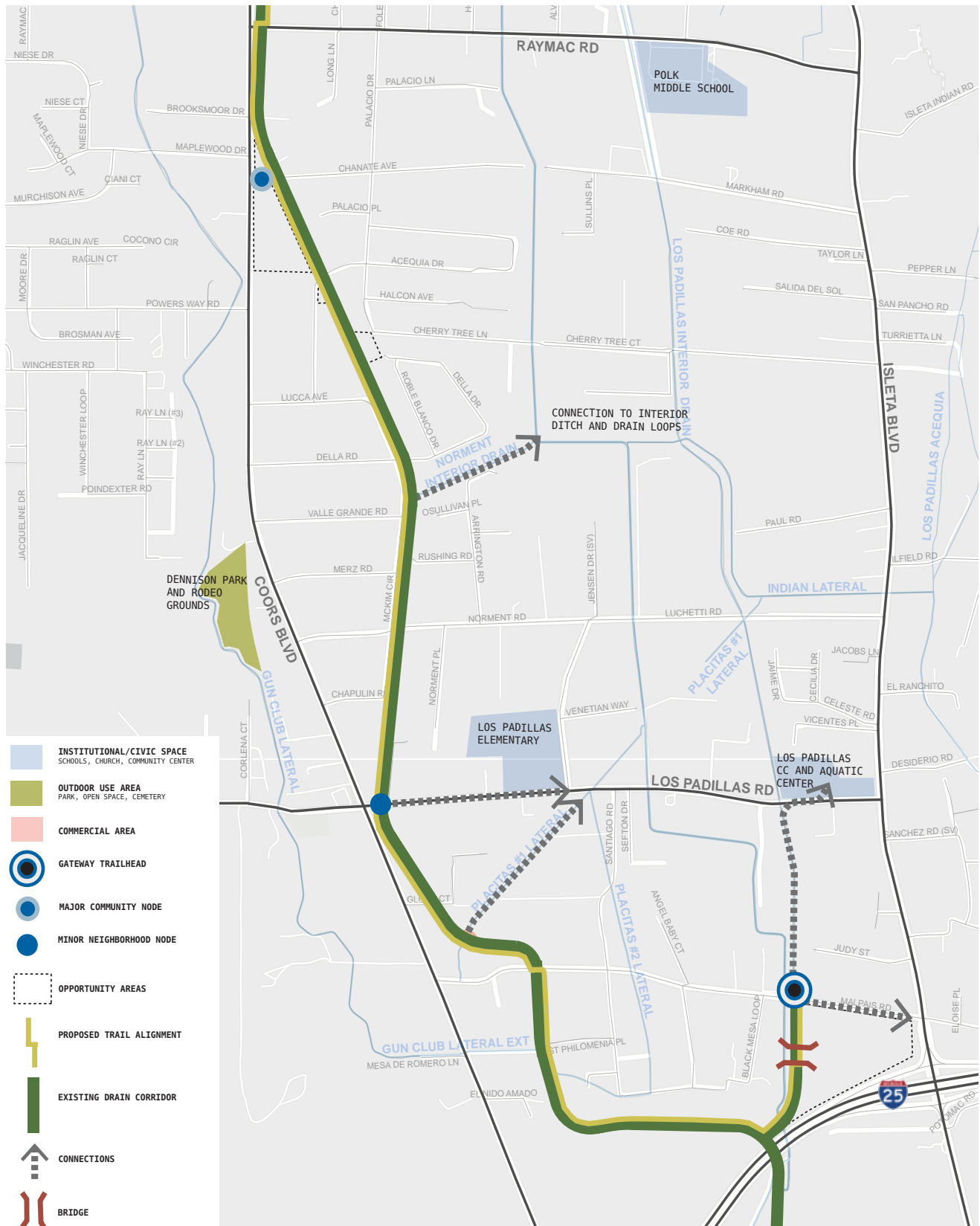


FIGURE 32. LOS PADILLAS - TRAIL FEATURES

## Gateway Trailheads

Gateway Trailheads are the two key locations that bookend the proposed Isleta Drain + Trail. They would allow users to park, access the trail, and orient themselves. They could also provide basic facilities such as restrooms, potable water stations, shade (either through vegetation or overhead canopies), and places to rest, eat or gather. Interpretive and educational signage can inform trail users about the function, heritage, and habitats that have developed around the ditch and drain system. Large signs announcing the Drain + Trail Corridor would provide an immediate identity and invite potential users to stop and experience the corridor. Public art could play a prominent role in these areas.

Proposed Gateway Trailheads are limited to the north and south ends of the corridor, and strategically located in areas where it would be appropriate for users who do not live adjacent to or near the drain to access this space without inconveniencing local residents. In between trailheads and throughout the corridor, there are additional locations where users might access shared parking facilities; however, those are not considered Gateway Trailheads since they would not have the additional amenities proposed here.



### PLACEMENT CRITERIA:

- At beginning/end of the trail
- Must have sufficient right-of-way and space for amenity development
- Should not impose significant impacts on adjacent residential areas
- Should be close to community centers and activity areas
- Beneficial to be near other transit opportunities
- Should have access to utilities

### POTENTIAL AMENITIES:

- Accessible parking lot with all-weather path connection to the trail
- Solar lighting
- Gateway & interpretive signage
  - Trail/corridor identification
  - Informational/educational exhibits
  - Map kiosks
  - Wayfinding
- Seating & Site Furnishings
  - Trash receptacles (must be near a road/access point for maintenance)
  - Bike facilities (racks, maintenance stands)
  - Benches, picnic tables
  - Water fountains
  - Dog waste stations (focus more in higher density residential areas and crossings)
  - Shaded areas
  - Gathering Areas
- Exercise equipment or ADA challenge stations
- Playgrounds and opportunities for Children
- Restrooms (not in drain right-of-way)
- Landscaping (plantings, irrigation, native seeding)
- GSI/LID Improvements
- Public Art



Example Trailheads

## CONCEPTUAL PLAN FOR GATEWAY TRAILHEAD AT ATRISCO PARK

The north end of the corridor provides a prime opportunity for a gateway trailhead with several tie-ins to the local community. The drain conveyance is buried in this location, leaving a 100-foot-plus open space that can serve multiple purposes. It abuts Atrisco Park and Little League to the east, so could serve as an extension of the park, and provide additional parking for park events, as well as trailhead parking. As shown in the graphic on the next page, the parking access road would also provide necessary access to a drainage pump station that lies along the west edge of the park.

Another key opportunity is the potential for a connection to Central Avenue to the north, which would provide easy access to mass transit, as well as the restaurants and stores in the area. It would also enhance site security (currently an issue due to the “abandoned lot” character of the property) by increasing desirable traffic through the site, and enabling police and emergency access from

multiple points around the perimeter. Since any connection to Central Avenue would be through private property, this may be an opportunity for a public/private partnership in urban redesign. The graphic below shows one possibility for such a connection.

During the public outreach effort, there were suggestions for including both general and ADA-accessible challenge or outdoor exercise courses to complement trail use within the corridor. The north gateway trailhead would provide a perfect opportunity for such facilities, as illustrated by the looped path in the north half of the graphic. The site could also provide a picnic overlook for the park and baseball fields, along with a pedestrian connection out to the Vida Nueva residential loop roads accessed from 46th and 47th Streets. Gateway signage at both (or either) the north and south ends of the trailhead park would announce the presence of the trailhead facility and trail beyond, and set the character for the corridor.

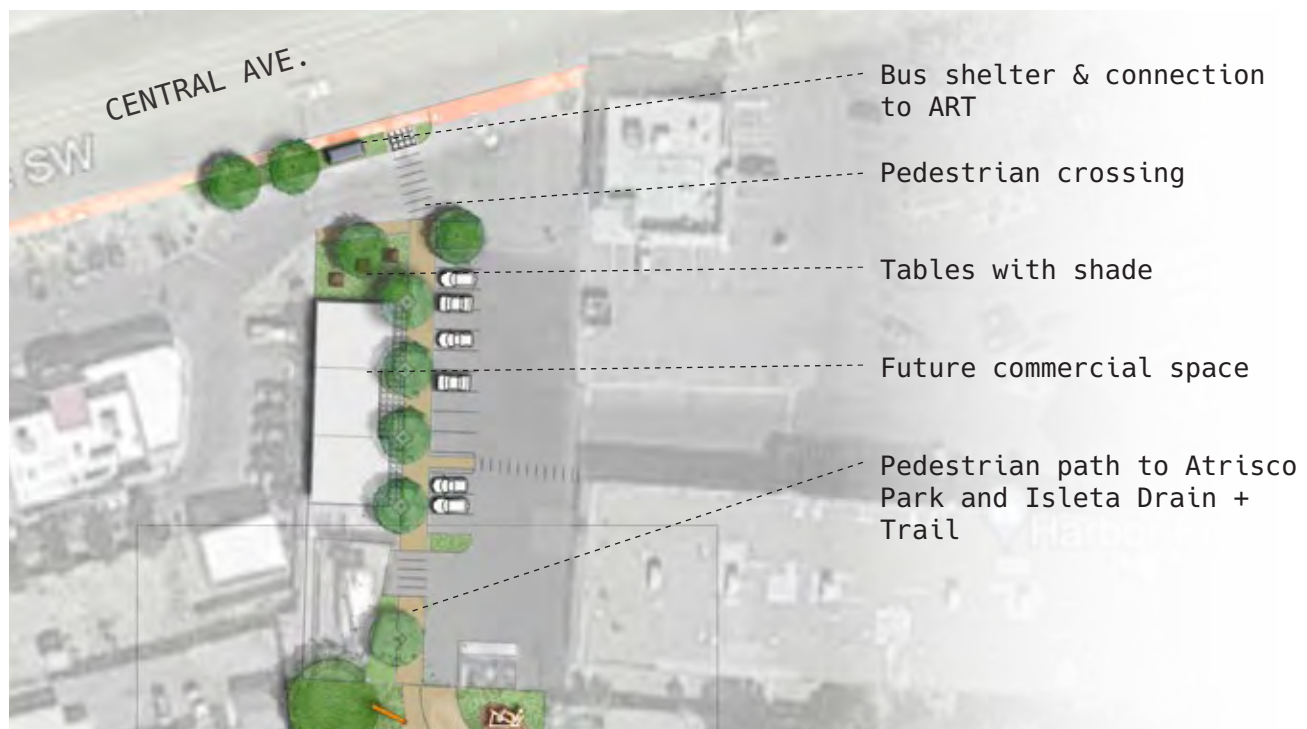


FIGURE 33. NORTH GATEWAY TRAILHEAD - CONNECTION TO CENTRAL AVE.



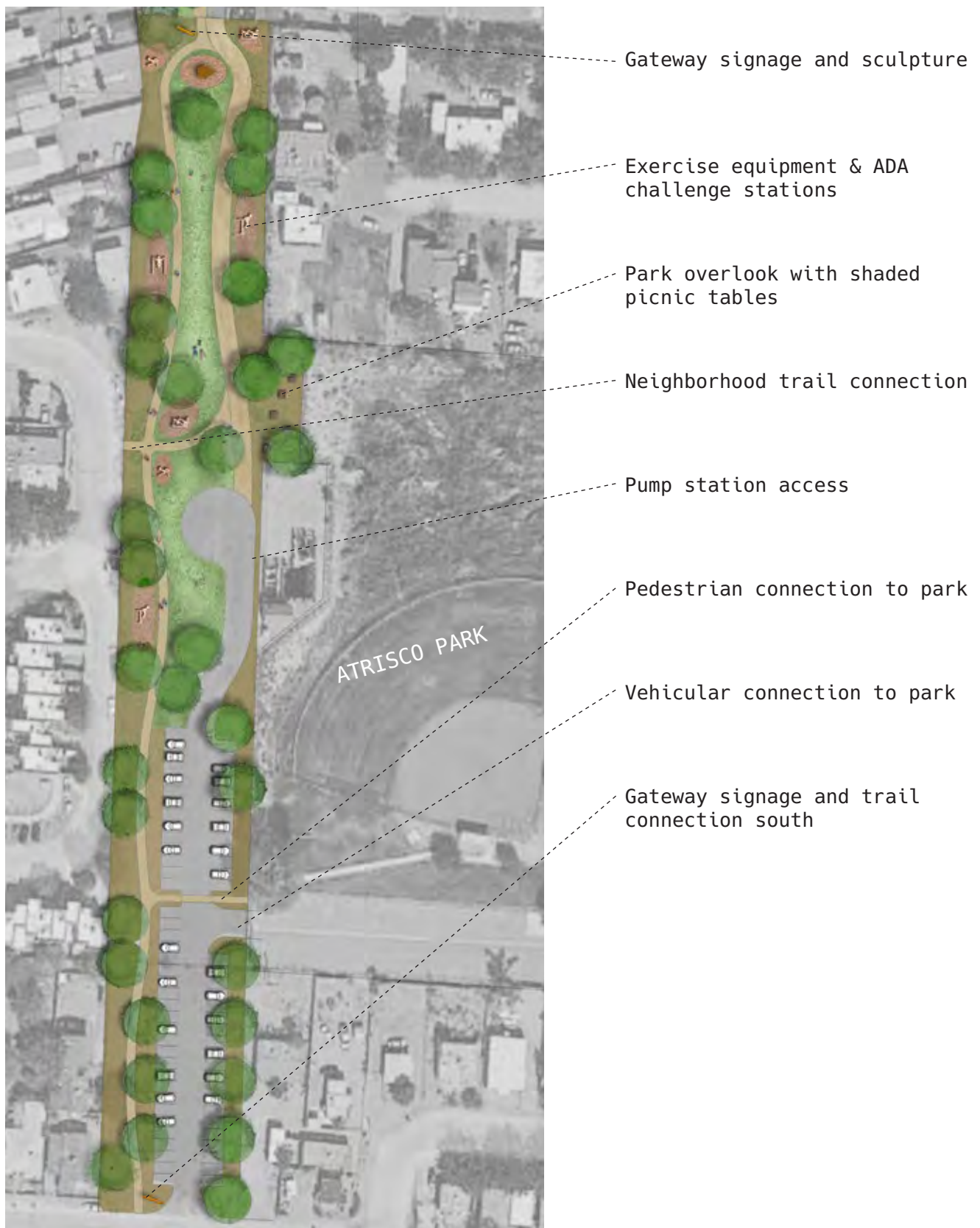


FIGURE 34. NORTH GATEWAY TRAILHEAD - ATRISCO PARK



## CONCEPTUAL PLAN FOR GATEWAY TRAILHEAD AT MALPAIS ROAD

At the south end of the corridor, the Isleta Drain passes under I-25 and crosses into Isleta Pueblo lands. However, the Los Padillas drain empties into the Isleta Drain just north of I-25, creating a continuous loop around to Malpais Road, where AMAFCA owns a 23-acre tract that is slated for potential use as a future drainage detention pond. Currently leased to local farmers, and easily accessible from Isleta to the east, that tract – or at least a portion of it – offers a perfect opportunity for a southern gateway trailhead. Given its proximity to the mesa that defines the north edge of Isleta Pueblo, the adjacent farm fields, and the presence of both a drain and irrigation lateral along its west edge, the site offers educational/

interpretive opportunities for both cultural and geologic elements of the local landscape. Trees and a picnic shelter can offer shade, while a trail map kiosk would provide orientation to the trail and surrounding area. A pit toilet could provide necessary relief to trail users, if maintenance responsibilities can be worked out. As illustrated below, a gated access point would also provide authorized access to the fields and/or future pond area. And as with the northern trailhead, gateway signage would announce the trail and corridor to passersby. The image below is a conceptual illustration of what this could look like. It should be noted that drought-tolerant landscaping should be utilized throughout.

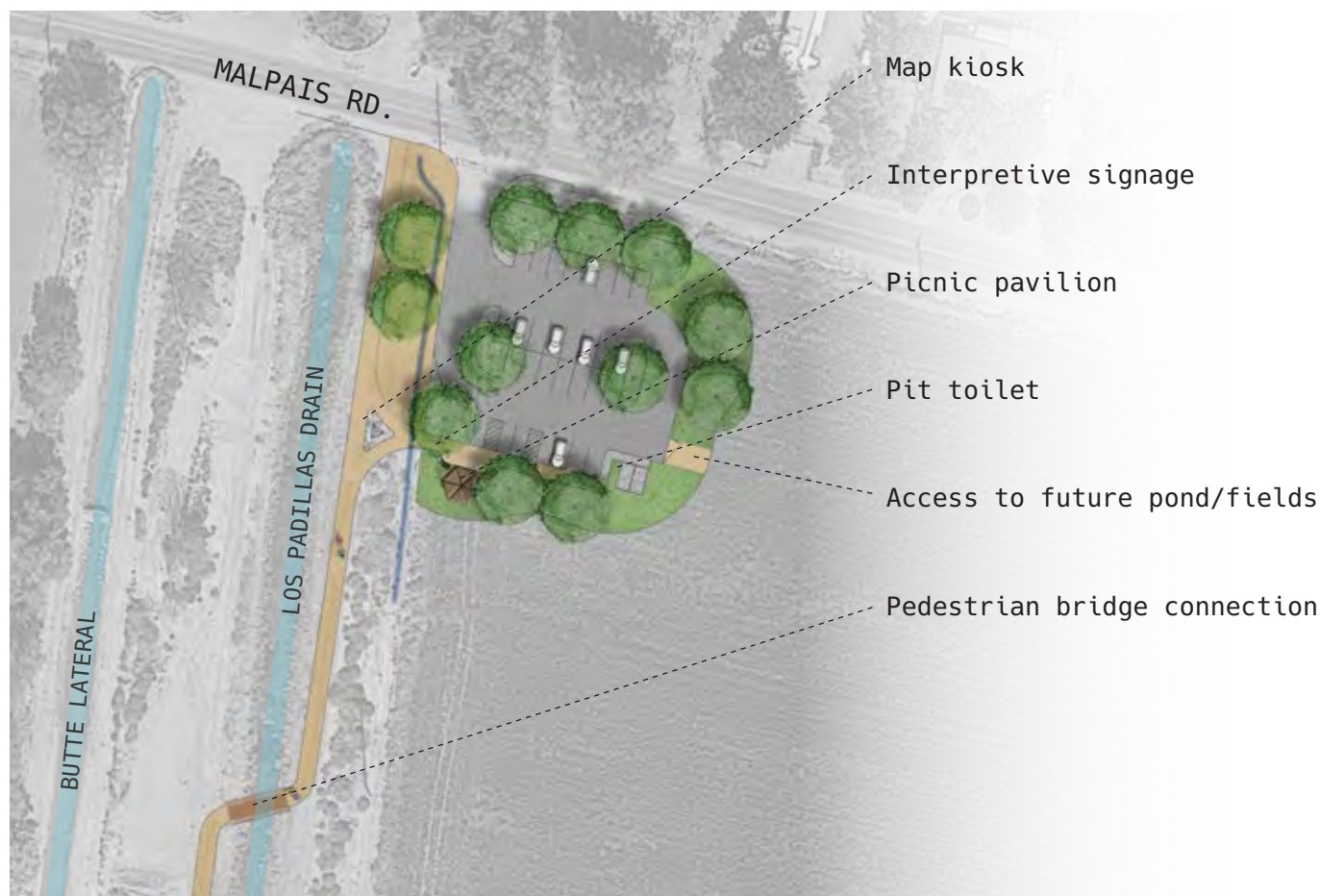


FIGURE 35. SOUTH GATEWAY TRAILHEAD - MALPAIS RD.

## Major Community Node

Major Community Nodes are recommended for locations that are notable due to existing habitat, extraordinary view sheds, adjacencies to community spaces, or potential for educational opportunities. These locations could also include orientation maps, points of interest such as historic features, or serve as portals to other nearby open spaces or transportation linkages to transit. These spaces may lie along the drain or a short distance away, and would offer an opportunity for users to rest, learn, gather, or simply enjoy the beauty of their surroundings. Major Community Nodes can serve as secondary welcome points along the trail for the local community as well as for visitors from nearby neighborhoods.

The conceptual illustration in Figure 36 shows an example of what a Major Community Node might look like. This particular location takes advantage of a change in alignment to create pockets of native landscaping and respite. This also shows where trail surfacing would need to be reinforced for both pedestrian and vehicular traffic (maintenance vehicles) on the east side of the drain for a short section. Around the residential buffer, shrubs would be used to support privacy and separation from the public realm.

### PLACEMENT CRITERIA:

- Sufficient existing right-of-way, or potential for acquisition or cooperative development
- Beneficial to have access to irrigation for landscaping
- Should have existing natural historic, or cultural features of note

### POTENTIAL AMENITIES:

- Shade (vegetative or shade structures)
- Lighting (solar preferred)
- Seating & Site Furnishings
  - Trash receptacles (must be near a road/access point for maintenance)
  - Benches
  - Dog waste stations (focus more in higher density residential areas and crossings)
- Native Landscaping in keeping with the valley environment (plantings, irrigation, native seeding)
- Public Art Opportunities
- Overlooks or Small Plazas (where views of natural areas or distant features are provided)
- Interpretive/Educational signage (particularly at crossings/lateral connections)
  - Interactive elements (possibly near schools)
  - Learning/community gardens
  - Nature Play
  - Wayfinding/nearby Points of Interest
- Potable water (where we have landscaping)
- GSI/LID improvements

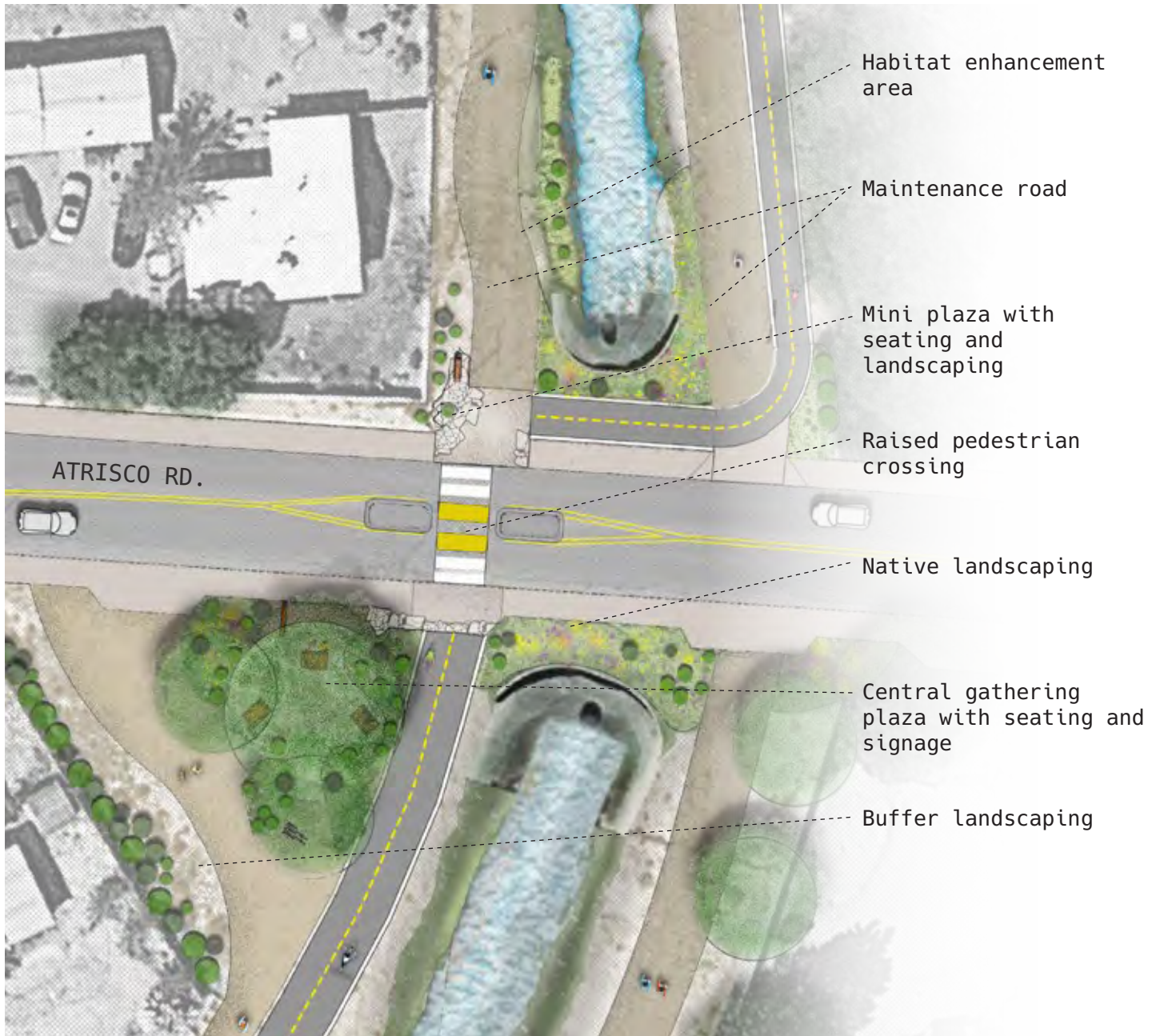


FIGURE 36. MAJOR COMMUNITY NODE EXAMPLE - ATRISCO CROSSING

## Minor Neighborhood Node

Minor Neighborhood Nodes (local trailheads) are located at road crossings where users might naturally connect to the proposed trail from bike lanes, streetscapes (e.g. bridge ), or other transportation routes. Additional pockets of amenities and service improvements might bring greater visibility of the trail to local neighborhoods and allow users to orient themselves and determine their proximity to other destinations near the Isleta Drain + Trail. These smaller trailhead nodes should include more limited amenities focused on safety, rest, transition and orientation. Enhanced roadway crossings at these locations would provide additional safety to trail users by alerting motorists to the presence of the trail crossing.

The conceptual illustration on the opposite page depicts soft, native landscaping concentrated between the road and the culvert, while keeping space for maintenance to access. Height will be considered with plantings to make sure that visibility from signage and bus stops is maintained.

### PLACEMENT CRITERIA:

- Road or other ditch facility crossings along possible connection routes
- Sufficient right-of-way or the potential to expand the usable area along the drain by extending culverts at road crossings
- May provide connections to nearby spur trails or local community destinations
- Should provide high visibility and opportunity to enhance safety at crossings

### POTENTIAL AMENITIES:

- Trash receptacles and dog waste facilities
- Seating
- Wayfinding signage & map kiosks
- Bike facilities
- Traffic calming elements for both road and trail
- Intermodal connectivity
- Reclamation and Native Landscaping with Passive Irrigation (LID/GSI opportunities)



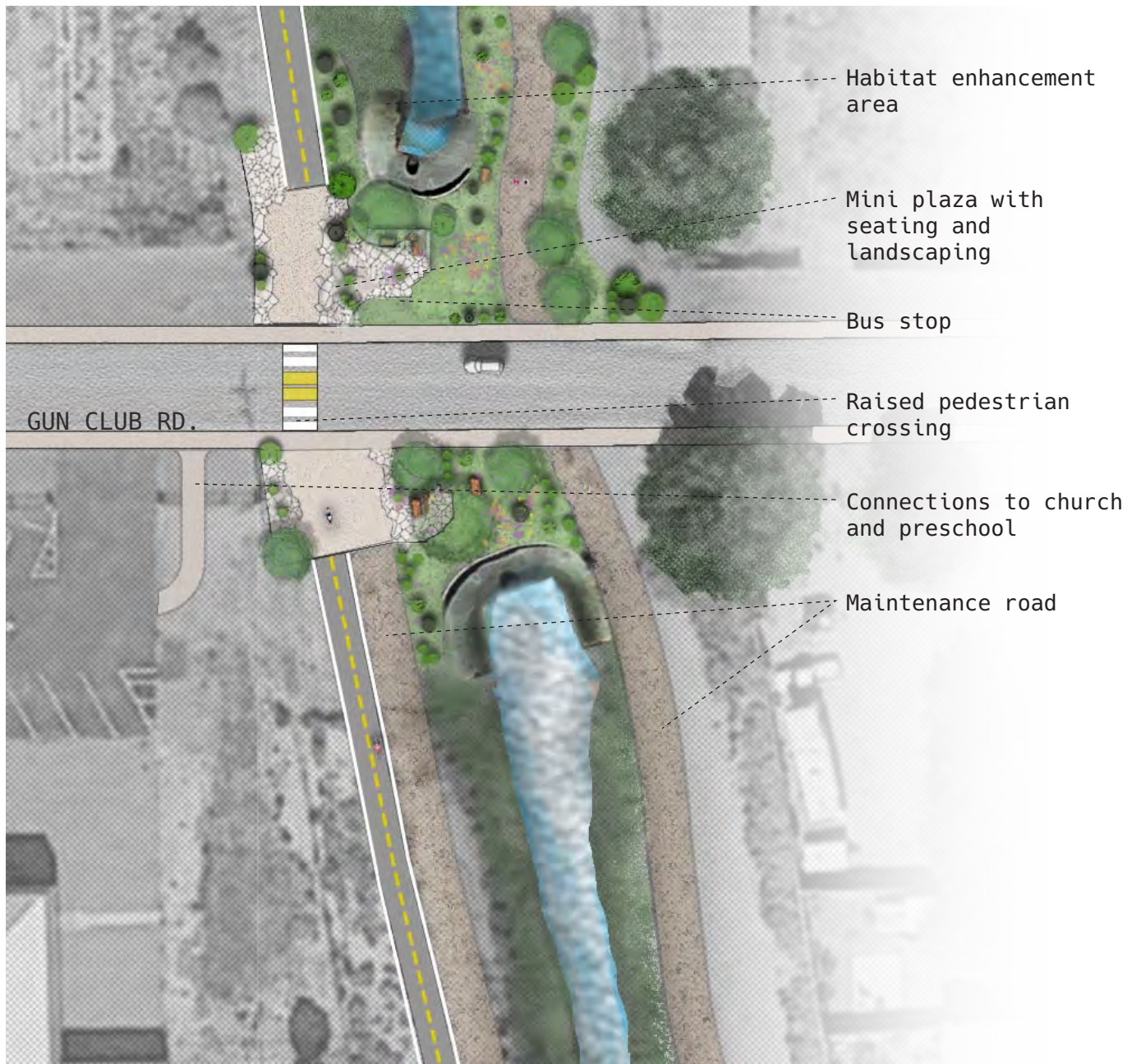


FIGURE 37. MINOR NEIGHBORHOOD NODE EXAMPLE - GUN CLUB CROSSING

## PEDESTRIAN BRIDGES

Pedestrian bridges are necessary to provide continuity at two locations along the corridor: the first approximately one-half mile south of Arenal Road (Rio Grande High School) where the Pajarito Lateral intersects the Isleta Drain; and the second at the similar ditch intersection where the Arenal Main Canal crosses the drain, just north of Rio Bravo Boulevard. In those locations, relatively short prefabricated bridges can easily address the needed crossings, while minimizing interference with ditch maintenance activities. Three other locations have been noted for lateral crossings via new pedestrian bridges.

The first is adjacent to the Arenal Open Space, across from Rio Grande High School. If a west side alignment is chosen for the Isleta Drain + Trail in this area, placement of a pedestrian bridge across the drain near the midpoint of the open space would provide access to a proposed walking path that follows an existing acequia that bisects the irrigated fields of the open space facility.

The second location for a recommended pedestrian bridge falls within the Pajarito Character area, just north of Pajarito Elementary School. There is a foot path connecting the neighborhood here to the drain corridor that exists on a utility right of way. This location would be ideal to allow neighbors easy access to a future trail.

The third location is near the southern gateway trailhead off Malpais Road. Here, a bridge would be needed to cross the Los Padillas Drain to provide a direct connection to the proposed southern Gateway Trailhead. That bridge locations are shown on the Amenities maps as well as in Figure 38.

In addition to those crossings the addition of pedestrian bridges at major road crossings are recommended to enable users of the Isleta Drain + Trail corridor to safely cross busy thoroughfares. Due to the need for greater height and spans, if attractively designed these pedestrian bridges could also serve as focal points and attractions for the trail corridor, helping to highlight the corridor as a destination. Primary among these is Rio Bravo Boulevard, with its high-speed, high-volume traffic, and proximity to several existing and proposed commercial developments. A trail bridge at this location could be combined with the bridge crossing of the Arenal Main Canal noted above, to offer a safe passage over both the canal and Rio Bravo Boulevard at the same time. The proposed bridge locations described above are highlighted in Figure 38.

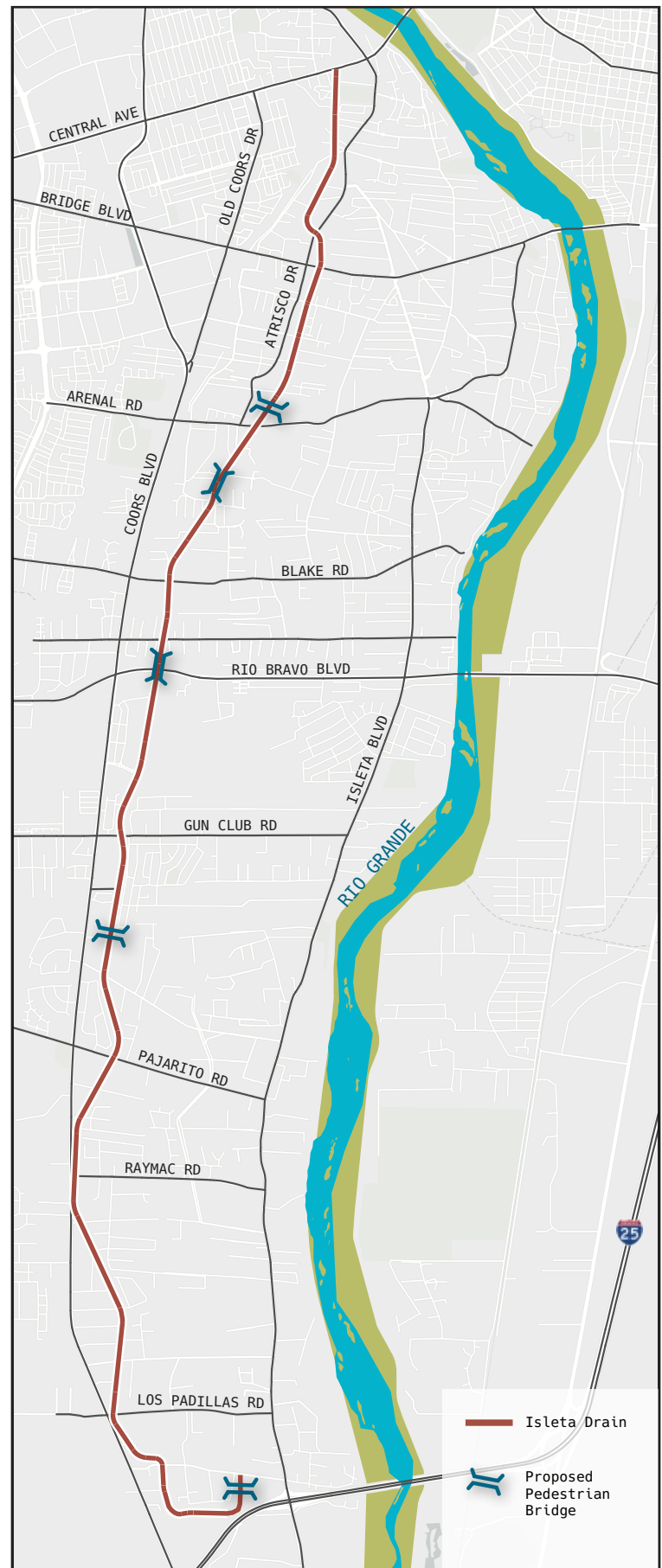


FIGURE 38. PROPOSED BRIDGE LOCATIONS



The following images illustrate “artistic” options of varying complexity for pedestrian crossings of major roadways or sensitive habitat areas:



*Trinity River Bridge, Dallas*



*Pedestrian Bridge, Alcalde Place SW, ABQ*



*Bagley Pedestrian Bridge, Detroit*



*Rio Grande Valley State Park pedestrian bridge*



*North Diversion Channel Bridge, ABQ*



*Ridgefield Wildlife Refuge Bridge, Ridgefield, WA*



*2nd Street Bridge, Albuquerque*

## LANDSCAPE AND ENVIRONMENT

The Rio Grande traverses the high desert of Bernalillo County and creates a green ribbon of bosque as it winds its way south. The juxtaposition of this forest surrounded by the sagebrush of the desert is an example of the great contrasts of this arid environment where water becomes the determining factor of green and verdant versus a more desert palette of plants and colors. Even along the acequia and drain systems of the Rio Grande valley, interesting contradiction plays out with portions of the valley being marshy and moist depressions with bulrushes and cattails and others supporting the lower water regimes of chamisa and sagebrush.

Owing to decades of water conveyance for agricultural irrigation distribution, the acequia and drain network along the Rio Grande creates oases of Cottonwoods, New Mexico Olive and their symbiotic plant associations interspersed with plant communities more likely found in the surrounding desert. Further, portions of the corridor have been subjected to constant vehicular and foot traffic that has destroyed any semblance of plant ecosystems and more closely resembles the expanses of sand found in the harshest of desert environments. Nonetheless, the unique collocation of desert and more water-oriented plant communities offer equally unique opportunities for landscape improvements within the Isleta Drain + Trail corridor that could provide users with more comfortable environments for habitat and wildlife viewing, recreation and more passive transportation alternatives like walking and riding bikes.

Along with advancements like trailheads, trails, road crossings, pedestrian tables, respites and other transportation upgrades, the Isleta Drain + Trail can also provide users with an environment that balances transportation improvements with environmental improvements. This can be done by harvesting water to provide shade, lower temperatures, habitat and a more balanced landscape along the Isleta Drain.

Improvements that are recommended to temper the environment along the Isleta Drain + Trail include Habitat Enhancement Areas, Landscape Nodes and Parklets, Trail Greenways, and other zones to repair the general environment. These improvements can be irrigated but the project team recommends putting stormwater to beneficial use, still following the New Mexico State Engineers requirements for return flows, that will help sustain the greenway and other improvements passively and with resilience in mind.

### Landscape Repair

Revegetation of the general environment along the Isleta Drain + Trail, excluding the MRGCD service roads used for dredging and maintenance and the trail and its built amenities should consist of reseeding with a drill seeder, hydro-mulching, and native revegetation with low-growing wetland plants. To help sustain the landscape repair areas we recommend the use of soil imprinting, mulching, berming with vegetation to control dust and blow sand from the direction of the winds and other techniques to hold the soil in place and protect the budding landscape

### Habitat Enhancement Areas

While the Isleta Drain primarily functions as a drainage channel, it is also a transportation route for residents and visitors, and habitat for the wildlife that migrates through the valley and populates water and riparian environments. These pockets of natural and sometimes endemic native plants punctuate the drain in areas where some ponding occurs. Based on many comments received from stakeholders and residents, setting aside areas for habitat along the corridor, where space allows, should be a priority. These areas would be designed and designated for wildlife and native plants, while still allowing for important MRGCD functions to take place along the entirety of the corridor.



Images below offer examples of various plants and plant communities that are suitable for use along the Isleta Drain corridor.



*Riparian wetland at Shady Lakes*



*Learning wetland at Sandia High School*



*Understory shrub - New Mexico privet*



*Native Wildflowers - Globemallow a Spectaclepod*



*Native Wildflowers - Yerba mansa and Purple Prairie clover*



*Riparian shade - Gooding's willow*



*Blue grama grass*



Habitat Enhancement Areas are recommended at specific points along the Isleta Drain + Trail. These areas will be augmented with native plant communities to provide enhanced habitat for birds and other wildlife that already inhabit the corridor and those that might be drawn to the area because of increased habitat. These enhancement areas include:

- Low-growing wetland and riparian plants such as sedges and others to enrich soils and create habitat for wildlife
- Native shrubs, grasses, and wildflowers that provide food and cover for desirable or threatened species
- Natural pollution treatment by filtration of runoff through permeable soils in planting beds (see following subsection)
- Increased carbon sequestration
- Interpretive signage that describes the elements listed above
- Shaded seating and learning areas to encourage observation of the function and interactions of the represented native plant and animal communities or just relaxation

## Landscape Nodes and Parklets

There are points along the Isleta Drain + Trail corridor that are appropriate for parklets or nodes of landscaping that can be used for respites from the sun, and passive recreation like eating or resting. Some could also be trailheads. Any improvements and amenities should be placed outside the maintenance right-of-way along the drain. A few notable locations include the northern gateway and Atrisco Park; the Atrisco Drive intersection with the Isleta Drain + Trail; the area near Rio Grande High School and Arenal Road; Land near San Ignacio Road that could be shared with the Iglesia Bautista Nuevas Alturas; shared open space at Rio Bravo and the Isleta Drain + Trail; the lands between Coors Boulevard Southwest and the Drain near Raymac; and the southernmost gateway to the project. These Landscape Nodes and Parklets could include:

- Both native and turfgrasses for their cooling effects and for recreational opportunities and relaxation
- Sitting and picnicking areas for trail users that may want to stop and have lunch, a snack or refreshments
- Walkways and linkages to the Isleta Drain + Trail to allow users to explore from the trail through a parklet
- Shade trees and shade structures to offer a break from the sun and to reduce the heat island effect along the trail
- Availability of drinking water for refilling water bottles to help corridor users stave off the effects of heat and the sun
- Interpretive signage opportunities to nearby attractions
- Parking

## Water Harvesting and Green Stormwater Infrastructure

The Isleta Drain + Trail, like many riparian areas in New Mexico, is a corridor made up of a waterway that slices through our desert ecosystem and exposes contrasting environments. In the recommendations in this section of the master plan we plan to soften that contrast by describing Water Harvesting and Green Stormwater Infrastructure systems to collect as much drainage water as possible to “green” the environment, with a greater density of landscape materials. These recommendations will be done within the confines of the Office of the State Engineer, the MRGCD and AMAFCA requirements and regulations. The area in which we’ll be concentrating these efforts will be in the overbank areas outside of the Isleta Drain itself. These techniques include slowing drainage and using some of it, holding water in place in specific areas, and treating the soil to act like a sponge. Below, we offer a number of methodologies that will help native plants survive. There are primarily two or three options for harvesting water along the overbank of drains like the Isleta: collecting water from street crossings, collecting water from the trail surface, and directing water to planting beds by contouring areas of bare dirt. The key in each case is to direct water to planting beds that are located where they will do the most good, to protect soil, to shade, and to create habitat. Below we have descriptions and depictions of the methods that we would recommend for the Isleta Drain + Trail project.

### MULCHING AND SOIL AMENDING

Mulches will reduce evaporation of water stored in the ground and lessen the amount of ambient dust on the corridor. The types of mulches that we recommend for the project vary based on use. For any sloped areas like the outside slopes of perched sections of the drain we recommend 2”-6” cobblestone to hold the soil and retain water under them. Another technique that works very well on slopes is to add a 1” of small gravel

mulch along slopes with native grass and forb seed, the gravel in such a thin layer helps to hold down erosion but also allows seeds to germinate and grow, during times of higher humidity, water can also condense under them to assist in plant health. For flat portions of the land, we recommend the use of organic mulch like bark or shredded wood, unless there are concentrations of water flow. Organic mulch will, over time, enrich the soil and help it retain moisture in subsurface layers. Organic mulch should be placed in 4” layers when used.

### SUBSURFACE RESERVOIRS AND WICKS

These subsurface reservoirs are good sources of longer-term water for most of the surface devices described in this section of the master plan. They are similar to French Drains in that they are subsurface pockets of gravel surrounded by filter fabric. However, with subsurface reservoirs and wicks we recommend the use of scoria or even straw instead of gravel to retain more water for longer periods of time and we also favor the use of perforated pipe to interconnect them in series and increase the area that they might cover. These reservoirs act like sponges and when placed correctly can increase the concentration of water particularly for trees.

### INTERCONNECTED BASINS

Along portions of the greenway that are primarily flat or very shallow slopes, a series of interconnected basins can help to revegetate the area and provide a greater concentration of water to assist in plant sustainability. Each basin should be planted and mulched to reduce evapotranspiration.

### MOIST SOIL DEPRESSIONS

Moist soil depressions are larger areas that are depressed in the overbank of the corridor that would collect enough water to sustain larger trees. Moist soil depressions can be as long as 100’ and as wide as 25’ in size and mimic the way the



areas of the Rio Grande Bosque work, collecting large amounts of water when it rains and slowly dissipating it into its historic flow areas albeit in a slightly more concentrated way. These areas can be interconnected like the basins but this will be more difficult given the confines of the corridor.

## CONTOUR SWALES AND WAFFLE GRIDS

Contour swales are swales that are built on topographic contour lines. Instead of allowing water to flow down slopes these devices will collect water instead of allowing it to form rivulets along the outside side slopes of the drain near the property lines. They are typically formed and then clad with rock work or a combination of rock work and wood mulch in the “linear basins”. The basins should be planted with forbs and grasses to control erosion and utilize water flow to thrive. The plants that would be seeded or planted there would be those that have very dense fibrous root systems to hold the soil in place with more strength.

## TRAIL, SERVICE ROAD AND ROADWAY WATER CAPTURE

The trail and service roads along the Isleta corridor are potential sources of water collection. The roadway crossings of the Isleta Trail Corridor are also potential sources of harvested water. The sometimes-impermeable surfaces (in the case of asphalt, concrete, or tightly packed gravels) can be utilized for their impermeability to collect and direct water to planting beds that can help revegetate and shade the trail. We recommend that the cross slope on trails and services roads be 1% to 2% and not crowned, if possible, to collect as much water as possible in one area. These linear swales can be interconnected like the connected basins described above or be long swales.

## SHADE STRUCTURES AND WATER HARVESTING

Any impermeable surfaces can be used for harvesting water. The roofs of shade structures are a perfect source for this water and the idea has been used in the past along a trail. The Hahn Arroyo in NE Albuquerque has a shade structure just east of Comanche Road that has a butterfly roof, it collects water and distributes it to the landscape surrounding it. We suggest that similar types of shade structures could be used on the Isleta Drain + Trail.

## POLLUTION MITIGATION THROUGH BIOSWALES

Hydrocarbon pollution from automobiles is present in street runoff. This runoff should be directed into bioswales for filtering before re-entering the water table through harvested water. These devices typically use the biology of plants and subsurface soils that are mostly sand to remediate the pollution. The project team recommends that this pollution be mitigated near street crossings primarily.

## FOREBAYS

Where storm drains dump into the drain, it may be possible to create a natural forebay that serves both to dissipate the force of the incoming water, as well as provide expanded opportunities for additional riparian vegetation, while also cleaning the incoming water. We recommend these designs at all storm drain outfalls along the corridor.

## Maintenance Considerations

As important as landscaping is to the overall character of the corridor, it is important to consider the implications of any landscape improvements on necessary maintenance activities within the drain corridor. Any stormwater interventions must provide mechanisms for easy clean-out of accumulated trash and debris, and water harvesting landscape beds should be placed so as not to interfere with movement of equipment.

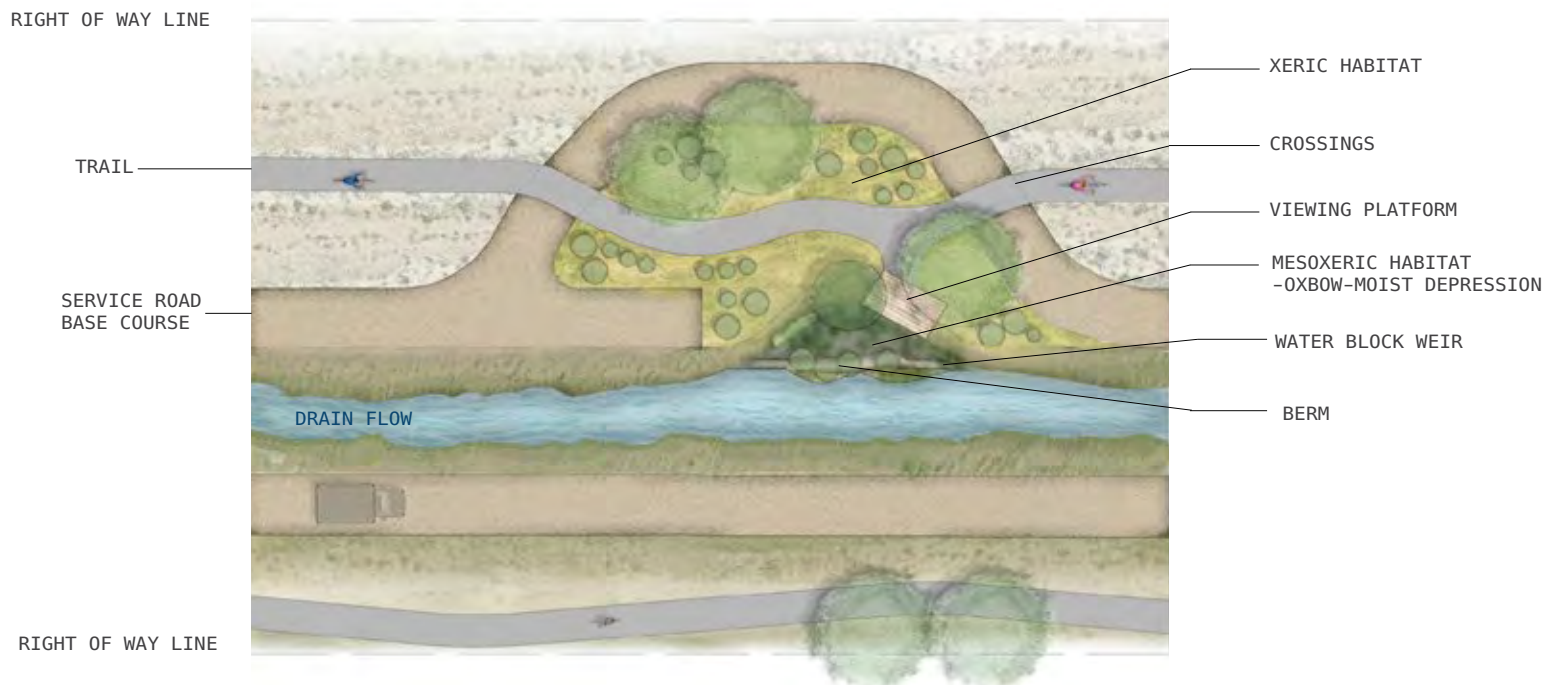


FIGURE 39. ILLUSTRATIVE EXAMPLE OF OXBOW ENHANCEMENT

## DRAIN IMPROVEMENTS

The proposed trail improvements as shown will have minimal impact to the capacity of the drain in the areas of the study. The increased storm runoff from the trail will occur much earlier in the storm event than the occurrence of the peak water surface elevation in Isleta Drain. However, capacity will need to be confirmed by future engineering analysis of Isleta Drain with incorporation of new or future connections to determine impacts.

All future designs for the Isleta Interior Drain trail and associated improvements must be consistent with the SWVFRP and include the necessary analysis and SWMM updates to ensure that stormwater conveyance and flood protection will be maintained.

The existing and future conditions of the Isleta Interior Drain cannot be easily described with a

typical section due to the complexity of existing structures, utilities, roadways, and other various components.

Any future trail projects will need to include and evaluate:

- Existing and future stormwater inputs and diversions that increase and decrease the flow-rate and water surface elevations at various locations within the Drain which could require the widening/excavation of the Drain and/or raising of the top of the Drain,
- The project footprint to accommodate any required changes to the Drain configuration and include maintenance access due to such changes, potentially limiting the space for trail improvements, and
- Input from Bernalillo County, MRGCD, and AMAFCA on the operation and maintenance of the Drain as a critical stormwater conveyance and flood control facility.

# WAYFINDING AND SIGNAGE

Wayfinding and signage improve the overall trail user experience by improving trail navigation, establishing regulations, providing interpretation and context, and trail identification. Providing a cohesive and legible sign package for the Isleta Drain + Trail highlights the unique character and distinguishes the trail from adjacent paths and roadways. The Isleta Drain + Trail signage and wayfinding package utilizes both unique designs and standard roadway signage based upon anticipated need of trail users. It is recommended that water symbology is incorporated as well as design that echoes that which has already been used on similar projects, such as the Alameda Drain Trail.

## Overall Goals

- Create a consistent, legible sign package which highlights the unique character of the Isleta Drain
- Facilitate easy access and navigation of the trail and neighboring community destinations
- Provide educational and interpretive opportunities that highlight the cultural, natural, and historical significance of the Isleta Drain

- Make the trail feel safe and welcoming through providing regulations and contact information
- Provide direction and distance information to help trail users make informed decisions on their trail usage

## Materials

Signage comes in a variety of materials determined by environment, maintenance, and cost considerations. Signs may be printed on aluminum, vinyl, or plastics depending on the size and location. Standard road signs are often printed on aluminum while other interpretive elements like trail blazers, trail kiosks, and mile markers may be constructed out of more natural materials like wood or stone. For ease of replacement and maintenance, vinyl and plastic signs are recommended. Mounting materials also vary but tend to either be wood, metal, or aluminum depending upon sign and environment needs. In addition to vertical signs, road decals can also be printed and installed directly onto the path for additional wayfinding and branding opportunities. Road decals using paint may be an alternative to mile markers and trail blazers to denote mileage and provide branding where deemed feasible.





## Sign Plan

The recommended sign plan includes three types of signs including trail markers, directional, and interpretive signage. Although each serves a different purpose, cohesive use of colors, logos, and layout help trail users identify the trail.

### Trail Marker Signage

Trailhead signs, trail maps, and trail markers/trail blazers at trailheads and along the trail provide both a welcoming element and essential user information. Trail marker signage provides trail specific information including maps, trail details, contextual information, regulations, contact information, and branding elements. They also provide critical branding and placemaking elements to the Isleta Drain + Trail. Trailhead signs will be located at the north terminus at Atrisco Little League Park and the south terminus at Malpais Road. Trail maps will be located at Major

Community Nodes and other community centers where deemed beneficial to wayfinding.

Where smaller trail markers are needed, trail markers will be used. Their intended purpose is to identify the trail, provide mileage, permitted user groups, and denote character areas. Trail markers help differentiate the trail from adjacent paths and help with trail branding. By using different colors, trail markers are a great tool to help with differentiating character areas throughout the trail. Trailhead signs may also include regulatory information including permitted user groups, restricted uses, and contact information for maintenance and emergency response.

### SIGN TYPES

- Trailhead signs
- Trail maps
- Trail Markers/Trail Blazers

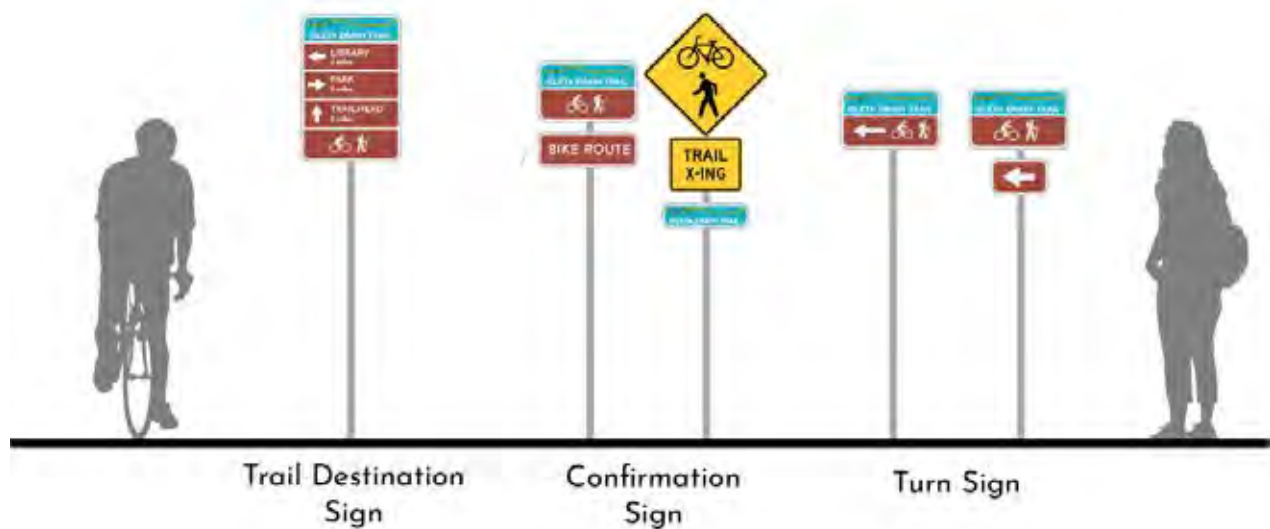


## Directional Wayfinding/Signage

Directional wayfinding provides essential navigational information to trail users in a quick and concise manner. These signs are often characteristic of standard signage used on roadways. These signs identify the trail, denote location, and provide directional information to nearby roads, trails, open spaces, and community resources. These signs will also provide distance in mileage to each of these features to assist trail users in orientation. These signs can be paired with existing roadway regulation signs to reduce needed infrastructure.

### SIGN TYPE

- Trail Destination Sign
- Confirmation Sign
- Turn Sign

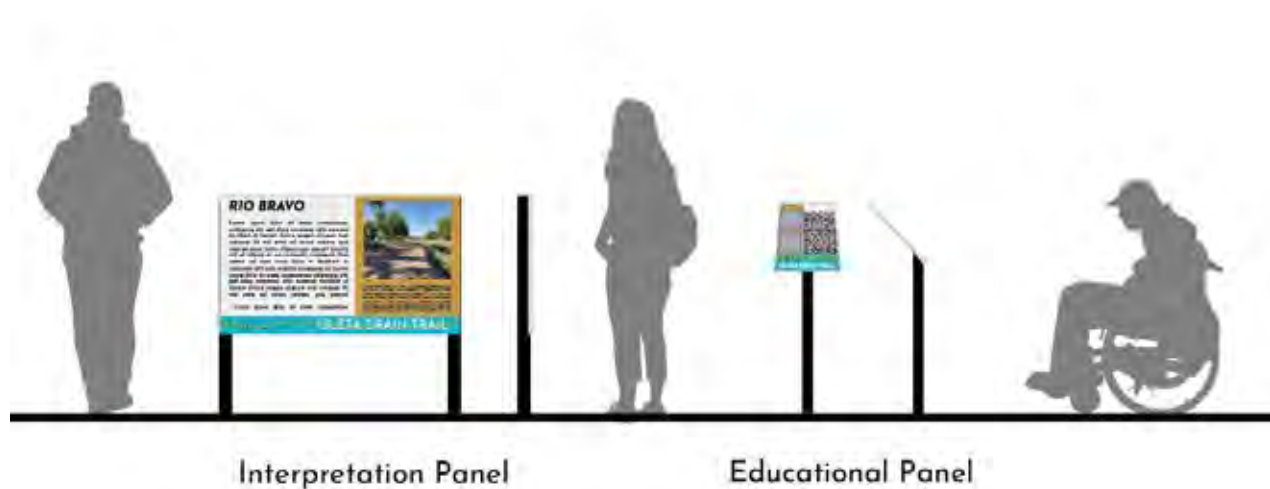


## Educational and Interpretive Signage


Educational and interpretive signage consists of large and small panels that include topical information on the natural, cultural, and recreational significance of the Isleta Drain. Interpretive signage is essential to assisting trail users to garner a deeper appreciation and understanding of trails and the environment they occupy through text, photographs, maps, and diagrams. These larger panels will be located at trailheads and major community nodes. MRGCD and community members should be engaged in the creation of interpretive signage content.

### SIGN TYPE

- Interpretation panel
- Education panel







*Successful implementation will require time, patience, and cooperation among the various managing agencies, stakeholders, and neighbors represented along the corridor.*



# 4 IMPLEMENTATION RECOMMENDATIONS







# IMPLEMENTATION

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Following adoption of this Master Plan, the trail and related facilities will need to be designed, permitted, and constructed. Since it is unlikely that funding will be available to build the entire 13 miles of recommended improvements along the Isleta Drain at one time, a phased implementation plan is needed to guide development of the corridor over the coming years. Successful implementation will require time, patience,

and cooperation among the various managing agencies, stakeholders, and neighbors represented along the corridor. The following are key steps that will need to be accomplished during that implementation process.



*Atrisco Park & Little League*

# MAINTENANCE, OPERATIONS AND MANAGEMENT RECOMMENDATIONS

## Agreements and Partnerships

**Interagency Corridor Management** – The existing OMRRR (referenced in the Existing Plans and Regulations section of the Existing Conditions chapter) has established an interjurisdictional framework for managing the day-to-day operations of the Isleta Drain. However, as the corridor is developed further for recreational use, that document should be updated to reflect any changes in management and operations that may be required. All parties to the OMRRR should be included in the update process to ensure an equitable outcome. In general, though, it is anticipated that management responsibilities will break down as follows:

- Stormwater management will remain the primary responsibility of AMAFCA
- Ditch/drain maintenance and operations will remain under the jurisdiction of MRGCD
- Trail and trail related improvements will become the responsibility of Bernalillo County Public Works and/or Land Management

**Public-Private Partnerships** – In some cases, opportunities have been identified in the plan for potential future amenities or trail-related development on private property. These include properties whose owners have indicated an interest in working with the County to explore trail-related opportunities, as well as the proposed urban infill opportunity suggested to accomplish a connection to Central Avenue at the north end of the corridor. If outright acquisition of those properties is not feasible, it may be possible to move forward through the use of public-private agreements that would allow public use of certain portions of the private properties in a manner that would be beneficial to both parties. In such cases, those agreements would be expected to address any relevant maintenance or management agreements.

## Community Stewardship & Programs

Beyond the partnerships described above, which may be necessary for initial implementation, development of additional long-term partnerships can be beneficial to the ultimate success of the Isleta Drain + Trail. Opportunities that exist may include:

- Community partnerships with adjacent neighborhood associations or newly developed “Friends” or “Adopt a Trail” groups can generate support and excitement about the corridor through planned events and activities, including “community night out” gatherings, cleanup days, and other social activities.
- Safe Routes to School (SRTS) is a national program with state and local affiliates that

promotes walking and biking activities aimed primarily at school-age children, but with benefits that can be realized by all age groups. In addition to that basic mission, SRTS programs are eligible for both state and federal funding through grant cycles (see next chapter for additional information). Since a number of schools lie along the Isleta Drain corridor, it should be possible to make use of that funding for certain aspects of trail and related development here.

- Similar in concept to the SRTS program, Prescription Trails is a healthcare-based program that aims to get people involved in outdoor activities such as walking, jogging, or biking. With appropriate wayfinding and mileposts, the Isleta Drain + Trail would provide a ready avenue for such prescribed activities, which in turn would serve to increase the use and stewardship of the trail.
- Local after-school programs can take advantage of a trail along the Isleta Drain, as well as be valuable promoters of the trail corridor. One example is the Center of Southwest Culture's Story Riders, which through association with the South Valley Academy "empowers children and youth of color to reconnect with our natural and cultural heritage, while providing practical training in bicycle safety, maintenance, and guided cycling experiences in which participants explore local stories and spaces." (<https://www.centerofsouthwestculture.org/storyriders>)



*Volunteers at bosque cleanup - City of Albuquerque*



## Community Safety Recommendations

Although much of the Isleta Drain corridor winds through urban and suburban neighborhoods and near several commercial centers, it has not traditionally been a center of community activity. This is due in large part to locked maintenance gates and discouragement of high impact recreational uses (such as ATV use) by managing agencies concerned about liability related to the unfenced water conveyance. As a result, the drain corridor can seem remote and potentially unsafe to those accustomed to more public settings. It can also become an attractive nuisance, providing a few relatively isolated pockets for those engaging in illicit activities. While liability concerns will be addressed through management agreements and public awareness campaigns described above and earlier, personal safety of trail users and neighboring residents should remain a priority.

- Crime Prevention Through Environmental Design (CPTED) has become an internationally recognized, multidisciplinary approach to crime reduction that relies on environmental design, spatial planning, and social involvement to create safer neighborhoods. Techniques include
  - Providing good site lines into and out of public spaces to enable more “eyes” to serve as informal or “natural surveillance” of an area
  - Increasing legitimate activity – such as trail use – within any area will naturally make it less attractive to criminal activity
  - Lighting can be used in combination with other CPTED principles to illuminate otherwise dark or isolated corners, etc.
  - Access control is important from both inclusion and exclusion points of view. Opening up certain areas to allow pedestrians and cyclists to gain access to the corridor will encourage use, while exclusion of unauthorized vehicles will provide additional safety for trail users.
- Partnering with Law Enforcement reinforces the CPTED concepts above, while ensuring that officers’ concerns are addressed during the design process so that adequate access is provided for effective patrols in and through the area.
  - Mobile Community Action Team to assist with biking the future drain trail
  - Provide signage with emergency phone number (505-798-7000)
  - Work with law enforcement (or other appropriate City/County agencies) to address concerns about illegal activities, dumping, stray dogs, graffiti, etc.

### GATES AND ACCESS CONTROL

Gates and Access Control at road intersections was found to be an important concern of many neighbors along the drain. In some cases, the ditch roads serve as the sole access to some properties, and those uses are permitted by MRGCD. Far more often, though, gates are broken, locks are cut, or sometimes just left open, resulting in unauthorized, and often inappropriate, use of the ditch roads. MRGCD and AMAFCA have coordinated to develop new designs for their access gates, and many are in the process of being replaced. However, those gates do not account for future trail use, so additional coordination will be necessary to develop effective gates and other access control techniques to allow sanctioned uses, while preventing unauthorized uses of the drain and trail.

- In addition to gates, protective barriers should be installed in areas where motor vehicles may try to access the right-of-way along the trail. These may include bollards, decorative boulders or salvaged logs.



*Gate south of Bridge Boulevard*

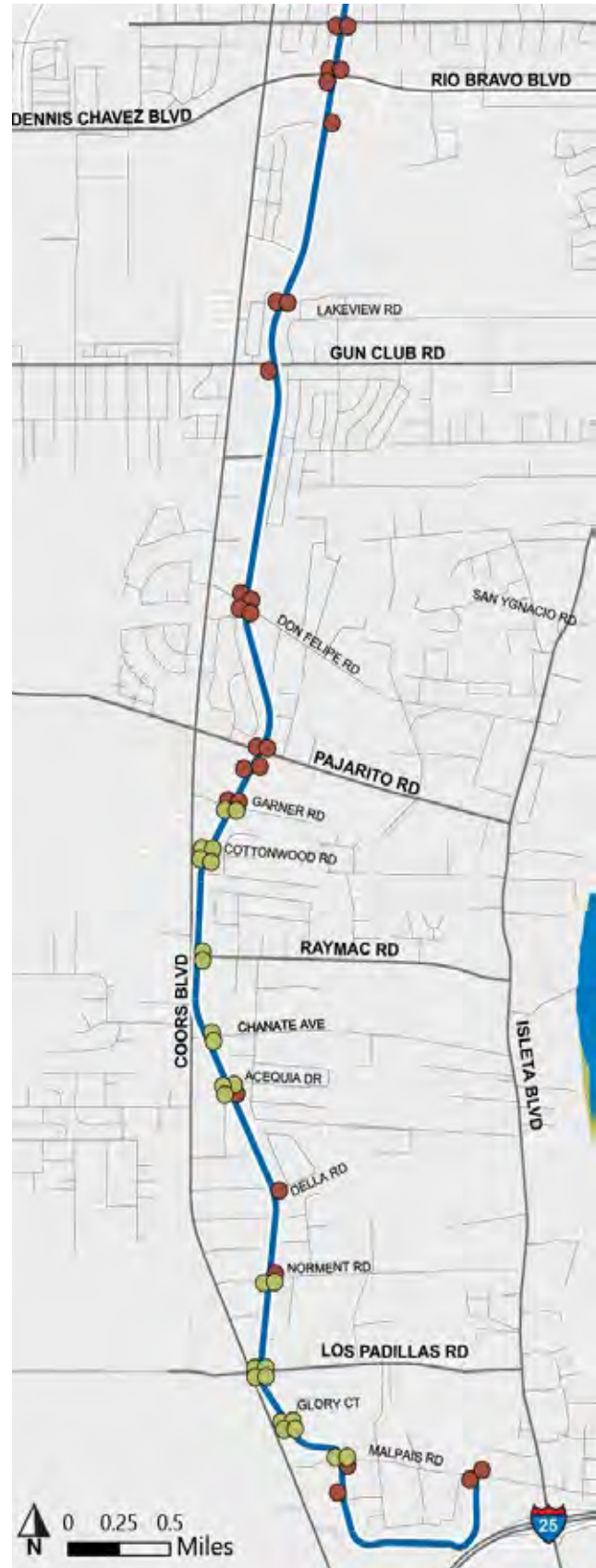
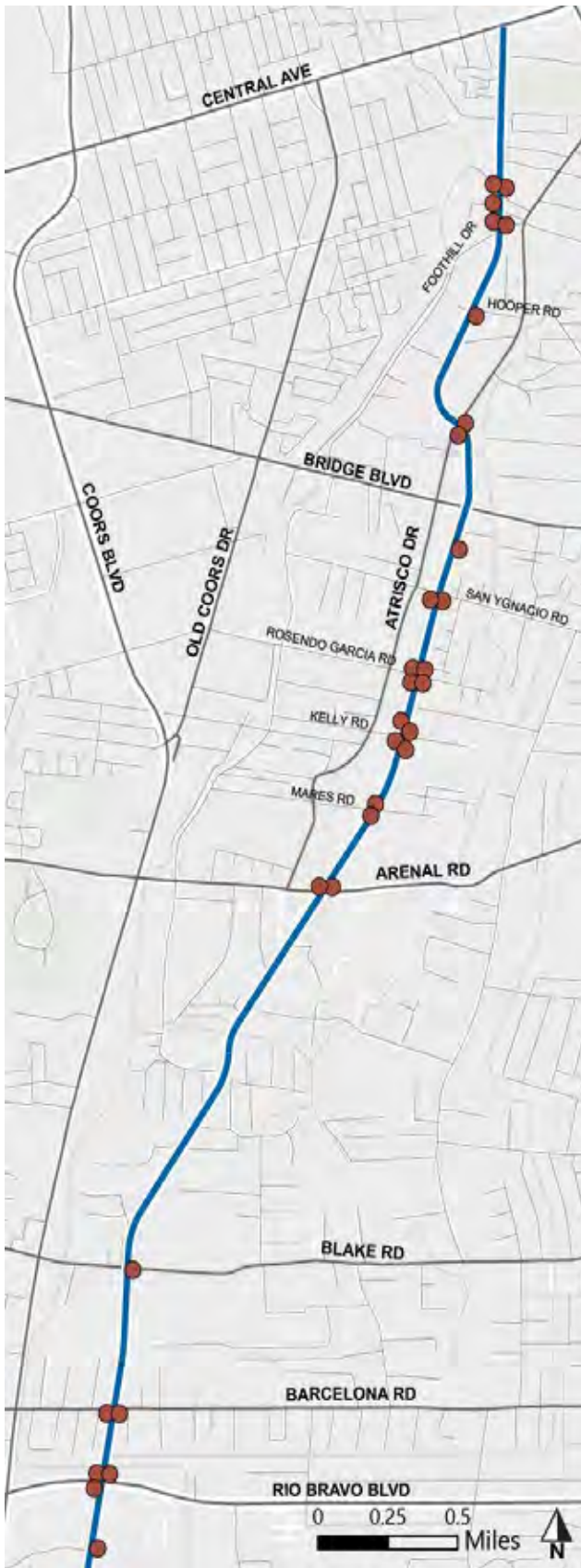


FIGURE 40. EXISTING AND NEW ACCESS GATES - NORTH AND SOUTH

- Existing Gates
- Proposed Gates

## ESTIMATED PROJECT COSTS

Any discussion of project costs must be prefaced by an acknowledgment that in the post-2020-pandemic era, the construction bidding climate is highly variable, to say the least. As such, depending on the timing of implementation of various phases, actual construction costs may vary significantly from these scoping estimates. While it is hoped that at some point pricing may begin to recede toward pre-pandemic levels, there are no assurances that such will occur, or if so, when. Since no specific designs have been proposed at this point, the following costs are based on basic assumptions of what might be expected for each segment, based on experience from similar types of projects. Pricing assumes asphalt paving for all-weather trail surfacing; alternative surfacing could be less or more expensive, depending on the type chosen.

### ATRISCO SEGMENT (1.3 MILES).....\$3,847,000

- Trail construction, landscaping, and related work.....\$1,235,000
- 1 Gateway Trailhead.....\$1,693,000  
(Central Avenue Public/Private Connection included)
- 1 Major Community Node .....\$260,000
- 1 Minor Neighborhood Node .....\$200,000
- 5 Local Road Crossings.....\$125,000

### ARENAL SEGMENT (2.3 MILES).....\$3,706,000

- Trail construction, landscaping, and related work.....\$2,185,000
- 2 Major Community Nodes .....\$520,000
- 2 Minor Neighborhood Nodes.....\$400,000
- 7 Local Road Crossings.....\$175,000
- 2 Trail Bridges, including Abutments.....\$160,000

### RIO BRAVO SEGMENT (1.7 MILES).....\$4,202,000

- Trail construction, landscaping, and related work.....\$1,615,000
- 1 Major Community Node .....\$260,000
- 2 Minor Neighborhood Nodes.....\$400,000
- 1 Collector Road Crossings.....\$50,000
- 1 Local Road Crossings.....\$25,000
- 1 OPTIONAL Trail Bridge Crossing.....\$1,670,000

### PAJARITO SEGMENT (2.3 MILES).....\$2,985,000

- Trail construction, landscaping, and related work.....\$2,185,000
- 1 Major Community Node .....\$260,000
- 1 Minor Neighborhood Node .....\$200,000
- 1 Collector Road Crossings.....\$50,000
- 3 Local Road Crossings.....\$75,000
- 1 Trail Bridge, including Abutments .....\$80,000

### LOS PADILLAS SEGMENT (3.2 MILES).....\$4,314,000

- Trail construction, landscaping, and related work.....\$3,040,000
- 1 Gateway Trailhead.....\$534,000
- 1 Major Community Node .....\$260,000
- 1 Minor Neighborhood Node .....\$200,000
- 2 Collector Road Crossings.....\$100,000
- 4 Local Road Crossings.....\$100,000
- 1 Trail Bridge, including Abutments .....\$80,000

### TOTAL PROJECT COST.....\$19,262,000

THE APPROXIMATE COST PER MILE IS \$950,000.



## RECOMMENDED PROJECT PHASING

### 1. ARENAL

The Arenal segment of the Isleta Drain extends from Bridge Boulevard to Blake Road and is one of the highest density residential areas along the drain. This section also runs by several schools, including Rio Grande High School, Atrisco Elementary and South Valley Academy. Many students already use the drain corridor as a path to their respective schools. Additionally, the Arenal Open Space plans will be implemented in the near future and the Isleta Drain + Trail could offer a welcome extension of the trails through the open space. For these reasons, the team proposes beginning with the Arenal segment for the first phase of project implementation.

### 2. ATRISCO

The Atrisco section – extending from Central Avenue to Bridge Boulevard offers connections between neighborhoods, commercial corridors and community hubs. This natural gateway segment off Route 66 will be an important second phase of Isleta Drain + Trail improvements, offering a safe connection into the heart of the South Valley from the city of Albuquerque along an iconic waterway.

### 3. RIO BRAVO

The Rio Bravo segment of the Isleta Drain (from Blake Road to Gun Club Road) will see the most dramatic commercial and residential development in the next decade. For this reason, the Isleta Drain + Trail Plan provides clear direction for pedestrian and bicycle improvements that must be prioritized as this development comes to fruition.

### 4. PAJARITO

The Pajarito section of the Isleta Drain (Gun Club Road to Raymac Road) marks the beginning of a noticeably rural character. It is recommended that this phase of the Isleta Drain and Trail improvements come after the first three, given the relative degree to use and connections to nearby community amenities and residential areas.

### 5. LOS PADILLAS

Last but not least, the Los Padillas segment provides a natural conclusion for the Isleta Drain + Trail. This segment offers sweeping views of the Isleta escarpment to the south and namesake of the drain. Completing this segment with a clear and accessible Gateway Trailhead and corresponding facilities will provide a lovely natural resting and staging area for users of the Isleta Drain + Trail.

## FUNDING SOURCES

The table below outlines several potential funding resources to assist with implementation of the Isleta Drain + Trail Plan. As the Isleta Drain falls within the Albuquerque Metropolitan Planning Area, any proposed transportation projects that apply to receive federal highway or transit funding must be included in the MRCOG Transportation Improvement Plan (TIP). The TIP is updated every four years.

	Name	Description	Source	Match	Project Size	Time	Eligible Trail Activities
NMDOT Active Transportation Programs	Recreational Trails Program (RTP)	The Recreational Trails Program (RTP) provides funding to states to develop and maintain recreational trails and trail-related facilities for both non-motorized and motorized recreational trail uses. Funds are administered by their respective states and requirements vary. Projects must be listed within the Statewide Transportation Improvement Plan (STIP) to qualify. 30% non-motorized, 30% motorized, and 40% diverse trails.	FHWA through NMDOT	14.56% match with 5% required to come from a non-Federal match	\$5,000-\$100,000 per project, \$1.4 mil available annually	Varies	Construction, maintenance, planning, and design of on-road and off-road trail facilities for pedestrians, bicyclists, and other non-motorized forms of transportation.
	Transportation Alternatives Program (TAP)	The Transportation Alternatives (TA) Set-Aside from the Surface Transportation Block Grant (STBG) Program provides funding for a variety of generally smaller-scale transportation projects such as pedestrian and bicycle facilities; construction of turnouts, overlooks, and viewing areas; community improvements such as historic preservation and vegetation management; environmental mitigation related to stormwater and habitat connectivity; recreational trails; safe routes to school projects; and vulnerable road user safety assessments.	FHWA through NMDOT	14.56%	Varies; range from \$10,000-\$1 mil per project	Annual	Planning, design, and construction of on-road and off-road trail facilities for pedestrian, bicyclists and other non-motorized forms of transportation, including sidewalks, bicycle infrastructure, pedestrian and bicycle signals, traffic calming techniques, lighting and other safety-related transportation projects
	Safe Routes to School	Safe Routes to School (SRTS) programs encourages children to walk and/or bicycle to and from school safely on a daily basis. New Mexico has a statewide program that provides funding, technical assistance, training opportunities and other resources. Funding available for infrastructure projects within 2 miles of a school.	FHWA through NMDOT	No match requirement	Infrastructure projects up to \$250 K; Non-infrastructure activities up to \$25 K	Varies	Infrastructure, planning, engineering, and construction
	Congestion Mitigation and Air Quality Improvement Program (CMAQ)	The CMAQ program provides funding for projects, programs, and operational strategies that reduce vehicle congestion and air pollutants regulated by the Environmental Protection Agency (EPA). Eligible projects could include transit vehicle replacement, facility development, multi-use trails, and bicycle sharing programs.	FHWA through NMDOT	14.56%	Varies, \$500,000 available annually	Annual	Projects that improve air quality, including on- and off-street bikeways that help reduce vehicle trips for transportation. Other eligible projects include planning, intersection improvements, roundabouts, park and ride facilities.

	Name	Description	Source	Match	Project Size	Time	Eligible Trail Activities
	The Outdoor Recreation Trails+ Grant	The Outdoor Recreation Trails+ (formerly known as the Special Projects and Infrastructure Fund) is a grant program that supports projects enhancing community outdoor recreation opportunities. This grant funds shovel-ready projects that directly provide access to parks, rivers, trails, outdoor recreation opportunities, and wildlife viewing opportunities.	NMEDD	50%	\$7 mil allocated in 2022	Annual	Design, engineering plans, and construction, of shovel-ready structures and other infrastructure that enhances public nature-based outdoor recreation in a community. Projects that take a regional approach (i.e. a trail that connects to a broader system) will be weighed more heavily.
	Capital Outlay	Capital outlay funds are used to build, improve, or equip physical property that will be used by the public. In NM, state capital outlay is authorized by the Legislature and generally is nonrecurring—one-time money	NMDFA	Can serve as matching funds for Federal programs	Varies; \$99,713,878 allocated in Bernalillo County in 2021	Annual	Trails, facilities, amenities, and structures open to the public.
	Local / Private Funding	Funding provided by local municipalities and private entities. This includes GO Bonds.	City/ County/ Private	Can serve as matching funds for Federal programs	Varies; County has a 5% bond set aside for GO Bonds	Varies	Infrastructure, planning, engineering, and construction



Resolution of the Board of Directors of the  
Middle Rio Grande Conservancy District  
Participation in Capital Outlay Grant Program Administered  
By New Mexico Department of Transportation

M-12-12-22-197

**WHEREAS**, in the Laws of 2022, SB212, Chapter 53, Section 36, Subsection 18, the New Mexico Legislature (Legislature) made an appropriation to the New Mexico Department of Transportation (DOT), and funds from the appropriation have been granted to the Middle Rio Grande Conservancy District to purchase, install and equip traffic control devices in Bernalillo County (the Grant Project).

**WHEREAS**, the Middle Rio Grande Conservancy District and the DOT desire to enter into a Grant Agreement for the expenditure of funds for the Grant Project.

**WHEREAS**, the total cost of the Grant Project will be \$20,000 to be funded by the parties hereto as follows:

- a) New Mexico Department of Transportation's share shall be 100% or (\$20,000) and
- b) Middle Rio Grande Conservancy District's proportional matching share shall be 0% or \$0.00
- c) The total project cost is \$20,000; Middle Rio Grande Conservancy District shall pay all costs which exceed the total grant amount of \$20,000.

**NOW THEREFORE, BE IT RESOLVED** in official session that Middle Rio Grande Conservancy District determines, resolves, and orders as follows:

That the Grant Project is hereby approved and has a priority standing.

That the Grant Agreement terminates on June 30, 2026 (for Laws of 2022) and the Middle Rio Grande Conservancy District incorporates all the agreements, covenants, and understandings between the parties hereto concerning the subject matter hereof, and all such covenants, agreements and understandings have been merged into the Grant Agreement.

**BE IT FURTHER RESOLVED** by the Middle Rio Grande Conservancy District authorizes its CEO/Chief Engineer to enter into the Grant Agreement (Control Number C3223100 with the New Mexico Department of Transportation for Capital Outlay (Laws of 2026)) to purchase, install and equip traffic control devices within the control of the Middle Rio Grande Conservancy District in Bernalillo County, New Mexico.

**DATED AND RESOLVED** this 12<sup>th</sup> day of December 2022.

MIDDLE RIO GRANDE CONSERVANCY DISTRICT

Stephanie Russo Baca, Chair

ATTEST:

Pamela Fanelli, CMA, CGFM  
Secretary-Treasurer/CFO

# 13

## DECEMBER

**Middle Rio Grande Flood**

**Control Association**

**Annual Breakfast**

Albuquerque Country Club

### **MRGCD Holiday Hours**

**Closed in Observance of Christmas**

Monday & Tuesday  
December 26<sup>th</sup> & 27<sup>th</sup>

**Closed in Observance of New Year's**

Monday, January 2<sup>nd</sup>

## UPCOMING EVENTS

# 23-24

## FEBRUARY

**Family Farm Alliance Annual**

**Reno, Nevada**

Early bird registration  
December 15th

# 1-2

## MARCH

**Land and Water Summit**

Registration deadline

February 24, 2023

Stephanie Russo Baca, Chair, December Board Reports

November 15, 2022, Report on the CEO Review Process Scoping Meeting, Virtual.

November 16, 2022, Valencia County Commission Meeting, 444 Luna Avenue, Los Lunas, NM 87031.

November 17, 2022, Conservation Advisory Committee, virtual.

November 29, 2022, 350NM Speaker Series on Water, “New Mexico’s Water Future” virtual.  
[https://youtu.be/gG\\_lPu-G5a4](https://youtu.be/gG_lPu-G5a4).

November 30, 2022, NM Water Leaders Workshop, Elephant Butte Delta Channel Project, 1000 Bullock Blvd, Socorro NM 87801.

December 2, 2022, NM Water Leaders Workshop, 1003 Lopezville Rd, Socorro, NM 87801.

December 8, 2022, 350NM Speaker Series on Water Part 2: “New Mexico’s Water Future, Equitably managing our water in drying climate, Water Task Force Recommendations snf 2023 Legislation” **Chair will submit on day of Board meeting**

December 9 & 10, Congreso De Las Acequias, Highlands University Student Center, 800 National Ave, Las Vegas, NM 87701. **Chair will submit on day of Board meeting**



**November 15, 2022, Report on the CEO Review Process Scoping Meeting, Virtual.**

Discussion regarding conducting a formal process for a performance review of CEO/Chief Engineer Jason Casuga.

**November 16, 2022, Valencia County Commission Meeting**

I spoke in favor of items 8 & 9 regarding the Belen Watershed & Flood Prevention Project with Middle Rio Grande Conservancy District and Consideration of MOU with the Middle Rio Grande Conservancy District for Participation in the USDANRCS WFPO – Watershed & Flood Prevention Operations Program, Specifically the Belen Watershed Flood Protection Project. The Valencia County Commission approved both items.

Board of

**November 16, 2022**



County Commissioners

**Agenda**

**5:00 P.M.**

***Public Hearing / Business Meeting***  
***Valencia County Commission Chambers***  
***444 Luna Ave.***  
***Los Lunas, NM 87031***

***Please Silence all Electronic Devices***

- 1) Call Meeting to Order
- 2) Pledge of Allegiance
- 3) Approval of Agenda
- 4) Approval of Minutes

***10-19-2022 Public Hearing/Business Minutes***

A handwritten signature in black ink, appearing to be "D. Q. F.", located to the right of the agenda items.

---

*Sponsorship does not indicate endorsement of a given topic*

**PUBLIC COMMENT**

Public comment is limited to 3 minutes per person. Please use the signup sheet outside the Chamber door.

**DISCUSSION (non-action item(s))**

- 5) Commissioners, Committees and Reports
  - a. Employee of the Month. ***Presenter: Human Resources Director, Orlando Montoya; Sponsor: County Commission***
  - b. First Quarter Financial Report, ***Presenter: Finance Director, Loretta Trujillo, Sponsor: County Manager for Regular County Business***

**ACTION ITEMS**

**Board Convenes as Indigent Board**

- 6) Approval of Indigent Report. ***Presenter: Human Resources Specialist, Maria Garcia; Sponsor: County Manager for Regular County Business***

**Board Reconvenes as Board of County Commissioners**

- 7) Approval of Recognition and Recording of Accounts Payable and Payroll Disbursements. ***Presenter: Finance Director, Loretta Trujillo; Sponsor: County Manager for Regular County Business***
- 8) Approval of Resolution 2022-\_\_\_; Supporting the Belen Watershed & Flood Prevention Project with Middle Rio Grande Conservancy District: ***Presenter: Public Works Director, Lina Benavidez, Sponsor: County Manager for Regular County Business***



- 9) Consideration of MOU with the Middle Rio Grande Conservancy District for Participation in the USDA-NRCS WFPO – Watershed & Flood Prevention Operations Program, Specifically the Belen Watershed Flood Protection Project: ***Presenter: Public Works Director, Lina Benavidez, Sponsor: County Manager for Regular County Business***
- 10) Consideration to Approve the Revised Memorandum of Agreement between Valencia County and Rio Metro Regional Transit District for Capital Appropriation C320E2828 –Quiet Zone Construction at Luscome Lane, Los Lentos and Gabaldon Road. ***Presenter: Public Works Director, Lina Benavidez, Sponsor: County Manager for Regular County Business***
- 11) Consideration to Approve the Railroad Grade Crossing Quiet Zone Construction & Maintenance Agreement for Gabaldon Road between Valencia County and the New Mexico Department of Transportation. ***Presenter: Public Works Director, Lina Benavidez, Sponsor: County Manager for Regular County Business***
- 12) Approval of Resolution 2022-\_\_\_; Supporting the New Mexico Counties 2023 Legislative Priorities. ***Presenter & Sponsor: Commissioner, Jhonathan Aragon***
- 13) Approval of JPA Establishing the Opioid Remediation Collaborative. ***Presenter: County Attorney, David Pato; Sponsor: County Manager for Regular County Business***
- 14) UWS Contract Amendment. ***Presenter: County Attorney Dave Pato, Sponsor: County Manager for Regular County Business***
- 15) Approval of Resolution 2022-\_\_\_; Authorizing the Village of Los Lunas to Submit an Application to DFA to Participate in the Local DWI Grant and Distribute Program & Delegating Authority, ***Presenter: DWI Coordinator, Ginny Adame; Sponsor: Commissioner Chair, Gerard Saiz***
- 16) Approval of Resolution 2022-\_\_\_; Authorizing the Village of Los Lunas to Operate a Misdemeanor Compliance Program and DWI Misdemeanor Compliance Program, ***Presenter: DWI Coordinator, Ginny Adame; Sponsor: Commissioner Chair, Gerard Saiz***
- 17) Approval of a Proclamation Expressing Gratitude for Election Workers. ***Presenter: County Manager, Danny Monette; Sponsor: County Manager for Regular County Business***
- 18) Consideration of Resolution 2022-\_\_\_ Amending Resolution 2022-09 for Appointment of Boards and Committees to Fill Vacancies. ***Presenter & Sponsor: Commissioner, Joseph Bizzell***  
***Mid-Region Council of Governments***
  - *Water Resources Board*
  - *Metropolitan Transportation Board*
  - *Freight Logistics Committee*
- 19) Consideration to Approve NM State Fire Marshal Fire Protection Grant Award for FY-23. ***Presenter: Fire Chief, Matt Propp; Sponsor: County Manager for Regular County Business***

## **EXECUTIVE SESSION**

Pursuant to Section 10-15-1 (H) the following matters may be discussed in closed session:

- a. Competitive Sealed Proposals § 10-15-1 (H) (6)
    - i. *Request for Proposals # VCR-FY22-012 – Valencia County Hospital*
  - b. pending or threatened litigation 10-15-1 (H) (7)
  - c. personnel 10-15-1 (H) (2)
  - d. Real Property 10-15-1 (H) (8)
    - i. *Sale of County Real Property in Rio Del Oro*
- Motion and roll call vote to go into Executive Session for the stated reasons
  - Board meets in closed session
  - Motion and vote to go back into regular session
  - Summary of items discussed in closed session
  - Motion and roll call vote that matters discussed in closed session were limited to those specified in motion for closure, and that no final action was taken, pursuant to the authority in §10-15-1 NMSA 1978

## **ACTION ITEMS (cont.)**

**20) Direction to Staff Regarding the Sale of Real Property in Rio Del Oro** ***Presenter: County Manager Daniel P. Monette, Sponsor: County Manager for Regular County Business***

## **NEXT COMMISSION MEETINGS**

**November 29, 2022** – ICIP Meeting at 4:00 P.M. & Community Christmas Tree Lighting at 5:30 P.M.  
Valencia County Commission Chambers, 444 Luna Ave, Los Lunas, NM 87031

**December 7, 2022** –Business Meeting @ 5:00 P.M. via Facebook Live  
Valencia County Commission Chambers, 444 Luna Ave., Los Lunas, NM 87031

**December 21, 2022** – Public Hearing/Business Meeting @ 5:00 P.M. via Facebook Live  
Valencia County Commission Chambers, 444 Luna Ave., Los Lunas, NM 87031

## **ADJOURN**

**November 17, 2022, Conservation Advisory Committee, virtual.**

Rio Grande Compact News – Casey Ish

- Credit Water Agreement reached between Compact States on the Rio Grande, resulting in a one-time credit adjustment. On December 31st 2022 the Compact Debit owed by New Mexico will be adjusted (reduced) by 32,500 AF.
- NM OSE-ISC is expecting end of year compact debit to mirror the value we started with in 2022 (~125-135,000 AF) prior to the one-time adjustment.
- Does not result in a “wet water” for New Mexico.

Leasing Program Update – Ray Hartwell and Casey Ish

- 2023 Enrollment Window is now open. We received our first application on 11/16/22.

Link to the application page can be found below.

<https://www.mrgcd.com/fallowing-program/>

On-Farm Program – Applicant Cost Share Discussion

- Irrigation Committee approved of the preliminary design for the OFP Cost Share and directed staff to present a final Cost Share & Program Design to the Board’s Finance Committee in December or January.

No December CAC Meeting

# **Conservation Advisory Committee**

## **Meeting Agenda**

November 17<sup>th</sup>, 2022

**9:30-11:30 AM.**

**Meeting URL:** Meeting link will be provided in the group email. It will be a GoTO Meeting invite which will have both a computer option and or call in option.

<https://meet.goto.com/james789>

## **Topics for Discussion**

### **Rio Grande Compact News – Casey Ish**

- Credit Water Agreement reached between Compact States on the Rio Grande, resulting in a one-time credit adjustment. On December 31<sup>st</sup> 2022 the Compact Debit owed by New Mexico will be adjusted (reduced) by 32,500 AF.
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<https://www.mrgcd.com/fallowing-program/>

### **On-Farm Program – Applicant Cost Share Discussion**

- Irrigation Committee approved of the preliminary design for the OFP Cost Share and directed staff to present a final Cost Share & Program Design to the Board's Finance Committee in December or January.

### **December CAC Meeting**

- Casey will be attending the Colorado River Water Users Association (CRWUA) conference from Dec. 14-16.
- Recommendation that the CAC meeting be rescheduled or cancelled for the month of December.

### **Other Topics (Open Floor)**



**November 29,2022, 350NM Speaker Series on Water, “New Mexico’s Water Future” virtual. [https://youtu.be/gG\\_IPu-G5a4](https://youtu.be/gG_IPu-G5a4).**

“New Mexico’s Water Future: Equitably managing our water in a drying climate” presented by Norm Gaume and Kyle Harwood.

The video recording of the talk is now on YouTube at this link: Water Future Video.

The water report referenced by Norm and Kyle is at this link: Leap Ahead Analysis report <https://geoinfo.nmt.edu/ClimatePanel/report/home.html>

or you can view the Leap Ahead videos on YouTube  
<https://www.youtube.com/playlist?list=PLhYUVgMh7jgmTASZPkg053p5r1FpcrC6>

**350**  *Speakers Series*

Tuesday, Nov. 29 • 6:30 PM

# New Mexico's Water Future

*Managing our water in a drying climate*



**Kyle Harwood**

Water Rights Attorney



**Norm Gaume**

Mid Rio Grande Water Advocates

Water Policy Task Force Recommendations & 2023 Legislation

register:<https://350newmexico.org/calendar/>

## **November 30, 2022, NM Water Leaders Workshop, Elephant Butte Delta Channel Project**

Anders Lundahl with NM ISC presented about the work being done on the Elephant Butte Delta Channel then we toured the river channel via airboat to see the amphibious excavators.



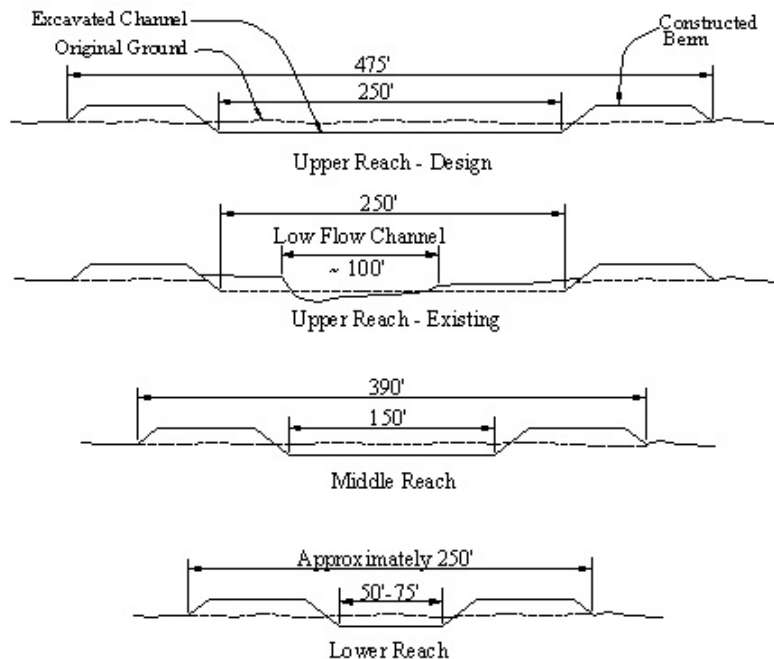






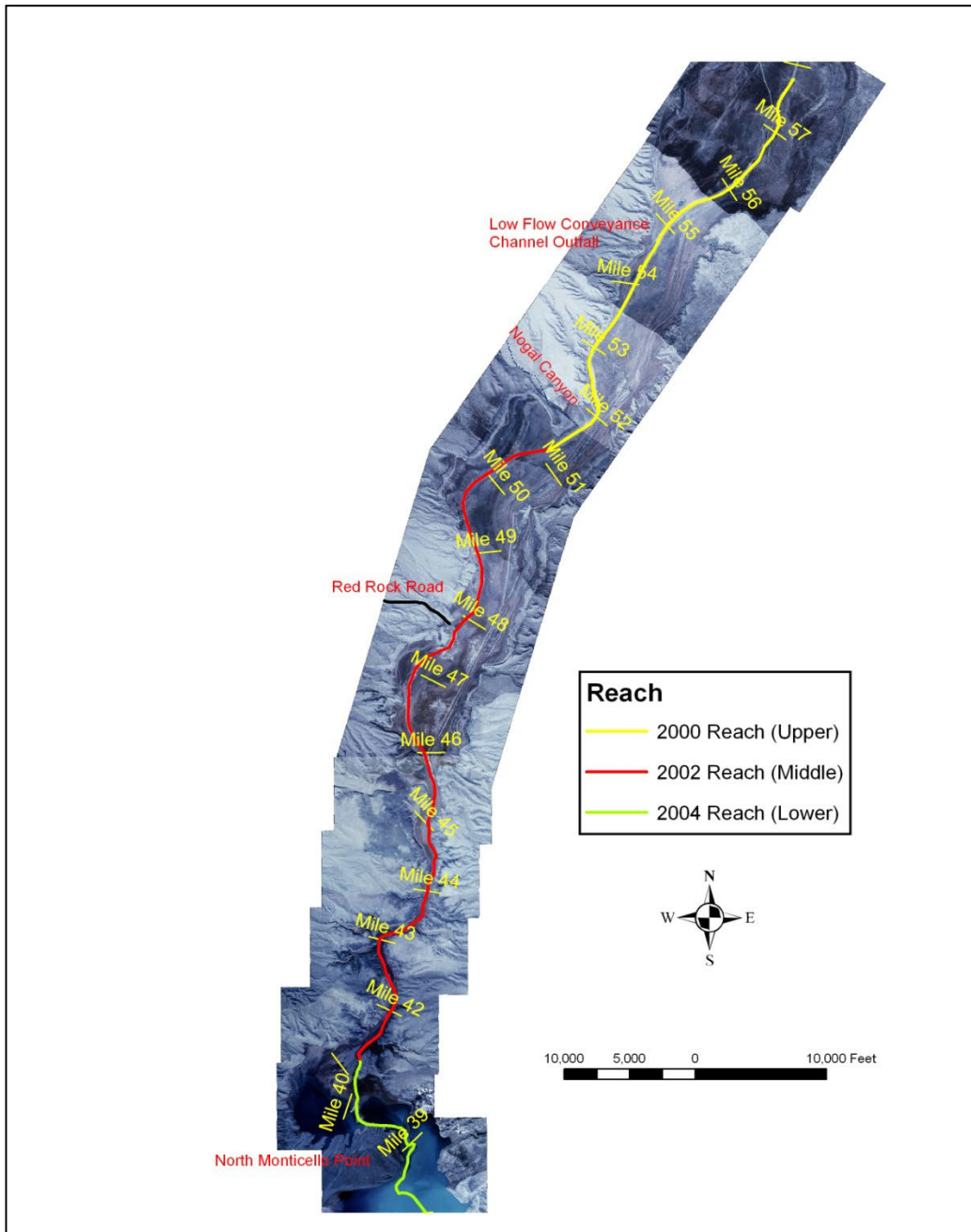
## STOP 7: Elephant Butte Delta Channel Project

The Interstate Stream Commission continues to collaborate with the U.S. Bureau of Reclamation (Reclamation) to maintain the 20+ mile long Elephant Butte Reservoir Delta Channel. The Delta Channel (see x-section below) is constructed within the upper dry portion of the reservoir that has become exposed by the drought. The 20 mile long Delta channel is an engineered channel about 150 to 300 feet wide and 3 to 5 feet deep with berms roughly 5 to 10 feet high designed to convey river flows ranging from 1,500 to 2,000 cubic feet per second. Work is required annually to unclog sediment and vegetation and keep the Rio Grande hydrologically connected with the reservoir and capture as much water as possible. The Delta Channel extends south along the Rio Grande valley from near Fort Craig, New Mexico to South Monticello Point at the top of Elephant Butte Reservoir.

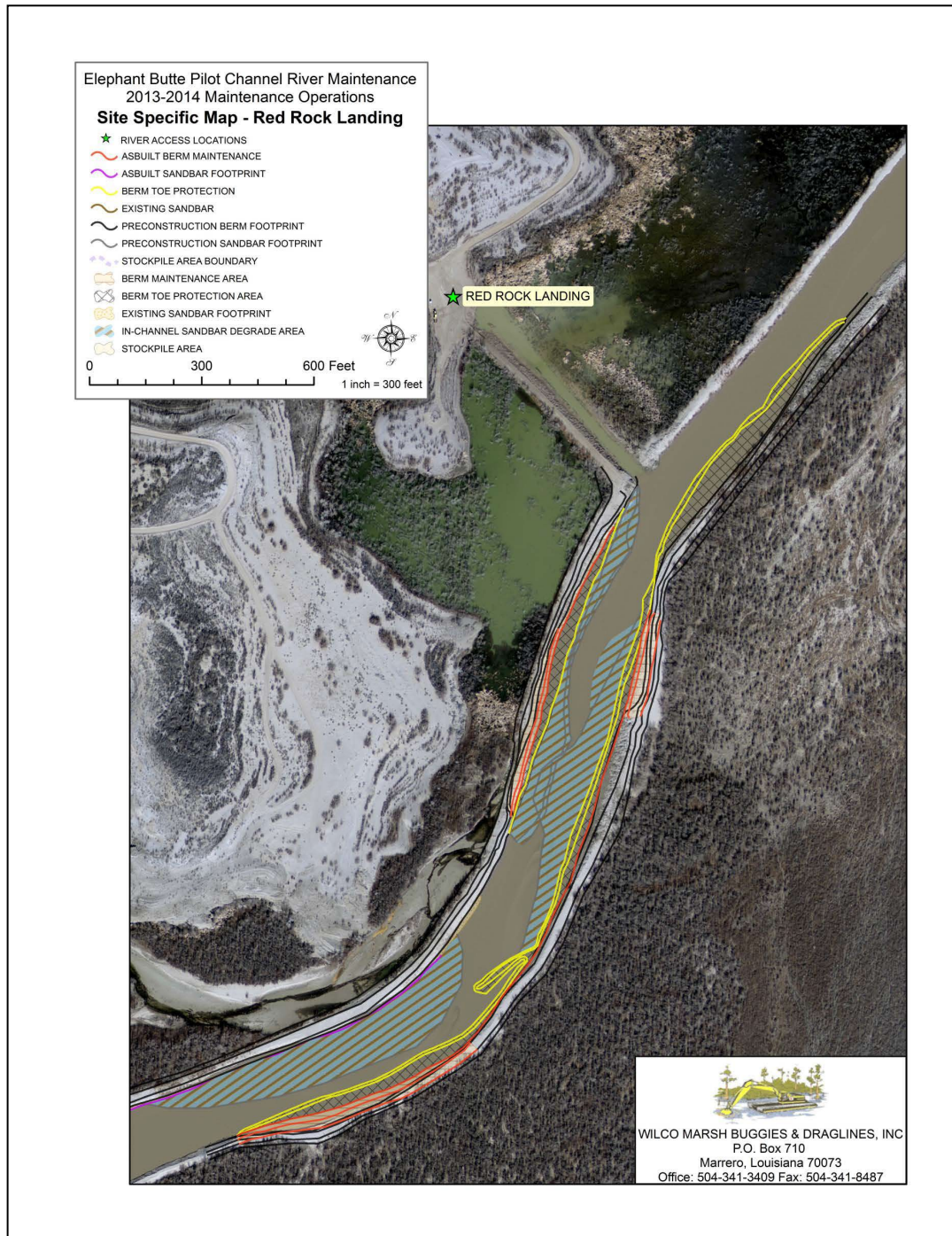


### Estimated Savings of Water and Effects on Upstream Reservoirs

- Up to 20,000 AF/Year
- Allow for higher MRG reservoir releases
- Reduce negative impacts of Article VII storage restriction
  - Reduce time when Article VII in effect
  - Allow for more storage in El Vado when Article VII not in effect
  - Aid in compact deliveries and potential to accrue credit



Aerial View of the Delta Channel.



Delta Channel construction map.



### ISC River Maintenance Project Related Expenditures 2007-2014

	Water Salvage Agreement - BOR	Delta Channel	Vegetation Management - BOR	Total Per Fiscal Year
FY14	\$0	\$305,000	\$75,000	\$380,000
FY13	\$0	\$918,623	\$75,000	\$993,623
FY12	\$860,000	\$650,432	\$75,000	\$1,585,432
FY11	\$224,000	\$701,219	\$65,000	\$990,219
FY10	\$720,000	\$1,005,837	\$164,000	\$1,889,837
FY09	\$900,000	\$1,437,862	\$75,000	\$2,412,862
FY08	\$340,000	\$981,474	\$0	\$1,321,474
FY07	\$1,149,900	\$2,663,649	\$75,000	\$3,888,549
<b>Total FY08-FY14</b>	<b>\$4,193,900</b>	<b>\$8,664,096</b>	<b>\$604,000</b>	<b>\$13,461,996</b>



## **December 2, 2022, NM Water Leaders Workshop**

Discussion of the 50-year water plan - Next steps / actions (Andrew Erdmann, ISC) as well as the Water Policy and Infrastructure Task Force recommendations (Mike Hamman OSE, and Hannah Riseley-White, ISC, Rebecca Roose, NMED and Marquita Russel, NMFA)

There was further discussion regarding adaptation and resilience / systems thinking (Dagmar Llewellyn, USBOR)

In the afternoon we went into breakout sessions. I discussed water sharing, agricultural water issues and alternative water source issues.



# New Mexico Water Leaders Workshop

December 1-2, 2022  
Socorro, New Mexico

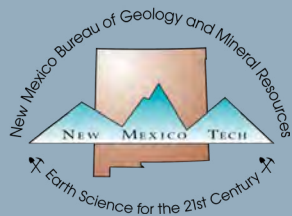
## **REFERENCE BOOK**

Hosted by New Mexico Bureau of Geology and Mineral Resources  
At New Mexico Institute of Mining and Technology  
With support from Thornburg Foundation



## CONTENTS

Agenda	3
Logistics and Maps	5
Registered Attendees	7
Recommended Reading and Resources	9
Presenter Bios and Contact Information	12



# AGENDA

## DAY 1: 12.01.2022

### BREAKFAST

7:30-8:00: Deju House, NMT

### MORNING SESSION

8:00-8:15: Welcoming remarks; Agenda and logistics

8:15-9:15: Statewide Perspective: Water in NM Brief

#### 10 min presentations

- Climate impacts and expectations, impacts to surface water (Fred Phillips, NMT emeritus)
- Groundwater resources, water data, areas of concern (Stacy Timmons and Rob Pine, NMBGMR)
- Unconventional Sources of Water for NM: Opportunities & Constraints (Bruce Thomson, UNM emeritus)
- Q&A

9:15-9:30: 15 minute Break

9:30-10:45: Management operations, infrastructure and regulation in New Mexico

#### Brief 10 min presentations

- Water quality regulation (Rebecca Roose, NMED)
- Water rights basics, AWRM (active water resource management), and interstate compacts (Mike Hamman, OSE; Rolf Schmidt-Peterson ISC)
- Federal roles - interagency cooperation and infrastructure management (Carolyn Donnelly, USBOR)
- Alternative management options; shortage sharing (Adrian Oglesby and Stephanie Russo Baca, Utton Center)
- Q&A

10:45-11:00: Break 15 Min

11:00-12:00: PANEL Rural / Small water and wastewater system challenges

#### Focused questions of panelists

- Southwest EFC - Heather Himmelberger
- RCAC - Ramon Lucero
- NMRWA - Bill Conner
- NMED - Rebecca Roose
- Q&A

### LUNCH

12:00-12:45: Greetings from NMT President

Review logistics for field trip plans; load onto bus

### AFTERNOON FIELD SESSION

1:00-5:00 (Travel by Bus)

20 Min drive to San Acacia Dam - Water as a collaboration

Onsite 1.5 hr



### Brief 10 min presentations

- Overview: lay of the land, simple geology and aquifer interaction, history, sediment input to river (Dan Cadol, NMT)
- Overview - Importance of this reach - the issues - how do we get the water here (Adrian Oglesby, Utton Center)
- Water management and infrastructure challenges (Jason Casuga, MRGCD)
- Farmers adapting to change (Cecilia Rosacker, Rio Grande Agricultural Land Trust)
- Environmental perspective (Paul Tashjian - Audubon)
- Q&A

35 min Drive to Bosque Del Apache - Overlook

Onsite 1 hr

### Brief 10 min presentations

- Rio Grande compact and river maintenance challenges (15 min) (Page Pegram and Rolf Schmidt-Peterson, ISC)
- River alignment and moving water through here (Cameron Herrington, invited, USBOR)
- Down river sections - efficiency - projects planned (Jennifer Faler, Kenneth Richard, USBOR)
- Fire and its impacts to the region (5 min; Dan Cadol, NMT)
- Q&A

30 min drive back to Socorro, drive through Bosque Del Apache (tentative)

## SOCIAL HOUR AND DINNER

5:30-8:00: Deju House, NMT

Dinner served at 6:30pm

Keynote presentation at 7pm: Phoebe Suina

## DAY 2: 12.02.2022

### BREAKFAST

7:30-8:00: Deju House, NMT

### MORNING SESSION

8:00-9:15: Presentations

- 10 Min: 50-year water plan - Next steps / actions (Andrew Erdmann, ISC)
- 20 Min: Water Policy and Infrastructure Task Force recommendations (Mike Hamman OSE, Hannah Riseley-White, ISC, Rebecca Roose, NMED and Marquita Russel, NMFA)
- 10 min: A charge for adaptation and resilience / systems thinking (Dagmar Llewellyn, USBOR)
- Brief Q&A

9:15-9:30: Break and restructure room

9:30-12:00: Set-up and engage in concurrent breakout sessions

12:00-1:00: Lunch

### AFTERNOON SESSION

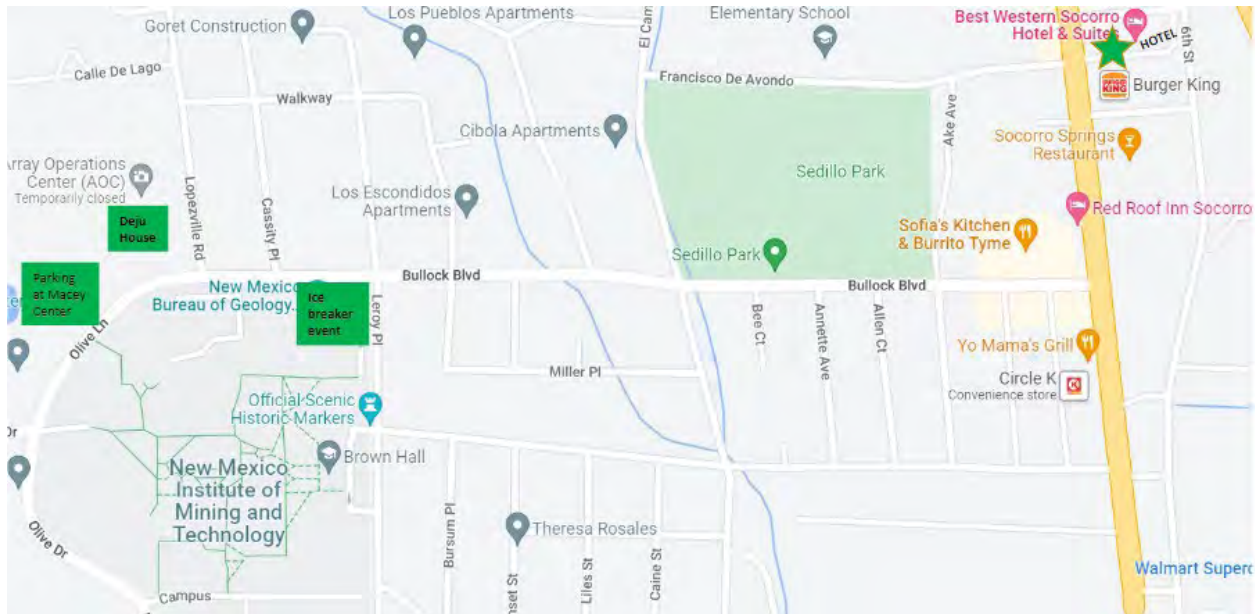
1:00-2:30: Report out, discussions and next steps.

Adjourn 2:30 pm

# LOGISTICS AND MAPS

## HOTEL

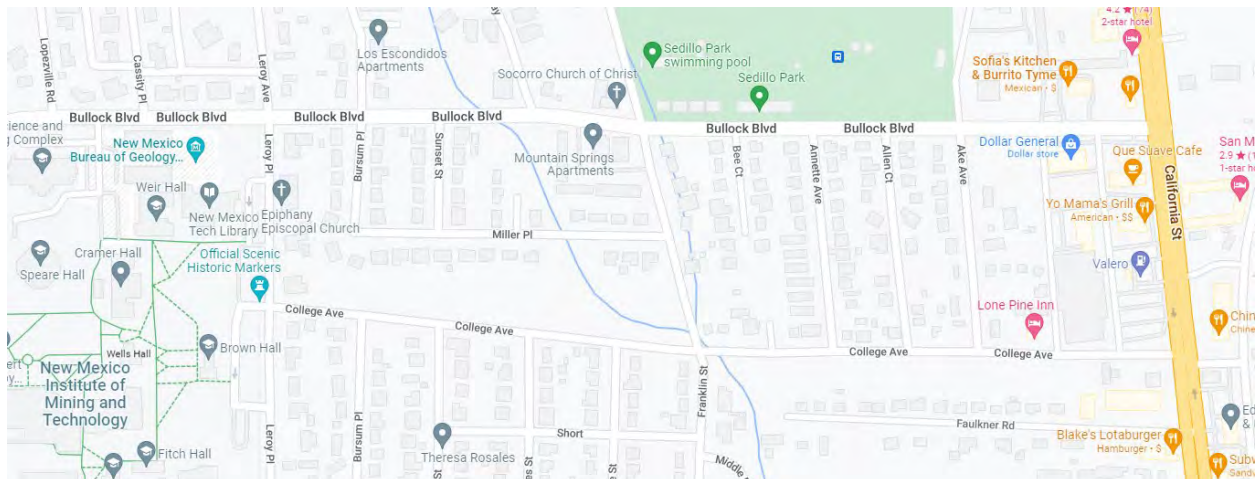
- Participants who signed up for a hotel in registration will have a room arranged at Socorro Best Western, located at 1100 N. California Street, Socorro, NM 87801: [View Map ->](#)



## ICEBREAKER EVENT

**November 30, 5pm – 7:30pm**

- New Mexico Bureau of Geology and Mineral Resources (Headen Building)
- Navigate to 1000 Bullock Blvd, Socorro NM 87801 (located near the big water feature at corner of NMT campus: [View Map ->](#)



## WORKSHOP EVENTS

**December 1-2, 7:30am start**

- Deju House, NM Tech campus: [View Map ->](#)
- Parking is at Macey Center



# REGISTERED ATTENDEES

Gail Armstrong .....	House Representative, District 49
Aron Balok .....	Pecos Valley Artesian Conservancy District
Gilbert Benavides .....	Village of Los Ranchos, Water Authority Board, Trustee & Member
Linda Benavides .....	House Representative, District 17
Doug Bland .....	New Mexico Bureau of Geology & Mineral Resources
Daniel Cadol .....	Professor, Hydrology, Earth & Environmental Sciences, New Mexico Tech
Greg Carrasco .....	Commissioner, New Mexico Interstate Stream Commission
Cally Carswell .....	Legislative Finance Committee
Jason M. Casuga .....	Chief Engineer/CEO, Middle Rio Grande Conservancy District
Aaron Chavez .....	Commissioner, New Mexico Interstate Stream Commission
Bill Conner .....	Executive Director, New Mexico Rural Water Association
Siah Correa Hemphill .....	Senator, District 28
Crystal Diamond .....	Senator, District 35
Carolyn Donnelly .....	Bureau of Reclamation
Andrew Erdmann .....	New Mexico Interstate Stream Commission
Alex Eubanks .....	Field Representative, US Senator Martin Heinrich
Jennifer Faler .....	Area Manager, Bureau of Reclamation
Paula Garcia .....	Executive Director, New Mexico Acequia Association
Robert Goldberg .....	Organization Insight, LLC
DeChellie Gray .....	Field Representative, US Representative Melanie Stansbury
Mike A. Hamman .....	New Mexico State Engineer, Office of the State Engineer
Pamelya P. Herndon .....	House Representative, District 28
Susan Herrera .....	House Representative, District 41
Martin Hickey .....	Senator, District 20
Heather Himmelberger .....	Director, Southwest Environmental Finance Center
Casey J. Ish .....	Middle Rio Grande Conservancy District
Dagmar K. Llewellyn .....	Bureau of Reclamation
Ramon M. Lucero .....	Regional Field Manager, Rural Community Assistance Corporation
Tara Lujan .....	House Representative, District 48
Nicholas A. Maestas .....	Field Representative, US Senator Ben Ray Lujan
Anne Marken .....	Middle Rio Grande Conservancy District
Patrick McCarthy .....	Water Policy Officer, Thornburg Foundation
Greg Nibert .....	House Representative, District 59
Adrian Oglesby .....	Director, Utton Transboundary Resources Center, University of New Mexico
Kristina Orteiz .....	House Representative, District 42
Page L. Pegram .....	New Mexico Interstate Stream Commission
Fred M. Phillips .....	Professor Emeritus of Hydrology, New Mexico Tech
Rob Pine .....	Hydrologist, New Mexico Bureau of Geology & Mineral Resources
Kitty Pokorny .....	Aquifer Mapping, New Mexico Bureau of Geology & Mineral Resources



John S. Rhoderick ..... Water Protection Division, New Mexico Environment Department  
Ken Richard..... Program Coordinator/Project Manager, Bureau of Reclamation  
Hannah Riseley-White ..... Deputy Director, New Mexico Interstate Stream Commission  
Andrea Romero ..... House Representative, District 46  
Rene Romo ..... Field Representative, US Senator Ben Ray Lujan  
Rebecca Roose..... Deputy Cabinet Secretary, New Mexico Environment Department  
Cecilia Rosacker ..... Executive Director, Rio Grande Agricultural Land Trust  
Marquita D. Russel..... CEO, New Mexico Finance Authority  
Peter Russell..... Commissioner, New Mexico Interstate Stream Commission  
Stephanie Russo Baca... Ombudsman Program Director & Staff Attorney, Utton Transboundary Resources Center  
Rolf Schmidt-Petersen..... Director, New Mexico Interstate Stream Commission  
Antoinette Sedillo Lopez ..... Senator, District 16  
Nathan Small ..... House Representative, District 36  
Mimi Stewart ..... Senate President Pro Tem, Senator, District 17  
Phoebe K. Suina ..... High Water Mark, LLC  
Bill G. Tallman ..... Senator, District 18  
Paul Tashjian ..... Director of Freshwater Conservation, National Audubon Society  
Bruce Thomson..... Research Professor, University of New Mexico  
J. Michael Timmons..... Acting Director, New Mexico Bureau of Geology & Mineral Resources  
Stacy Timmons ..... New Mexico Bureau of Geology & Mineral Resources, New Mexico Tech  
Ashley Ward ..... Senior Policy Associate, Nicholas Institute, Duke University  
Peter Wirth ..... Senate Majority Leader, Senator, District 25  
Pat Woods ..... Senator, District 7  
Martin Zamora..... House Representative, District 63

# RECOMMENDED READING AND RESOURCES

## NM BUREAU OF GEOLOGY AND MINERAL RESOURCES

- [Groundwater Story Map](#)
- [Climate and Water Report 2022](#)
- [Earth Matters Publications](#)
- [Previous Decision Maker's Conference Materials](#)
- [Healy Collaborative Groundwater Monitoring Network](#)
- [REFERENCE on Groundwater Monitoring Networks from USGS](#)

## NM OFFICE OF THE STATE ENGINEER / INTERSTATE STREAM COMMISSION

- [2018 New Mexico State Water Plan Part III: Legal Landmarks](#) provides information about historical New Mexico water law decisions, events, and circumstances that shaped New Mexico's legal structures for water resource administration

## UTTON CENTER

- [Shortage Sharing Pilot Listening Session](#)
- [Water Matters! \(2015\)](#)

## NM ENVIRONMENT DEPARTMENT

**Water Policy and Infrastructure Task Force:** Community Drinking Water, Wastewater and Stormwater Capacity, Infrastructure and Finance Workgroup Related Efforts and Resources

- **LFC Capital Outlay Subcommittee:** August: [2023 capital outlay initiatives](#), June: [Policy Options to Improve Project Successes](#)
- **Rural Economic Opportunities Task Force (REOTF):** Interested in proposals to address rural water infrastructure needs; [all 2022 meeting agendas and materials](#); [August 2022 Agenda](#)
- **NM Public Regulation Commission:** Coordinating with NMED on new approaches to address small system issues for systems organized under Public Utility Act
- **Senator Peter Wirth and Representative Susan Herrera:** Regionalization bill (working with RCAC)
- **Water Finance Exchange:** Private non-profit providing financing and technical assistance to water and wastewater systems; interested in partnering with SWEFC to host a workshop in NM focused on water infrastructure funding and capacity needs
- **Department of Finance and Administration (DFA) – Board of Finance:** [Limited funding available for emergencies](#)
- **Legislative Finance Committee Evaluation Staff:** [State-Funded Water Projects evaluation \(June 2021\)](#)
- **Economic Development Department Statewide Strategic Plan:** Recommendation to “Establish a competitive fund for regional, local, tribal, and nonprofit organizations to provide the matching funds required by EDA, USDA, and other similar grants.”

- Southwest Environmental Finance Center: [Report: Infrastructure Funding for Community Water Systems in New Mexico, Including Tribal Community Systems](#)
- Rural Communities Assistance Partnership: [Multiple reports, guides and resources on small dw/ww system issues and regionalization.](#)
- Pivot NM (for REOTF): [Rural Infrastructure Needs Study](#) (Dec. 2021)
- [Water Trust Board process and policy revisions](#): Recent changes to address increased funding and common barriers include incentivizing consolidation, emphasizing planning and asset management, increasing opportunities for small systems and reducing match requirements in certain circumstances.
- [Leap Ahead Report and 50 Year Water Plan](#)
- Aspen Institute and Nicholas Institute for Environmental Policy Solutions: [Toward a National Water Affordability Strategy: Report from the Aspen-Nicholas Roundtable Series on Water Affordability](#) (See Action 5: Invest in Managing and reducing Costs of Water Services While Ensuring Quality)
- [FUNDIT: Presentation at 8/23/22 REOTF](#)
- [EPA and USDA Closing the Wastewater Access Gap Initiative](#): Targeted and sustained technical assistance for unsewered or undersewered communities; Chapparal in Dona Ana County and Kewa Pueblo are two of 11 communities in the U.S. in the first phase of the program
- EPA Enforcement and Compliance History Online: [Compliance data](#) on public water systems and wastewater treatment plants in New Mexico
- NM Environment Department (NMED): [Drinking Water Watch](#) for information about public water systems
- [NM Water Data Initiative](#)
- [Utility Operator Certification Program, NMED](#): Certification exams and training/support for certified water and wastewater operators in NM
- [EPA Water Sector Workforce Initiative](#)
- [EPA Water Infrastructure Workforce Development Program](#)

# PRESENTER BIOS AND CONTACT INFORMATION



## **DOUG BLAND**

**Event lead, NM Bureau of Geology and Mineral Resources**  
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Doug Bland has worked for the New Mexico Bureau Of Geology and Mineral Resources from 2004 through 2015 and again in 2022 on educational programs and conferences on natural resource topics, including decision-makers field conferences. He served as director of the Mining and Minerals Division of the New Mexico Energy, Minerals and Natural Resources Department from 1998 through 2002, where he was responsible for overseeing environmental protection and permitting of mine sites. He also held various technical and managerial positions in the Mining and Minerals Division between 1989 and 1998. In addition, his experience includes 12 years in the mining and petroleum industries. He holds B.S. and M.S. degrees in geology from Virginia Tech and the University of Wyoming.



## **DANIEL CADOL**

**Associate Professor, Earth and Environmental Sciences, New Mexico Tech**  
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Daniel Cadol – Dan is an Associate Professor of Hydrology at New Mexico Tech, having joined the faculty in 2012. His doctoral training was in geomorphology (Colorado State University, 2010). Dan's research in New Mexico has taken three main directions: one working to better understand sediment transport and groundwater recharge during flash floods in ephemeral channels (with the Bureau of Reclamation, NMBGMR, and USACE), another looking at the hydrologic and geomorphic effects of wildfires (working with the City of Santa Fe, Valles Caldera NP, and NM EPSCoR), and another using remote sensing products and methods to develop a soil moisture balance model covering New Mexico in order to estimate groundwater recharge (with NM WRRI and NMBGMR). He is currently advising 3 MS and 2 PhD students.





**JASON CASUGA**

**Chief Engineer/CEO, Middle Rio Grande Conservancy District (MRGCD)**

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Jason M. Casuga is the Chief Engineer/CEO for the Middle Rio Grande Conservancy District (MRGCD), located in Albuquerque, New Mexico. As a professional engineer with over 16 years of experience in water resources that spans both the private and public sectors, Jason has spent the last 12 years working within the Middle Rio Grande Valley. Prior to being appointed as the Chief Engineer/CEO in February 2022, Jason was MRGCD's Chief Operations Officer (COO), responsible for the agency's technical services and field maintenance divisions.

Before joining MRGCD in June 2016, Jason was a River Maintenance Engineer and Project Manager at the Bureau of Reclamation (BOR). In his role at the BOR, Jason was responsible for managing river maintenance and habitat restoration projects along the Rio Grande from Velarde, New Mexico, to Elephant Butte Reservoir. Jason was raised in Dexter, New Mexico, and has an undergraduate degree in Civil Engineering from New Mexico State University.



**BILL CONNER**

**Executive Director, NM Rural Water Association**

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**CAROLYN DONNELLY**

**Albuquerque Water Operations Supervisor, Bureau Of Reclamation**

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Carolyn Donnelly is a supervisory civil engineer, hydraulic/hydrologic, for the Bureau of Reclamation in Albuquerque, New Mexico. She is a native New Mexican who holds Bachelor and Master degrees in Civil Engineering from the University of New Mexico. She began her engineering career as a consulting engineer, performing a variety of hydrologic and hydraulic studies. In her current position at Reclamation, she is responsible for water operations on numerous Reclamation Projects: San Juan – Chama, Middle Rio Grande, Carlsbad, and Rio Grande Project. She is an expert in the complicated and intricate operations that allow Project operations to remain in compliance with legal and environmental constraints. She is a licensed professional engineer in the State of New Mexico.



**ANDREW ERDMANN**

**Water Planning Program Manager, NM Interstate Stream Commission**

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**JENNIFER FALER**

**Albuquerque Area Office Manager, Bureau of Reclamation**

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**MIKE HAMMAN**

**NM State Engineer, NM Office of the State Engineer**

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Mike Hamman served as the Governor's state water advisor prior to becoming appointed as the New Mexico State Engineer. Hamman served as the chief engineer and chief executive officer for the Middle Rio Grande Conservancy District, overseeing river flood control, drainage and irrigation that includes managing 30,000 acres of bosque lands and coordinating with multiple jurisdictions at the local, state and tribal levels to deliver water to 60,000 acres of irrigated farmlands. Prior to that, he worked for 17 years at the U.S. Bureau of Reclamation, ending his tenure there managing multiple federal water projects from the San Luis Valley in Colorado to Fort Quitman in Texas. He also worked for the Interstate Stream Commission, the City of Santa Fe and the Jicarilla Apache Nation, where he was instrumental in the development of the Nation's \$45 million water and wastewater treatment and delivery systems project. Hamman has served on the Interstate Stream Commission since 2019. He was raised in Taos, NM and is a registered professional engineer with a civil engineering degree from the University of New Mexico.



**DAGMAR LLEWELLYN**

**Planning Group Supervisor, Water Mgmt Division, Bureau of Reclamation**  
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**ADRIAN OGLESBY**

**Director, Utton Transboundary Resources Center**  
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Adrian Oglesby began his tenure as the Director of Utton Center in 2014. He is a graduate of the University of New Mexico School of Law and has practiced water law since 2000, including working with the Utton Center on many projects. Adrian's legal career has been focused on river and riparian restoration, agricultural preservation, efficient water management, governmental accountability, and fish and wildlife conservation. He has advised irrigation districts, acequias, Pueblo and tribal governments, farmers, environmental organizations, and local water providers. He established and managed the New Mexico Living Rivers Program for The Nature Conservancy and served as a Special Assistant Attorney General for the New Mexico Interstate Stream Commission. He is currently the Chair of the Bosque Ecosystem Monitoring Program. He is a past Vice Chair of the Middle Rio Grande Conservancy District, past Chair of the Natural Resources, Energy and Environmental Law section of the New Mexico State Bar, and past President of the New Mexico Riparian Council.



**RAMON LUCERO**

**Regional Field Manager for the Rural Community Assistance Corporation**  
**505-819-7342**

Ramón Lucero is the proud father of two sons and five grandchildren. Ramón's origins are from a small community by the name of San Ysidro Sur along the Pecos River in San Miguel County. Ramón volunteered for the mutual domestic water consumer's association as a certified water operator and board member and later for a regional water utility by the name of El Valle Water Alliance for a total of 25-years. During this same time, Ramón worked as a Project Manager for an engineering firm where he supported community water systems for 20-years. Currently, Ramón is a Regional Field Manager for the Rural Community Assistance Corporation (RCAC) where he continues to support community water systems.



### **PAGE PEGRAM**

**Rio Grande Bureau Chief, NM Interstate Stream Commission**

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Page Pegram is a hydrogeologist with 25 years experience in groundwater and surface water management in both the private sector and state government. She is currently the Rio Grande Basin Manager for the New Mexico Interstate Stream Commission and coordinates all aspects of Rio Grande Compact and Endangered Species Act compliance in the Rio Grande basin for the state of New Mexico. She is also New Mexico's Engineer Adviser for the Rio Grande Compact. She has a BS in Geology from Brown University and an MS in Hydrology from New Mexico Tech.



### **FRED PHILLIPS**

**Emeritus Professor of Hydrology, NM Institute of Mining & Technology**

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### **ROB PINE**

**Water Specialist, New Mexico Bureau of Geology & Mineral Resources**

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Rob Pine earned an MS in Mathematics from the University of Utah and an MS in Hydrology from New Mexico Tech. He then went to work for the State of New Mexico for 28 years in a variety of jobs. He worked for NMED for 14 years doing groundwater permitting, investigating groundwater contamination and working with drinking water systems to improve their managerial and operational capacity. Rob worked for EMNRD for 6 years on mining reclamation and designed OCD's online permitting system. Then he worked with the Office of the State Engineer for 8 years managing their adjudication database and in the Hydrology Bureau doing water right impact analysis and expert testimony. He is currently working on a project for the Bureau of Geology with Stacy Timmons designing a statewide groundwater monitoring system with funding from the Thornburg Foundation. He is also managing OSE's adjudication database and assisting the Environmental Defense Fund with groundwater management issues in New Mexico.





**CECILIA ROSACKER**

**Executive Director, Rio Grande Agricultural Land Trust**

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Cecilia Rosacker is the Director of the Rio Grande Agricultural Land Trust (RGALT, [www.rgalt.org](http://www.rgalt.org)) since 2007. RGALT was founded at Cecilia's kitchen table by fellow farmers, ecologists, and conservationists all interested in protecting the Rio Grande and its floodplain – the farms and riparian lands.

She has been a leader in the middle Rio Grande landscape conservation initiative to protect agricultural land, wildlife habitat and water. This leadership role requires developing partnerships and implementing collaborative efforts to access federal and state funding for conservation easements and habitat/restoration projects. RGALT serves a culturally diverse and primarily historically underserved landowners, where access to funding for land and water conservation is essential.

In addition, Cecilia has been a leader in creating agricultural markets for farmers. She started the Socorro Farmer's Market, and for 10 years she served on NM Farmer's Market board, helping to start markets all over the state. She also served on NM Food & Agricultural Council for five years, working to create agriculture markets and a healthier New Mexico.

Cecilia owns and operates a 30-acre certified organic farm in Polvadera, NM (north of Socorro) established in 1997. Cecilia's Organics provides vegetables, flowers and beef to a number of Albuquerque's fine restaurants, grocery stores in Albuquerque, as well as Grower's Markets in Albuquerque.

As a landowner and a farmer, she is able to bring the landowners' perspective to her work in protecting private lands.

**KENNETH RICHARD**

**Project Manager, United States Bureau of Reclamation**

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**HANNAH RISELEY-WHITE**

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### **REBECCA ROOSE**

**Deputy Cabinet Secretary of Administration, NM Environment Department**

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As Deputy Cabinet Secretary of Administration at the New Mexico Environment Department, Rebecca Roose guides key policy and regulatory priorities, including state and federal public health and environmental initiatives, and coordinates the Department's activities related to infrastructure investments. Previously, Ms. Roose served as the Department's Water Protection Division Director from 2019 through May 2021, where she led surface and groundwater quality, drinking water protection, and wastewater infrastructure finance programs for the State. Prior to joining NMED, Ms. Roose worked for the U.S. Environmental Protection Agency for over 13 years. At EPA Headquarters, Ms. Roose devoted 11 years to supporting EPA, states, and Tribes with implementation of the Clean Water Act and other federal programs. During her last two years at EPA, she served as Senior Advisor for Tribal Capacity Development in the American Indian Environmental Office. Ms. Roose earned her law degree and natural resources law certificate from the University of New Mexico and her bachelor's degree in Geography from Valparaiso University.

### **MARQUITA RUSSEL**

**Chief Executive Officer, NM Finance Authority**

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### **STEPHANIE RUSSO BACA**

**Staff Attorney, Ombudsman, Utton Transboundary Resources Center**

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Stephanie Russo Baca is currently the staff attorney and Ombudsman Program Director at the Utton Transboundary Resources Center located at the University of New Mexico (UNM) in Albuquerque, New Mexico. In both roles that Russo Baca fulfills, her mission is to support and represent constituents in a fair and unbiased manner. As the Ombudsman Program Director, Stephanie guides the activities of the Joe M. Stell Ombudsman Program, which is a statewide program that provides impartial adjudication information and procedural guidance to unrepresented water right claimants in the State of New Mexico. Stephanie contributes significantly to the Utton Center's overall mission of providing objective research-based public service to New Mexico's communities on issues related to energy, climate change, ecological conservation, food systems, and international natural resource management. She holds both the Indian Law and Natural Resources and Environmental Law Certificates from UNM School of Law.



### **ROLF SCHMIDT-PETERSON**

**Director, NM Interstate Stream Commission**

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Rolf Schmidt-Petersen is the Director of the New Mexico Interstate Stream Commission (NMISC); New Mexico's interstate water compact, water planning, investigation, and development agency. He also serves as New Mexico's Canadian River Compact Commissioner, an alternate Colorado River Compact Principal, alternate Upper Colorado Compact Commissioner, and on the Colorado River Salinity Control Forum. He has over thirty years of experience working on water resource management, interstate compact, endangered species, environmental, and hydrology related issues in New Mexico and the southwestern United States as the NMISC's Colorado River Basin Bureau Chief, Rio Grande Basin Bureau Chief, and as a hydrologic consultant.



### **PHOEBE SUINA**

**Founder and owner of High Water Mark, LLC**

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With a background in environmental engineering and management, Ms. Suina has managed multi-million-dollar emergency and disaster assistance projects for the Federal Emergency Management Agency (FEMA), in addition to her previous career at the US Department of Energy (DOE) and Los Alamos National Laboratory (LANL) for post-Cerro Grande fire erosion, sediment control, debris flow and flood hazard mitigation. She also has led environmental compliance and environmental remediation efforts for over 10 years on DOE and LANL projects. Ms. Suina has also worked for the U.S. Bureau of Reclamation, where she completed water resources engineering project design, operation and maintenance on the nation's rivers and waterways.

Ms. Suina currently manages emergency and disaster assistance projects for High Water Mark's clients. This involves meetings with client and funding agency staff, documentation of all project activities, expenditures and records management, and project closeout. She is meticulous in her record keeping and takes pride in her attention to detail.

Ms. Suina earned bachelor degrees in environmental engineering and engineering sciences and a graduate degree in engineering management, all from the Thayer School of Engineering at Dartmouth College. Phoebe is from the Pueblos of San Felipe and Cochiti. She is very active in the traditional culture of her respective Pueblos. She continues to assist and share her knowledge and skills with the Pueblo communities.



### **PAUL TASHJIAN**

**Director of Freshwater Conservation, Audubon Southwest**

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Paul Tashjian joined Audubon Southwest in March of 2018 to establish a comprehensive water and restoration program for the Rio Grande in New Mexico. His expertise includes water management and water protection for wildlife, river restoration, water law, and wetland workshop coordination. Paul has expanded Audubon's role in the Rio Grande through building capacity through federal and state grants, representation on federal water teams, and coordination with many partners from irrigation districts to other non-profit environmental organizations. His work developing water market strategies for environmental flows in the Rio Grande has expanded New Mexico's ability to protect our rivers and wetlands.

Prior to joining Audubon, Paul spent 26 years working as a regional hydrologist for the US Fish and Wildlife Service in the Southwestern United States. He coordinated the quantification and protection of water rights on National Wildlife Refuge with Department of Interior solicitors and federal and state water management agencies, conducted numerous studies and workshops to improve wetland management on Refuges, and implemented river restoration projects throughout the southwestern United States.

Paul enjoys fishing, photography and family. He also is quite fond of burritos.



### **BRUCE THOMSON**

**Professor Emeritus, Civil Engineering, University of New Mexico**

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Bruce Thomson, Ph.D., P.E. is Research Professor and Professor Emeritus in the Department of Civil, Construction and Environmental Engineering at the University of New Mexico. He was Director of UNM's Water Resources Program from 2006 to 2013. He has a B.S. degree in Civil Engineering from the University of California at Davis, and M.S. and Ph.D. degrees in Environmental Science and Engineering from Rice University, Houston, TX. Dr. Thomson's research has focused on the chemistry and treatment of metals and metalloids in water, water resources of the southwestern US, and the relationship between energy development and water. He has published over 70 journal articles, several book chapters and papers in over 150 conference proceedings. Dr. Thomson has served on many federal, state and local committees involved with management and protection of water resources. He is an elected member and current Vice Chair of the Board of Directors of the Albuquerque Metropolitan Arroyo Flood Control Authority (AMAFCA). Dr. Thomson is a licensed Professional Engineer in the State of New Mexico and is among the last practicing engineers in the state who knows how to use a slide rule.





## **STACY TIMMONS**

**Associate Director for Hydrogeology, NM Bureau of Geology & Mineral Resources**  
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Stacy Timmons is an Associate Director of Hydrogeology programs at the state geologic survey – the New Mexico Bureau of Geology and Mineral Resources, in Socorro, NM, at New Mexico Institute of Mining and Technology. Stacy has a passion for developing an understanding of regional-scale hydrogeology, especially supporting important societal issues and decision-making. Helping people understand their own water resources, especially groundwater, has been at the center of her work since she completed her education in geology (MS from Oregon State University in 2002, and BS from University of Cincinnati in 1999).

As a hydrogeologist working with the NM Bureau of Geology since 2004, Stacy has worked around the state on hydrologic and geologic research topics, in aquifer regions with a range of complexity. Her work involves collecting and managing data including water quality and quantity data, mapping aquifers, and helping to build an understanding of the state's bedrock, alluvial and volcanic aquifers, and their relationship with groundwater recharge and surface water. Starting in 2019, Stacy also began leading the implementation of the Water Data Act, a statute that works to improve management, sharing and integration of the state's water data from multiple agencies and organizations. Stacy also serves as the vice-chair for the New Mexico Interstate Stream Commission.