



City of Rio Communities Council Workshop
City Council Chambers - 360 Rio Communities Blvd
Rio Communities, NM 87002
Monday, November 14, 2022 3:00 PM
Agenda

Please silence all electronic devices.

Call to Order
Attendees

Discussion/Agenda Items

1. **Accounts payable report** (Finance Department)
2. **Purchase of Executime Time & Attendance and Work Order modules for Incode** (Finance Officer/Manager)
3. **Police Office Remodel Change Order** (Manager/Finance Officer)
4. **Purchase of Backhoe and Skid Steer** (Manager/Finance Officer)
5. **Purchase of a Flat Bed Trailer** (Manager/Finance Officer)
6. **Re-Obligate Public Works - Bill Brown Fund** (Manager/Finance Officer)
7. **Safety Street Light Plan** (Manager/Council)
8. **Resolution 2022 - XX Dangerous property - 101 Rio Communities Blvd (property)** (Manager/Council)
9. **Consideration of Canceling the 11/28/2022 Workshop and Council Meeting** (Council)
10. **Personnel - Buy Back Vacation Leave** (Manager/Finance Officer/Council)

Public Comment: The Council will take public comments in written format. These should be emailed to admin@riocommunities.net through 2:00 PM on Monday November 14, 2022. These comments will be distributed to all Councilors for review. ***If you wish to speak during the public comment session***, the Council will allow each member of the public to three (3) minutes to address the Council. Both the public and Council will follow rules of decorum. Give your name and where you live. The public will direct comments to the City Council. Comment(s) will not be disruptive or derogatory.

The Council will not take action or engage in discussion regarding the comments made or received, but when appropriate the matters raised may be referred to staff or others for further review. Both the public and Council will follow rules of decorum. Derogatory Comments or matters under litigation will not be allowed and any person or persons addressing the Council are liable for their own statements, not the Council. Statements are limited to a maximum of 3 minutes duration. Please give your name and where you live for the record.

Manager Report

- a) Public Works Improvements**
- b) Comcast Franchise agreement**

Council General Discussion & Future Agenda Items

Adjourn

Thank you - Joshua Ramsell - Mayor of Rio Communities

Council may be attending the VALEO Meeting hosted by Valencia County held at the Los Lunas Transportation Center 101 Courthouse Rd. Los Lunas, NM on Tuesday November 15 starting at 6:00 pm and the Economic Development Task Force Meeting held in Rio Communities City Hall 360 Rio Communities Blvd, Rio Communities NM on Wednesday November 16 starting at 6:00 pm, a possible quorum may be in attendance.

Please join us from the comfort and safety of your own home by entering the following link: @ <https://www.facebook.com/riocommunities>

NOTE: THIS AGENDA IS SUBJECT TO REVISION UP TO 72 HOURS PRIOR TO THE SCHEDULED MEETING DATE AND TIME (NMSA 10-15-1 F). A COPY OF THE AGENDA MAY BE PICKED UP AT CITY HALL, 360 RIO COMMUNITIES BLVD, RIO COMMUNITIES, NM 87002. 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 AND OR SERVICE TO ATTEND OR PARTICIPATE IN THE MEETING, PLEASE CONTACT THE MUNICIPAL CLERK AT 505-861-6803 AT LEAST ONE WEEK PRIOR TO THE MEETING OR AS SOON AS POSSIBLE.



Rio Communities, NM

Accounts Payable Approval Report

By Fund

Item 1.

Vendor Name	Payable Number	Post Date	Description (Item)	Amount
Fund: 11000 - General Operating Fund				
Department: 0001 - No Department				
GSD - Administrative Services D...	INV0003653	10/14/2022	DENTAL	402.35
GSD - Administrative Services D...	INV0003654	10/14/2022	DISABILITY	34.58
Globe Life & Accident Insurance...	INV0003655	10/14/2022	GLOBE LIFE INSURANCE	56.00
GSD - Administrative Services D...	INV0003656	10/14/2022	HEALTH	5,883.36
GSD - Administrative Services D...	INV0003657	10/14/2022	VISION	66.80
GSD - Administrative Services D...	INV0003671	10/28/2022	ADMIN FEE	15.07
GSD - Administrative Services D...	INV0003672	10/28/2022	DENTAL	402.35
GSD - Administrative Services D...	INV0003673	10/28/2022	DISABILITY	34.58
Globe Life & Accident Insurance...	INV0003674	10/28/2022	GLOBE LIFE INSURANCE	56.00
GSD - Administrative Services D...	INV0003675	10/28/2022	HEALTH	5,883.36
GSD - Administrative Services D...	INV0003676	10/28/2022	BASIC LIFE	53.04
GSD - Administrative Services D...	INV0003677	10/28/2022	VISION	66.80
Department 0001 - No Department Total:				12,954.29
Department: 1001 - Governing Body				
NM Self Insurers' Fund	INV0003733	11/09/2022	Public Officials/Errors & Omissi...	2,100.00
Bank of America, N.A.	INV0003727	11/15/2022	Binders/Dividers-Council Retreat	54.09
Department 1001 - Governing Body Total:				2,154.09
Department: 2001 - Manager				
WEX Bank	84868296	11/02/2022	CM Fuel	57.53
Verizon Wireless	9918642001	11/02/2022	CM Telecommunications	143.13
NM Self Insurers' Fund	INV0003733	11/09/2022	Workmen's Comp	358.50
NM Self Insurers' Fund	INV0003733	11/09/2022	Automobile Insurance	291.22
Department 2001 - Manager Total:				850.38
Department: 2002 - General Administration				
Woodlands Hardware	009537/1	11/01/2022	CH Supplies	90.08
Able & Willies One Stop Shop, L...	1306	11/01/2022	reconingation plaque	44.00
Wells Fargo Financial Leasing	5022249528	11/01/2022	CH Copier Lease	138.08
Shred-it US JV LLC	8002614922	11/01/2022	Document Shredding	120.20
H&E Equipment	96877047	11/01/2022	Equipment Rental	3,755.26
Assaiga : LLC	65875	11/02/2022	Asbestos Testing - Police Depar...	382.81
Home Depot	20489	11/03/2022	Blanket PO for materials maint...	127.44
Home Depot	2970767	11/03/2022	CH Supplies	429.32
Home Depot	3012953	11/03/2022	CH Supplies	45.43
Home Depot	4010896	11/03/2022	Blanket PO for materials maint...	90.21
Home Depot	4013812	11/03/2022	CH Supplies	128.32
Home Depot	5010858	11/03/2022	Blanket PO for materials maint...	120.55
Home Depot	5017545	11/03/2022	CH Supplies	51.83
Home Depot	5970198	11/03/2022	CH Supplies	214.00
Home Depot	5975007	11/03/2022	CH Supplies	120.83
Home Depot	6974538	11/03/2022	CH Supplies	4.98
Home Depot	7012583	11/03/2022	CH Supplies	27.98
Home Depot	7970650	11/03/2022	CH Supplies	151.08
Sharp Electronics Corporation	9004034376	11/03/2022	Voice Over IP System	515.05
Albuquerque Publishing Co.	10001555095-0928	11/07/2022	Ad for a Police Chief in various ...	1,334.05
Woodlands Hardware	009641/1	11/08/2022	Blanket PO Materials maintena...	29.33
Sharp Electronics Corporation	9004053560	11/08/2022	CH Copies	62.94
NM Local Government Law	788	11/09/2022	Legal Services - FY 2022-2023	485.44
Sharp Electronics Corporation	9004053563	11/09/2022	CH Copies	201.02
Pitney Bowes	INV0003723	11/09/2022	CH Postage	301.50
NM Self Insurers' Fund	INV0003733	11/09/2022	Property Insurance	8,088.12
NM Self Insurers' Fund	INV0003733	11/09/2022	General Liability	1,588.00

Accounts Payable Approval Report

Item 1.

Vendor Name	Payable Number	Post Date	Description (Item)	Amount
NM Gas Co	INV0003688	11/15/2022	Natural Gas	325.22
Bank of America, N.A.	INV0003725	11/15/2022	8 keys made for various doors in..	23.50
Bank of America, N.A.	INV0003726	11/15/2022	Kitchen/Pantry Supplies-water	47.12
Comcast Business	INV0003690	11/18/2022	CH Telecommunications	492.17
NM Water Service Company	INV0003692	11/18/2022	CH Water	343.69
Pitney Bowes	3316540898	12/05/2022	Postage Machine Lease	175.68
Department 2002 - General Administration Total:				20,055.23
Department: 2004 - Finance/Budget/Accounting				
NM Municipal League	16764	11/02/2022	NM Infrastructure Finance Conf...	205.00
Verizon Wireless	9918642001	11/02/2022	Finance Telecommunications	80.06
Angela Valadez	INV0003704	11/03/2022	Travel / Infrustructure Conferen...	64.51
Amazon Business	1XRF-66X9-DCTD	11/07/2022	Finance Office Supplies	289.06
NM Self Insurers' Fund	INV0003733	11/09/2022	Workmen's Comp	358.50
Department 2004 - Finance/Budget/Accounting Total:				997.13
Department: 2008 - Municipal Clerk				
NM Self Insurers' Fund	INV0003733	11/09/2022	Workmen's Comp	358.50
Bank of America, N.A.	INV0003729	11/15/2022	embassy Suites for the NMML...	359.22
Department 2008 - Municipal Clerk Total:				717.72
Department: 2014 - Economic Development				
Griffin & Associates Marketing, ...	250	11/07/2022	Economic Development	1,164.37
UKUU Creative	333	11/07/2022	Website/Social Media Reference	161.25
Department 2014 - Economic Development Total:				1,325.62
Department: 3001 - Law Enforcement				
NM Self Insurers' Fund	INV0003733	11/09/2022	Automobile Insurance	291.22
Department 3001 - Law Enforcement Total:				291.22
Department: 3002 - Fire Protection				
WEX Bank	84868296	11/02/2022	CE Fuel	311.21
Verizon Wireless	9918642001	11/02/2022	CE Telecommunications	115.57
NM Self Insurers' Fund	INV0003733	11/09/2022	Workmen's Comp	358.50
Department 3002 - Fire Protection Total:				785.28
Department: 3004 - Animal Control				
Valencia County Fiscal Office	AC2023-16	11/09/2022	Animal Control	1,158.85
Department 3004 - Animal Control Total:				1,158.85
Department: 5101 - Public Works				
Napa Auto Parts	466931	11/01/2022	Auto Supplies	10.05
Napa Auto Parts	470726	11/01/2022	Auto Supplies	133.27
Woodlands Hardware	9542/1	11/01/2022	PW Supplies	18.14
WEX Bank	84868296	11/02/2022	PW Fuel	422.61
Verizon Wireless	9918642001	11/02/2022	PW Telecommunicationns	245.57
Woodlands Hardware	009523/1	11/03/2022	PW Supplies	7.95
Home Depot	1970539	11/03/2022	PW Supplies	279.00
Ranchero Builder Supply Co NSL	030988	11/08/2022	Blanket PO for pefabed gates a...	94.49
Iron Horse Welding LLC	127803	11/08/2022	Equipment repair	123.91
NM Self Insurers' Fund	INV0003733	11/09/2022	Workmen's Comp	358.50
NM Self Insurers' Fund	INV0003733	11/09/2022	Automobile Insurance	1,100.65
Bank of America, N.A.	INV0003724	11/15/2022	Materials and parts	430.95
Department 5101 - Public Works Total:				3,225.09
Department: 5104 - Highways and Streets				
Neds Pipe + Steel	429367	11/01/2022	Blanket PO install gates roadwa...	190.00
Neds Pipe + Steel	430451	11/01/2022	Blanket PO install gates roadwa...	28.26
J-H Supply Company	112913	11/02/2022	Road, stop, directional and Illeg...	732.00
PNM	INV0003699	11/02/2022	SL Electricity	100.44
PNM	INV0003702	11/17/2022	SL Electricity	47.62
PNM	INV0003703	11/17/2022	SL Electricity	64.40
PNM	INV0003696	11/18/2022	SL Electricity	131.95
PNM	INV0003697	11/18/2022	SL Electricity	193.63
PNM	INV0003698	11/18/2022	SL Electricity	466.35
PNM	INV0003700	11/18/2022	SL Electricity	39.88

Accounts Payable Approval Report

Item 1.

Vendor Name	Payable Number	Post Date	Description (Item)	Amount
PNM	INV0003701	11/18/2022	SL Electricity	99.08
Department 5104 - Highways and Streets Total:				2,093.61
Fund 11000 - General Operating Fund Total:				46,608.51

Fund: 20100 - Corrections

Department: 0001 - No Department

Administrative Office of the Cou... September 2022	11/02/2022	September 2022	18.00
New Mexico Judicial Education ... September 2022	11/02/2022	NM Judicial Fee-September 2022	9.00
Department 0001 - No Department Total:			27.00
Fund 20100 - Corrections Total:			27.00

Fund: 20900 - Fire Protection

Department: 3002 - Fire Protection

Amazon Business	1HLF-RRH3-KNXH	11/01/2022	Supplies for the Fire Dept	414.63
Code 3 Service	220719	11/01/2022	out fitting for pagers and radio ...	1,203.93
Linde Gas & Equipment Inc.	31943401	11/01/2022	Oxygen	84.90
Linde Gas & Equipment Inc.	32049558	11/01/2022	Oxygen	428.92
Dova Inc	4433	11/01/2022	FD Vehicle Detail	200.00
Dova Inc	4434	11/01/2022	FD Vehicle Detail	600.00
Napa Auto Parts	473353	11/01/2022	Auto Supplies for Fire Dept	8.99
Napa Auto Parts	473617	11/01/2022	Auto Supplies for Fire Dept	41.98
WEX Bank	84868296	11/02/2022	FD Fuel	1,445.78
Verizon Wireless	9918642001	11/02/2022	FD Telecommunications	154.39
Kendal Good	INV0003684	11/02/2022	Travel Reimbursement/ Grants	43.60
Kendal Good	INV0003685	11/02/2022	Travel Reimbursement/Kendal ...	23.60
Kaylee Dons	INV0003686	11/02/2022	Travel Reimbursement/Grants	23.60
Kaylee Dons	INV0003687	11/02/2022	Travel Reimbursement/Grants	43.60
Woodlands Hardware	009284/1	11/03/2022	FD Supplies	69.80
Craig Independent Tire Co.	119140	11/03/2022	Tires for Fire Trucks	213.13
Napa Auto Parts	473845	11/03/2022	Auto Supplies for Fire Dept	18.49
Sharp Electronics Corporation	9004033234	11/03/2022	Detect & Respond Server	60.00
Sharp Electronics Corporation	9004033234	11/03/2022	DMSD-BH Desktop Mgmt	225.00
Sharp Electronics Corporation	9004053561	11/08/2022	FD Copies	89.92
Sharp Electronics Corporation	9004053562	11/08/2022	DMSD-BH Desktop Mgmt	405.00
Sharp Electronics Corporation	9004053562	11/08/2022	1TB-AD Continuity247	279.00
Sharp Electronics Corporation	9004053562	11/08/2022	1TB-C1SER Continuity247	369.00
Sharp Electronics Corporation	9004053562	11/08/2022	SM-BNDLD Server Mngmt	125.00
Sharp Electronics Corporation	9004053562	11/08/2022	Detect Respond Workstation	108.00
Sharp Electronics Corporation	9004053562	11/08/2022	Detect & Respond Server	15.00
Ortega and Son's Propane Servi...	INV0003720	11/08/2022	Tank Rental Fee	60.00
Bank of America, N.A.	INV0003730	11/09/2022	Hotel Stay 9/30-10/2,10/7-10/9...	1,191.02
NM Self Insurers' Fund	INV0003733	11/09/2022	Automobile Insurance	3,842.70
NM Self Insurers' Fund	INV0003733	11/09/2022	Property Insurance	4,852.88
NM Self Insurers' Fund	INV0003733	11/09/2022	Volunteer Fire Coverage	3,300.00
NM Gas Co	INV0003689	11/15/2022	Natural Gas	56.14
Bank of America, N.A.	INV0003728	11/15/2022	Book for Jesse for officer 1	90.88
Bank of America, N.A.	INV0003731	11/15/2022	Jesse Tourne-Fire /Clovis/Holid...	774.48
NM Water Service Company	INV0003691	11/18/2022	FD Water	89.61
PNM	INV0003693	11/18/2022	FD Electricity	180.54
PNM	INV0003695	11/18/2022	FD Electricity	933.37
Department 3002 - Fire Protection Total:				22,066.88
Fund 20900 - Fire Protection Total:				22,066.88

Fund: 29700 - County EMS GRT

Department: 2002 - General Administration

Stericycle Inc.	3006225260	11/01/2022	Biohazard Waste Pickup	244.32
Boundtree Medical	84733899	11/01/2022	Medical Supplies	875.06
WEX Bank	84868296	11/02/2022	EMS Fuel	301.80
Verizon Wireless	9918642001	11/02/2022	EMS Telecommunications	249.39
Boundtree Medical	84749009	11/07/2022	Medical Supplies	147.60
NM Self Insurers' Fund	INV0003733	11/09/2022	Workmen's Comp	358.50

Accounts Payable Approval Report

Item 1.

Vendor Name	Payable Number	Post Date	Description (Item)	Amount
NM Self Insurers' Fund	INV0003733	11/09/2022	Automobile Insurance	946.21
Department 2002 - General Administration Total:				3,122.88
Fund 29700 - County EMS GRT Total:				3,122.88
Fund: 39900 - Other Capital Projects				
Department: 2002 - General Administration				
Larry Cearley	106	11/01/2022	Professional Services - Police D...	2,153.60
Bank of America, N.A.	INV0003732	11/09/2022	Security bullet resistance wind...	1,250.00
Department 2002 - General Administration Total:				3,403.60
Fund 39900 - Other Capital Projects Total:				3,403.60
Grand Total:				75,228.87

Report Summary

Fund Summary

Fund	Expense Amount
11000 - General Operating Fund	46,608.51
20100 - Corrections	27.00
20900 - Fire Protection	22,066.88
29700 - County EMS GRT	3,122.88
39900 - Other Capital Projects	3,403.60
Grand Total:	75,228.87

Account Summary

Account Number	Account Name	Expense Amount
11000-0001-22050	Healthcare Insurance Pay...	11,781.79
11000-0001-22055	Dental Insurance Payable	804.70
11000-0001-22060	Vision Insurance Payable	133.60
11000-0001-22070	Life Insurance Payable	53.04
11000-0001-22075	Disability Payable	69.16
11000-0001-22080	Miscellaneous Employee ...	112.00
11000-1001-56020	Supplies - General Office	54.09
11000-1001-57070	Insurance - General Liabili...	2,100.00
11000-2001-52120	Workers' Compensation (...)	358.50
11000-2001-56120	Supplies - Vehicle Fuel	57.53
11000-2001-57070	Insurance - General Liabili...	291.22
11000-2001-57160	Telecommunications	143.13
11000-2002-54010	Maintenance & Repairs - ...	1,541.30
11000-2002-54060	Maintenance Supplies	90.08
11000-2002-55020	Contract - Attorney Fees	485.44
11000-2002-55999	Contract - Other Services	503.01
11000-2002-56060	Supplies - Kitchen	47.12
11000-2002-56090	Supplies - Safety	23.50
11000-2002-56999	Supplies - Other	44.00
11000-2002-57070	Insurance - General Liabili...	9,676.12
11000-2002-57080	Postage	301.50
11000-2002-57090	Printing/Publishing/Advert..	1,598.01
11000-2002-57130	Rent of Equipment/Machi...	313.76
11000-2002-57160	Telecommunications	1,007.22
11000-2002-57171	Utilities - Natural Gas	325.22
11000-2002-57173	Utilities - Water	343.69
11000-2002-57998	City Wide Clean-Up	3,755.26
11000-2004-52120	Workers' Compensation (...)	358.50
11000-2004-53030	Travel - Employees	64.51
11000-2004-56020	Supplies - General Office	289.06
11000-2004-57050	Employee Training	205.00
11000-2004-57160	Telecommunications	80.06
11000-2008-52120	Workers' Compensation (...)	358.50
11000-2008-53030	Travel - Employees	359.22
11000-2014-55030	Contract - Professional Se...	1,164.37
11000-2014-55999	Contract - Other Services	161.25
11000-3001-57070	Insurance - General Liabili...	291.22
11000-3002-52120	Workers' Compensation (...)	358.50
11000-3002-56120	Supplies - Vehicle Fuel	311.21
11000-3002-57160	Telecommunications	115.57
11000-3004-55999	Contract - Other Services	1,158.85
11000-5101-52120	Workers' Compensation (...)	358.50
11000-5101-54040	Maintenance & Repairs - ...	143.32
11000-5101-54050	Maintenance & Repair - F...	649.35
11000-5101-56030	Supplies - Field Supplies	279.00
11000-5101-56120	Supplies - Vehicle Fuel	422.61
11000-5101-56999	Supplies - Other	26.09
11000-5101-57070	Insurance - General Liabili...	1,100.65

Account Summary

Account Number	Account Name	Expense Amount
11000-5101-57160	Telecommunications	245.57
11000-5104-54030	Maintenance & Repairs - ...	218.26
11000-5104-56090	Supplies - Safety	732.00
11000-5104-57170	Utilities - Electricity	1,143.35
20100-0001-21040	Admin Office of Courts Pa...	18.00
20100-0001-21045	Judicial Education Payable	9.00
20900-3002-53030	Travel - Employees	2,099.90
20900-3002-54040	Maintenance & Repairs - ...	1,082.59
20900-3002-54060	Maintenance Supplies	69.80
20900-3002-55030	Contract - Professional Se...	1,586.00
20900-3002-56020	Supplies - General Office	414.63
20900-3002-56030	Supplies - Field Supplies	1,717.75
20900-3002-56100	Supplies - Training	90.88
20900-3002-56120	Supplies - Vehicle Fuel	1,445.78
20900-3002-57070	Insurance - General Liabili...	11,995.58
20900-3002-57090	Printing/Publishing/Advert..	89.92
20900-3002-57130	Rent of Equipment/Machi...	60.00
20900-3002-57160	Telecommunications	154.39
20900-3002-57170	Utilities - Electricity	1,113.91
20900-3002-57171	Utilities - Natural Gas	56.14
20900-3002-57173	Utilities - Water	89.61
29700-2002-52120	Workers' Compensation (...)	358.50
29700-2002-55999	Contract - Other Services	244.32
29700-2002-56070	Supplies - Medical	1,022.66
29700-2002-56120	Supplies - Vehicle Fuel	301.80
29700-2002-57070	Insurance - General Liabili...	946.21
29700-2002-57160	Telecommunications	249.39
39900-2002-55030	Contract - Professional Se...	2,153.60
39900-2002-58010	Buildings & Structures	1,250.00
Grand Total:		75,228.87

Project Account Summary

Project Account Key	Expense Amount
None	75,228.87
Grand Total:	75,228.87

Authorization Signatures

MAYOR & COUNCILORS

JOSHUA RAMSELL, MAYOR

MARGARET "PEGGY" GUTJAHR, MAYOR PRO-TEM

LAWRENCE GORDON, COUNCILOR

ARTHUR APODACA, COUNCILOR

JIM WINTERS, COUNCILOR

ATTEST:

ELIZABETH "LISA" ADAIR, MUNICIPAL CLERK



CITY OF RIO COMMUNITIES

360 Rio Communities Blvd.
Rio Communities, NM 87002
505-861-6803
www.riocommunities.net

November 8, 2022

Dear Mayor & City Council,

We are respectfully requesting approval to purchase Time & Attendance module powered by Executime and Work Orders module from Tyler Technologies that would tie in with our current Incode software.

The Time & Attendance module powered by Executime would improve building and employee security as well as accountability to city management using a clock-in/clock-out method with geofencing.

The Workorder module would improve accountability to city management and the public.

Module	One-Time Cost (Software, Implementation & Training)	Recurring Cost (Annual Maintenance Fee)
Time & Attendance powered by Executime	\$16,848.00	\$1,558.00
Work Orders	\$9,269.00	\$2,299.00
Grand Totals	\$26,117.00	\$3,857.00

Thank you for your consideration.

Sincerely,

City Management

Time Clock Options & Pricing

Touch Screen Clocks 7"

- **No Reader** - Employees manually key in identification on keypad \$1,895.00
- **Barcode or Mag Reader** - Reads mag stripe or barcode badge \$2,195.00
- **Proximity Reader** - Reads proximity enabled badges/tags \$2,195.00
- **Biometric Reader** - Reads employees fingerprints \$2,395.00
- **Biometric w/ either Proximity, Mag or Barcode Reader** \$2,695.00



Touch Screen Clocks 10"

- **No Reader** - Employees manually key in identification on keypad \$2,210.00
- **Mag or Barcode Device** - Reads mag stripe or barcode badge \$2,510.00
- **Proximity Reader** - Reads proximity enabled badges/tags \$2,510.00
- **Biometric Reader** - Reads employees fingerprints \$2,710.00
- **Biometric w/ either Proximity, Mag or Barcode Reader** \$3,010.00

Clock Features

Functionality	Touchscreen 7"	Touch Screen 10"
Clock In /Out	Yes	Yes
Approve Time - Employee & Supervisor	Yes	Yes
View Accrual Balances	Yes	Yes
Keyboard (pin pad)	Yes	Yes
Request Time off	Yes	Yes
Edit Hours (Project codes, Positions, etc)	Yes	Yes
2 Factor Authentication	Yes	Yes
Check In	Yes	Yes
Technical	Touchscreen 7"	Touch Screen 10"
POE+ (powered through ethernet port)	Included	Included
POE Splitter	See above	See above
POE Injector	Optional - \$175	Optional - \$175
Battery Backup	Included	Included
Wireless	Included	Included
Communication	HTTPS	HTTPS
VPN Needed?	No, secure connection via wireless if needed.	No, secure connection via wireless if needed.
Environmental	Touchscreen 7"	Touch Screen 10"
NEMA Enclosure (Clock fits inside for high traffic areas or outside in the elements)	Optional - \$350	Optional - \$350

- All clocks will be under a standard maintenance plan which starts when the clocks are shipped. This includes replacement of your current clock if it cannot be fixed through the standard helpdesk process. A clock will be shipped out the same day if the order is placed before Noon Eastern standard time. Otherwise the clock will be shipped the following day.



Sales Quotation For:

City of Rio Communities
360 Rio Communities Blvd.
Rio Communities NM 87002

Quoted By:
Quote Expiration:
Quote Name:

Tanner Cate
05/02/23

Tyler Software

Description	License Total	Annual Maintenance
Tyler One		
Time & Attendance powered by ExecuTime	\$ 2,540	\$ 508
Time & Attendance Mobile Access License	\$ 5,250	\$ 1,050
Time & Attendance		
TOTAL:	\$ 7,790	\$ 1,558

Services

2022-370052-V6J8L9

Page 1 of 4

Description	Hours/Units	Extended Price	Maintenance
Time & Attendance powered by ExecuTime			
Professional Services	50	\$ 7,250	\$ 0
Other Services			
Project Management	1	\$ 250	\$ 0
TOTAL:		\$ 7,500	\$ 0

Summary	One Time Fees	Recurring Fees
Total Tyler Software	\$ 7,790	\$ 1,558
Total Tyler Services	\$ 7,500	
Summary Total	\$ 15,290	\$ 1,558
Contract Total	\$ 16,848	

Detailed Breakdown of Professional Services (Included in Summary Total)

Description	Hours	Extended Price	Maintenance
Tyler One			
Time & Attendance powered by ExecuTime			
Time & Attendance	50	\$ 7,250	\$ 0
Sub-Total	50	\$ 7,250	\$ 0
TOTAL:	50	\$ 7,250	\$ 0

Comments

- Work will be delivered remotely unless otherwise noted in this agreement.
 - Expenses associated with onsite services are invoiced as incurred according to Tyler's standard business travel policy.
- SaaS is considered a term of one year unless otherwise indicated.

Any acquisition of clocks and/or clock maintenance is subject to the following terms:

[Time & Attendance Clock Terms \(tylertech.com\)](#)

Client agrees that items in this sales quotation are, upon Client's signature or approval of same, hereby added to the existing agreement ("Agreement") between the parties and subject to its terms. Additionally, payment for said items, as applicable but subject to any listed assumptions herein, shall conform to the following terms, subject to payment terms in an agreement, amendment, or similar document in which this sales quotation is included:

- License fees for Tyler and third-party software are invoiced upon the earlier of (i) delivery of the license key or (ii) when Tyler makes such software available accessible.
- Fees for hardware are invoiced upon delivery.
- Fees for year one of hardware maintenance are invoiced upon delivery of the hardware.
- Annual Maintenance and Support fees, SaaS fees, Hosting fees, and Subscription fees are first payable when Tyler makes the software accessible to the Client (for Maintenance) or on the first day of the month following the date this quotation was signed (for SaaS, Hosting, and Subscription), and any such fees are prorated to align with the applicable term under the agreement, with renewals invoiced annually thereafter in accord with the Agreement.

2022-370052-V6J8L9

Page 3 of 4

- Fees for services included in this sales quotation shall be invoiced as indicated below.
 - o Implementation and other professional services fees shall be invoiced as delivered.
 - o Fixed-fee Business Process Consulting services shall be invoiced 50% upon delivery of the Best Practice Recommendations, by module, and 50% upon delivery of custom desktop procedures, by module.
 - o Fixed-fee conversions are invoiced 50% upon initial delivery of the converted data, by conversion option, and 50% upon Client acceptance to load the converted data into Live/Production environment, by conversion option. Where conversions are quoted as estimated, Tyler will invoice Client the actual services delivered on a time and materials basis.
 - o Except as otherwise provided, other fixed price services are invoiced upon complete delivery of the service. For the avoidance of doubt, where "Project Planning Services" are provided, payment shall be invoiced upon delivery of the Implementation Planning document. Dedicated Project Management services, if any, will be invoiced monthly in arrears, beginning on the first day of the month immediately following initiation of project planning.
 - o If Client has purchased any change management services, those services will be invoiced in accordance with the Agreement.
 - o Notwithstanding anything to the contrary stated above, the following payment terms shall apply to fees specifically for migrations: Tyler will invoice Client 50% of any Migration Services Fees listed above upon Client approval of the product suite migration schedule. The remaining 50%, by line item, will be billed upon the go-live of the applicable product suite. Tyler will invoice Client for any Project Management Fees listed above upon the go-live of the first product suite. Annual SaaS Fees will be invoiced upon availability of the hosted environment.
- Any SaaS or hosted solutions added to an agreement containing Client-hosted Tyler solutions are subject to Tyler's SaaS Services terms found here: <https://www.tyler-tech.com/terms/tyler-saas-services>.

Unless otherwise indicated in the contract or amendment thereto, pricing for optional items will be held For six (6) months from the Quote date or the Effective Date of the Contract, whichever is later.

Customer Approval: _____ Date: _____

Print Name: _____ P.O.#: _____



Sales Quotation For:

City of Rio Communities
360 Rio Communities Blvd.
Rio Communities NM 87002

Quoted By:
Quote Expiration:
Quote Name:

Tanner Cate
05/03/23

Tyler Annual Software – SaaS

Description	Annual
ERP Pro powered by Incode	
ERP Pro 10 Customer Relationship Management Suite	
Work Orders	\$ 2,299
TOTAL:	
	\$ 2,299

Services

2022-370338-T2G1R7

Page 1 of 4

Item 2.

Description	Hours/Units	Extended Price	Maintenance
ERP Pro 10 Customer Relationship Management Suite			
Professional Services	56	\$ 6,720	\$ 0
Other Services			
Project Management	1	\$ 250	\$ 0
TOTAL:		\$ 6,970	\$ 0

Summary	One Time Fees	Recurring Fees
Total SaaS		\$ 2,299
Total Tyler Services	\$ 6,970	
Summary Total	\$ 6,970	\$ 2,299
Contract Total	\$ 9,269	

Detailed Breakdown of Professional Services (Included in Summary Total)

Description	Hours	Extended Price	Maintenance
ERP Pro powered by Incode			
ERP Pro 10 Customer Relationship Management Suite			
Work Orders	56	\$ 6,720	\$ 0
	56	\$ 6,720	\$ 0
Sub-Total			
	56	\$ 6,720	\$ 0
TOTAL:		\$ 6,720	\$ 0

Comments

- Work will be delivered remotely unless otherwise noted in this agreement.
 - Expenses associated with onsite services are invoiced as incurred according to Tyler's standard business travel policy.
- SaaS is considered a term of one year unless otherwise indicated.

Client agrees that items in this sales quotation are, upon Client's signature or approval of same, hereby added to the existing agreement ("Agreement") between the parties and subject to its terms. Additionally, payment for said items, as applicable but subject to any listed assumptions herein, shall conform to the following terms, subject to payment terms in an agreement, amendment, or similar document in which this sales quotation is included:

- License fees for Tyler and third-party software are invoiced upon the earlier of (i) delivery of the license key or (ii) when Tyler makes such software available accessible.
- Fees for hardware are invoiced upon delivery.
- Fees for year one of hardware maintenance are invoiced upon delivery of the hardware.
- Annual Maintenance and Support fees, SaaS fees, Hosting fees, and Subscription fees are first payable when Tyler makes the software accessible to the Client (for Maintenance) or on the first day of the month following the date this quotation was signed (for SaaS, Hosting, and Subscription), and any such fees are prorated to align with the applicable term under the agreement, with renewals invoiced annually thereafter in accord with the Agreement.
- Fees for services included in this sales quotation shall be invoiced as indicated below.
 - o Implementation and other professional services fees shall be invoiced as delivered.

2022-370338-T2G1R7

Page 3 of 4

- o Fixed-fee Business Process Consulting services shall be invoiced 50% upon delivery of the Best Practice Recommendations, by module, and 50% upon delivery of custom desktop procedures, by module.
 - o Fixed-fee conversions are invoiced 50% upon initial delivery of the converted data, by conversion option, and 50% upon Client acceptance to load the converted data into Live/Production environment, by conversion option. Where conversions are quoted as estimated, Tyler will invoice Client the actual services delivered on a time and materials basis.
 - o Except as otherwise provided, other fixed price services are invoiced upon complete delivery of the service. For the avoidance of doubt, where "Project Planning Services" are provided, payment shall be invoiced upon delivery of the Implementation Planning document. Dedicated Project Management Services, if any, will be invoiced monthly in arrears, beginning on the first day of the month immediately following initiation of project planning.
 - o If Client has purchased any change management services, those services will be invoiced in accordance with the Agreement.
 - o Notwithstanding anything to the contrary stated above, the following payment terms shall apply to fees specifically for migrations: Tyler will invoice Client 50% of any Migration Services Fees listed above upon Client approval of the product suite migration schedule. The remaining 50%, by line item, will be billed upon the go-live of the applicable product suite. Tyler will invoice Client for any Project Management Fees listed above upon the go-live of the first product suite. Annual SaaS Fees will be invoiced upon availability of the hosted environment.
- Any SaaS or hosted solutions added to an agreement containing Client-hosted Tyler solutions are subject to Tyler's SaaS Services terms found here: <https://www.tylertech.com/terms/tyler-saas-services>.

Unless otherwise indicated in the contract or amendment thereto, pricing for optional items will be held For six (6) months from the Quote date or the Effective Date of the Contract, whichever is later.

Customer Approval: _____ Date: _____

Print Name: _____ P.O.#: _____

Construction Coordinators, Inc.

Commercial & Residential Construction
License #391201/ Bonded
PO Box 66316, Albuquerque, NM 87193-6316
Phone (505) 620-0641

Change Order #2

Date: 11/01/2022

Submitted To: Rio Communities

Job: Police office

We hereby submit specifications and estimates for: SEE BELOW

<u>DESCRIPTION</u>	<u>ITEM</u>	<u>TOTAL</u>
Delete bathroom framing, delete bathroom door, delete bathroom drywall inside and out side of bathroom wall, and delete paint.	No bathroom	(\$1,200.00)
SUBTOTAL		(\$1,200.00)
NEW TOTAL		\$24,440.00
SALES TAX		
TOTAL		

Please make checks payable to Construction Coordinators, Inc.

Authorized Signature: Frank Trujillo superintendent

All material is guaranteed to be as specified. All work to be completed in a timely manner according to standard practices. Any alteration or deviation of above specifications involving extra costs will be executed only upon written orders, and will become an extra charge over and above the estimate. All agreements are contingent upon strikes, accidents, or delays beyond our control. Owner must supply water and means to dispose debris. Owner is to carry fire, tornado, and other necessary insurance. Our workers are fully covered by Workers Compensation Insurance. Bids are subject to physical measurements

.Note: This proposal may be withdrawn by us if not accepted within 10 days

Acceptance of Change Order- The above prices, specifications, and conditions are satisfactory and are hereby accepted. We are authorized to do the work as specified. Payment will be made as outlined above.

Date of Acceptance: _____

Signature: _____

Construction Coordinators, Inc.

Commercial & Residential Construction
License #391201/ Bonded
PO Box 66316, Albuquerque, NM 87193-6316
Phone (505) 620-0641

Change Order #3

Date: 11/09/2022

Submitted To: Rio Communities

Job: Police office

We hereby submit specifications and estimates for: SEE BELOW

<u>DESCRIPTION</u>	<u>ITEM</u>	<u>TOTAL</u>
Demolition of subfloor, and walls in public works area including load in trash dumpster (does not include dumpster)	Labor and tools	\$4,156.00
SUBTOTAL		\$4156.00
NEW TOTAL		\$28,596.00
SALES TAX		
TOTAL		

Please make checks payable to Construction Coordinators, Inc.

Authorized Signature: Frank Trujillo superintendent

All material is guaranteed to be as specified. All work to be completed in a timely manner according to standard practices. Any alteration or deviation of above specifications involving extra costs will be executed only upon written orders, and will become an extra charge over and above the estimate. All agreements are contingent upon strikes, accidents, or delays beyond our control. Owner must supply water and means to dispose debris. Owner is to carry fire, tornado, and other necessary insurance. Our workers are fully covered by Workers Compensation Insurance. Bids are subject to physical measurements

.Note: This proposal may be withdrawn by us if not accepted within 10 days

Acceptance of Change Order- The above prices, specifications, and conditions are satisfactory and are hereby accepted. We are authorized to do the work as specified. Payment will be made as outlined above.

Date of Acceptance: _____

Signature: _____

Construction Coordinators, Inc.

Commercial & Residential Construction
License #391201/ Bonded
PO Box 66316, Albuquerque, NM 87193-6316
Phone (505) 620-0641

Change Order #4

Date: 11/09/2022

Submitted To: Rio Communities

Job: Police office

We hereby submit specifications and estimates for: SEE BELOW

DESCRIPTION	ITEM	TOTAL
Repair drywall in public works are after removal of wood sub floor	5/8 drywall material and texture prepared for paint	\$4224.00
SUBTOTAL		\$4224.00
NEW TOTAL		\$32,820.00
SALES TAX		
TOTAL		

Please make checks payable to Construction Coordinators, Inc.

Authorized Signature: Frank Trujillo superintendent

All material is guaranteed to be as specified. All work to be completed in a timely manner according to standard practices. Any alteration or deviation of above specifications involving extra costs will be executed only upon written orders, and will become an extra charge over and above the estimate. All agreements are contingent upon strikes, accidents, or delays beyond our control. Owner must supply water and means to dispose debris. Owner is to carry fire, tornado, and other necessary insurance. Our workers are fully covered by Workers Compensation Insurance. Bids are subject to physical measurements

.Note: This proposal may be withdrawn by us if not accepted within 10 days

Acceptance of Change Order- The above prices, specifications, and conditions are satisfactory and are hereby accepted. We are authorized to do the work as specified. Payment will be made as outlined above.

Date of Acceptance: _____

Signature: _____

Construction Coordinators, Inc.

Commercial & Residential Construction
License #391201/ Bonded
PO Box 66316, Albuquerque, NM 87193-6316
Phone (505) 620-0641

Change Order #5

Date: 11/09/2022

Submitted To: Rio Communities

Job: Police office

We hereby submit specifications and estimates for: SEE BELOW

<u>DESCRIPTION</u>	<u>ITEM</u>	<u>TOTAL</u>
Install door between PD offices and public works are	3' door stain grade and hardware	\$706.00
SUBTOTAL		\$706.00
NEW TOTAL		\$33,526.00
SALES TAX		
TOTAL		

Please make checks payable to Construction Coordinators, Inc.

Authorized Signature: Frank Trujillo superintendent

All material is guaranteed to be as specified. All work to be completed in a timely manner according to standard practices. Any alteration or deviation of above specifications involving extra costs will be executed only upon written orders, and will become an extra charge over and above the estimate. All agreements are contingent upon strikes, accidents, or delays beyond our control. Owner must supply water and means to dispose debris. Owner is to carry fire, tornado, and other necessary insurance. Our workers are fully covered by Workers Compensation Insurance. Bids are subject to physical measurements

.Note: This proposal may be withdrawn by us if not accepted within 10 days

Acceptance of Change Order- The above prices, specifications, and conditions are satisfactory and are hereby accepted. We are authorized to do the work as specified. Payment will be made as outlined above.

Date of Acceptance: _____

Signature: _____

Construction Coordinators, Inc.

Commercial & Residential Construction
 License #391201/ Bonded
 PO Box 66316, Albuquerque, NM 87193-6316
 Phone (505) 620-0641

Change Order #6

Date: 11/09/2022

Submitted To: Rio Communities

Job: Police office

We hereby submit specifications and estimates for: SEE BELOW

<u>DESCRIPTION</u>	<u>ITEM</u>	<u>TOTAL</u>
Paint walls inside of public works area	Paint labor and materials	\$1,476.00
SUBTOTAL		\$1,476.00
NEW TOTAL		\$35,002.00
SALES TAX		
TOTAL		

Please make checks payable to Construction Coordinators, Inc.

Authorized Signature: Frank Trujillo superintendent

All material is guaranteed to be as specified. All work to be completed in a timely manner according to standard practices. Any alteration or deviation of above specifications involving extra costs will be executed only upon written orders, and will become an extra charge over and above the estimate. All agreements are contingent upon strikes, accidents, or delays beyond our control. Owner must supply water and means to dispose debris. Owner is to carry fire, tornado, and other necessary insurance. Our workers are fully covered by Workers Compensation Insurance. Bids are subject to physical measurements

.Note: This proposal may be withdrawn by us if not accepted within 10 days

Acceptance of Change Order- The above prices, specifications, and conditions are satisfactory and are hereby accepted. We are authorized to do the work as specified. Payment will be made as outlined above.

Date of Acceptance: _____

Signature: _____

Construction Coordinators, Inc.

Commercial & Residential Construction
License #391201/ Bonded
PO Box 66316, Albuquerque, NM 87193-6316
Phone (505) 620-0641

Change Order #7

Date: 11/09/2022

Submitted To: Rio Communities

Job: Police office

We hereby submit specifications and estimates for: SEE BELOW

<u>DESCRIPTION</u>	<u>ITEM</u>	<u>TOTAL</u>
Trash dumpster for demolition of public works area	Trailer, dump haul, dump fee, and fuel	\$550.00
SUBTOTAL		\$550.00
NEW TOTAL		\$35,552.00
SALES TAX		
TOTAL		

Please make checks payable to Construction Coordinators, Inc.

Authorized Signature: Frank Trujillo superintendent

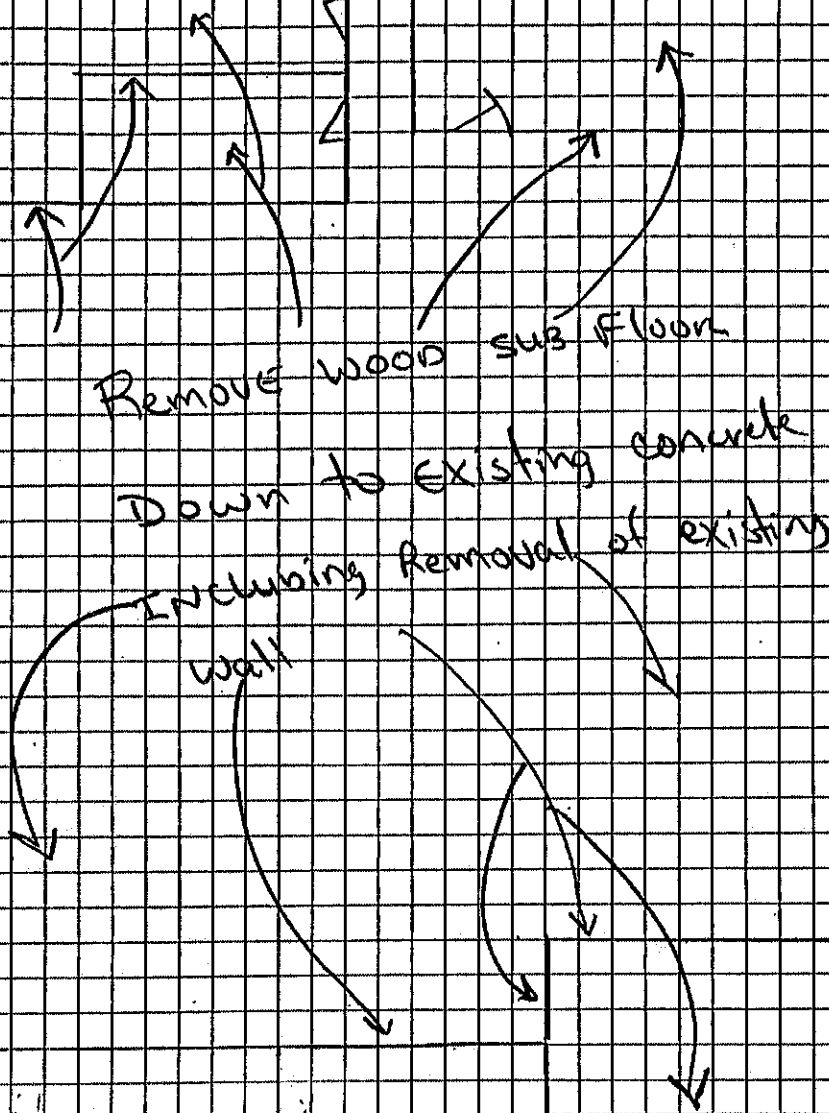
All material is guaranteed to be as specified. All work to be completed in a timely manner according to standard practices. Any alteration or deviation of above specifications involving extra costs will be executed only upon written orders, and will become an extra charge over and above the estimate. All agreements are contingent upon strikes, accidents, or delays beyond our control. Owner must supply water and means to dispose debris. Owner is to carry fire, tornado, and other necessary insurance. Our workers are fully covered by Workers Compensation Insurance. Bids are subject to physical measurements

.Note: This proposal may be withdrawn by us if not accepted within 10 days

Acceptance of Change Order- The above prices, specifications, and conditions are satisfactory and are hereby accepted. We are authorized to do the work as specified. Payment will be made as outlined above.

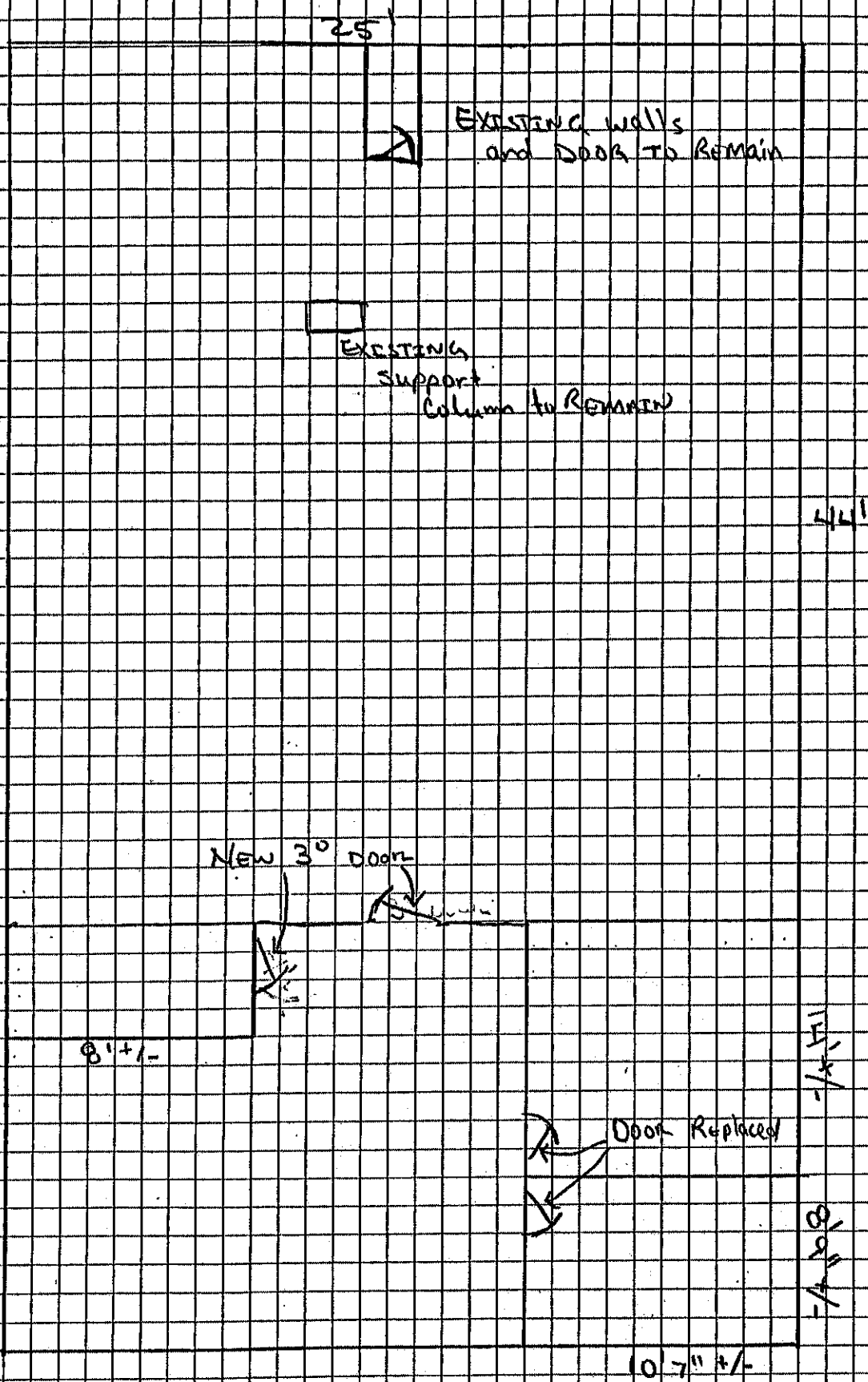
Date of Acceptance: _____

Signature: _____



DEMOLITION PLAN

NOT TO SCALE



Mateo Alberto
Quote 249635-0
Item 4.
A



Quote 249635-01

Oct 26, 2022

CITY OF RIO COMMUNITIES-RGEF
PO BOX 565
RIO COMMUNITIES, New Mexico 87002

Attention: Gordon Reeves

Dear Sir,

We would like to thank you for your interest in our company and our products, and are pleased to quote the following for your consideration.

Caterpillar Model: 440 Backhoe Loader

STOCK NUMBER: 494947

SERIAL NUMBER: 0MZ00400

YEAR: 2022

HOURS: 8

We appreciate the opportunity to extend this quote. Pricing is subject to change based on manufacturer changes to cost and availability. If there are any questions, please do not hesitate to contact me.

Regards,

Jacob Earnest

Sales Representative

Wagner Equipment Co.

Scan

Caterpillar Model: 440 Backhoe Loader**STANDARD EQUIPMENT**

CONSIST NOTE -THIS LISTING IS A GENERAL DESCRIPTION -OF A 440 BACKHOE LOADER EQUIPPED WITH -THE LOWEST CHARGE ITEMS. -

BOOMS, STICKS, AND LINKAGES -15' Center pivot excavator style -backhoe -Electrohydraulic operated hydraulic -controls with pattern changer valve

OTHER STANDARD EQUIPMENT -Backhoe Safety Manual -Operations and Maintenance Manual -Lockable hood -Tire Valve Stem Protection -Long Life Coolant -30C (-20F) -Counterweight 500kg/1102lbs -Padlocks Qty 2 -

POWERTRAIN -Differential lock -Spring Applied Hydraulic Release (SAHR) -brake -High Ambient Cooling Package -Torque converter -Autoshift transmission with 6 forward -and 3 reverse gears & neutral safety -switch -Spin-on fuel, engine oil & transmission -oil filters -Outboard planetary rear axles -Open Circuit Breather

HYDRAULICS -Load sensing, variable flow system -with 55 gpm axial piston pump -6 micron hydraulic filter -O-ring face seal hydraulic fittings -Caterpillar XT-3 hose -Hydraulic oil cooler -Pilot control shutoff switch -PPPC, Open Center with Flow Summation -Hydraulic suction strainer -

ELECTRICAL -12 volt electrical start -150 ampere alternator -Horn and Backup Alarm -Hazard flashers/turn signals -Halogen head lights (4) -Halogen rear flood lights (4) -Stop and tail lights -Audible system fault alarm

BOOMS, STICKS, AND LINKAGES -Electrohydraulic operated stabilizer -controls -Boom transport lock -Swing transport lock -Street pads stabilizer shoes -Anti-drift hydraulics -(Boom, Stick and E-Stick) -Cat Cushion Swing(tm) system -Bucket level indicator -Lift cylinder brace -Return-to-dig (auto bucket positioner) -Self-leveling loader with single lever -control -Transmission neutralizer switch -Single Tilt Loader -

POWERTRAIN -Cat C4.4, 86kW (Net 104HP/78kW) -Direct Injection Turbo Charged Engine, -with ACERT technology. -US EPA Tier4 Final Emissions Compliant -with Selective Catalytic Reduction(SCR) -Water separator with service indicator -Thermal starting aid system -Eco mode -A dry-type axial seal air cleaner with -Integral precleaner, automatic dust -ejection system & filter condition -indicator -Hydraulically boosted multi-plate wet -disk brake with dual pedals & interlock

ELECTRICAL -Key start/stop system -1,000 CCA maintenance free battery -Battery disconnect switch -External/Internal power receptacles(12v) -Diagnostic ports for engine and machine -Electronic Control Modules -Remote jump start connector -

OPERATOR ENVIRONMENT -Lighted gauge group -Interior rearview mirror -ROPS canopy, Rear Fenders -2-Inch retractable seat belt -Tilt steering column -Steering knob -Hand and foot throttle -Automatic Engine Speed Control -One Touch Low Idle -Floor mat and Coat Strap -Lockable storage area -Air suspension seat

OTHER STANDARD EQUIPMENT -Hydrostatic power steering -Standard Storage Box -Transport tie-downs -Ground line fill fuel tank with 44 -gallon capacity -Ground line fill diesel exhaust fluid -tank with 5 gallon capacity -Rubber impact strips on radiator guards -Bumper -CD-ROM Parts Manual

MACHINE SPECIFICATIONS

440 07B BACKHOE LOADER
ENGINE
STICK, STANDARD, 15FT
POWERTRAIN, 4WD, AUTOSHIFT
HYDRAULICS, QC, 6FCN/8BNK
PRODUCT LINK, CELLULAR PL641
COLD WEATHER PACKAGE, 120V HRC
CAB, DELUXE
SEAT, DELUXE FABRIC
WORKLIGHTS (8) HALOGEN LAMPS
BELT, SEAT, 2" SUSPENSION
TIRES, 340 80-18/500 70-24, MX
STABILIZER PADS, FLIP-OVER
BUCKET-GP, 1.75 YD3, IT, BOCE
BUCKET-ROCK, HD, 24", 7.0 FT3
COUPLER, PG, MAN.D.LOCK, BHL
INSTRUCTIONS, ANSI
SERIALIZED TECHNICAL MEDIA KIT
RIDE CONTROL
COMBO, AUX READY, NO LINES
STANDARD RADIO (12V)
FAN
GUARD, STABILIZER
CARRIAGE, PAL CL3, 61", IT
FORK TINE, 2" X 5" X 54"
PACK, DOMESTIC TRUCK
RUST PREVENTATIVE APPLICATOR
SHIPPING/STORAGE PROTECTION
NETWORK MANAGER
FEDERAL LIGHT BAR

SELL PRICE	\$138,625.00
SUBTOTAL	\$138,625.00
TOTAL	\$138,625.00

WARRANTY & COVERAGE

Standard Warranty: 12 Months Unlimited Hours, Parts and Labor (Travel Time included for the first 6 months)

Extended Coverage: 2YR/1000HR PREMIER 5YR/2500HR PT

F.O.B./TERMS:

Albuquerque

PAYMENT TERMS**Cash Invoice Terms**

CASH WITH ORDER

\$0.00



Quote 250018-01

Nov 04, 2022

CITY OF RIO COMMUNITIES-RGEF
PO BOX 565
RIO COMMUNITIES, New Mexico 87002

Attention: Martin Abeita

Dear Sir,

We would like to thank you for your interest in our company and our products, and are pleased to quote the following for your consideration. Quoted off of Sourcewell Contract #032119-CAT.

Caterpillar Model: 289D3 Compact / Multi Terrain Loader

STOCK NUMBER: 503435 **SERIAL NUMBER:** **YEAR:** **HOURS:**

We appreciate the opportunity to extend this quote. Pricing is subject to change based on manufacturer changes to cost and availability. If there are any questions, please do not hesitate to contact me.

Regards,
Jacob Earnest
Sales Representative
Wagner Equipment Co.

Caterpillar Model: 289D3 Compact / Multi Terrain Loader**STANDARD EQUIPMENT**

POWERTRAIN -Cat C3.3B diesel engine --Gross horsepower per SAE J1349 -74.3 hp (55.4 kW) @ 2400 RPM --Electric fuel priming pump --Glow plugs starting aid --Liquid cooled, direct injection -Air cleaner, dual element, radial seal -S-O-S sampling valve, hydraulic oil -Filter, cartridge type, hydraulic -Filters, canister type, fuel and water separator -Radiator / hydraulic oil -cooler (side-by-side) -Spring applied, hydraulically released, -parking brakes -Hydrostatic transmission

UNDERCARRIAGE -Dual flange front idler, single flange -Rear idler -Suspension - independent torsion axle(4) -Two speed motor

HYDRAULICS -ISO or H pattern controls: -Electro/hydraulic implement control -Electro/hydraulic hydrostatic -transmission control -Speed sensor guarding -

ELECTRICAL -12 volt electrical system -80 ampere alternator -Ignition key start / stop / aux switch -Lights: --Gauge backlighting --Two rear tail lights --Dome light -Backup alarm -Electrical outlet, beacon -

OPERATOR ENVIRONMENT -Operator warning system indicators: --Air filter restriction --Alternator output --Armrest raised / operator out of seat --Engine coolant temperature --Engine oil pressure --Glow plug activation --Hydraulic filter restriction --Hydraulic oil temperature --Park brake engages --Engine emission system -Gauges: fuel level and hour meter -Storage compartment with netting -Ergonomic contoured armrest -Control interlock system, when operator -leaves seat or armrest raised: --Hydraulic system disables --Hydrostatic transmission disables --Parking brake engages -ROPS cab, open, tilt up -Anti-theft security system w/6-button -keypad -FOPS, Level I -Top and rear windows -Floormat -Interior rear view mirror -12V electric socket -Horn -Hand (dial) throttle, electronic -

FRAMES -Lift linkage, vertical path -Chassis, one piece welded -Machine tie down points (6) -Belly pan cleanout -Support, lift arm -Rear bumper, welded

OTHER STANDARD EQUIPMENT -Engine enclosure - lockable -Extended life antifreeze (-37C, -34F) -Work tool coupler -Hydraulic oil level sight gauge -Radiator coolant level sight gauge -Radiator expansion bottle -Cat ToughGuard TM hose -Heavy duty flat faced quick disconnects -with integrated pressure release -Split D-ring to route work tool hoses -Along side of left lift arm -Hydraulic demand cooling fan -Per SAE J818-2007 and EN 474-3:2006 and -ISO 14397-1:2007

MACHINE SPECIFICATIONS

289D3 COMPACT TRACK LOADER

CAB PACKAGE, ULTRA

INCLUDES:

HYDRAULICS, PERFORMANCE, (H3)

INCLUDES: HIGH FLOW, DUAL

SELF LEVEL, RETURN TO DIG

CONTROL, ISO, PROP, WT

LIGHTS, LED

RUBBER BELT, 2 SPD, TF IDLERS

ROPS, ENCLOSED WITH A/C (C3)

DISPLAY, ADVANCED, LCD, CAMERA

FAN, COOLING, DEMAND

QUICK COUPLER, HYDRAULIC

SEAT, AIR SUSPENSION, CLOTH, HEAT

STANDARD RADIO(12V), BLUETOOTH

FILM, TWO SPEED W/HIGH FLOW XPS

FILM, SELF LEVEL, ANSI

DOOR, CAB, POLYCARBONATE

RIDE CONTROL

TRACK, RUBBER, 450MM(17.7 IN) BAR

BATTERY, EXTRA HEAVY DUTY, DISC

REAR LIGHTS

SEAT BELT, 2"

PRODUCT LINK, CELLULAR PL641

CERTIFICATION ARR, P65

INSTRUCTIONS, ANSI, USA

SERIALIZED TECHNICAL MEDIA KIT

HEATER, ENGINE COOLANT, 120V

PACK, DOMESTIC TRUCK

FILM, RIDE CONTROL, ANSI

LANE 2 ORDER

BUCKET-GP, 80", BOCE

BRUSHCUTTER, BR320, HF XPS

ERSKINE INDUSTRIAL HD SKELETON GRAPPLE BUCKET 84"

SELL PRICE	\$105,560.00
SUBTOTAL	\$105,560.00
TOTAL	\$105,560.00

WARRANTY & COVERAGE

Standard Warranty: 2 year / 2,000 Hour Parts & Labor Warranty (Travel Time Included For The First 6 Months)

Extended Coverage:

F.O.B/TERMS:

Albuquerque

PAYMENT TERMS

Cash Invoice Terms

CASH WITH ORDER
\$0.00



Quote 250019-01

Nov 04, 2022

CITY OF RIO COMMUNITIES-RGEF
PO BOX 565
RIO COMMUNITIES, New Mexico 87002

Attention: Martin Abeita

Dear Sir,

We would like to thank you for your interest in our company and our products, and are pleased to quote the following for your consideration. Quoted off of Sourcewell Contract #032119-CAT.

Caterpillar Model: 299D3 Compact / Multi Terrain Loader

STOCK NUMBER:	SERIAL NUMBER:	YEAR:	HOURS:
---------------	----------------	-------	--------

We appreciate the opportunity to extend this quote. Pricing is subject to change based on manufacturer changes to cost and availability. If there are any questions, please do not hesitate to contact me.

Regards,
Jacob Earnest
Sales Representative
Wagner Equipment Co.

Caterpillar Model: 299D3 Compact / Multi Terrain Loader**STANDARD EQUIPMENT**

POWERTRAIN -Cat C3.8 turbo aftercooled diesel engine --Gross horsepower per SAE J1349 -98 hp (73 kW) @ 2400 RPM
--Electric fuel priming pump --Air inlet heater starting aid --Liquid cooled, direct injection -Air cleaner, dual element, radial seal
-S-O-S sampling valve, hydraulic oil -Filter, cartridge type, hydraulic -Filters, canister type, fuel -and water separator
-Radiator/hydraulic oil -cooler (side-by-side) -Spring applied, hydraulically released, -wet multi disc parking brakes -Hydrostatic transmission

UNDERCARRIAGE -Dual flange front idler -Single flange rear idler

OTHER STANDARD EQUIPMENT -Cat ToughGuard TM hose -Heavy duty flat faced quick disconnects -with integrated pressure release -Split d-ring to route work tool hoses -along side of left lift arm -Variable speed hydraulic cooling fan -Per SAE J818-2007 and EN 474-3:2006 and -ISO 14397-1:2007 -Radiator expansion bottle -Radiator coolant level sight gauge -Hydraulic oil level sight gauge -Work tool coupler -Extended life antifreeze (-37C, -34F) -Engine enclosure - lockable

FRAMES -sealing -Ventilated rear door with integrated -Cast rear bumper -Support, lift arm -Belly pan cleanout -Machine tie down points (6) -Chassis, one piece welded -Lift linkage, vertical path

OPERATOR ENVIRONMENT -Hand (dial) & throttle electronic -Horn -12V electric socket -Interior rear view mirror -Floormat -Top and rear windows -FOPS, Level I -ROPS Cab, open, tilt up --Parking brake engages --Hydrostatic transmission disables --Hydraulic system disables -leaves seat or armrest raised : -Control interlock system, when operator -Ergonomic contoured armrest -Storage compartment with netting -hour meter and tachometer -Gauges: DEF level, fuel level, --Engine emission system --Park brake engages --Hydraulic oil temperature --Hydraulic filter restriction --Air inlet heater activation --Engine oil pressure --Engine coolant temperature --Armrest raised / operator out of seat --Alternator output --Air filter restriction -Operator warning system indicators:

ELECTRICAL -Electrical outlet, beacon -Backup alarm --Dome light --Two rear tail lights --Gauge backlighting -Lights: -Ignition key start / stop / aux switch -100 ampere alternator -12 volt electrical system -

HYDRAULICS -Speed sensor guarding -transmission control -Electro/hydraulic hydrostatic -Electro/hydraulic implement control -ISO or H pattern controls: -

UNDERCARRIAGE -Two speed motor -Suspension - independent torsion axle(4)

MACHINE SPECIFICATIONS

299D3 CAB,UL,2SP,HQC,TF,BAR,HF

LANE 2 - AVAILABLE FROM SANFORD FACTORY USING PRIORITY CODE L2

LANE 3 - AVAILABLE FROM SANFORD FACTORY USING PRIORITY CODE L2

INCLUDES:

512-4299 299D3 COMPACT TRACK LOADER

588-9140 CAB PACKAGE, ULTRA

512-4414 HYDRAULICS, PERFORMANCE, (H3)

512-4115 CONTROL, ISO, PROP, WT

495-1671 LIGHTS, LED

357-0240 RUBBER BELT, 2 SPD, TF IDLERS

512-3368 ROPS, ENCLOSED WITH A/C (C3)

465-3705 DISPLAY, ADVANCED, LCD, CAMERA

579-8782 FAN,COOLING, DEMAND, REVERSING

536-9738 SEAT,AIR SUSPENSION,CLOTH,HEAT

568-4704 FILM,TWO SPEED W/HIGH FLOW XPS

345-6180 STANDARD RADIO(12V),BLUETOOTH

512-4089 DEBRIS MGMT PKG, NONE (DM0)

568-5612 BATTERY,EXTRA HEAVY DUTY, DISC

356-6082 REAR LIGHTS

586-1308 DOOR, CAB, POLYCARBONATE

542-6994 SEAT BELT, 2"

573-8121 PRODUCT LINK, CELLULAR PL641

512-3401 QUICK COUPLER, HYDRAULIC

563-1163 CERTIFICATION ARR, P65

345-3556 HEATER, ENGINE COOLANT, 120V

NOTE: Please refer to the Lane 1 section to complete your order.

For Lane 2/3 orders refer to mandatory section to select track.

RIDE CONTROL

LANE 3 ORDER

FILM, SELF LEVEL, ANSI

SERIALIZED TECHNICAL MEDIA KIT

TRACK,RUBBER,450MM(17.7 IN)BAR

INSTRUCTIONS, ANSI, USA

PACK, DOMESTIC TRUCK

SHIPPING/STORAGE PROTECTION

FILM, RIDE CONTROL, ANSI

BUCKET-GP, 80", BOCE

BRUSHCUTTER, BR320, HF XPS

ERSKINE INDUSTRIAL HD SKELETON GRAPPLE BUCKET 84"

SELL PRICE	\$113,550.00
SUBTOTAL	\$113,550.00
TOTAL	\$113,550.00

WARRANTY & COVERAGE

Standard Warranty:

2 year / 2,000 Hour Parts & Labor Warranty (Travel Time Included For
The First 6 Months)

Extended Coverage:

F.O.B/TERMS:

Albuquerque

PAYMENT TERMS**Cash Invoice Terms**

CASH WITH ORDER

\$0.00



CITY OF RIO COMMUNITIES

360 Rio Communities Blvd.
Rio Communities, NM 87002
505-861-6803
www.riocommunities.net

November 9, 2022

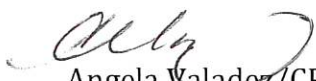
Dear Mayor & City Council,

As Chief Procurement Officer for the city I reviewed 3 quotes for a gooseneck, flatbed trailer for the Public Works Department to haul heavy equipment. I noticed the quote from MCT Inc., was less than the other quotes. This is because the longest trailer they had in stock was 20x5 and the other two quotes from vendors are for 23 feet or longer. My recommendation is for the purchase of the trailer from T&T Trailer Sales in the amount of \$16,500 as this option better fits the city's needs.

Vendor	Trailer Size	Trailer Cost
T & T Trailer Sales	23 X 5 Dual Tandem (2) 10,000# axles (2) 12000# Dropleg Jacks LED Lights Spare Tire Lockable Toolbox	\$16,500.00
MCT, Inc.	20 x 5 +5 Mega ramps Lockable toolbox LED Lighting 5' Dovetail	\$16,100.00
Jackssons Trailers	28 x 102 LD GN Flatdeck 5' Dovetail W/Max ramps Front Toolbox LED lights Safety Chains	\$18,000.00

Thank you for your consideration.

Sincerely,


Angela Valadez/CPO

T&T Trailer Sales

19480 Hwy 314

(505)864-8899

Belen, NM 87002

Fax(505)864-6633

Custom Trailer Quote

Date: 11/08/22Name: City of Rio Communities Phone#: _____

Address: _____ Fax: _____

City: _____ State: _____ Zip: _____

Manufacturer: Diamond TModel: 24K 23'+5' GN Dual Tandem Base Price: \$ 16,500.00

Options:

- | | |
|------------------------------------|-------|
| 1. <u>(2) 10,000# Axles</u> | _____ |
| 2. <u>MAXX Ramps</u> | _____ |
| 3. <u>(2) 12000# Dropleg Jacks</u> | _____ |
| 4. <u>LED Lights</u> | _____ |
| 5. <u>Spare Tire</u> | _____ |
| 6. <u>Lockable Toolbox</u> | _____ |
| 7. _____ | _____ |
| 8. _____ | _____ |
| 9. _____ | _____ |
| 10. _____ | _____ |

Total Options: \$ _____

T,T&L: \$ _____

Total Price: \$ 16,500.00***Quote is Good For 14 Days*****T&T Trailer Sales:** Carmen Munoz

**MCT, Inc.**7451 Pan American Freeway NE
Albuquerque, NM 87109Phone (505) 345-8651
Fax (505) 345-2597
E-Mail mctindustries@mct-ind.com

Item 5.

Sales Quote**28732****Quoted 11/9/2022****Bill To**

CITY OF RIO COMMUNITIES

Ship To**Contact**MARTIN ABEITA
505 273 1557
mabeita@riocommunities.net

Purchase Order	Ship Via	FOB	Reference	Entered By	Sales rep	Terms
----------------	----------	-----	-----------	------------	-----------	-------

TMM 11/9/2022 FM Cash on Delivery

Product	Description	Ordered	Price	Amount
---------	-------------	---------	-------	--------

2023 BIG TEX	22GN-20 +5 MEGA RAMPS	1.00	16,100.00	\$16,100.00
--------------	-----------------------	------	-----------	-------------

CURRENTLY IN STOCK

PLEASE SEE ATTACHED FOR
SPECIFICATIONS.
THANK YOU,
FERMIN MAES

Sub-total	\$16,100.00
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Sales tax	
-----------	--

Quote Good for 30 Days	Total	\$16,100.00
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22GN TANDEM DUAL WHEEL GOOSENECK

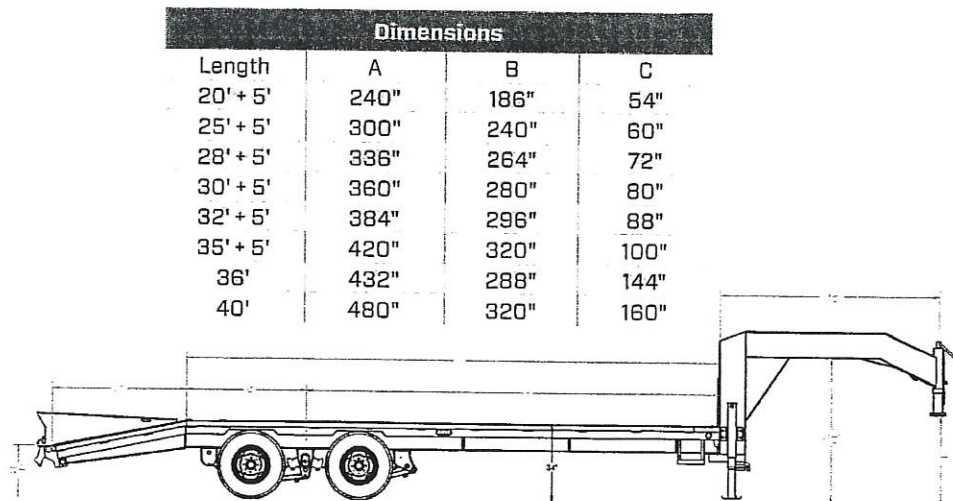
G.V.W.R.	23,900#	AXLES	(2) 10,000# Dual Wheel w/ Electric Brakes (Oil Bath)
G.A.W.R. (Ea. Axle)	10,000#	SUSPENSION	Heavy Duty 30,000# Adjustable
COUPLER	2-5/16" Ball Adj. Square Crank Type	TIRE	ST235/80 R-16 Load Range E Dual
SAFETY CHAINS	3/8" Grd. 70 w/Safety Latch Hook (2 each)	WHEEL	16" x 6" Black Dual, 8 Bolt
JACKS	Dual 12,000# Drop Leg Jacks (Bolted On)	FLOOR	2" Treated Pine or Douglas Fir*
NECK	12" I-Beam, 16#	LIGHTS	L.E.D. D.O.T. Stop, Tail, Turn & Clearance
FRAME	12" I-Beam, 16# (19# on 28' Trailer & Longer)	ELEC. PLUG	7-Way RV
CROSSMEMBERS	3" Channel	FINISH (Prep)	Steel is Cleaned to Ensure a Professional Smooth Finish.
SIDE RAILS	6" Channel w/ Rub Rail, Stakepockets & Chain Spools	FINISH	Superior Quality Finish is Applied for a Highly Decorative and Protective Finish.
DOVETAIL	5' Cleated Dovetail w/ 5' Double Hinged, Spring-Assisted Flip-Over Ramps		

* Douglas Fir Available from Caldwell, ID Facility Only

STANDARD FEATURES

- 2-5/16" Ball Adjustable Coupler- Square Crank Type
- Dual 12,000# Drop Leg Jacks (Bolted on) w/Greasable Handle
- 102" Overall Width
- Low Profile, Pierced-Beam Frame Design
- Lockable Toolbox Between GN Uprights
- (2) Side Bed Steps & Handles
- 3/8" Heavy Duty Rub Rail
- Stakepockets Along Sides, 24" On Center
- 1-1/4" Pipe Chain Spools Between Tie Down Pockets
- Premium Brand Axles
- Oil Bath Hubs
- Forward Self-Adjusting Brakes
- Heavy Duty 30,000# Adjustable Suspension
- Grommet Mount Sealed Lighting
- L.E.D. Lighting Package
- Sealed, Modular Wiring Harness
- Spare Tire Mount (Top of Neck)
- 5' Dovetail w/ 5' Double Hinged Spring Assist Flip-Over Ramps
- Complete Break-A-Way System w/Charger
- Zip™ Breakaway Cable
- Mudflaps
- Radial Tires
- Spare Tire & Wheel- Standard Equipped
- XL Features (28' & Longer)
 - * Torque Tube to Prevent Frame Twist
 - * 19# I-Beam Frame Upgrade
 - * Sliding Winch Track on Roadside- Standard Equipped

DESCRIPTION



Looks for it 203.95

JACKSSONS, INC.

3502 PAN AMERICAN FWY NE
ALBUQUERQUE, NM 87107
Phone: (505) 884-0891 Fax: (505) 884-0084
Email: sales@jackssons.com
WWW.JACKSSONS.COM

Item 5.

Quote

Date	Quote #
11/4/2022	PLD0524

Name / Address
QUOTE

			Payment Method		Orig. Order Date	
Item	Description	Serial #	Class	Qty	Cost	Total
PLD0524	28 X 102 LD GN FLATDECK, 2-12K, 5' SELF CLEANING DOVETAIL W/ MAX RAMPS, 2-MAX STEP 15", WINCH PLATE, FRONT TOOLBOX	4ZEGP2827P1283864	Cameron-Pa...	1	18,000.00	18,000.00
	ABQ Sales Tax		Cameron-Pa...		7.75%	0.00
			Total		\$18,000.00	

ALL DEPOSITS ARE NON REFUNDABLE - NO EXCEPTIONS
NO REFUNDS ON SPECIAL ORDER DEPOSITS

QUOTE IS GOOD FOR 30 DAYS

JACKSSONS TRAILERS

Phone: 5058840891

3502 Pan American Frwy NE
Albuquerque, NM 87107

Email: sales@jackssons.com

2812



Item 5.



2023 Load Trail GP24 Low-Pro 102 x 28 Equipment Trailer

Stock #: LOAD TRAIL 2023 28X102 FLATDECK GN
25K 12KAXLE

Year: 2023

Manufacturer:
Load Trail

Width: 102" or 0' 8"6"

Length: 336" or 2'
4"

Weight: 7310

GVWR: 25900

Payload: 18590

Color: BLACK

Axles: 2

Axle Capacity:
12000.00

URL: <https://jackssons.com/2023-load-trail-gp24-low-pro-102-x-28-equipment-trailer-PcRn.html>

MSRP	\$20,000.00
Price	\$20,000.00
Sale Price	\$18,000.00

Description

2023 LOAD TRAIL 28' X 102 " LOW PRO Flatdeck with Duals 12K AXLES

-TAKE ADVANTAGE OF THE FALL SAVINGS EVENT, SAVE UP TO \$2000.00 OFF MSRP ON THE UNITS BELOW.

SEE TERMS AND TRAILER INFORMATION BELOW:

THIS LOAD TRAIL 28X102 FLATDECK WITH 5FT DOVE AND MONSTER RAMPS IS PRICED AT \$18000.00 OUT THE DOOR WITH CASH CHECK OR CARD, FINANCE WILL ADD TTLR

THIS TRAILER IS OPTIONED WITH THE 12K AXLES AND HD VALCRUM CAPS, THIS UNIT ALSO COMES WITH 1 SET OF TOOLBOX BRACKETS ON THE DRIVER SIDE.

SPECIFICATIONS

Couplers: 2 5/16" Adjustable Coupler Round (25,000 lb)

Item 5.

Crossmembers 3" Channel 16" OC (3.5 lbs/ft)

EWR Class HEAVY DUTY GOOSENECK

Finish (prep): Mechanical and/or Chemical Pretreatment for Maximum Paint Adhesion

Finishing Coat/Primer Sherwin-Williams Powdura OneCure Primer w/Polyester TGIC Gloss Powder Topcoat

Flooring: Treated Wood

Frame: 12" I-Beam (19 lbs/ft)

GAWR: 12,000 lbs (ea axle)

GVWR: 24,000 lb

Jack: 2-10K Drop Leg Spring Return

Lights: D.O.T. Stop, Tail, Turn and Clearance LED

Neck 12" I-Beam (19 lbs/ft)

Product Line Low-Pro Gooseneck Pintle Hooks

Product Series: GP24

Ramps: 8 Slide-In Ramps

Safety Chains: 26400 Lb 3/8 x 36 G#70

Suspension: Multi-Leaf Slipper Spring (HDSS)

Tires: 235/80 R16 LRE (w/spare)

Tool Box: Front Tool box

Tongue & Neck: 12" I-Beam (19 lbs/ft)

Wheels: 16" 8-Hole Duals

Wire Harness: 16 Ga. 5-Way Double Insulated Harness w/7-way plug

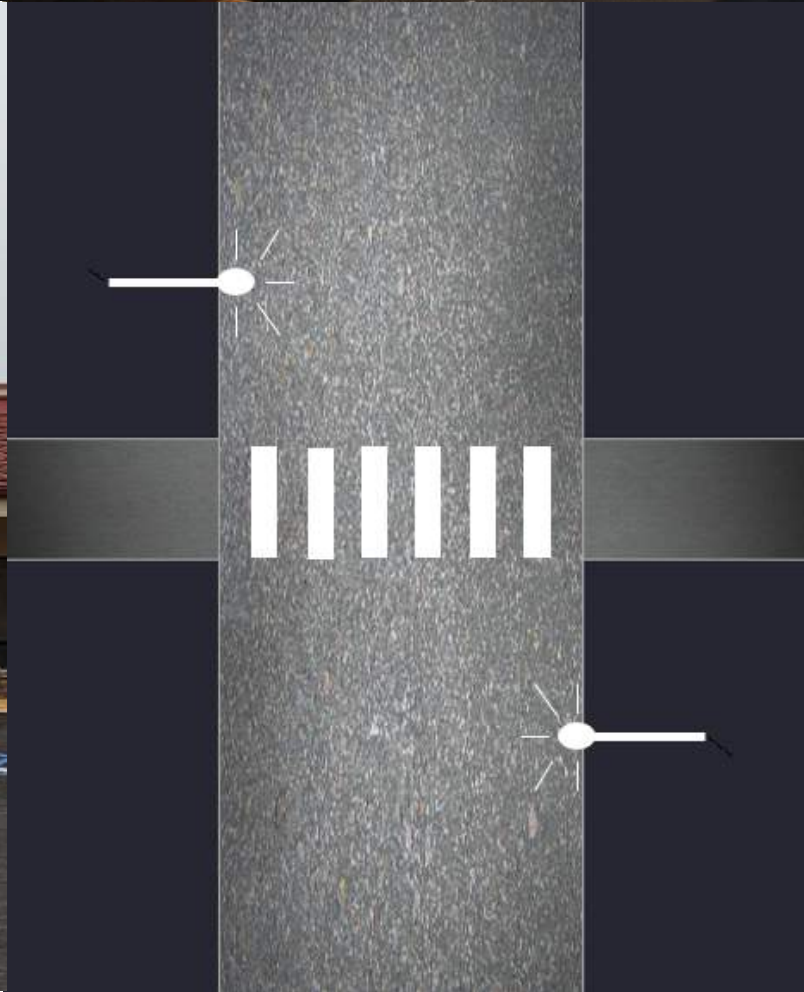
ASK FOR CAMERON 505-884-0891

Duty Trailers, Landscape Trailers, Flat Deck, Trailers, Trailer Dealers, Lubbock, Amarillo, Odessa, Clovis, Roswell, Abilene, San Angelo, Carlsbad, Midland, Tilt Deck, Hydraulic, Ramp, Dove Tail, Steel Floor, Wood Floor, Cargo Trailer, Enclosed Trailer, Utility Trailer, Dump Trailer, Gooseneck Trailer, Car Trailer, Equipment Trailer, Car Hauler, Equipment Hauler, Scissor Hauler, Heavy Duty, Heavy Duty Trailer, Landscape, Landscape Trailer, Trailer Dealer, Trailer, Medium Duty, Medium Duty Trailers, Tilt Trailers, Tilt Trailer, 10 foot, 12 foot, 14 foot, 16 foot, 20 foot, 24 foot, 10ft, 12ft, 14ft, 16ft, 20ft, 24ft, 10', 12', 14', 16', 20', 24', Farm, Concession, Concession Trailer, Concession Trailers, Pipe Top, Utility, PJ Trailer, PJ Trailers, Big Tex, PJ, Big Tex Trailers, Ramp Gate, Ramp, 7K, 10K, Enclosed, 5x8, 6x10, 6x12, 7x16, 8x16, 8x20, 8x24, 7x14, 5x10, 7x12, Tandem, Gooseneck, Bumper Pull, Lamar Trailer, Big Chief Trailer, Kearney Trailer, Longhorn Trailer, Continental Cargo Trailer, Stagecoach Trailer, Stagecoach Trailers, Continental Cargo Trailers, Longhorn Trailers, Kearney Trailers, Big Chief Trailers, Lamar Trailers, Low Boy, Roll Off, Flat Bed, Cargo, Enclosed, Dump, Gooseneck, Utility, Texas Bragg, New Mexico, Open Trailer, Open Trailers, Used Trailer, Used Trailers, New Trailers, Dual Axle, Dual Axles, Landscaping, Landscape, Plainview, Lubbock

Item 5.



Item 7.



Streetlight Safety Plan For City of Rio Communities

Final Report - April 2022



2155 Louisiana Blvd NE, Suite 9500
Albuquerque, NM 87710-5483
505.830.5400

RIO COMMUNITIES STREETLIGHT SAFETY PLAN

APRIL 2022

Prepared for:



Prepared by:

Sanjay Paul, PhD, PE, PTOE

Antonio Nunez, PE

Manmith Kunduru, PE

Miranda Sundblom, EIT

Michael Barton, PE, PTOE

Subhankar Dey



ACKNOWLEDGMENT

This study was funded by and conducted for the City of Rio Communities. The project team would like to thank the members of the Project Technical Committee (TAC) for their input, comments, suggestions, and direction throughout this project. Their assistance made the successful completion of this study possible. The authors would like to thank the following personnel for their input on this study:

- ❖ Joshua Ramsell, City Mayor
- ❖ Martin D. Moore, PhD, City Manager
- ❖ Gordon Reeves, Public Works Director

EXECUTIVE SUMMARY

Background and Objectives

The City of Rio Communities (City) commissioned HDR to perform a comprehensive study and develop safety streetlight plan for the City. The project team, as the subject matter expert and trusted advisor to the City, inventoried the existing roadway condition, collected vehicular and pedestrian and bicyclist volumes, analyzed the data and identified the need for safety streetlights at intersections and trail crossings, prioritized the list of locations for lighting improvements, developed lighting guidelines, and managed the project scopes and planning-level costs for the top priority intersections for inclusion in the City’s Capital Improvement Program (CIP).

Study Area and Existing Conditions

The City of Rio Communities was incorporated on May 16, 2013, from Valencia County in New Mexico. The residents’ diverse backgrounds, exceptional makeup, and independent spirit make the City a unique community. There are approximately 4,750 people living in the City, according to 2020 census records. The two main roadways that provide mobility for long distance travel to and from the community are Manzano Expressway, which carries approximately 2,500 vehicles per day (vpd), and NM 47/Rio Communities Blvd, which carries approximately 5,700 vpd. The remaining roads within the project area are local streets that provide multimodal connectivity throughout the community. Based on discussions with City personnel and a review of planning documents, the project team identified 38 intersections for initial review. After a detailed assessment, the following 10 intersections were identified for short-term improvements to enhance lighting-related safety:

- | | |
|--|---|
| ❖ Manzano Expressway & Hillandale Avenue | ❖ Horner St. & Kaghan Loop Drive |
| ❖ Rio Communities Boulevard & De Haan Loop | ❖ Goodman Avenue & Hillman Street |
| ❖ Hillandale Avenue & Horner Street | ❖ Kaghan Loop Drive & Trailhead |
| ❖ Goodman Avenue & Damon Street | ❖ Horner Street & Walking Trail |
| ❖ Goodman Avenue & Horner Street | ❖ Nancy Lopez Boulevard & Lee Trevino Boulevard |



Evaluation and Prioritization

As part of the existing conditions inventory, the project team collected vehicular, pedestrian, and bicyclist volumes, and inventoried existing roadway features for the 10 intersections identified for short-term improvements. The project team utilized three methods to evaluate the intersections for prioritization of lighting improvements:

- ❖ Comparison by independent attributes
- ❖ Pair-wise comparisons among intersections
- ❖ Measles Chart qualitative comparison

The project team analyzed the collected roadway geometric and operational attributes to rank the intersections by priority level.

- ❖ **Prioritized Intersection #1:** Manzano Expressway and Hillandale Avenue
- ❖ **Prioritized Intersection #2:** Rio Communities Boulevard and De Haan Loop
- ❖ **Prioritized Intersection #3:** Goodman Avenue and Damon Street
- ❖ **Prioritized Intersection #4:** Goodman Avenue and Hillman Street
- ❖ **Prioritized Intersection #5:** Horner Street and Hillandale Avenue
- ❖ **Prioritized Intersection #6:** Horner Street and Walking Trail
- ❖ **Prioritized Intersection #7:** Horner Street and Kaghan Loop Drive/Suncrest Boulevard
- ❖ **Prioritized Intersection #8:** Kaghan Loop Drive and Trailhead
- ❖ **Prioritized Intersection #9:** Horner Street and Goodman Avenue
- ❖ **Prioritized Intersection #10:** Nancy Lopez Boulevard and Lee Trevino Boulevard

Safety Streetlight Design Guidelines

The team used the American Association of State Highway and Transportation Officials (AASHTO) Roadway Lighting Design Guide 2018, the American National Standards Institute (ANSI) / Illuminating Engineering Society (IES) RP-8-21 Recommended Practice for Lighting Roadway and Parking Facilities, and the New Mexico Department of Transportation (NMDOT) Standard Drawings for Highway and Bridge Construction 2019 to develop guidelines for intersection lighting criteria. The criteria considered included design light levels, (minimum, maximum, and average values), uniformity ratios, potential pole placements at the intersections, luminaire wattage, and other relevant lighting criteria to enhance multimodal nighttime safety.

The team recommends referring to NMDOT Standard Drawing 707L-07-2/10, for Roadway lighting type V poles with a mounting height of 30 feet and a luminaire mast arm length of 10 feet. It is also recommended for all luminaires with fixtures exceeding 500 lumens operating overnight to be shielded. The team suggests using light emitting diode (LED) fixtures, color temperature for all fixtures not to exceed 3,000K, luminaire wattage to be as minimal as possible, and to utilize a light loss factor of 0.7 while performing photometric analysis. After extensive city-wide intersection review, the project team developed detailed guidelines for five typical types of intersections found throughout the City:

- ❖ Four-legged intersection: local street vs local street
- ❖ T-intersection: local street vs local street
- ❖ T-intersection: local street vs collector street
- ❖ T-intersection: local street vs major street
- ❖ Intersection of local street vs designated trail crossing

Rio Communities Streetlight Projects for CIP

The prioritized list of intersections and planning level budgetary costs for the safety streetlight costs are as follows for the inclusion to the City’s CIP project lists:

- ❖ **#1:** Manzano Expressway and Hillandale Avenue - \$89,000
- ❖ **#2:** Rio Communities Boulevard and De Haan Loop - \$83,000
- ❖ **#3:** Goodman Avenue and Damon Street - \$91,500
- ❖ **#4:** Goodman Avenue and Hillman Street - \$87,000
- ❖ **#5:** Horner Street and Hillandale Avenue - \$85,500
- ❖ **#6:** Horner Street and Walking Trail - \$98,000
- ❖ **#7:** Horner Street and Kaghan Loop Drive/Suncrest Boulevard - \$132,000
- ❖ **#8:** Kaghan Loop Drive and Trailhead - \$111,500
- ❖ **#9:** Horner Street and Goodman Avenue - \$87,000
- ❖ **#10:** Nancy Lopez Boulevard and Lee Trevino Boulevard - \$148,500



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The transportation network in the City consists of two main roadways that provide mobility to the residents: NM 47 (Rio Communities Blvd) and Manzano Expressway. There are also many local roadways throughout the City that provide multimodal connectivity to the residents.

1.2 Project Objectives and Actions

HDR, as the subject matter expert and trusted advisor to the City, was commissioned to perform a comprehensive study and develop a safety streetlight plan for the City. To fulfill the objectives of this project, the team performed the following tasks:

- ❖ Inventoried existing roadway condition data – 10 intersections
- ❖ Collected vehicular, pedestrian, and bicyclist traffic volumes – 10 intersections
- ❖ Identified the need for safety streetlights at intersections and trail crossings
- ❖ Prioritized the list of locations into short and long-term improvements
- ❖ Developed lighting guidelines for implementation
- ❖ Developed project scopes and budgetary costs for the inclusion in the City’s Capital Improvement Program (CIP) – 10 intersections
- ❖ Developed conceptual lighting layouts for the City’s use for planning short-term improvements and planning-level cost estimates for potential grant applications – 10 intersections

1.3 Study Area

The project team initially identified a total of thirty-eight (38) intersections, including both roadway intersections and trail crossings. [Table 1](#) (to the right) shows the initial list of 38 intersections. The project team then interviewed City personnel and reviewed City planning documents and projects planned for near-term improvements to narrow down the list to the top ten (10) intersections for further analysis:

- ❖ Manzano Expressway & Hillandale Avenue
- ❖ SR47 & De Haan Loop
- ❖ Hillandale Avenue & Horner Street
- ❖ Goodman Avenue & Damon Street
- ❖ Goodman Avenue & Horner Street
- ❖ Horner St. & Kaghan Loop
- ❖ Goodman Avenue & Hillman Street
- ❖ Kaghan Loop & Trail head
- ❖ Horner Street & Walking Trail
- ❖ Nancy Lopez Boulevard & Lee Trevino Drive

Table 1: Initial List of Intersections for Safety Streetlight Plan Development

No.	First Street	Second Street
1	Manzano Expy.	Hillandale Ave.
2	SR47	De Haan Loop
3	Hillandale Ave.	Horner St.
4	Goodman Ave.	Damon St.
5	Goodmn Ave.	Horner St.
6	Horner St.	Kaghan Loop
7	Goodman Ave.	Hillman St.
8	Kaghan Loop	Trail head
9	Horner St.	Walking Trail
10	Nancy Lopez Blvd.	Lee Trevino Dr.
11	SR47	Nancy Lopez Blvd.
12	Nancy Lopez Blvd.	Frederico Blvd.
13	Horizon Vista Blvd.	Western Dr.
14	SR304	Chisum Trail
15	SR47	Horner St.
16	Hillandale Ave.	Walking Trail
17	SR47	Montano Ct.
18	Horner St.	Damon St.
19	Lee Trevino Dr.	Brown Dr.
20	Lee Trevino Dr.	Jack Nicklaus Dr.
21	Frederico Blvd.	January Dr.
22	Frederico Blvd.	Brown Dr.
23	Manzano Expy.	De Haan Loop
24	San Lucas Ave.	Lee Trevino Dr.
25	Brown Dr.	Palmer Ln.
26	San Lucas Ave.	Nancy Lopez Blvd.
27	Don Diego Rd.	Kaghan Loop
28	Horizon Vista Blvd.	Rio Communities Way
29	Hillandale Ave.	Olson St.
30	Hillandale Ave.	MoragaSt.
31	Kaghan Loop	Potential Park Location
32	Pageant St.	Potential Park Location
33	Logan St.	Trail head
34	Moraga St.	Trail head
35	Nash St.	Trail head
36	Norma St.	Trail head
37	Olson St.	Trail head
38	Macy Ct.	Trail Head

2. EXISTING CONDITION

The transportation network in the City consists of two main roadways that provide mobility to the residents: NM 47 (Rio Communities Blvd) and Manzano Expressway. Per the Mid-Region Council of Governments (MRCOG) Rio Communities 2020 Traffic Counts map (Figure 3), Manzano Expressway has an average daily traffic (ADT) of 2,500 vehicles per day (vpd) within the project area and therefore is designated as a collector street per RP-8-21 definitions. NM 47 (Rio Communities Blvd) has an ADT of 4,100 to 5,700 vpd within the project area and therefore is designated as a major street per RP-8-21 definitions. The remainder of the roads within the project area are assumed to be local streets that provide multimodal connectivity to the community.



Figure 3: Rio Communities 2020 Traffic Count Map

The project team collected morning, mid-day, and afternoon peak hour traffic counts, as well as pedestrian and bicyclist volumes. The project team also collected information on existing roadway conditions, lighting conditions, presence of sidewalks, and proximity to parks or schools. Table 2 shows the detailed existing conditions inventory for the 10 study intersections. Additionally, the team obtained information on right-of-way boundaries and potential nearby power sources using the Valencia County assessors website parcel viewer.

Table 2: Existing Condition Inventory for 10 Study Intersections

Intersection	Vehicle Volume	Pedestrian and Bicycle Volume	Existing Lighting	Sidewalk Presence	Speed Limit	Intersection Control	Sight Visibility	Near Park/School
	Max in 1 hour	Max in 1 hour	Yes/No	Yes/No	Max			
HORNER ST @ HILLANDALE AVE	176	0	No	No	25	All-way Stop	Vegetation	Park
HORNER ST @ GOODMAN AVE	139	0	No	No	25	All-way Stop	Vegetation	No
RIO COMMUNITIES BLVD @ DE HAAN LOOP	232	0	No	No	45	1-way Stop	None	No
MANZANO EXPRESSWAY @ HILLANDALE AVE	434	0	Yes	No	40	1-way Stop	None	Park
GOODMAN @ DAMON	152	0	No	No	25	2-way Stop	Vegetation	No
NANCY LOPEZ @ LEE TREVINO	59	10	No	Yes	25	2-way Stop	None	No
HORNER ST @ TRAIL	32	0	No	No	25	None	Wall	Park
HORNER ST @ KAGHAN LOOP @ SUNCREST	81	1	No	Yes	25	1-way Stop	None	No
KAGHAN LOOP @ TRAILHEAD	35	0	No	Yes	20	None	Wall	Park
GOODMAN @ HILLMAN	36	0	No	No	25	2-way Stop	Wall	No

Note:

1. Vehicle volume is the maximum number of vehicles in an hour among morning, mid-day, and afternoon peak periods, based on manual counts
2. Pedestrian and bicyclist volume is the maximum number of pedestrian and bicycles in an hour among morning, mid-day, and afternoon peak periods, based on manual counts
3. Speed limit is in miles per hour based on review of readily available imagery



3. INTERSECTION EVALUATION AND PRIORITIZATION

3.1 Evaluation Methods and Criteria

One objective of this project was to evaluate intersections within the City for the prioritization of street lighting improvements. Typically, an analysis of crash data would be completed, and intersections with a higher amount of pedestrian-involved, bicyclist-involved, or night-time crashes would be prioritized. Due to the lack of available crash data in the City, the project team developed three alternative comparison methods referencing the existing conditions and traffic count data:

- ❖ Comparisons by independent attributes
- ❖ Pair-wise comparisons among intersections
- ❖ Measles Chart qualitative comparison

The project team evaluated the top ten intersections that have been identified per discussions with City staff and by a review of City planning documents. These ten intersections are presented in [Figure 4](#).

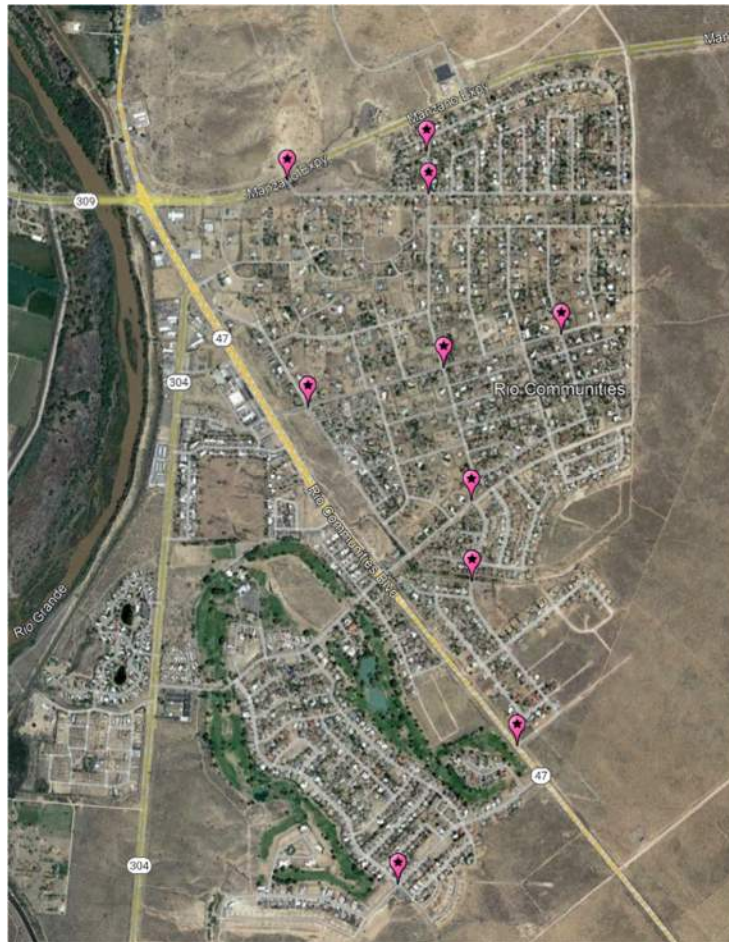


Figure 4: Top Ten Intersections (Each Intersection Is Shown as Star Pins) Selected for Evaluation

3.1.1 Method #1: Comparison by Independent Attributes

The first method used to compare the ten intersections was to review seven independent attributes to determine they relate to the safety at each intersection. Each of these independent attributes were evaluated for each of the ten intersections by assigning a value of zero or one, with a value of one indicating that the intersection is more likely to be prioritized for lighting improvements.

- ❖ Peak hour vehicular volume (to supplement lack of average daily traffic and nighttime traffic data)
 - Higher vehicular volumes create more potential points of conflict
 - Intersection was given a value of 1 with a higher volume than the average of all ten intersections
- ❖ Peak hour pedestrian & bicyclist volume (to supplement lack of nighttime pedestrian and bicycle volume data)
 - Higher pedestrian and bicyclist volumes represent more use and more potential points of conflict
 - Intersection was given a value of 1 with presence of any pedestrian or bicyclist volumes
- ❖ Existing sidewalk
 - If there is existing sidewalk, pedestrians are less likely to walk in the street
 - Intersection was given a value of 1 if there was no existing sidewalk
- ❖ Posted speed
 - Higher speeds contribute to a greater chance of fatality or injury in the event of a crash
 - Intersection was given a value of 1 with posted speed of 40 MPH or greater on intersecting streets
- ❖ Intersection stop control
 - Intersections with less stop control are more likely to have a conflict
 - Intersection was given a value of 1 if any of the approaches were not stop controlled (exception for the trail crossing intersections)
- ❖ Sight visibility issues that may be present
 - Intersections with sight visibility issues are more likely to have a conflict
 - Intersections were given a value of 1 if a sight visibility concern was identified
- ❖ Proximity to a park or school
 - Intersections near a park or school may have higher pedestrian activity at night or dusk time
 - Intersections were given a value of 1 if these are within ¼ mile of a park or school

Each intersection's score across all the attributes was added up, and the intersections with the highest scores were ranked the highest. The scoring and rank based on this method of evaluation are presented in [Table 3](#).



Table 3: Comparison by Independent Attributes

Intersection	Scoring								Rank
	Vehicle	Ped/Bike	Sidewalk	Speed	Stop Control	Sight Visibility	Park/School	Total	
HORNER ST @HILLANDALE AVE	1	0	1	0	0	0	1	3	3
HORNER ST @GOODMAN AVE	1	0	1	0	0	0	0	2	7
RIO COMMUNITIES BLVD @DE HAAN LOOP	1	0	1	1	1	0	0	4	2
MANZANO EXPRESSWAY @HILLANDALE AVE	1	0	1	1	1	0	1	5	1
GOODMAN @DAMON	1	0	1	0	1	0	0	3	3
NANCY LOPEZ @LEE TREVINO	0	1	0	0	1	0	0	2	7
HORNER ST @TRAIL	0	0	1	0	0	1	1	3	3
HORNER ST @KAGHAN LOOP @ SUNCREST	0	1	0	0	1	0	0	2	7
KAGHAN LOOP @TRAILHEAD	0	0	0	0	0	1	1	2	7
GOODMAN @HILLMAN	0	0	1	0	1	1	0	3	3

3.1.2 Method #2: Pair-Wise Comparison Among Intersections

This method of comparison requires a matrix to be set up to compare each of the ten intersections one-on-one to determine which intersection should be prioritized for lighting improvements. For each pair, the intersection determined to be more in need of lighting improvements was given a one (1), while the other intersection was given a zero (0). If the intersections’ need of lighting improvements were determined to be about the same (tie), each intersection was assigned a value of 0.5.

The determinations are made based on consideration of many factors together, as well as engineering judgement. Each intersection’s score was added up, and ranks were assigned with the higher scores receiving higher ranks. The scoring and rank based on this method of evaluation is presented in Table 4.

Table 4: Pair-Wise Comparison

Intersection	HORNER ST @ HILLANDALE AVE	HORNER ST @ GOODMAN AVE	RIO COMMUNITIES BLVD @ DE HAAN LOOP	MANZANO EXPRESSWAY @ HILLANDALE AVE	GOODMAN @ DAMON	NANCY LOPEZ @ LEE TREVINO	HORNER ST @ TRAIL	HORNER ST @ KAGHAN LOOP @ SUNCREST	KAGHAN LOOP @ TRAILHEAD	GOODMAN @ HILLMAN	Sum	Rank
HORNER ST @HILLANDALE AVE	-	0.5	0	0	0	1	1	0	0.5	1	4	6
HORNER ST @GOODMAN AVE	0.5	-	0	0	0	1	1	0	1	0	3.5	7
RIO COMMUNITIES BLVD @DE HAAN LOOP	1	1	-	0.5	1	1	1	0.5	1	1	8	1
MANZANO EXPRESSWAY @HILLANDALE AVE	1	1	0.5	-	1	1	1	0.5	1	1	8	1
GOODMAN @DAMON	1	1	0	0	-	1	1	0.5	1	0.5	6	4
NANCY LOPEZ @LEE TREVINO	0	0	0	0	0	-	0.5	0	0.5	0	1	9
HORNER ST @TRAIL	0	0	0	0	0	0.5	-	0	0.5	0	1	9
HORNER ST @KAGHAN LOOP @ SUNCREST	1	1	0.5	0.5	0.5	1	1	-	1	0.5	7	3
KAGHAN LOOP @TRAILHEAD	0.5	0	0	0	0	0.5	0.5	0	-	0	1.5	8
GOODMAN @HILLMAN	0	1	0	0	0.5	1	1	0.5	1	-	5	5

3.1.3 Method #3: Measles Chart – Qualitative Comparison

This system ranks the need for lighting improvements based on a qualitative assessment of each of the following seven attributes for each intersection: peak hour vehicular volume, peak hour pedestrian and bicyclist volumes, presence of existing sidewalk, posted speed, intersection stop control, sight visibility issues, and proximity to a park or school. Each intersection is assigned either a fully filled circle, half-filled circle, or empty circle based on the necessity of lighting improvements per the existing condition of the seven attributes in three different scales:

- ❖ Most urgent need (●)
- ❖ Moderately urgent need (◐)
- ❖ Less urgent need, given limited availability of funds (○)

This method provides a visual representation of which intersections may have a greater need for lighting improvements based on the chosen attributes. Later, the intersections are prioritized based on visual inspections and presence of more filled circles. The scoring and rank based on this method of evaluation are presented in Table 5.

Table 5: Measles Chart - Qualitative Comparison

Intersection	Scoring								Rank
	Vehicle	Ped/Bike	Lighting	Sidewalk	Speed	Stop Control	Sight Visibility	Park/School	
HORNER ST @HILLANDALE AVE	◐	○	○	●	○	○	◐	◐	6
HORNER ST @GOODMAN AVE	◐	○	○	●	○	○	◐	○	8
RIO COMMUNITIES BLVD @DE HAAN LOOP	●	○	○	●	●	●	○	○	2
MANZANO EXPRESSWAY @HILLANDALE AVE	●	○	○	●	●	●	○	◐	1
GOODMAN @DAMON	◐	○	○	●	○	●	◐	○	3
NANCY LOPEZ @LEE TREVINO	○	●	○	○	○	●	○	○	8
HORNER ST @TRAIL	○	○	○	●	○	◐	●	◐	3
HORNER ST @KAGHAN LOOP @ SUNCREST	○	◐	○	○	○	●	○	○	10
KAGHAN LOOP @TRAILHEAD	○	○	○	○	○	◐	●	●	6
GOODMAN @HILLMAN	○	○	○	●	○	●	●	○	3



3.2 Evaluation Summary

The three methods of evaluation were then considered together to determine a combined ranking of the intersections. The combined ranking is presented in [Table 6](#).

Table 6: Combined Ranking

Intersection	Ranking			
	By Independent Attributes	Pair-wise Comparison	Measles Chart - Qualitative	Combined
HORNER ST @HILLDALE AVE	3	6	6	5
HORNER ST @GOODMAN AVE	7	7	8	9
RIO COMMUNITIES BLVD @DE HAAN LOOP	2	1	2	2
MANZANO EXPRESSWAY @HILLDALE AVE	1	1	1	1
GOODMAN @DAMON	3	4	3	3
NANCY LOPEZ @LEE TREVINO	7	9	8	10
HORNER ST @TRAIL	3	9	3	6
HORNER ST @KAGHAN LOOP @ SUNCREST	7	3	10	7
KAGHAN LOOP @TRAILHEAD	7	8	6	8
GOODMAN @HILLMAN	3	5	3	4

The intersections are ranked in order as listed below.

- ❖ **Prioritized Intersection #1:** Manzano Expressway and Hillandale Avenue
- ❖ **Prioritized Intersection #2:** Rio Communities Boulevard and De Haan Loop
- ❖ **Prioritized Intersection #3:** Goodman Avenue and Damon Street
- ❖ **Prioritized Intersection #4:** Goodman Avenue and Hillman Street
- ❖ **Prioritized Intersection #5:** Horner Street and Hillandale Avenue
- ❖ **Prioritized Intersection #6:** Horner Street and Walking Trail
- ❖ **Prioritized Intersection #7:** Horner Street and Kaghan Loop Drive/Suncrest Boulevard
- ❖ **Prioritized Intersection #8:** Kaghan Loop Drive and Trailhead
- ❖ **Prioritized Intersection #9:** Horner Street and Goodman Avenue
- ❖ **Prioritized Intersection #10:** Nancy Lopez Boulevard and Lee Trevino Boulevard

4. LIGHTING GUIDELINES FOR RIO COMMUNITIES

The project team developed recommendations and guidelines for streetlight design for the City. The team conducted a comprehensive literature review on national and local New Mexico specific standard practice guidelines, including the following documents.

- ❖ The American Association of State Highway and Transportation Officials (AASHTO) Roadway Lighting Design Guide 2018 – refer to [Appendix A](#) for detailed criteria
- ❖ ANSI/IES RP-8-21 Recommended Practice for Lighting Roadway and Parking Facilities – refer to [Appendix B](#) for detailed criteria
- ❖ New Mexico Department of Transportation (NMDOT) standards

The project team also performed a series of photometric analyses as part of this report. The recommendations include the following design parameters:

- ❖ Intersection lighting design light levels (minimum, maximum and average values) and uniformity ratios
- ❖ Potential pole placements at the intersections
- ❖ Luminaire wattage

Other relevant lighting criteria was considered as well, to enhance multimodal nighttime safety. All these criteria were applied for different roadway functional classifications (local, collector, and major streets) and variations in intersection geometry.

4.1 Design Guideline: Pole and Mast Arm

The project team referenced NMDOT standard details for pole height, mounting height, foundations, and mast arm length data required for performing the photometric analysis. The team recommends the same parameters for design, supply, and construction in the City as in the rest of the state:

- ❖ NMDOT Standard Detail 707L-07-2/10 ([Figure 5](#))
- ❖ Roadway lighting type V poles
- ❖ Mounting height – 30 feet
- ❖ Luminaire mast arm length - 10 feet

It is noted that longer luminaire mast arms might be needed to provide clear zone on roadways with high speed and high traffic volumes. During the final design process, the engineer should collect traffic data, perform photometric analysis, and develop the final design plans before construction.

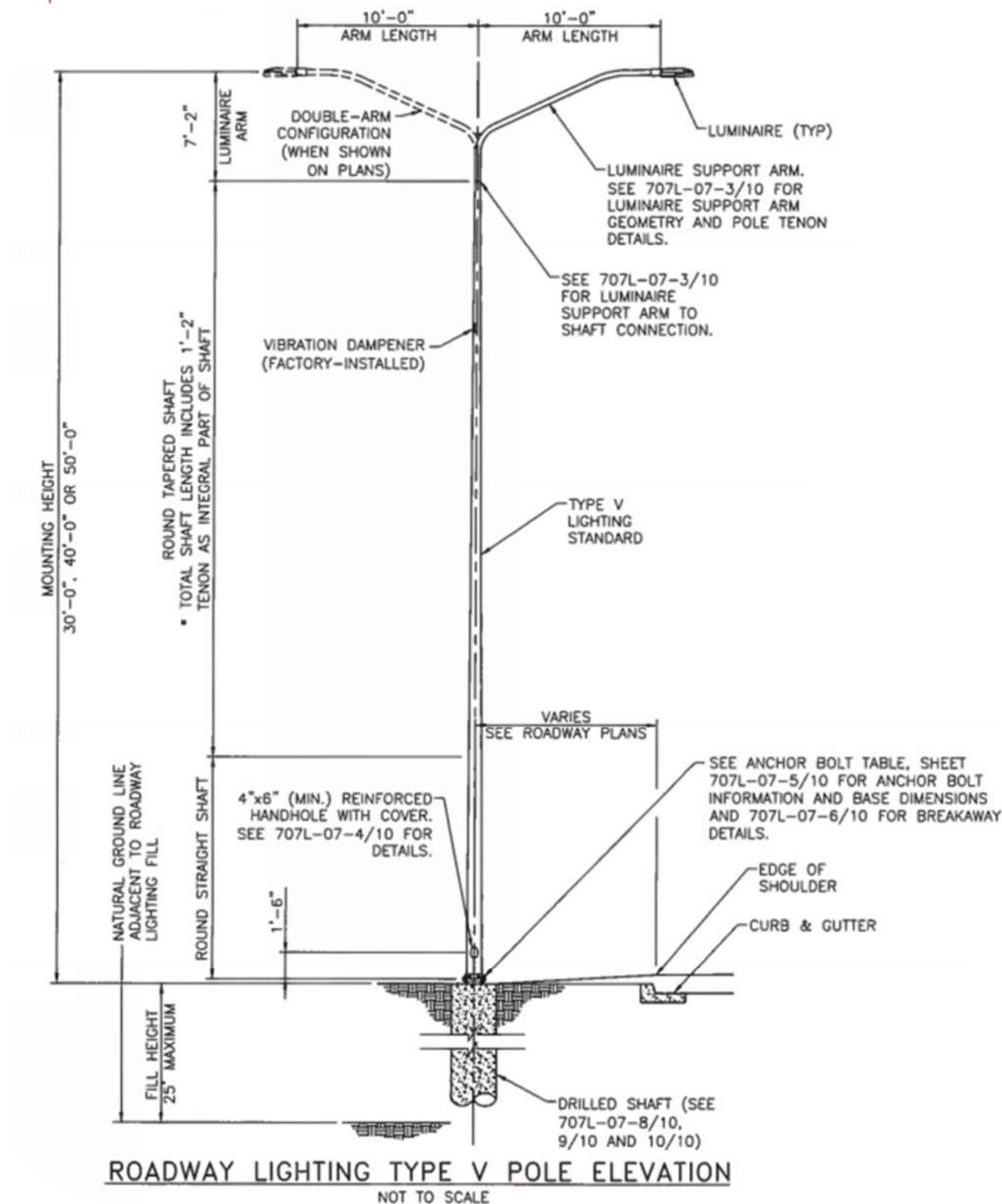


Figure 5: NMDOT Standard Detail 707L-07-2/1

4.2 Design Guideline: Lighting Parameters

Per the project scope, the project team developed a list of five different typical intersection types, based on intersection geometry and functional classification of the intersecting roadways. This list of intersections account for the most common types of intersections throughout the City:

- ❖ **Four-legged intersection:** local street vs local street
- ❖ **T-intersection:** local street vs local street
- ❖ **T-intersection:** local street vs collector street
- ❖ **T-intersection:** local street vs major street
- ❖ **Intersection of local street vs designated trail crossing**

Based on the identified design standards lighting criteria and existing conditions, the following recommendations for light levels (minimum average illuminance and maximum horizontal uniformity ratio) and light pole placement were developed for each of the five most common different types of intersections throughout the City (Table 7). It is noted that the project team recommends usages of Light Emitting Diodes (LED) lights for both intersection and mid-block roadway lighting. Furthermore, to be in compliance with the New Mexico Night Sky Protection Act:

- ❖ All luminaires with fixtures exceeding 500 lumens operating overnight shall be shielded
- ❖ Color temperature for all fixtures is not to exceed 3000K
- ❖ Light loss factor (which estimates depreciating light levels as equipment ages) is 0.7 for LEDs.

Additionally, the New Mexico Night Sky Protection Act suggests that wattage should be as minimal as possible, and thus the team suggests the wattage be approximately 110 to 130 watts.

Table 7: Intersection Lighting Recommendations

Intersection Type	Minimum Average Illuminance (Fc)*	Maximum Horizontal Uniformity Ratio (Average/Minimum)	Pole Placement
4-legged intersection: local street vs local street	0.7	6.0	See Figure 18
T-intersection: local street vs local street	0.7	6.0	See Figure 18
T-intersection: local street vs collector street	0.9	4.0	See Figure 18
T-intersection: local street vs major street	1.2	3.0	See Figure 18
Intersection of local street vs designated trail crossing	1.9**	-	See Figure 20

*Average illuminance not to exceed 1.5 times the minimum average illuminance

**Criteria for this intersection type is minimum average vertical illuminance



AGI32 lighting analyses were performed using NMDOT standard light poles and mast arms, along with the lighting criteria that were determined for each intersection type. It is noted that General Electric (GE) ERL1 14C530 and GE ERL2 18A530 fixtures were utilized to perform the analyses, which were chosen from the NMDOT Approved Products List (APL) dated February 1, 2022, and different wattage levels chosen as needed. Visual renderings (plan/top and isometric views) were created for each intersection type and are shown in the following figures.

4.2.1 Four-legged Intersection: Local Street & Local Street

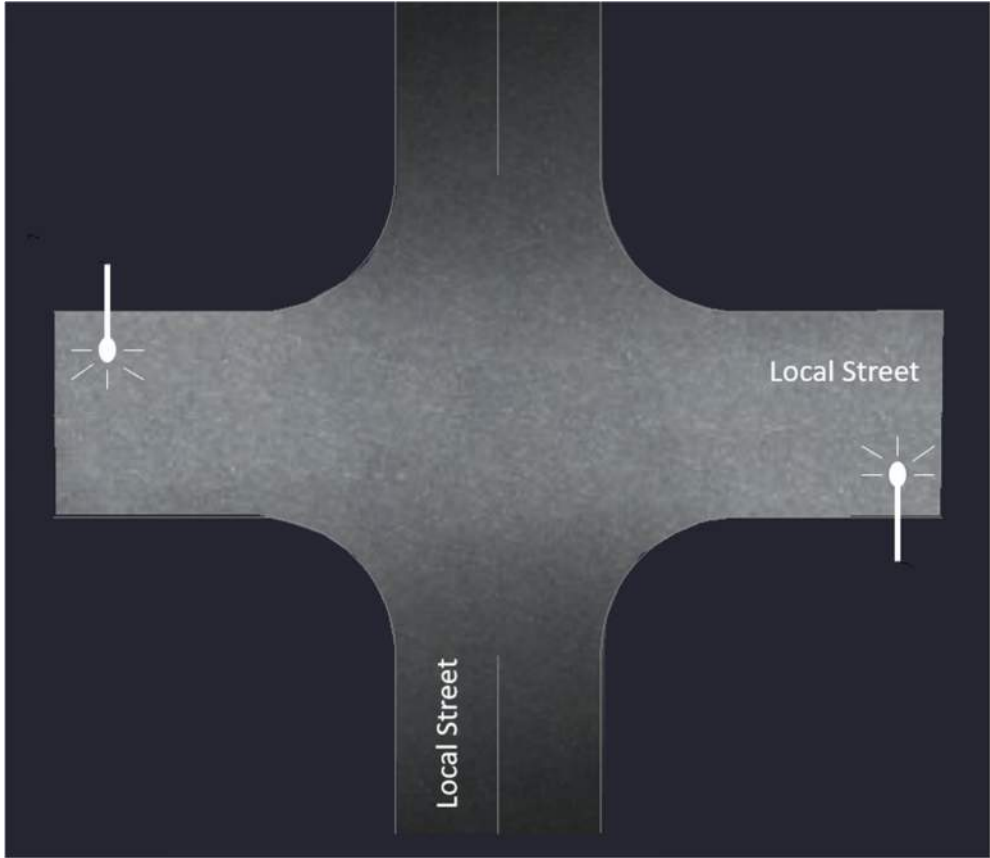


Figure 6: Rendering of 4-Legged Intersection: Local Street vs Local Street – Top View

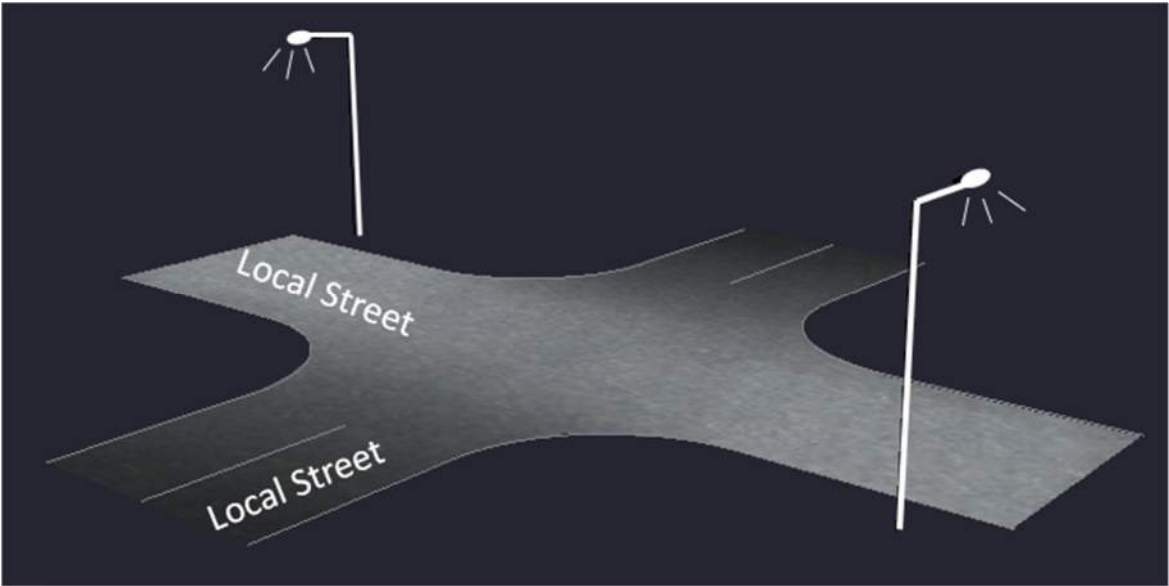


Figure 7: Rendering of 4-Legged Intersection: Local Street vs Local Street – Isometric View

4.2.2 T-intersection: Local Street & Local Street

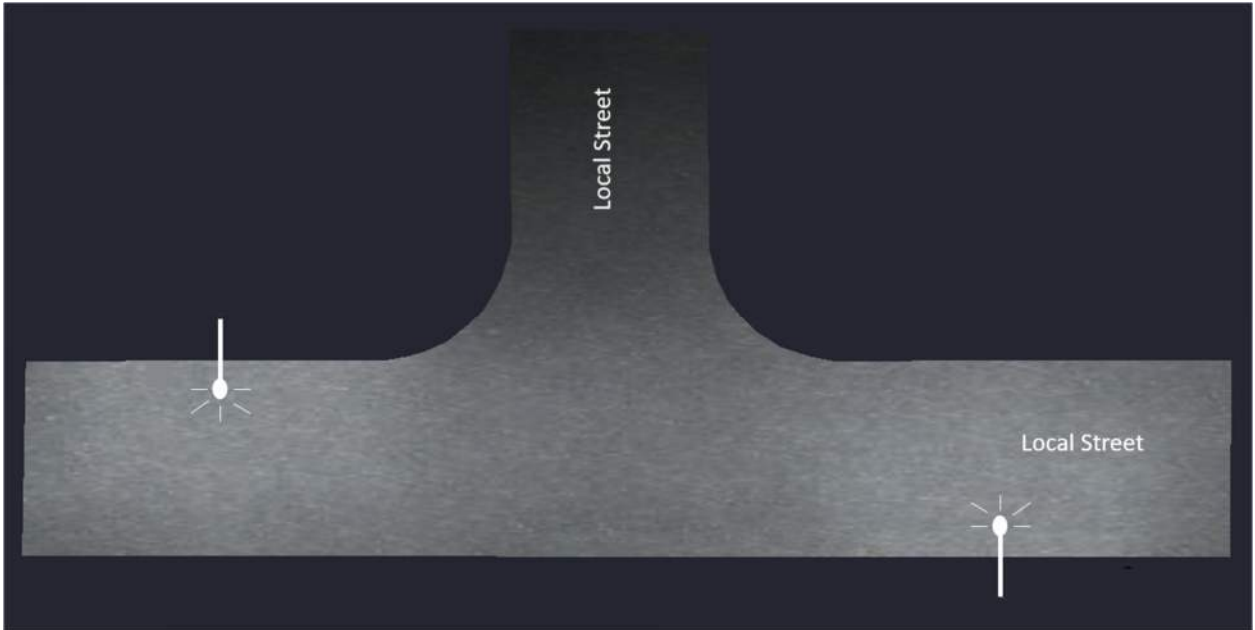


Figure 8: Rendering of T-Intersection: Local Street vs Local Street – Top View

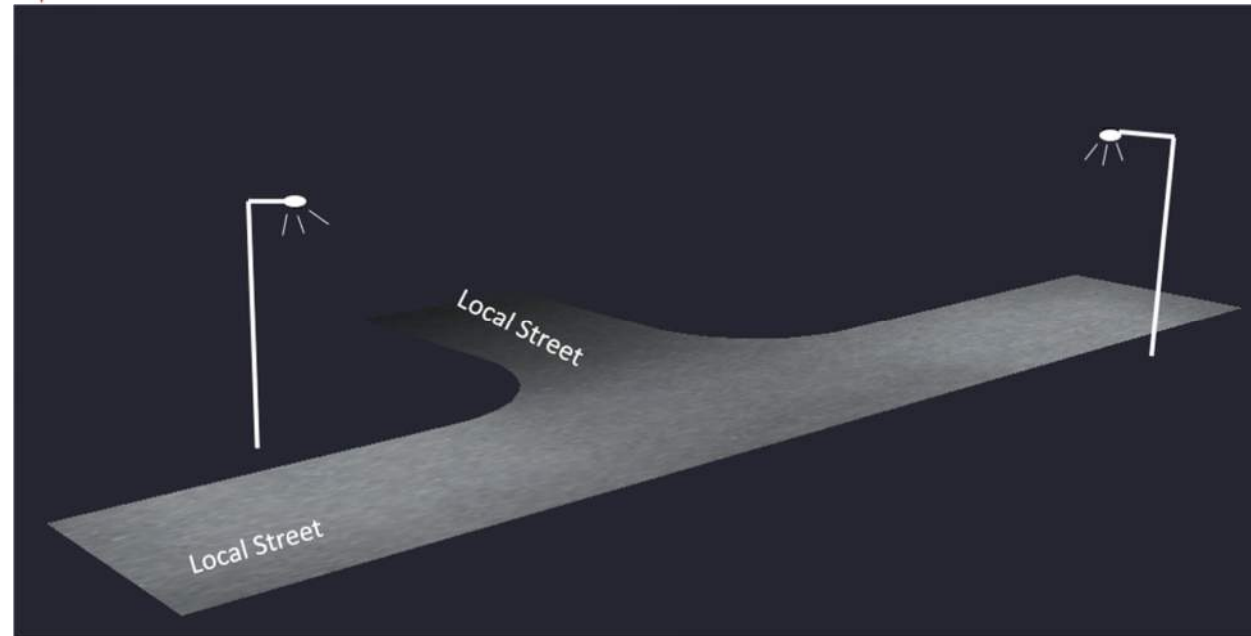


Figure 9: Rendering of T-Intersection: Local Street vs Local Street – Isometric View

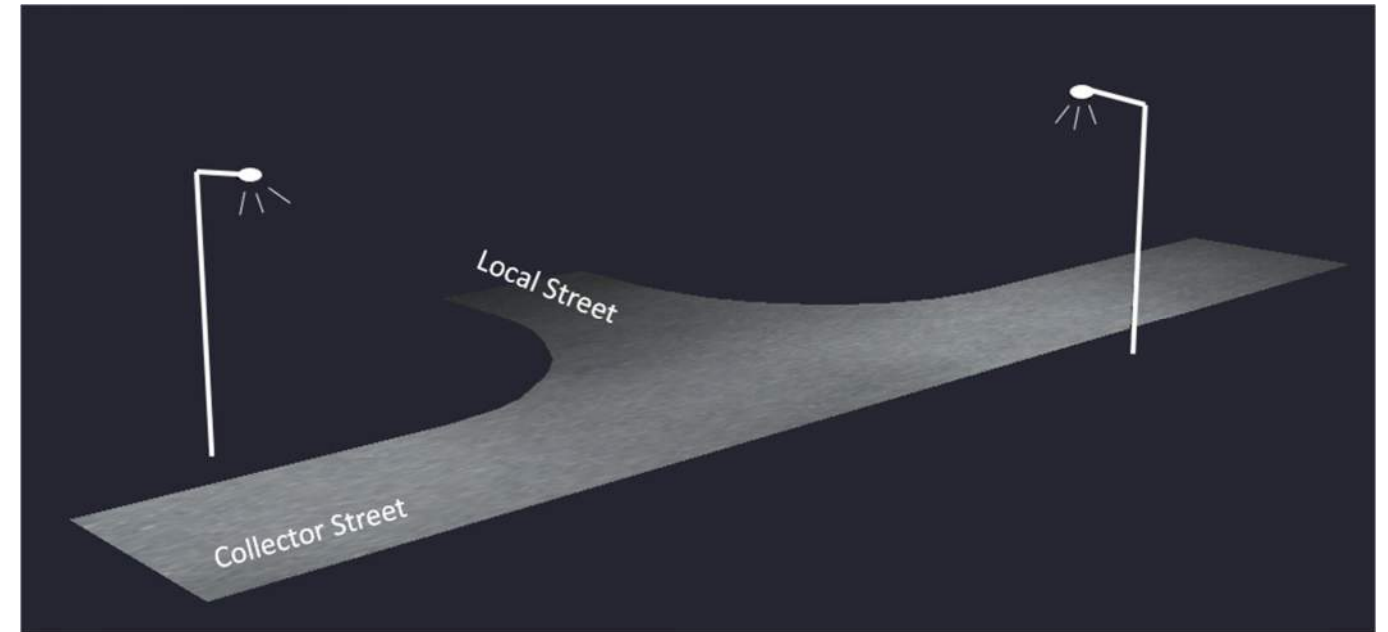


Figure 11: Rendering of T-Intersection: Local Street vs Collector Street – Isometric View

4.2.3 T-intersection: Local Street & Collector Street

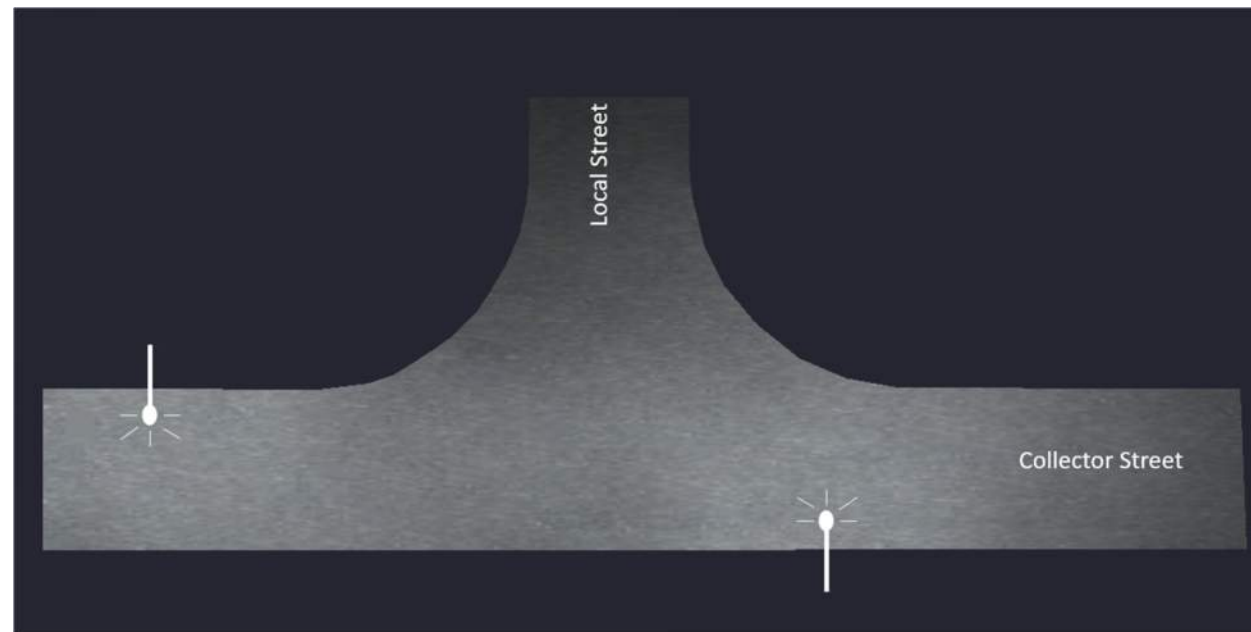


Figure 10: Rendering of T-Intersection: Local Street vs Collector Street – Top View

4.2.4 T-intersection: Local Street & Major Street

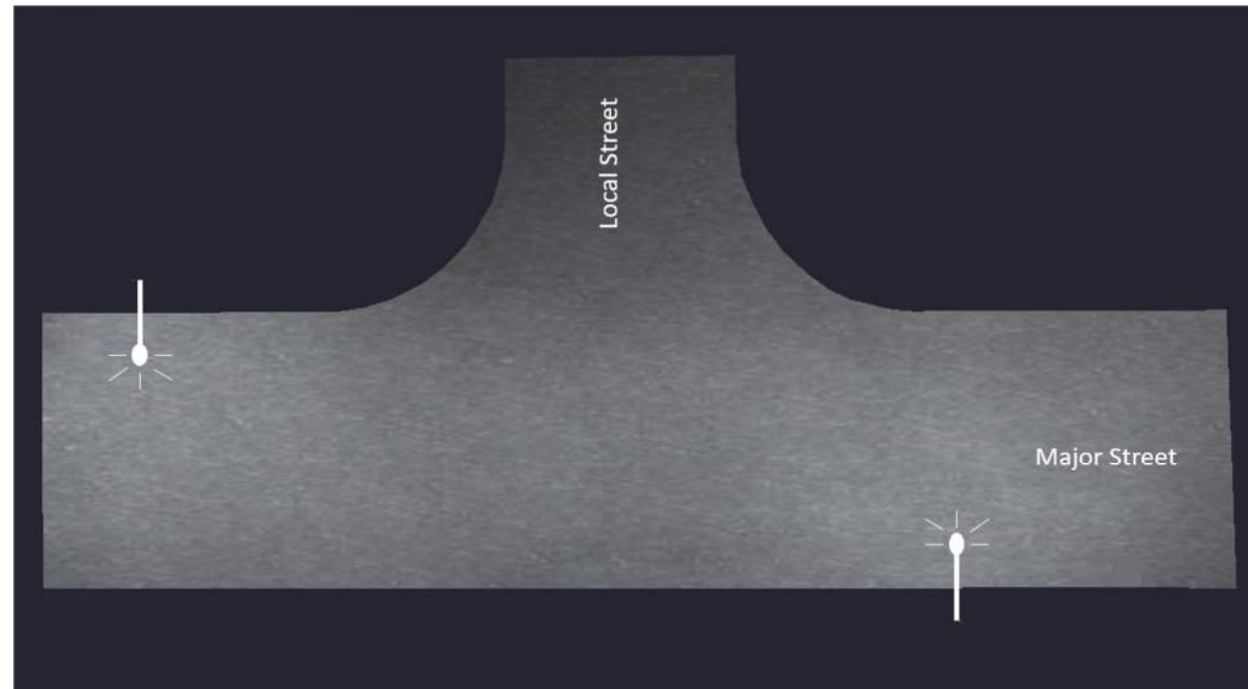


Figure 12: Rendering of T-Intersection: Local Street vs Major Street – Top View

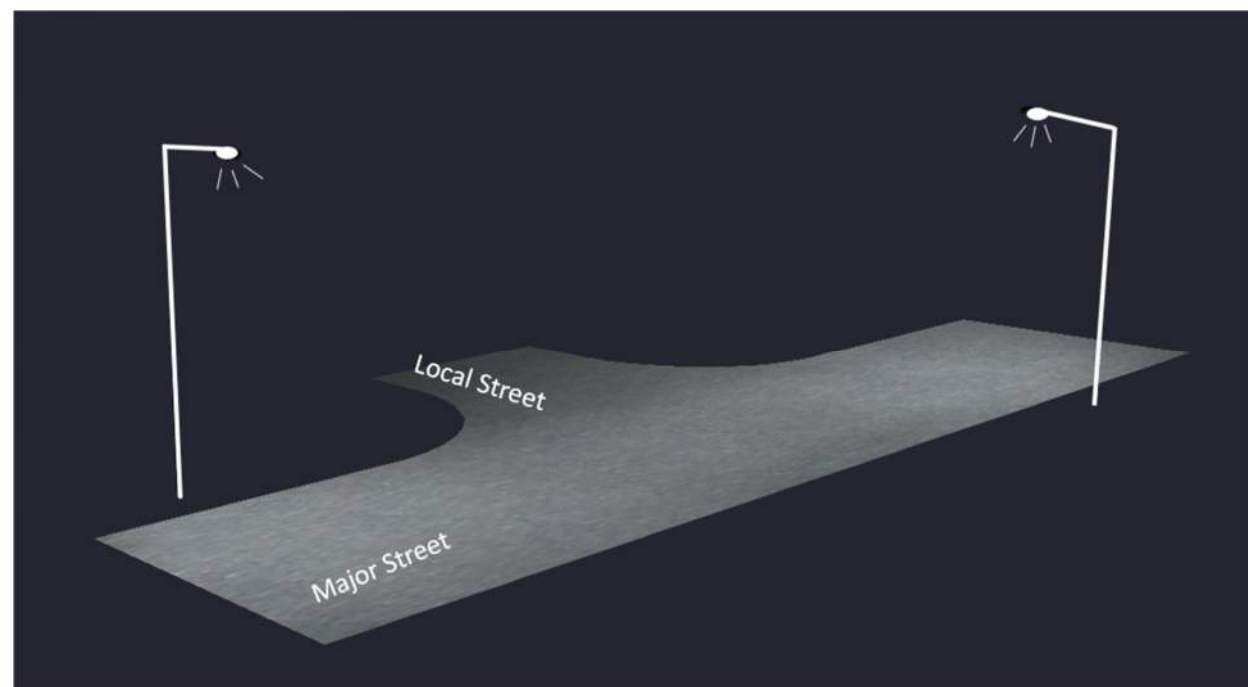


Figure 13: Rendering of T-Intersection: Local Street vs Major Street – Isometric View

4.2.5 Intersection of Local Street & Designated Trail Crossing

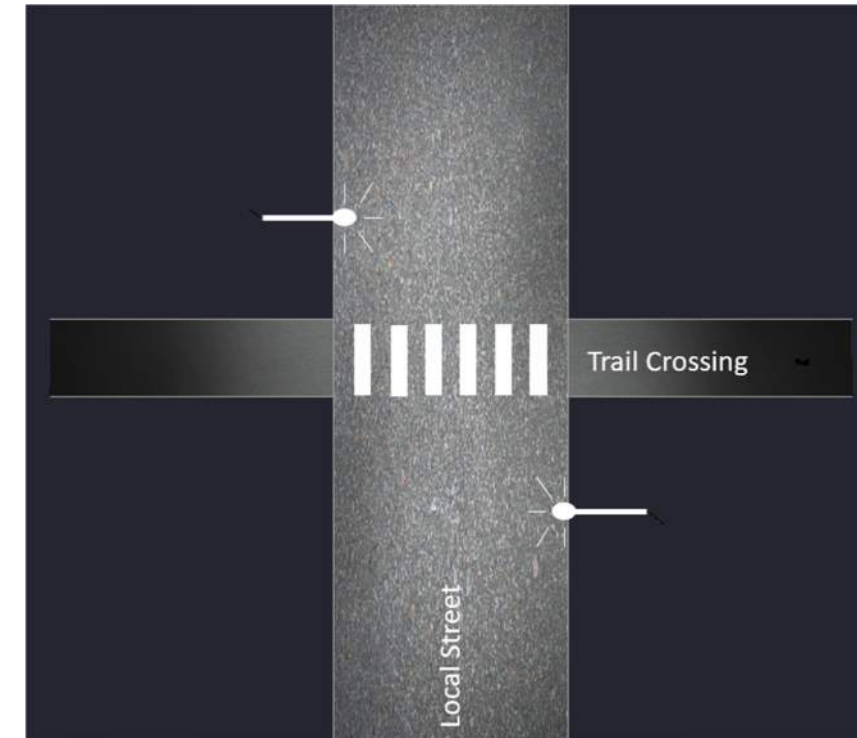


Figure 14: Rendering of Intersection of Local Street vs Designated Trail Crossing – Top View

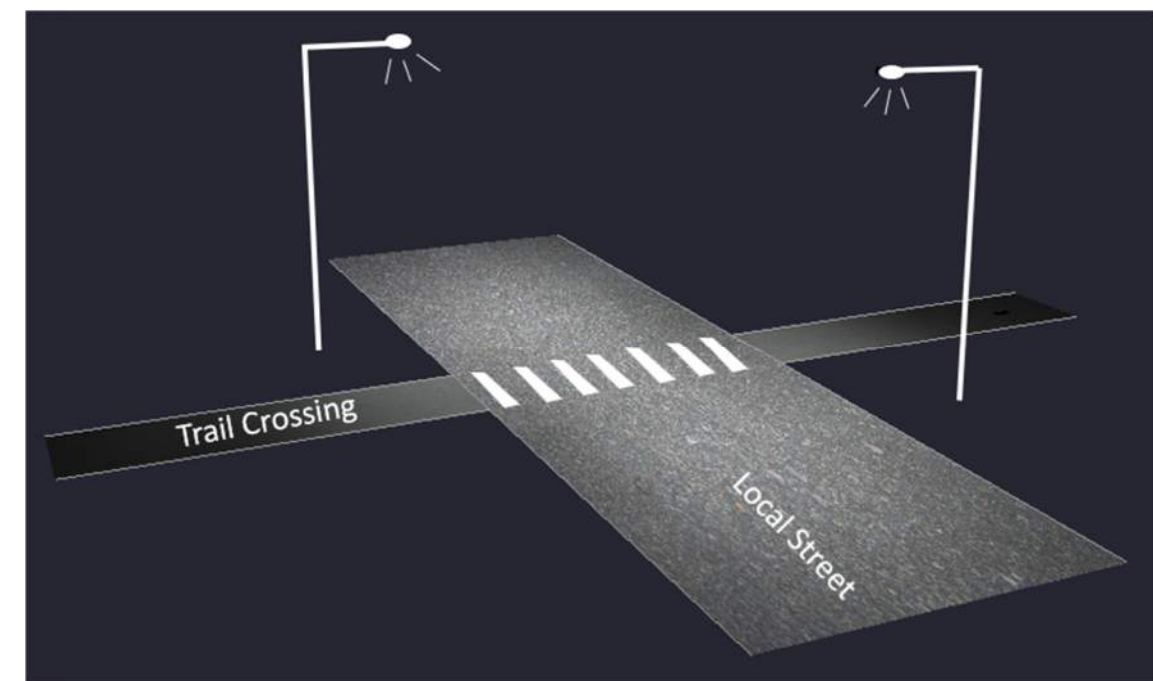


Figure 15: Rendering of Intersection of Local Street vs Designated Trail Crossing – Isometric View



5. FUTURE IMPROVEMENTS FOR CIP LIST

5.1 Short-term Improvements

The project team developed conceptual layouts for the top ten (10) prioritized lighting locations for short-term improvements. These layouts are intended for planning and high-level cost estimating purposes. The City requested the team to account for separate meter pedestal for each intersection. The team identified potential power drop locations, conducted photometric analyses, and identified locations for conduits, pull boxes, and lighting poles for the conceptual plans. The conceptual layouts are on aerial imagery and are not-to-scale. The conceptual layouts are prepared in AutoCAD format and included one (1) plan sheet per location, for a total of ten (10) plan sheets.

The team also developed planning-level cost estimates for the top 10 prioritized projects for inclusion within the City's Capital Improvement Program. The cost estimates sheets include NMDOT bid item numbers for reference. The conceptual quantities (derived from the conceptual design) also include potential right-of-way acquisition needs. The top 10 intersections' planning-level project costs are summarized below. The project summary sheets including project scope, planning-level cost, and conceptual plans are shown on Pages 12 through 31.

- ❖ **Prioritized Intersection #1:** Manzano Expressway and Hillandale Avenue - \$81,500
 - Refer to Page 12 to 13 for detailed information
- ❖ **Prioritized Intersection #2:** Rio Communities Boulevard and De Haan Loop - \$75,500
 - Refer to Page 14 to 15 for detailed information
- ❖ **Prioritized Intersection #3:** Goodman Avenue and Damon Street - \$84,000
 - Refer to Page 16 to 17 for detailed information
- ❖ **Prioritized Intersection #4:** Goodman Avenue and Hillman Street - \$79,500
 - Refer to Page 18 to 19 for detailed information
- ❖ **Prioritized Intersection #5:** Horner Street and Hillandale Avenue - \$78,000
 - Refer to Page 20 to 21 for detailed information
- ❖ **Prioritized Intersection #6:** Horner Street and Walking Trail - \$90,500
 - Refer to Page 22 to 23 for detailed information
- ❖ **Prioritized Intersection #7:** Horner Street and Kaghan Loop Drive/Suncrest Boulevard - \$124,500
 - Refer to Page 24 to 25 for detailed information
- ❖ **Prioritized Intersection #8:** Kaghan Loop Drive and Trailhead - \$104,000
 - Refer to Page 26 to 27 for detailed information
- ❖ **Prioritized Intersection #9:** Horner Street and Goodman Avenue - \$79,000
 - Refer to Page 28 to 29 for detailed information
- ❖ **Prioritized Intersection #10:** Nancy Lopez Boulevard and Lee Trevino Boulevard - \$141,000
 - Refer to Page 30 to 31 for detailed information

5.2 Long-term Improvements

The project team identified a total of 38 intersections for safety-related street lighting improvements. The top 10 intersections were identified as short-term improvements. The remaining 28 intersections were identified for long-term improvements:

- ❖ SR47 & Nancy Lopez Boulevard
- ❖ Nancy Lopez Boulevard & Frederico Boulevard
- ❖ Horizon Vista Boulevard & Western Drive
- ❖ SR304 & Chisum Trail
- ❖ SR47 & Horner Street
- ❖ Hillandale Avenue & Walking Trail
- ❖ SR47 & Montano Court
- ❖ Horner Street & Damon Street
- ❖ Lee Trevino Drive & Brown Drive
- ❖ Lee Trevino Drive & Jack Nicklaus Drive
- ❖ Frederico Boulevard & January Drive
- ❖ Frederico Boulevard & Brown Drive
- ❖ Manzano Expressway & De Haan Loop
- ❖ San Lucas Avenue & Lee Trevino Drive
- ❖ Brown Drive & Palmer Lane
- ❖ San Lucas Avenue & Nancy Lopez Boulevard
- ❖ Don Diego Road & Kaghan Loop
- ❖ Horizon Vista Boulevard & Rio Communities Way
- ❖ Hillandale Avenue & Olson Street
- ❖ Hillandale Avenue & Moraga Street
- ❖ Kaghan Loop & Potential Park Location
- ❖ Pageant Street & Potential Park Location
- ❖ Logan Street & Trail head
- ❖ Moraga Street & Trail head
- ❖ Nash Street & Trail head
- ❖ Norma Street & Trail head
- ❖ Olson Street & Trail head
- ❖ Macy Court & Trail Head

Figure 16 on Page 32 shows the intersections for long-term improvements.



PROJECT SHEET:
Rio Communities Streetlight Project # 1 – Manzano Expressway and Hillandale Avenue

Project ID:
Streetlight Project #1 - Manzano Expressway and Hillandale Avenue
Project Location:
Intersection of Manzano Expressway and Hillandale Avenue
Project Budget:
\$89,000.00
Responsible for Maintenance:
City of Rio Communities
Project Description:
Streetlights are being installed to improve the overall safety and functionality of the intersection.
Project Scope:
Project includes design and installation of the following items: • 2 Luminaire Poles (Type V Standard, 30') • 2 LED Luminaires • 2 Light Pole Foundations • 6 Electrical Pull Box (Standard) • 1 Meter Pedestal • 355 LF of Rigid Electrical Conduit • 1,215 LF of Single Conductor 10 Wiring

Streetlight Project #1 - Manzano Expressway and Hillandale Avenue					
NMDOT	SHORT DESCRIPTION	UNIT	ESTIMATE	ESTIMATE	ESTIMATE
ITEM NO.			UNIT PRICE	QUANTITY	AMOUNT
502030	DRILLED SHAFT FOUNDATION 30" DIAMETER	L.F.	\$200.00	12.00	\$2,400.00
540060	REINFORCING BARS GRADE 60	LB	\$2.60	306.00	\$795.60
511000	STRUCTURAL CONCRETE, CLASS A	CY	\$1,125.00	8.60	\$9,675.00
706210	METER PEDESTAL (LIGHTING)	EACH	\$8,500.00	1.00	\$8,500.00
706350	POWER SERVICE INSTALLATION	EACH	\$5,000.00	1.00	\$5,000.00
707540	TYPE V STANDARD, 30'	EACH	\$4,000.00	2.00	\$8,000.00
709020	RIGID ELECTRICAL CONDUIT 2" (DIA.)	L.F.	\$12.72	355.00	\$4,515.60
710000	ELECTRICAL PULL BOX (STANDARD)	EACH	\$640.00	6.00	\$3,840.00
711110	SINGLE CONDUCTOR 10	L.F.	\$1.50	1,215.00	\$1,822.50
716701	LED ROADWAY LUMINAIRE	EACH	\$750.00	2.00	\$1,500.00
621000	MOBILIZATION	LS	\$2,500.00	1.00	\$2,500.00
618000	TRAFFIC CONTROL	LS	\$1,000.00	1.00	\$1,000.00
SUBTOTAL					\$49,548.70
CONTINGENCY			25%		\$12,387.18
COVID INFLATION			15%		\$7,432.31
TOTAL					\$69,368.18
SURVEY					\$3,000.00
DESIGN					\$10,000.00
TOTAL					\$82,368.18
NEW MEXICO TAX			7.9375%		\$6,537.97
FINAL TOTAL (ROUNDED)					\$89,000.00



LEGEND	
	LUMINAIRE POLE
	PULL BOX
	CONDUIT
	LIGHTING METER (MP#)
	POTENTIAL POWER DROP LOCATION (PD#)
	INTERSECTION LOCATION



GENERAL NOTE:
LUMINAIRE POLES ARE TO BE PLACED APPROXIMATELY 7 FEET FROM EDGE OF PAVEMENT OR APPROXIMATELY 1.5 FEET FROM BACK OF SIDEWALK, IF SIDEWALK EXISTS.

PRELIMINARY PLAN
NOT FOR
CONSTRUCTION



2155 LOUISIANA BLVD NE
SUITE 9500
ALBUQUERQUE, NM 87110
(505) 830-5400

MARK	DATE	DESCRIPTION	BY

EXHIBIT / CONCEPTUAL PLAN
RIO COMMUNITIES
STREETLIGHT SAFETY PLAN

DESIGNED: MCS	MANZANO EXPY & HILDALE AVE INTERSECTION LIGHTING LAYOUT RIO COMMUNITIES, NM	DATE: 04/2022
DRAWN: SD		
CHECKED: SP		
SCALE: NTS		

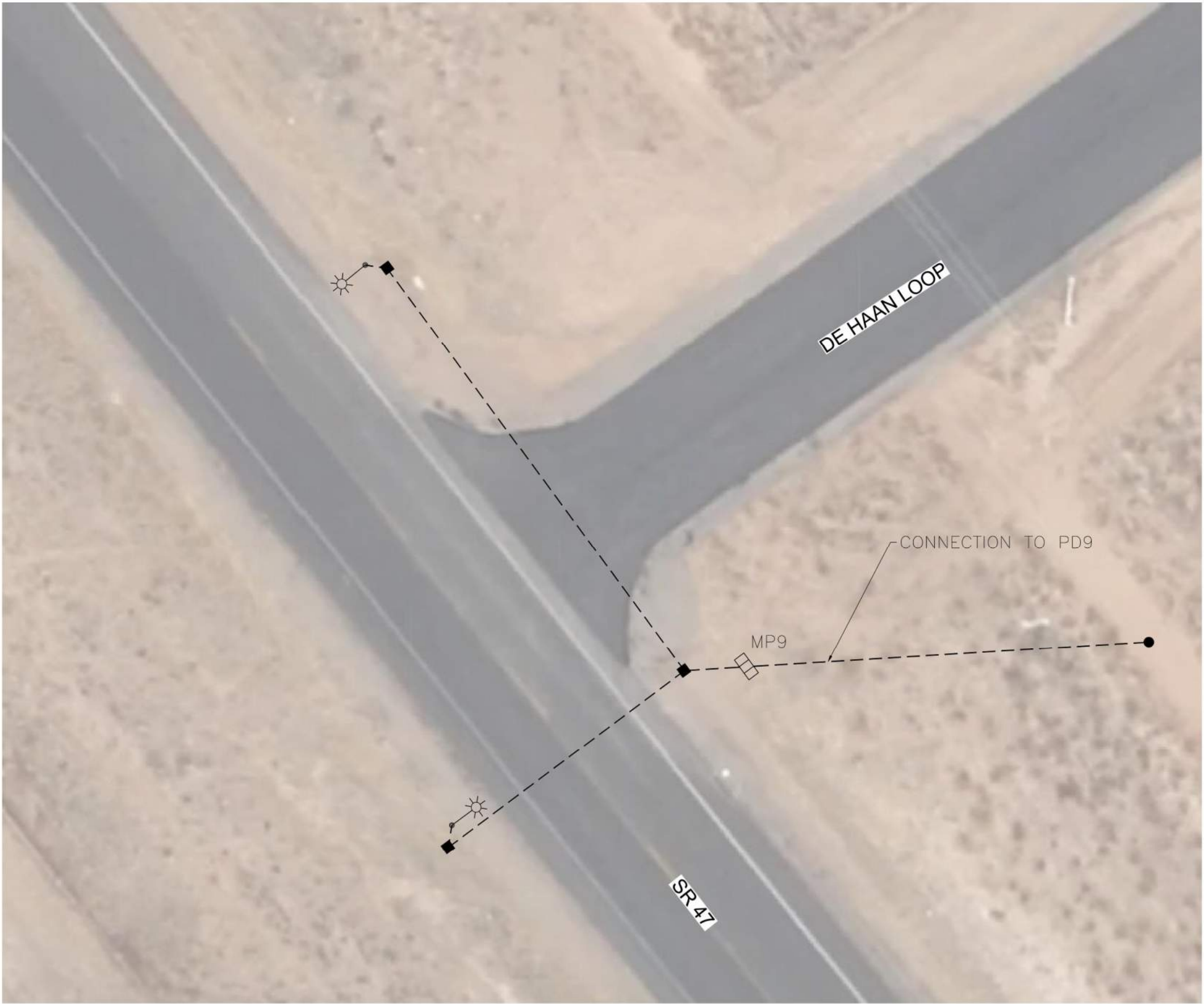
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Drawing Name: 1033160376_01_CAD_BIM_76_2_MP_Rio_Communities_Intersection_Enrich.dwg



PROJECT SHEET:
Rio Communities Streetlight Project # 2 – SR 47 and De Haan Loop

Project ID: Streetlight Project #2 - SR 47 and De Haan Loop
Project Location: Intersection of SR 47 and De Haan Loop
Project Budget: \$83,000.00
Responsible for Maintenance: City of Rio Communities
Project Description: Streetlights are being installed to improve the overall safety and functionality of the intersection.
Project Scope: Project includes design and installation of the following items: • 2 Luminaire Poles (Type V Standard, 30') • 2 LED Luminaires • 2 Light Pole Foundations • 3 Electrical Pull Box (Standard) • 1 Meter Pedestal • 233 LF of Rigid Electrical Conduit • 849 LF of Single Conductor 10 Wiring

Streetlight Project #2 - SR 47 and De Haan Loop					
NMDOT	SHORT DESCRIPTION	UNIT	ESTIMATE	ESTIMATE	ESTIMATE
ITEM NO.			UNIT PRICE	QUANTITY	AMOUNT
502030	DRILLED SHAFT FOUNDATION 30" DIAMETER	L.F.	\$200.00	12	\$2,400.00
540060	REINFORCING BARS GRADE 60	LB	\$2.60	306	\$795.60
511000	STRUCTURAL CONCRETE, CLASS A	CY	\$1,125.00	8.6	\$9,675.00
706210	METER PEDESTAL (LIGHTING)	EACH	\$8,500.00	1	\$8,500.00
706350	POWER SERVICE INSTALLATION	EACH	\$5,000.00	1	\$5,000.00
707540	TYPE V STANDARD, 30'	EACH	\$4,000.00	2	\$8,000.00
709020	RIGID ELECTRICAL CONDUIT 2" (DIA.)	L.F.	\$12.72	233	\$2,963.76
710000	ELECTRICAL PULL BOX (STANDARD)	EACH	\$640.00	3	\$1,920.00
711110	SINGLE CONDUCTOR 10	L.F.	\$1.50	849	\$1,273.50
716701	LED ROADWAY LUMINAIRE	EACH	\$750.00	2	\$1,500.00
621000	MOBILIZATION	LS	\$2,500.00	1	\$2,500.00
618000	TRAFFIC CONTROL	LS	\$1,000.00	1	\$1,000.00
SUBTOTAL					\$45,527.86
CONTINGENCY			25%		\$11,381.97
COVID INFLATION			15%		\$6,829.18
TOTAL					\$63,739.00
SURVEY					\$3,000.00
DESIGN					\$10,000.00
TOTAL					\$76,739.00
NEW MEXICO TAX			7.9375%		\$6,091.16
FINAL TOTAL (ROUNDED)					\$83,000.00



- LEGEND
- LUMINAIRE POLE
 - PULL BOX
 - CONDUIT
 - LIGHTING METER (MP#)
 - POTENTIAL POWER DROP LOCATION (PD#)
 - INTERSECTION LOCATION



GENERAL NOTE:
LUMINAIRE POLES ARE TO BE PLACED APPROXIMATELY 7 FEET FROM EDGE OF PAVEMENT OR APPROXIMATELY 1.5 FEET FROM BACK OF SIDEWALK, IF SIDEWALK EXISTS.

PRELIMINARY PLAN NOT FOR CONSTRUCTION		 2155 LOUISIANA BLVD NE SUITE 9500 ALBUQUERQUE, NM 87110 (505) 830-5400	
MARK	DATE	DESCRIPTION	BY
EXHIBIT / CONCEPTUAL PLAN			
RIO COMMUNITIES STREETLIGHT SAFETY PLAN			
DESIGNED:	MCS	SR 47 & DE HAAN LOOP INTERSECTION LIGHTING LAYOUT RIO COMMUNITIES, NM	DATE: 04/2022
DRAWN:	SD		
CHECKED:	SP		
SCALE:	NTS		

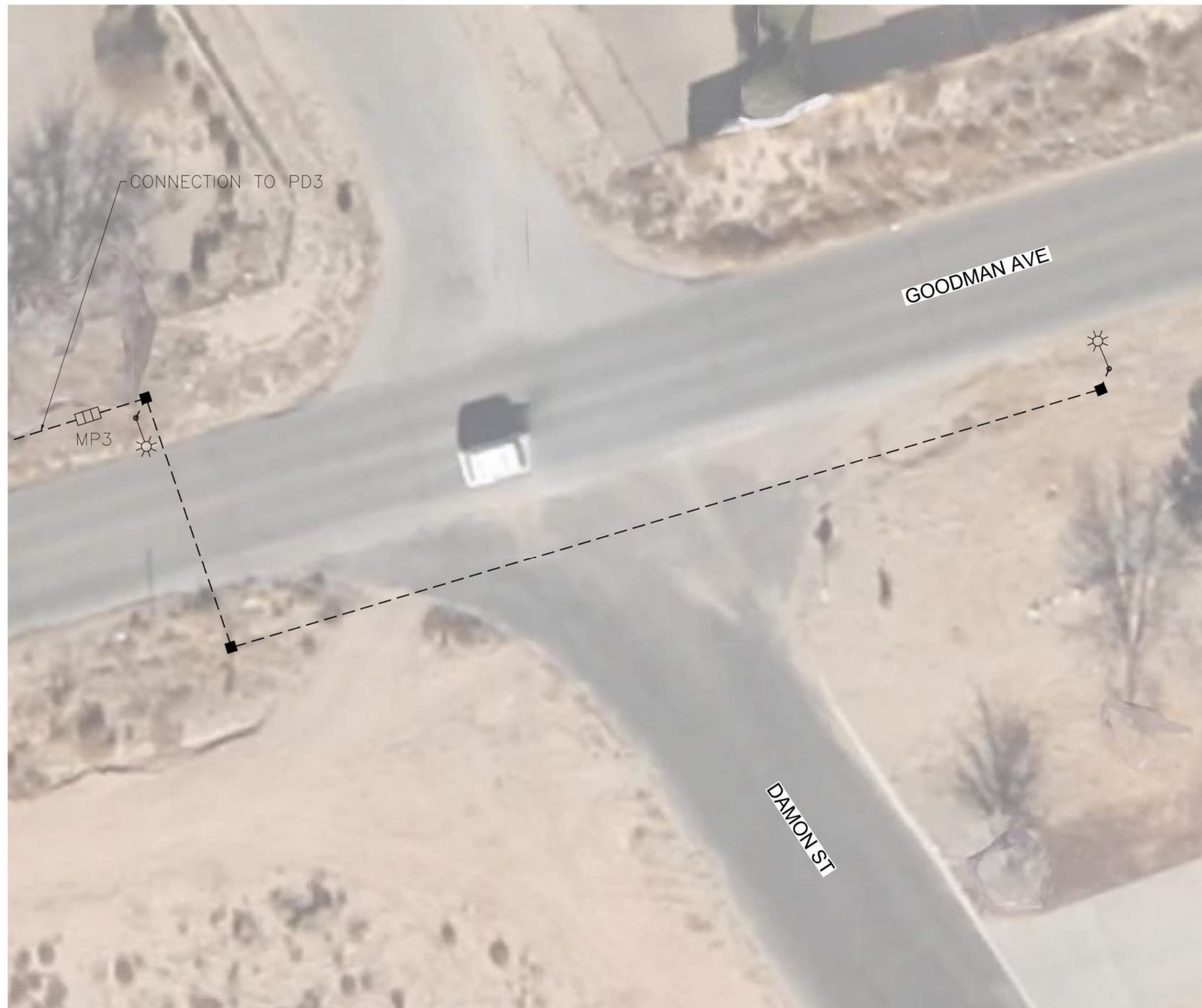
D:\01_22_Mar_2022 - 3:56pm User: BOCY
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PROJECT SHEET:
Rio Communities Streetlight Project # 3 – Goodman Avenue and Damon Street

Project ID: Streetlight Project #3 - Goodman Avenue and Damon Street
Project Location: Intersection of Goodman Avenue and Damon Street
Project Budget: \$91,500.00
Responsible for Maintenance: City of Rio Communities
Project Description: Streetlights are being installed to improve the overall safety and functionality of the intersection.
Project Scope: Project includes design and installation of the following items: • 2 Luminaire Poles (Type V Standard, 30') • 2 LED Luminaires • 2 Light Pole Foundations • 3 Electrical Pull Box (Standard) • 1 Meter Pedestal • 560 LF of Rigid Electrical Conduit • 1,830 LF of Single Conductor 10 Wiring

Streetlight Project #3 - Goodman Avenue and Damon Street					
NMDOT	SHORT DESCRIPTION	UNIT	ESTIMATE	ESTIMATE	ESTIMATE
ITEM NO.			UNIT PRICE	QUANTITY	AMOUNT
502030	DRILLED SHAFT FOUNDATION 30" DIAMETER	L.F.	\$200.00	12	\$2,400.00
540060	REINFORCING BARS GRADE 60	LB	\$2.60	306	\$795.60
511000	STRUCTURAL CONCRETE, CLASS A	CY	\$1,125.00	8.6	\$9,675.00
706210	METER PEDESTAL (LIGHTING)	EACH	\$8,500.00	1	\$8,500.00
706350	POWER SERVICE INSTALLATION	EACH	\$5,000.00	1	\$5,000.00
707540	TYPE V STANDARD, 30'	EACH	\$4,000.00	2	\$8,000.00
709020	RIGID ELECTRICAL CONDUIT 2" (DIA.)	L.F.	\$12.72	560	\$7,123.20
710000	ELECTRICAL PULL BOX (STANDARD)	EACH	\$640.00	3	\$1,920.00
711110	SINGLE CONDUCTOR 10	L.F.	\$1.50	1830	\$2,745.00
716701	LED ROADWAY LUMINAIRE	EACH	\$750.00	2	\$1,500.00
621000	MOBILIZATION	LS	\$2,500.00	1	\$2,500.00
618000	TRAFFIC CONTROL	LS	\$1,000.00	1	\$1,000.00
SUBTOTAL					\$51,158.80
CONTINGENCY			25%		\$12,789.70
COVID INFLATION			15%		\$7,673.82
TOTAL					\$71,622.32
SURVEY					\$3,000.00
DESIGN					\$10,000.00
TOTAL					\$84,622.32
NEW MEXICO TAX			7.9375%		\$6,716.90
FINAL TOTAL (ROUNDED)					\$91,500.00



Date: 22 Mar 2022 - 3:55pm User: 5DEY
Drawing Name: 10.331609/6.0 CAD_BIM/6.2_WP/Rio_Communities_Intersection_Exhibit.dwg

LEGEND

- | | |
|---|-------------------------------------|
|  | LUMINAIRE POLE |
|  | PULL BOX |
|  | CONDUIT |
|  | LIGHTING METER (MP#) |
|  | POTENTIAL POWER DROP LOCATION (PD#) |
|  | INTERSECTION LOCATION |

KEY MAP



GENERAL NOTE:
LUMINAIRE POLES ARE TO BE PLACED APPROXIMATELY 7 FEET FROM EDGE OF PAVEMENT OR APPROXIMATELY 1.5 FEET FROM BACK OF SIDEWALK, IF SIDEWALK EXISTS.

PRELIMINARY PLAN
NOT FOR
CONSTRUCTION



2155 LOUISIANA BLVD NE
SUITE 9500
ALBUQUERQUE, NM 87110
(505) 830-5400

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EXHIBIT / CONCEPTUAL PLAN
RIO COMMUNITIES
STREETLIGHT SAFETY PLAN

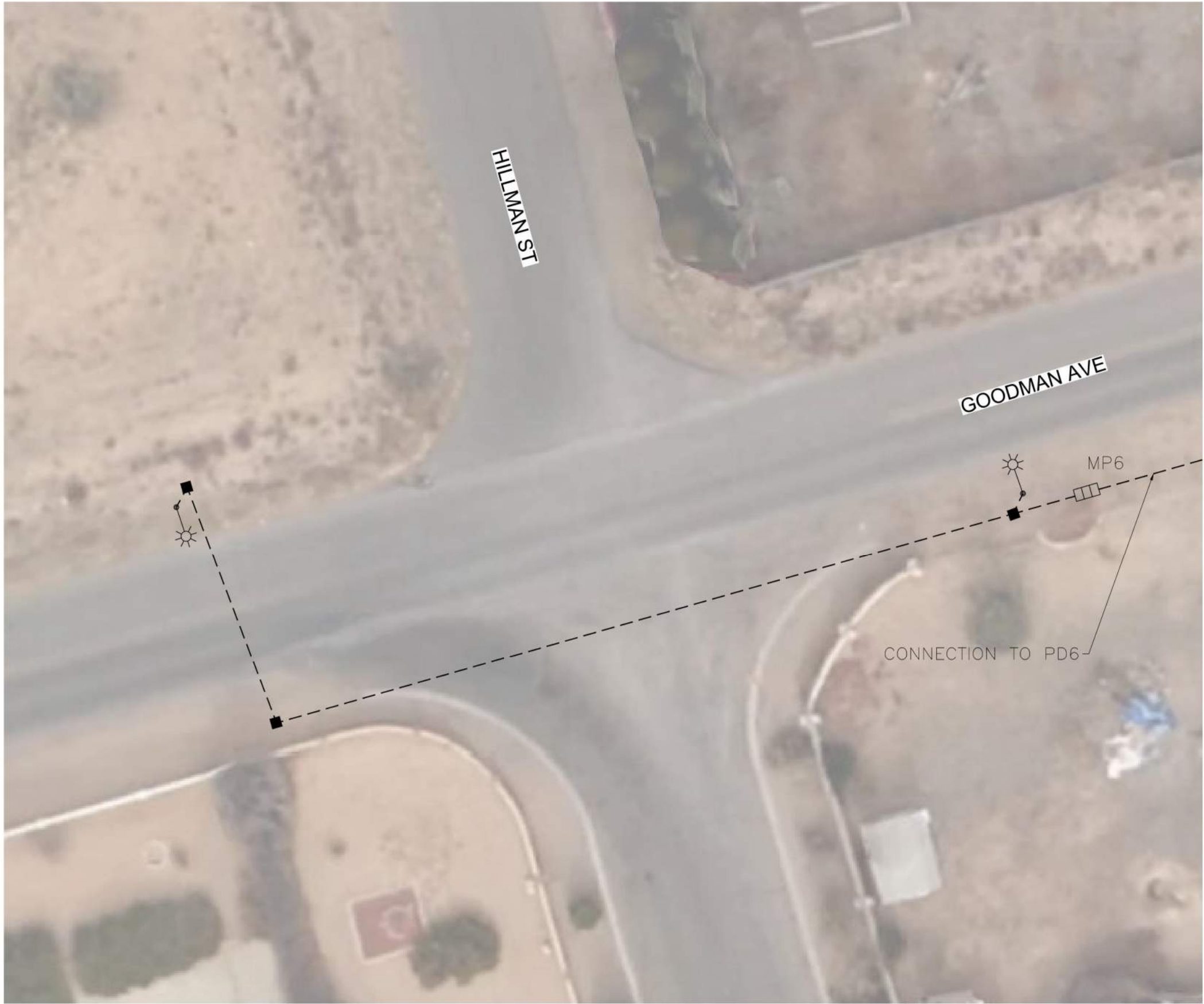
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DRAWN: SD		
CHECKED: SP		
SCALE: NTS		



PROJECT SHEET:
Rio Communities Streetlight Project # 4 – Goodman Avenue and Hillman Street

Project ID: Streetlight Project #4 - Goodman Avenue and Hillman Street
Project Location: Intersection of Goodman Avenue and Hillman Street
Project Budget: \$87,000.00
Responsible for Maintenance: City of Rio Communities
Project Description: Streetlights are being installed to improve the overall safety and functionality of the intersection.
Project Scope: Project includes design and installation of the following items: • 2 Luminaire Poles (Type V Standard, 30') • 2 LED Luminaires • 2 Light Pole Foundations • 3 Electrical Pull Box (Standard) • 1 Meter Pedestal • 380 LF of Rigid Electrical Conduit • 1,290 LF of Single Conductor 10 Wiring

Streetlight Project #4 - Goodman Avenue and Hillman Street					
NMDOT	SHORT DESCRIPTION	UNIT	ESTIMATE	ESTIMATE	ESTIMATE
ITEM NO.			UNIT PRICE	QUANTITY	AMOUNT
502030	DRILLED SHAFT FOUNDATION 30" DIAMETER	L.F.	\$200.00	12	\$2,400.00
540060	REINFORCING BARS GRADE 60	LB	\$2.60	306	\$795.60
511000	STRUCTURAL CONCRETE, CLASS A	CY	\$1,125.00	8.6	\$9,675.00
706210	METER PEDESTAL (LIGHTING)	EACH	\$8,500.00	1	\$8,500.00
706350	POWER SERVICE INSTALLATION	EACH	\$5,000.00	1	\$5,000.00
707540	TYPE V STANDARD, 30'	EACH	\$4,000.00	2	\$8,000.00
709020	RIGID ELECTRICAL CONDUIT 2" (DIA.)	L.F.	\$12.72	380	\$4,833.60
710000	ELECTRICAL PULL BOX (STANDARD)	EACH	\$640.00	3	\$1,920.00
711110	SINGLE CONDUCTOR 10	L.F.	\$1.50	1290	\$1,935.00
716701	LED ROADWAY LUMINAIRE	EACH	\$750.00	2	\$1,500.00
621000	MOBILIZATION	LS	\$2,500.00	1	\$2,500.00
618000	TRAFFIC CONTROL	LS	\$1,000.00	1	\$1,000.00
SUBTOTAL					\$48,059.20
CONTINGENCY			25%		\$12,014.80
COVID INFLATION			15%		\$7,208.88
TOTAL					\$67,282.88
SURVEY					\$3,000.00
DESIGN					\$10,000.00
TOTAL					\$80,282.88
NEW MEXICO TAX			7.9375%		\$6,372.45
FINAL TOTAL (ROUNDED)					\$87,000.00



LEGEND

- LUMINAIRE POLE
- PULL BOX
- CONDUIT
- LIGHTING METER (MP#)
- POTENTIAL POWER DROP LOCATION (PD#)
- INTERSECTION LOCATION

KEY MAP



GENERAL NOTE:
LUMINAIRE POLES ARE TO BE PLACED APPROXIMATELY 7 FEET FROM EDGE OF PAVEMENT OR APPROXIMATELY 1.5 FEET FROM BACK OF SIDEWALK, IF SIDEWALK EXISTS.

PRELIMINARY PLAN
NOT FOR
CONSTRUCTION



2155 LOUISIANA BLVD NE
SUITE 9500
ALBUQUERQUE, NM 87110
(505) 830-5400

MARK	DATE	DESCRIPTION	BY

EXHIBIT / CONCEPTUAL PLAN

RIO COMMUNITIES
STREETLIGHT SAFETY PLAN

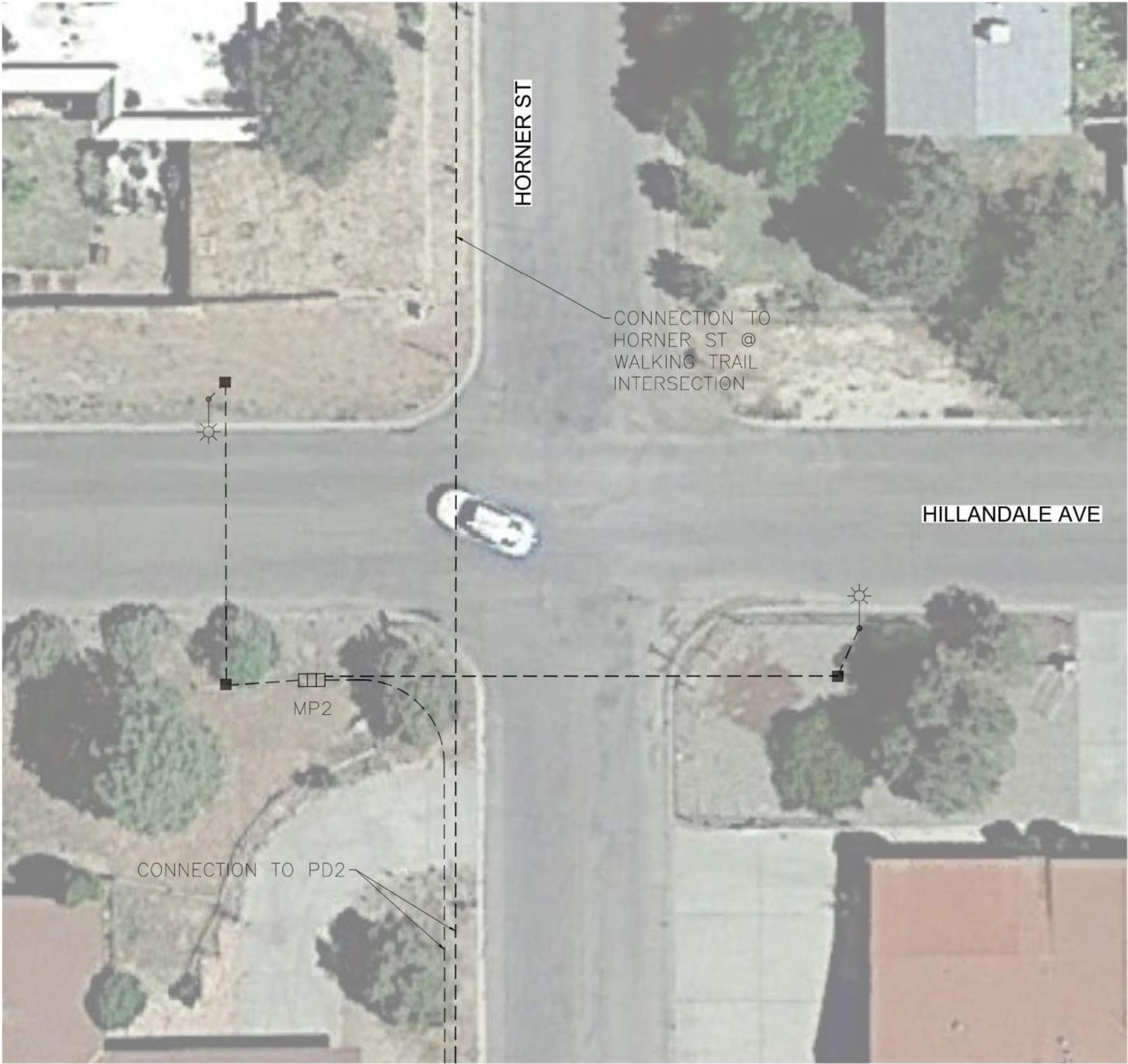
DESIGNED: MCS	GOODMAN AVE & HILLMAN ST INTERSECTION LIGHTING LAYOUT RIO COMMUNITIES, NM	DATE: 04/2022
DRAWN: SD		
CHECKED: SP		
SCALE: NTS		

Date: 22 Mar 2022 - 3:55pm User: SDCY
Drawing Name: 1333103761_0_242_BM/PL_2_MP/PL_Communities_Intersection_Exhibits.dwg

**PROJECT SHEET:****Rio Communities Streetlight Project # 5 – Horner Street and Hillandale Avenue**

Project ID: Streetlight Project #5 - Horner Street and Hillandale Avenue
Project Location: Intersection of Horner Street and Hillandale Avenue
Project Budget: \$85,500.00
Responsible for Maintenance: City of Rio Communities
Project Description: Streetlights are being installed to improve the overall safety and functionality of the intersection.
Project Scope: Project includes design and installation of the following items: • 2 Luminaire Poles (Type V Standard, 30') • 2 LED Luminaires • 2 Light Pole Foundations • 3 Electrical Pull Box (Standard) • 1 Meter Pedestal • 320 LF of Rigid Electrical Conduit • 1,110 LF of Single Conductor 10 Wiring

Streetlight Project #5 - Horner Street and Hillandale Avenue					
NMDOT	SHORT DESCRIPTION	UNIT	ESTIMATE	ESTIMATE	ESTIMATE
ITEM NO.			UNIT PRICE	QUANTITY	AMOUNT
502030	DRILLED SHAFT FOUNDATION 30" DIAMETER	L.F.	\$200.00	12	\$2,400.00
540060	REINFORCING BARS GRADE 60	LB	\$2.60	306	\$795.60
511000	STRUCTURAL CONCRETE, CLASS A	CY	\$1,125.00	8.6	\$9,675.00
706210	METER PEDESTAL (LIGHTING)	EACH	\$8,500.00	1	\$8,500.00
706350	POWER SERVICE INSTALLATION	EACH	\$5,000.00	1	\$5,000.00
707540	TYPE V STANDARD, 30'	EACH	\$4,000.00	2	\$8,000.00
709020	RIGID ELECTRICAL CONDUIT 2" (DIA.)	L.F.	\$12.72	320	\$4,070.40
710000	ELECTRICAL PULL BOX (STANDARD)	EACH	\$640.00	3	\$1,920.00
711110	SINGLE CONDUCTOR 10	L.F.	\$1.50	1110	\$1,665.00
716701	LED ROADWAY LUMINAIRE	EACH	\$750.00	2	\$1,500.00
621000	MOBILIZATION	LS	\$2,500.00	1	\$2,500.00
618000	TRAFFIC CONTROL	LS	\$1,000.00	1	\$1,000.00
SUBTOTAL					\$47,026.00
CONTINGENCY			25%		\$11,756.50
COVID INFLATION			15%		\$7,053.90
TOTAL					\$65,836.40
SURVEY					\$3,000.00
DESIGN					\$10,000.00
TOTAL					\$78,836.40
NEW MEXICO TAX			7.9375%		\$6,257.64
FINAL TOTAL (ROUNDED)					\$85,500.00



LEGEND

- LUMINAIRE POLE
- PULL BOX
- CONDUIT
- LIGHTING METER (MP#)
- POTENTIAL POWER DROP LOCATION (PD#)
- INTERSECTION LOCATION

KEY MAP



GENERAL NOTE:
LUMINAIRE POLES ARE TO BE PLACED APPROXIMATELY 7 FEET FROM EDGE OF PAVEMENT OR APPROXIMATELY 1.5 FEET FROM BACK OF SIDEWALK, IF SIDEWALK EXISTS.

PRELIMINARY PLAN
NOT FOR
CONSTRUCTION



2155 LOUISIANA BLVD NE
SUITE 9500
ALBUQUERQUE, NM 87110
(505) 830-5400

MARK	DATE	DESCRIPTION	BY

EXHIBIT / CONCEPTUAL PLAN

RIO COMMUNITIES
STREETLIGHT SAFETY PLAN

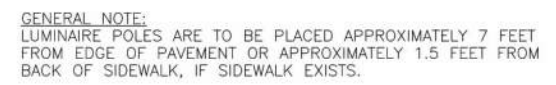
DESIGNED: MCS	HILLDALE AVE & HORNER ST INTERSECTION LIGHTING LAYOUT RIO COMMUNITIES, NM	DATE: 04/2022
DRAWN: SD		
CHECKED: SP		
SCALE: NTS		



PROJECT SHEET:
Rio Communities Streetlight Project # 6 – Horner Street and Walking Trail

Project ID: Streetlight Project #6 - Horner Street and Walking Trail
Project Location: Intersection of Horner Street and Walking Trail
Project Budget: \$98,000.00
Responsible for Maintenance: City of Rio Communities
Project Description: Streetlights are being installed to improve the overall safety and functionality of the intersection.
Project Scope: Project includes design and installation of the following items: • 2 Luminaire Poles (Type V Standard, 30') • 2 LED Luminaires • 2 Light Pole Foundations • 3 Electrical Pull Box (Standard) • 1 Meter Pedestal • 800 LF of Rigid Electrical Conduit • 2550 LF of Single Conductor 10 Wiring

Streetlight Project #6 - Horner Street and Walking Trail					
NMDOT	SHORT DESCRIPTION	UNIT	ESTIMATE	ESTIMATE	ESTIMATE
ITEM NO.			UNIT PRICE	QUANTITY	AMOUNT
502030	DRILLED SHAFT FOUNDATION 30" DIAMETER	L.F.	\$200.00	12	\$2,400.00
540060	REINFORCING BARS GRADE 60	LB	\$2.60	306	\$795.60
511000	STRUCTURAL CONCRETE, CLASS A	CY	\$1,125.00	8.6	\$9,675.00
706210	METER PEDESTAL (LIGHTING)	EACH	\$8,500.00	1	\$8,500.00
706350	POWER SERVICE INSTALLATION	EACH	\$5,000.00	1	\$5,000.00
707540	TYPE V STANDARD, 30'	EACH	\$4,000.00	2	\$8,000.00
709020	RIGID ELECTRICAL CONDUIT 2" (DIA.)	L.F.	\$12.72	800	\$10,176.00
710000	ELECTRICAL PULL BOX (STANDARD)	EACH	\$640.00	3	\$1,920.00
711110	SINGLE CONDUCTOR 10	L.F.	\$1.50	2550	\$3,825.00
716701	LED ROADWAY LUMINAIRE	EACH	\$750.00	2	\$1,500.00
621000	MOBILIZATION	LS	\$2,500.00	1	\$2,500.00
618000	TRAFFIC CONTROL	LS	\$1,000.00	1	\$1,000.00
SUBTOTAL					\$55,291.60
CONTINGENCY			25%		\$13,822.90
COVID INFLATION			15%		\$8,293.74
TOTAL					\$77,408.24
SURVEY					\$3,000.00
DESIGN					\$10,000.00
TOTAL					\$90,408.24
NEW MEXICO TAX			7.9375%		\$7,176.15
FINAL TOTAL (ROUNDED)					\$98,000.00



PRELIMINARY PLAN NOT FOR CONSTRUCTION		 2155 LOUISIANA BLVD NE SUITE 9500 ALBUQUERQUE, NM 87110 (505) 830-5400	
MARK	DATE	DESCRIPTION	BY
EXHIBIT / CONCEPTUAL PLAN			
RIO COMMUNITIES STREETLIGHT SAFETY PLAN			
DESIGNED: MCS	HORNER ST & WALKING TRAIL INTERSECTION LIGHTING LAYOUT RIO COMMUNITIES, NM		DATE: 04/2022
DRAWN: SD			
CHECKED: SP			
SCALE: NTS			

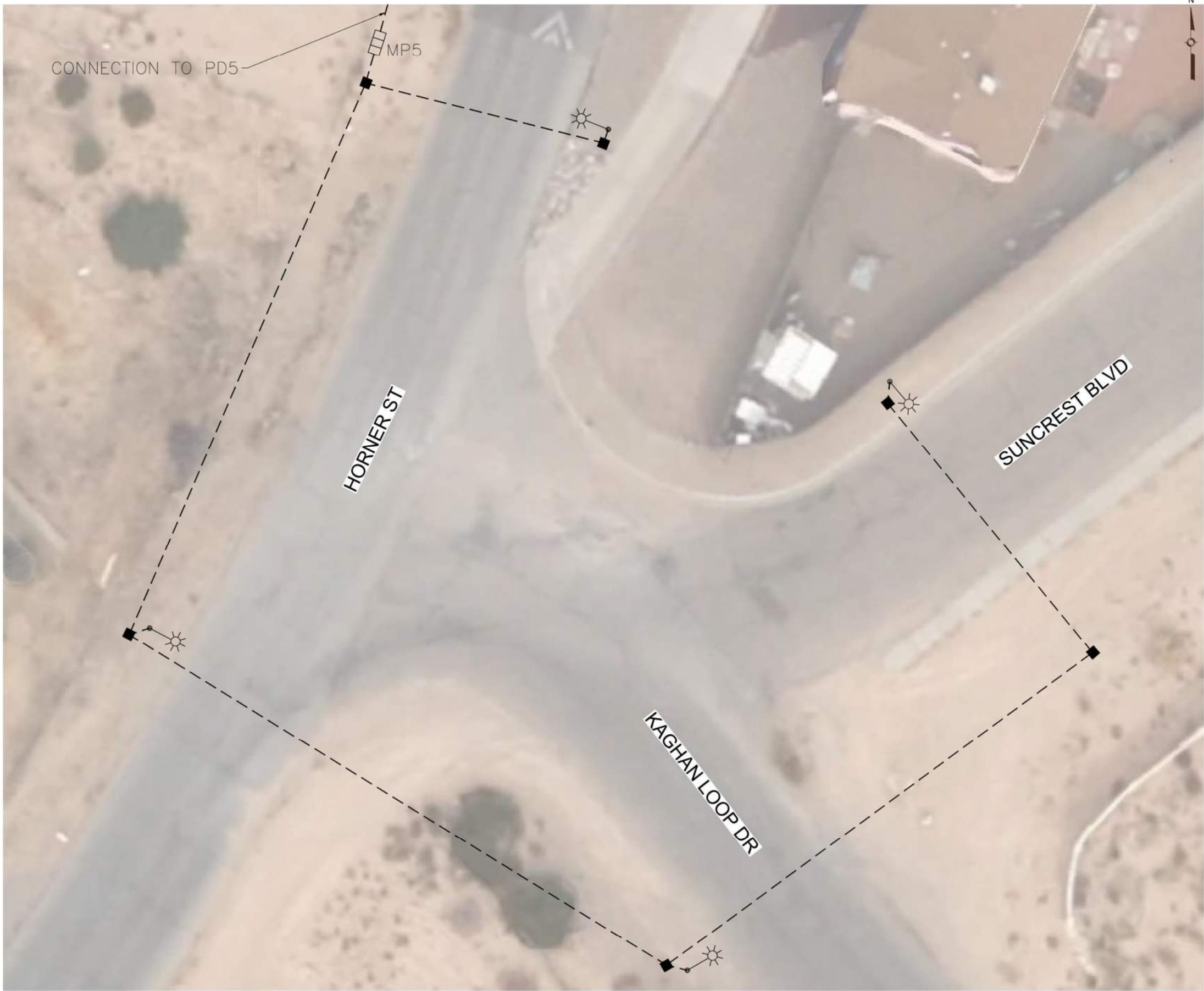


PROJECT SHEET:
Rio Communities Streetlight Project # 7 – Horner Street and Kaghan Loop Drive

Project ID: Streetlight Project #7 - Horner Street and Kaghan Loop Drive
Project Location: Intersection of Horner Street and Kaghan Loop Drive
Project Budget: \$132,000.00
Responsible for Maintenance: City of Rio Communities
Project Description: Streetlights are being installed to improve the overall safety and functionality of the intersection.
Project Scope: Project includes design and installation of the following items: • 4 Luminaire Poles (Type V Standard, 30') • 4 LED Luminaires • 4 Light Pole Foundations • 6 Electrical Pull Box (Standard) • 1 Meter Pedestal • 690 LF of Rigid Electrical Conduit • 2,370 LF of Single Conductor 10 Wiring

Streetlight Project #7 - Horner Street and Kaghan Loop Drive					
NMDOT	SHORT DESCRIPTION	UNIT	ESTIMATE	ESTIMATE	ESTIMATE
ITEM NO.			UNIT PRICE	QUANTITY	AMOUNT
502030	DRILLED SHAFT FOUNDATION 30" DIAMETER	L.F.	\$200.00	24	\$4,800.00
540060	REINFORCING BARS GRADE 60	LB	\$2.60	612	\$1,591.20
511000	STRUCTURAL CONCRETE, CLASS A	CY	\$1,125.00	17.2	\$19,350.00
706210	METER PEDESTAL (LIGHTING)	EACH	\$8,500.00	1	\$8,500.00
706350	POWER SERVICE INSTALLATION	EACH	\$5,000.00	1	\$5,000.00
707540	TYPE V STANDARD, 30'	EACH	\$4,000.00	4	\$16,000.00
709020	RIGID ELECTRICAL CONDUIT 2" (DIA.)	L.F.	\$12.72	690	\$8,776.80
710000	ELECTRICAL PULL BOX (STANDARD)	EACH	\$640.00	6	\$3,840.00
711110	SINGLE CONDUCTOR 10	L.F.	\$1.50	2370	\$3,555.00
716701	LED ROADWAY LUMINAIRE	EACH	\$750.00	4	\$3,000.00
621000	MOBILIZATION	LS	\$2,500.00	1	\$2,500.00
618000	TRAFFIC CONTROL	LS	\$1,000.00	1	\$1,000.00
SUBTOTAL					\$77,913.00
CONTINGENCY			25%		\$19,478.25
COVID INFLATION			15%		\$11,686.95
TOTAL					\$109,078.20
SURVEY					\$3,000.00
DESIGN					\$10,000.00
TOTAL					\$122,078.20
NEW MEXICO TAX			7.9375%		\$9,689.96
FINAL TOTAL (ROUNDED)					\$132,000.00

*THE NEED FOR RIGHT-OF-WAY ACQUISITION OR EASEMENTS WILL BE DETERMINED DURING DESIGN.



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Drawing Name: 1031603/6.0_CAD_BM/6.2_MP/Rio_Communities_Intersection_Exhibits.dwg

LEGEND

- LUMINAIRE POLE
- PULL BOX
- CONDUIT
- LIGHTING METER (MP#)
- POTENTIAL POWER DROP LOCATION (PD#)
- INTERSECTION LOCATION

KEY MAP



GENERAL NOTE:
LUMINAIRE POLES ARE TO BE PLACED APPROXIMATELY 7 FEET FROM EDGE OF PAVEMENT OR APPROXIMATELY 1.5 FEET FROM BACK OF SIDEWALK, IF SIDEWALK EXISTS.

PRELIMINARY PLAN NOT FOR CONSTRUCTION		 2155 LOUISIANA BLVD NE SUITE 9500 ALBUQUERQUE, NM 87110 (505) 830-5400	
MARK	DATE	DESCRIPTION	BY
EXHIBIT / CONCEPTUAL PLAN RIO COMMUNITIES STREETLIGHT SAFETY PLAN			
DESIGNED:	MCS	HORNER ST & KAGHAN LOOP INTERSECTION LIGHTING LAYOUT RIO COMMUNITIES, NM	DATE: 04/2022
DRAWN:	SD		
CHECKED:	SP		
SCALE:	NTS		



PROJECT SHEET:
Rio Communities Streetlight Project # 8 – Kaghan Loop Drive and Trailhead

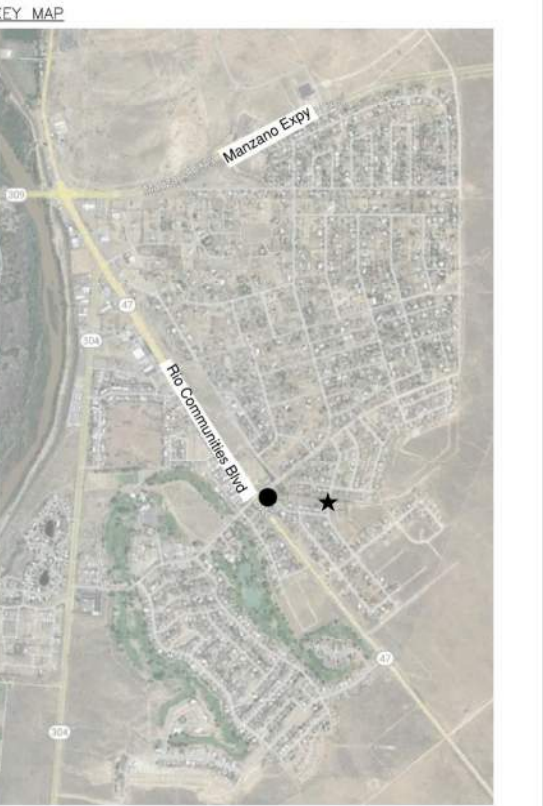
Project ID: Streetlight Project #8 - Kaghan Loop Drive and Trailhead
Project Location: Intersection of Kaghan Loop Drive and Trailhead
Project Budget: \$111,500.00
Responsible for Maintenance: City of Rio Communities
Project Description: Streetlights are being installed to improve the overall safety and functionality of the intersection.
Project Scope: Project includes design and installation of the following items: • 2 Luminaire Poles (Type V Standard, 30') • 2 LED Luminaires • 2 Light Pole Foundations • 4 Electrical Pull Box (Standard) • 1 Meter Pedestal • 1,290 LF of Rigid Electrical Conduit • 4,020 LF of Single Conductor 10 Wiring

Streetlight Project #8 - Kaghan Loop Drive and Trailhead					
NMDOT	SHORT DESCRIPTION	UNIT	ESTIMATE	ESTIMATE	ESTIMATE
ITEM NO.			UNIT PRICE	QUANTITY	AMOUNT
502030	DRILLED SHAFT FOUNDATION 30" DIAMETER	L.F.	\$200.00	12	\$2,400.00
540060	REINFORCING BARS GRADE 60	LB	\$2.60	306	\$795.60
511000	STRUCTURAL CONCRETE, CLASS A	CY	\$1,125.00	8.6	\$9,675.00
706210	METER PEDESTAL (LIGHTING)	EACH	\$8,500.00	1	\$8,500.00
706350	POWER SERVICE INSTALLATION	EACH	\$5,000.00	1	\$5,000.00
707540	TYPE V STANDARD, 30'	EACH	\$4,000.00	2	\$8,000.00
709020	RIGID ELECTRICAL CONDUIT 2" (DIA.)	L.F.	\$12.72	1290	\$16,408.80
710000	ELECTRICAL PULL BOX (STANDARD)	EACH	\$640.00	4	\$2,560.00
711110	SINGLE CONDUCTOR 10	L.F.	\$1.50	4020	\$6,030.00
716701	LED ROADWAY LUMINAIRE	EACH	\$750.00	2	\$1,500.00
621000	MOBILIZATION	LS	\$2,500.00	1	\$2,500.00
618000	TRAFFIC CONTROL	LS	\$1,000.00	1	\$1,000.00
SUBTOTAL					\$64,369.40
CONTINGENCY			25%		\$16,092.35
COVID INFLATION			15%		\$9,655.41
TOTAL					\$90,117.16
SURVEY					\$3,000.00
DESIGN					\$10,000.00
TOTAL					\$103,117.16
NEW MEXICO TAX			7.9375%		\$8,184.92
FINAL TOTAL (ROUNDED)					\$111,500.00

Date: 22 Mar 2022 - 3:56pm User: SDY
Drawing Name: 10331609/6.0_CAC_BM/6.1_WF/Rio_Communities_Intersection_Exhibits.dwg



LEGEND	
	LUMINAIRE POLE
	PULL BOX
	CONDUIT
	LIGHTING METER (MP#)
	POTENTIAL POWER DROP LOCATION (PD#)
	INTERSECTION LOCATION



GENERAL NOTE:
LUMINAIRE POLES ARE TO BE PLACED APPROXIMATELY 7 FEET FROM EDGE OF PAVEMENT OR APPROXIMATELY 1.5 FEET FROM BACK OF SIDEWALK, IF SIDEWALK EXISTS.

PRELIMINARY PLAN NOT FOR CONSTRUCTION		 2155 LOUISIANA BLVD NE SUITE 9500 ALBUQUERQUE, NM 87110 (505) 830-5400	
MARK	DATE	DESCRIPTION	BY
EXHIBIT / CONCEPTUAL PLAN			
RIO COMMUNITIES			
STREETLIGHT SAFETY PLAN			
DESIGNED:	MCS	KAGHAN LOOP & TRAIL HEAD INTERSECTION LIGHTING LAYOUT RIO COMMUNITIES, NM	DATE: 04/2022
DRAWN:	SD		
CHECKED:	SP		
SCALE:	NTS		

**PROJECT SHEET:****Rio Communities Streetlight Project # 9 – Horner Street and Goodman Avenue**

Project ID: Streetlight Project #9 - Horner Street and Goodman Avenue
Project Location: Intersection of Horner Street and Goodman Avenue
Project Budget: \$87,000.00
Responsible for Maintenance: City of Rio Communities
Project Description: Streetlights are being installed to improve the overall safety and functionality of the intersection.
Project Scope: Project includes design and installation of the following items: • 2 Luminaire Poles (Type V Standard, 30') • 2 LED Luminaires • 2 Light Pole Foundations • 3 Electrical Pull Box (Standard) • 1 Meter Pedestal • 375 LF of Rigid Electrical Conduit • 1,275 LF of Single Conductor 10 Wiring

Streetlight Project #9 - Horner Street and Goodman Avenue					
NMDOT ITEM NO.	SHORT DESCRIPTION	UNIT	ESTIMATE UNIT PRICE	ESTIMATE QUANTITY	ESTIMATE AMOUNT
502030	DRILLED SHAFT FOUNDATION 30" DIAMETER	L.F.	\$200.00	12	\$2,400.00
540060	REINFORCING BARS GRADE 60	LB	\$2.60	306	\$795.60
511000	STRUCTURAL CONCRETE, CLASS A	CY	\$1,125.00	8.6	\$9,675.00
706210	METER PEDESTAL (LIGHTING)	EACH	\$8,500.00	1	\$8,500.00
706350	POWER SERVICE INSTALLATION	EACH	\$5,000.00	1	\$5,000.00
707540	TYPE V STANDARD, 30'	EACH	\$4,000.00	2	\$8,000.00
709020	RIGID ELECTRICAL CONDUIT 2" (DIA.)	L.F.	\$12.72	375	\$4,770.00
710000	ELECTRICAL PULL BOX (STANDARD)	EACH	\$640.00	3	\$1,920.00
711110	SINGLE CONDUCTOR 10	L.F.	\$1.50	1275	\$1,912.50
716701	LED ROADWAY LUMINAIRE	EACH	\$750.00	2	\$1,500.00
621000	MOBILIZATION	LS	\$2,500.00	1	\$2,500.00
618000	TRAFFIC CONTROL	LS	\$1,000.00	1	\$1,000.00
SUBTOTAL					\$47,973.10
CONTINGENCY			25%		\$11,993.28
COVID INFLATION			15%		\$7,195.97
TOTAL					\$67,162.34
SURVEY					\$3,000.00
DESIGN					\$10,000.00
TOTAL					\$80,162.34
NEW MEXICO TAX			7.9375%		\$6,362.89
FINAL TOTAL (ROUNDED)					\$87,000.00



KEY MAP

-

PRELIMINARY PLAN
NOT FOR
CONSTRUCTION



MARK	DATE	DESCRIPTION	BY
EXHIBIT / CONCEPTUAL PLAN			
RIO COMMUNITIES			
STREETLIGHT SAFETY PLAN			
DESIGNED: MCS	GOODMAN AVE & HORNER ST INTERSECTION LIGHTING LAYOUT RIO COMMUNITIES, NM		DATE: 04/2022
DRAWN: SD			
CHECKED: SP			
SCALE: NTS			

**PROJECT SHEET:****Rio Communities Streetlight Project # 10 – Nancy Lopez Boulevard and Lee Trevino Boulevard**

Project ID:
Streetlight Project #10 - Nancy Lopez Boulevard and Lee Trevino Boulevard
Project Location:
Intersection of Nancy Lopez Boulevard and Lee Trevino Boulevard
Project Budget:
\$148,500.00
Responsible for Maintenance:
City of Rio Communities
Project Description:
Streetlights are being installed to improve the overall safety and functionality of the intersection.
Project Scope:
Project includes design and installation of the following items: • 2 Luminaire Poles (Type V Standard, 30') • 2 LED Luminaires • 2 Light Pole Foundations • 3 Electrical Pull Box (Standard) • 1 Meter Pedestal • 2,700 LF of Rigid Electrical Conduit • 8,250 LF of Single Conductor 10 Wiring

Streetlight Project #10 - Nancy Lopez Boulevard and Lee Trevino Drive					
NMDOT ITEM NO.	SHORT DESCRIPTION	UNIT	ESTIMATE UNIT PRICE	ESTIMATE QUANTITY	ESTIMATE AMOUNT
502030	DRILLED SHAFT FOUNDATION 30" DIAMETER	L.F.	\$200.00	12	\$2,400.00
540060	REINFORCING BARS GRADE 60	LB	\$2.60	306	\$795.60
511000	STRUCTURAL CONCRETE, CLASS A	CY	\$1,125.00	8.6	\$9,675.00
706210	METER PEDESTAL (LIGHTING)	EACH	\$8,500.00	1	\$8,500.00
706350	POWER SERVICE INSTALLATION	EACH	\$5,000.00	1	\$5,000.00
707540	TYPE V STANDARD, 30'	EACH	\$4,000.00	2	\$8,000.00
709020	RIGID ELECTRICAL CONDUIT 2" (DIA.)	L.F.	\$12.72	2700	\$34,344.00
710000	ELECTRICAL PULL BOX (STANDARD)	EACH	\$640.00	3	\$1,920.00
711110	SINGLE CONDUCTOR 10	L.F.	\$1.50	8250	\$12,375.00
716701	LED ROADWAY LUMINAIRE	EACH	\$750.00	2	\$1,500.00
621000	MOBILIZATION	LS	\$2,500.00	1	\$2,500.00
618000	TRAFFIC CONTROL	LS	\$1,000.00	1	\$1,000.00
SUBTOTAL					\$88,009.60
CONTINGENCY			25%		\$22,002.40
COVID INFLATION			15%		\$13,201.44
TOTAL					\$123,213.44
SURVEY					\$4,000.00
DESIGN					\$10,000.00
TOTAL					\$137,213.44
NEW MEXICO TAX			7.9375%		\$10,891.32
FINAL TOTAL (ROUNDED)					\$148,500.00

Date: 22 Mar 2022 - 3:56pm User: SDN
Drawing Name: 1031609/6.0_CAD_BM/6.2_WP/Rio_Communities_Intersection_Chibits.dwg



- LEGEND**
- LUMINAIRE POLE
 - PULL BOX
 - CONDUIT
 - LIGHTING METER (MP#)
 - POTENTIAL POWER DROP LOCATION (PD#)
 - INTERSECTION LOCATION



GENERAL NOTE:
LUMINAIRE POLES ARE TO BE PLACED APPROXIMATELY 7 FEET FROM EDGE OF PAVEMENT OR APPROXIMATELY 1.5 FEET FROM BACK OF SIDEWALK, IF SIDEWALK EXISTS.

PRELIMINARY PLAN NOT FOR CONSTRUCTION		 2155 LOUISIANA BLVD NE SUITE 9500 ALBUQUERQUE, NM 87110 (505) 830-5400	
MARK	DATE	DESCRIPTION	BY
EXHIBIT / CONCEPTUAL RIO COMMUNITIES STREETLIGHT SAFETY PLAN			
DESIGNED: MCS	DATE: 04/2022		
DRAWN: SD	NANCY LOPEZ BLVD & LEE TREVINO DR		
CHECKED: SP	INTERSECTION LIGHTING LAYOUT		
SCALE: NTS	RIO COMMUNITIES, NM		

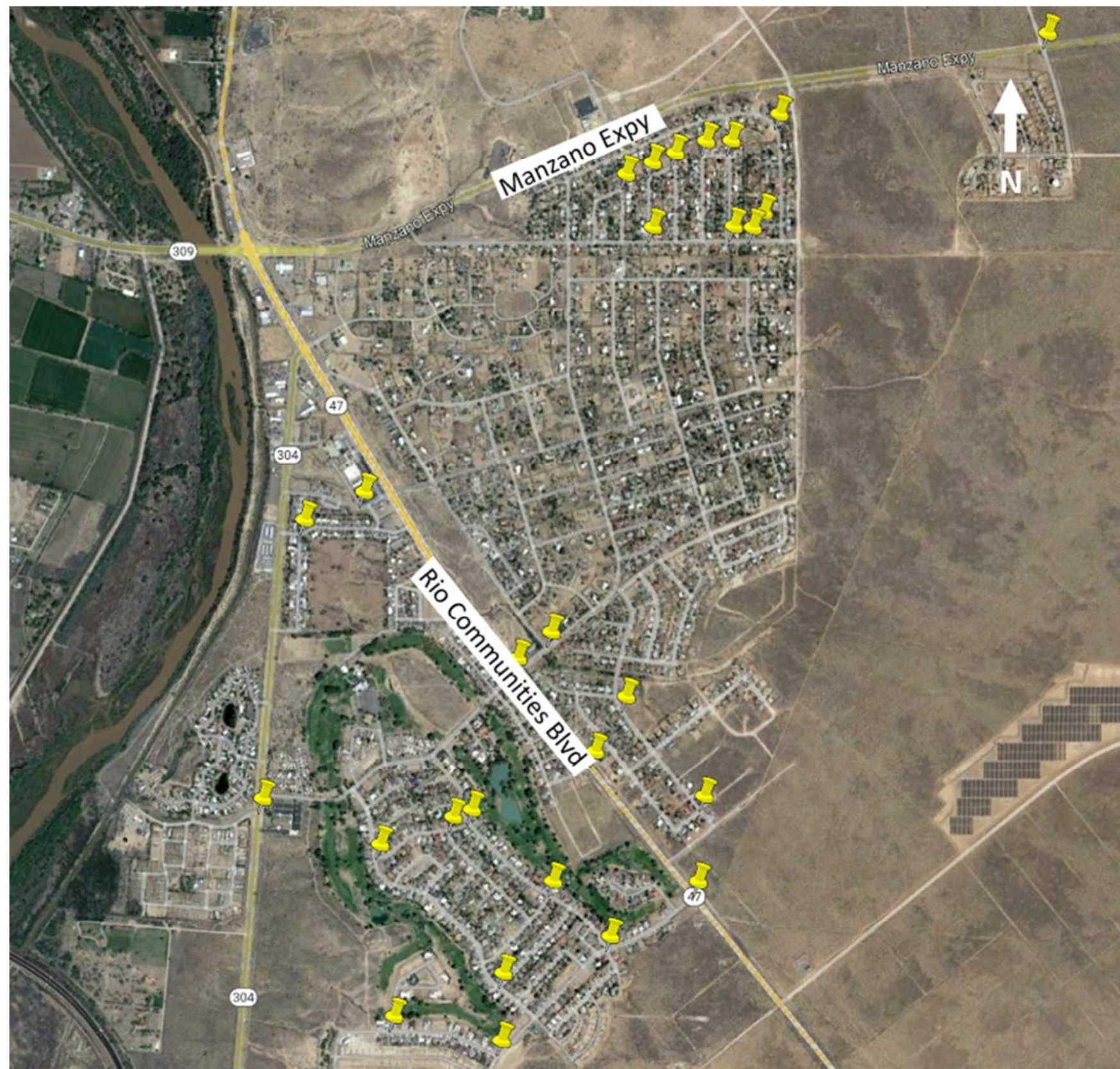


Figure 16: Identified Intersections for Long-Term Improvements

6.APPENDICES

Appendix A - Design Criteria: AASHTO Roadway Lighting Design Guide 2018

DESIGN LIGHT LEVELS: Recommended design light levels using both the luminance and illuminance method are noted in [Table 8](#) (Table 3-5a & 3-5b of the AASHTO roadway lighting design guide 2018). AASHTO roadway lighting design guide 2018 recommends using either the illuminance or luminance method for roadways. When designing for intersections, the illuminance method should be used. Light levels for intersections of two continuously lit streets are typically designed to a value equal to the sum of the individual lighting level values. Per AASHTO design guide, the light levels for intersection classifications are as follows:

Table 8: AASHTO Lighting Criteria (Table 3-5a & 3-5b of the AASHTO Roadway Lighting Design Guide 2018)

Roadway and Walkway Classification ^a	Area Classifications	Illuminance Method					
		Average Maintained Illuminance (E_{avg})				Minimum Illuminance E_{min}	Illuminance Uniformity Ratio E_{avg}/E_{min}
		R1	R2	R3	R4		
	General Land Use	(footcandles) (min)	(footcandles) (min)	(footcandles) (min)	(footcandles) (min)	(footcandles)	Avg/min (max) ^b
Principal Arterials:							
Interstate and other freeways	All	0.6	0.6	0.6	0.6	0.2	4:1
Other Principal Arterials (partial or no control of access)	Commercial	1.1	1.6	1.6	1.4	As uniformity ratio allows	4:1
	Intermediate	0.8	1.2	1.2	1.0		4:1
	Residential	0.6	0.8	0.8	0.8		4:1
Minor Arterials	Commercial	0.9	1.4	1.4	1.0		4:1
	Intermediate	0.8	1.0	1.0	0.9		4:1
	Residential	0.5	0.7	0.7	0.7		4:1
Collectors	Commercial	0.8	1.1	1.1	0.9		4:1
	Intermediate	0.6	0.8	0.8	0.8		4:1
	Residential	0.4	0.6	0.6	0.5		4:1
Local	Commercial	0.6	0.8	0.8	0.8		6:1
	Intermediate	0.5	0.7	0.7	0.6		6:1
	Residential	0.3	0.4	0.4	0.4		6:1
Alleys	Commercial	0.4	0.6	0.6	0.5		6:1
	Intermediate	0.3	0.4	0.4	0.4		6:1
	Residential	0.2	0.3	0.3	0.3		6:1
Sidewalks	Commercial	0.9	1.3	1.3	1.2		3:1
	Intermediate	0.6	0.8	0.8	0.8		4:1
	Residential	0.3	0.4	0.4	0.4		6:1
Pedestrian Ways and Bicycle Ways ^c	All	1.4	2.0	2.0	1.8		3:1

^a See AASHTO's A Policy on Geometric Design of Highways and Streets (1) for roadway and walkway classifications.

^b Higher uniformity ratios are acceptable for elevated ramps near high-mast poles.

^c L_{avg} refers to the maximum point along the pavement, not the maximum in lamp life. The Maintenance Factor applies to both the L_{avg} term and the L_{min} term.

^d Use 0.6 for R1 surface.

^e Assumes a separate facility. For Pedestrian Ways and Bicycle Ways adjacent to roadway, use roadway design values. Use R3 requirements for walkway or bikeway surface materials other than the pavement types shown. Other design guidelines such as IES or CIE may be used for pedestrian ways and bikeways when deemed appropriate.

Area classification noted in AASHTO as Commercial, Intermediate, and Residential correspond to High, Medium and Low pedestrian conflict as defined by IES in RP-8-21.

POLE PLACEMENT AT INTERSECTION: per AASHTO, light poles should be placed such that key decision points, conflict points and crosswalks should be illuminated. When illuminating the crosswalks, poles should be positioned in advance of the crosswalk to provide positive contrast, which combined with the vehicle headlight, helps increase contrast and improve the visibility of the pedestrian in the crosswalk. Luminaire poles should be placed such that they are outside of the clear zone (the area adjacent to the edge of the roadway that should be kept clear of obstructions). During design, the engineer will determine how to best accommodate clear zone requirements for each specific location. If clear zone requirements dictate that the light pole needs to be placed further away from the edge of the roadway, a longer mast arm may be used. For locations where poles cannot be placed outside of the clear zone, either breakaway poles or barrier protection should be considered. These criteria are illustrated in [Figure 17](#).



A



B

Figure 17: AASHTO Recommended Light Pole Placement (Figure 3-3 of the AASHTO Roadway Lighting Design Guide 2018).

Appendix B - Design Criteria: ANSI/IES RP-8-21

DESIGN LIGHT LEVELS: Per RP-8-21, Chapter 12, Intersection Lighting Design Is Classified Into Three Different Types Which Include: Full Intersection Lighting, Partial Intersection Lighting And Delineation (Beacon) Lighting.

- ❖ Full intersection lighting is defined as lighting covering the functional area of an intersection in a uniform manner over the traveled portion of the roadway.
- ❖ Partial intersection lighting is defined as the lighting of key decision areas, potential conflict points, and/or hazards in and on the approach to an intersection. Partial intersection lighting may also guide a driver from one key point to the next, and (if sufficient luminaires are used) place the road user on a safe heading after leaving an illuminated area.
- ❖ Delineation (beacon) lighting is defined as lighting that marks an intersection location for approaching traffic, lights vehicles on a cross street, or lights a median crossing.

The values for full intersection lighting are based on the principle that the amount of light should be proportional to the classification of the intersecting roadways and equal to the sum of the values used for each separate roadway. The values included in [Table 9](#) (Table 12-1 of the RP-8-21) are the recommended average-maintained illuminance levels for fully lighted intersections of continuously lighted roadways, based on street classification and pedestrian volumes. The recommendations assume an R2 or R3 pavement type, which is typically hot mix asphalt pavement.

The decision to use full intersection lighting criteria instead of partial intersection lighting was made because this design will be forward compatible for when City illuminates the cross streets in the future.

Table 9: RP-8 Lighting Criteria (Table 12-1 of the RP-8-21)

Functional Classification	Pedestrian Activity Level Classification			E_{avg}/E_{min}
	High	Medium	Low	
Major/Major	34/3.2	26/2.4	18/1.7	3.0
Major/Collector	29/2.7	22/2.0	15/1.4	3.0
Major/Local	26/2.4	20/1.9	13/1.2	3.0
Collector/Collector	24/2.2	18/1.7	12/1.1	4.0
Collector/Local	21/2.0	16/1.5	10/0.9	4.0
Local/Local	18/1.7	14/1.3	8/0.7	6.0

The intersection classifications are determined based on average daily traffic (ADT) per the ranges defined below.

- Major (M) street: Over 3,500 vehicles ADT
- Collector (C) street: 1,500 to 3,500 vehicles ADT
- Local (L) street: 100 to 1,500 vehicles ADT

Pedestrian activity levels are defined by the number of pedestrians during the highest nightly average one-hour volume period. The ranges for each designation are defined below.

- High pedestrian activity areas: > 100 pedestrians per hour
- Medium pedestrian activity areas: 11 - 99 pedestrians per hour

- Low pedestrian activity areas: < 10 pedestrians per hour

For a mid-block crossing (such as a trail path crossing) for areas with low pedestrian conflict, a vertical illuminance of 20 lux (approximately 1.9 Fc) will improve pedestrian visibility.

POLE PLACEMENT: Where full roadway lighting that ties into the intersection is present, the spacing of the poles on the approach road should be designed to coordinate with the pole locations for the intersection. Light poles should be positioned in advance of the crosswalks to improve visibility in the crosswalk by providing improved vertical illuminance and positive contrast. Typical pole placements for common intersection geometries can be seen in [Figure 18](#) and [Figure 19](#) (Figures 12-5 and 12-6 of the RP-8). Pole placement for a mid-block crossing (such as a trail path crossing) can be seen in [Figure 20](#) (Figure 12-21 of the RP-8). These typical pole placements are used as a starting point, and then the pole placements are adjusted to fit the geometry of each intersection, and to meet additional lighting level criteria, such as illuminance and uniformity. Therefore, the actual light pole locations are to be determined by a lighting analysis.

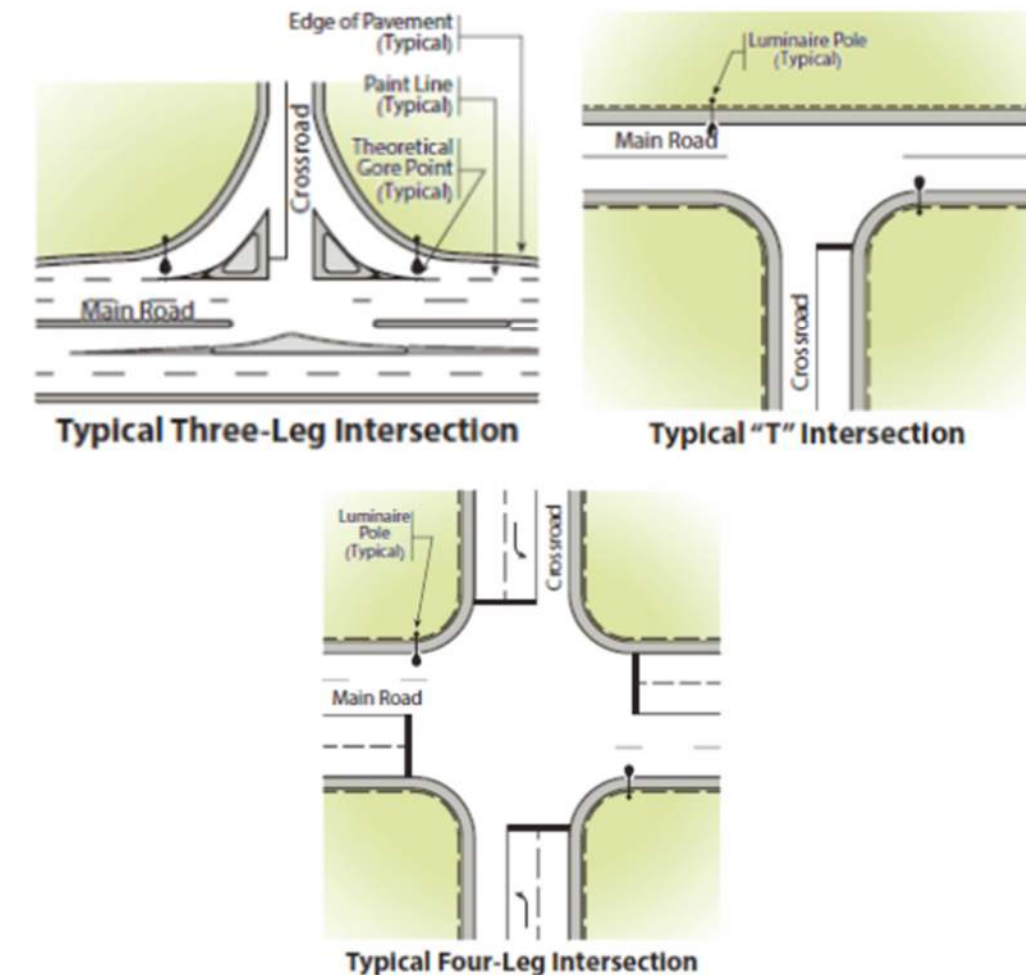


Figure 18: Typical Pole Placement for Partial Intersection Lighting (Per ANSI/IES RP-8-21)

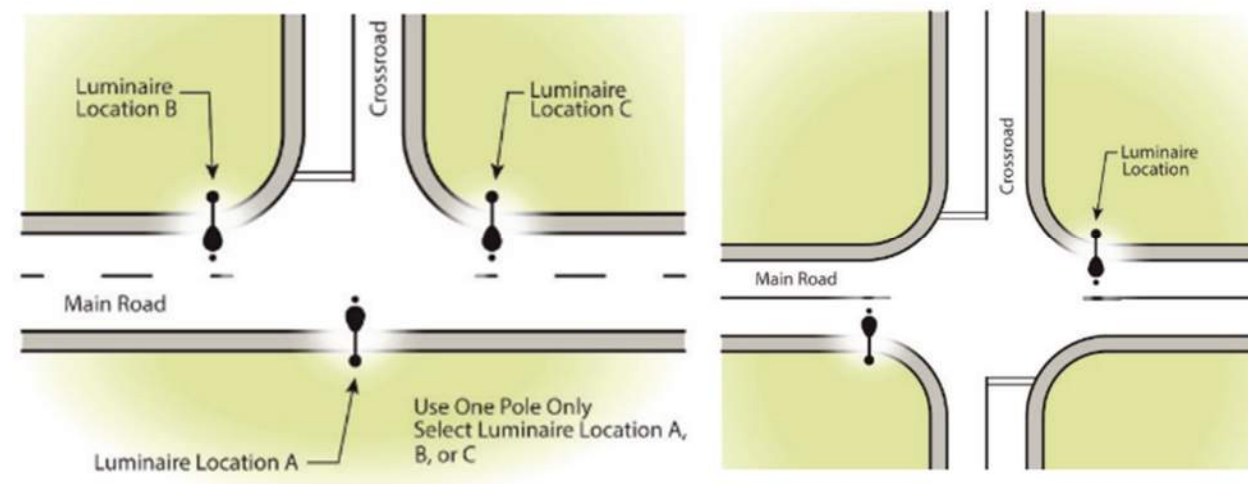


Figure 19: Typical Pole Locations for Delineation Lighting

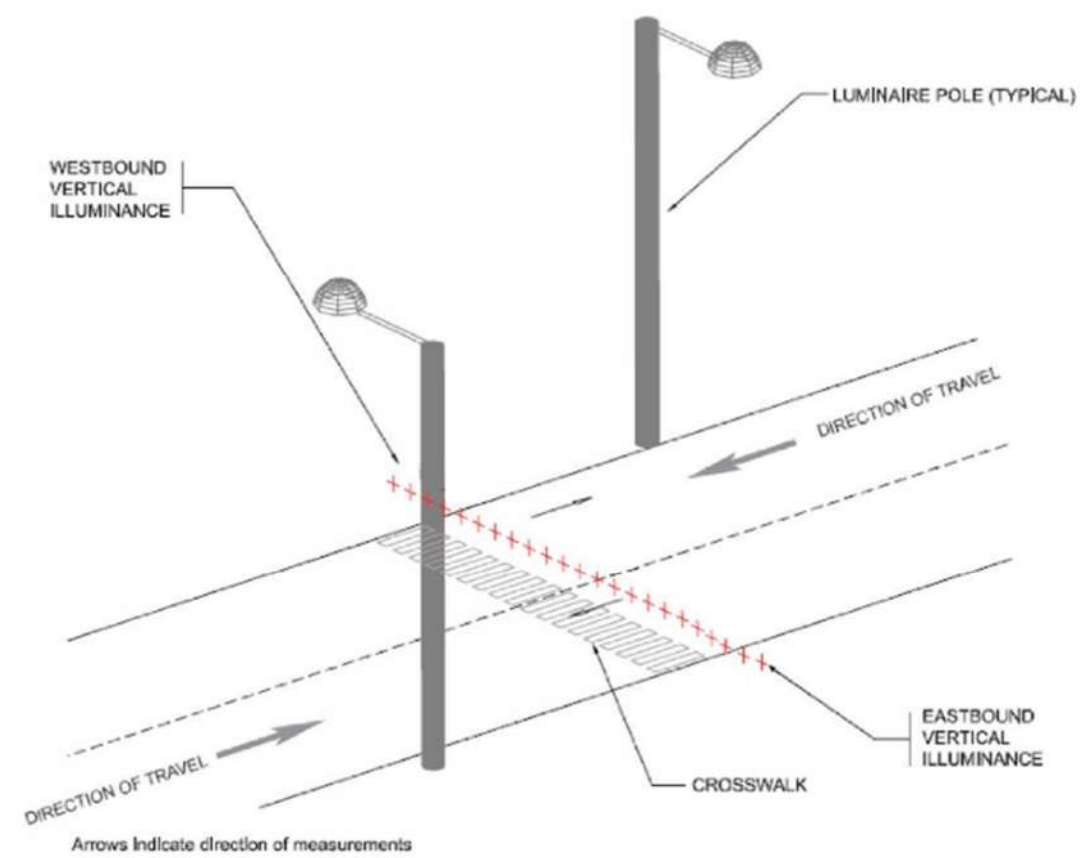


Figure 20: Design Example for a Midblock Crosswalk

END OF THE RIO COMMUNITIES STREETLIGHT SAFETY PLAN REPORT



**STATE OF NEW MEXICO
CITY OF RIO COMMUNITIES
RESOLUTION 2022 – (36)**

The City Council of the City of Rio Communities (“City”), upon the report and recommendation of the City’s Code Compliance Officer, does hereby find and determine:

1. That a dangerous building located at 101 Rio Communities Blvd., Rio Communities, New Mexico (hereinafter “Subject Property”) has excessive debris, refuse, trash, and other items that constitute a safety and health hazard.
2. That the safety and health and debris located within the Subject Property is a menace to the public comfort, health, safety, and wellness of the City of Rio Communities and its citizens.

NOW, THEREFORE, BE IT RESOLVED BY THE GOVERNING BODY OF THE CITY OF RIO COMMUNITIES:

- A. The City will remove such ruins, rubbish, wreckage, or debris within the Subject Property at the cost and expense of the Property Owner. The cost of such removal shall be payable in full. Failure to pay within 30 days of billing shall result in a lien against the Subject Property that shall be subject to foreclosure in the manner provided by law.
- B. Should the Property Owner object to the City’s removal of such burnt down building, rubbish, wreckage or debris within the Subject Property, the Property Owner shall file a written objection within ten (10) days of the posting and publishing of this resolution to the City Clerk requesting a hearing upon this resolution before the City Council of the City of Rio Communities.
- C. If the Property Owner or his/her agents in charge of the Subject Property file a written objection with the City Council within the time frame described above, the City shall fix a date for hearing upon this resolution and all objections thereto presented by the Subject Property Owner or his/her agents and at such hearing shall determine if the resolution should be enforced or rescinded.
- D. The City’s Compliance Officer is hereby directed to serve a copy of this resolution upon the owners, occupants, or agents in charge of the Subject Property. In the event the owners, occupants, or agents in charge of the Subject Property cannot be served personally within the municipality, the City’s Compliance Officer shall post a copy of this resolution upon the premise of the Subject Property and publish a copy of this resolution one time in a newspaper of general circulation in the City of Rio Communities.

PASSED, APPROVED AND ADOPTED THIS 14th DAY OF November 2022 BY THE GOVERNING BODY OF
THE CITY OF RIO COMMUNITIES, NEW MEXICO.

City of Rio Communities Governing Body

Joshua Ramsell,
Mayor

Margaret R. Gutjahr,
Mayor Pro-tem

Arthur Apodaca,
Councilor

Lawrence R. Gordon,
Councilor

Jimmie Winters,
Councilor

ATTEST:

Elizabeth F. Adair,
Municipal Clerk

SECTION 9: LEAVE

9.1 Vacation

1. All regular and probationary employees earn and are eligible to use paid vacation from the date of hire as follows:
 - a. Four (4) hours per pay period are accumulated for employees who have served less than five years in the City.
 - b. Five (5) hours per pay period are accumulated for employees who have served more than five (5) years in the City.
 - c. Six (6) hours per pay period are accumulated for employees who have served more than ten (10) years in the City.
 - d. Two (2) hours per pay period are accumulated for part-time regular employees who have served less than five years in the City.
 - e. Two and a half (2.5) hours per pay period are accumulated for part-time regular employees who have served more than five (5) years in the City.
 - f. Three (3) hours per pay period are accumulated for part-time regular employees who have served more than ten (10) years in the City.
2. Employees may use accrued vacation leave in hourly increments. Every effort will be made to grant an employee vacation at the time requested. However, vacations cannot interfere with the City's essential operations and therefore must be approved by the Department Head and City Manager in advance. The City Manager's request for vacation time is approved by the Mayor.
3. City employees may carry a balance of not more than 320 hours of vacation per calendar year. Excess hours will be forfeited at the beginning of the calendar year. The purpose of this provision is to encourage employees to take time off and to avoid imposing a significant liability on the City to pay out unused vacation leave when an employee separates from employment. Paid holidays which occur during vacation time are not counted as vacation leave.
4. Probationary employees shall not be paid for accrued vacation time upon separation from employment. City employees who separate from employment will be paid for unused vacation time subject to the 320-hour accrual limit.
5. Annually, during the first City Council meeting in December, the City may offer to buy back unused vacation leave hours at 100% of the employees' respective base

hourly rates of pay. The number of hours the City may offer to buy back is discretionary. Employee participation is voluntary. An employee's vacation leave accrual balance cannot be reduced below 40 hours as a result of the buy-back.