

UNIVERSITY FACILITIES MANAGEMENT

Sixth Avenue and Grant Street • P.O. Box 172760 • Bozeman, Montana 59717-2760 Phone: (406) 994-5413 • Fax: (406) 994-5665

ADDENDUM NO. 1 - OUTLINE AND SUMMARY INFORMATION

Project Name: Grant Street Pedestrian Mall PPA No.: 22-0001

Location: Grant Street from 7th Ave to 11th Ave Date: 4/23/2024

To: All Plan Holders of Record

The Plans and Specification prepared by <u>Sanderson Stewart</u> dated <u>April 1, 2024</u>, shall be clarified and added as follows. The bidder proposes to perform all the following clarifications or changes. It is understood that the Base Bid shall include any modification of Work or Additional Work that may be required by reason of the following change or clarifications.

The Bidders are to acknowledge the receipt of this Addendum by inserting its number and date into their Bid Forms. Failure to acknowledge may subject the Bidder to disqualification and rejection of the bid. This Addendum forms part of the Contract Documents as if bound therein and modifies them as follows:

I. AMENDMENTS TO THE PROJECT MANUAL

INSTRUCTIONS TO BIDDERS

A. The provision for Liquidated Damages has been removed. Liquidated Damages will not be assessed on this project.

BID PROPOSAL

B. Updated quantities for lighting fixtures, poles, pull boxes.

165600 LIGHTING

 Information has been added regarding minimum specifications for the Electric Service Pedestals.

II. AMENDMENTS TO THE DRAWINGS

ELECTRICAL PLANS

- A. Add note near College of Nursing at Bobcat Circle for 'Lights and wiring to be installed by College of Nursing project. Conduit to be installed with Grant Street project.'
- B. Add new luminaire west of Romney around sitting wall areas.
- C. Light spacing north of Norm Asbjornson Hall has been increased and one luminaire was reduced.

- D. Parking lot luminaires have been modified with new locations and two new units.
- E. Luminaire types and locations have been modified for crosswalk between SUB parking lot and roundabout.
- F. Luminaire types have changed around roundabout and along N 7th Avenue.
- G. Note 5 has been revised to state that existing conduit can be abandoned in place if not in conflict with other project elements. Wiring shall be pulled back to source, but conduit can be abandoned.
- H. Light fixture schedule has been updated to provide new model numbers including the FAWS, Pole Top fitters, TLRD7, CRI 80, fuses in-pole bases per latest edition of MSU Engineering Guidelines.
- I. Details have been added for pull boxes and the electrical service drop.

III. ATTACHMENTS

- A. Instructions to Bidders
- B. Bid Proposal
- C. 165600 LIGHTING
- D. Electrical Plans



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INSTRUCTIONS TO BIDDERS

1. Table of Contents

Provided in the Printed Project Manual:

Invitation to Bid Instruction to Bidders Bid Proposal, Form 098 Sample Standard Form of Contract State of Montana General Conditions MSU Supplementary Conditions Specifications Drawings

These additional forms can be found on our website or will be provided upon request:

http://www.montana.edu/pdc/docs/index.html Substitution Request, Form 99 Schedule of Values, Form 100

Periodic Estimate for Partial Payment, Form 101 Acknowledgement of Subcontractors, Form 102 Consent of Surety to Final Payment, Form 103 Contract Change Order, Form 104 Contractor's Affidavit, Form 106 Certificate of Substantial Completion, Form 107 Construction Change Directive, Form 109 Request for Information, Form 111 Performance Bond, Form 112 Labor and Material Payment Bond, Form 113 Certificate of Final Acceptance, Form 118 Buy-Safe Montana Form

For most current Montana Prevailing Wage Rates applicable to this project download from this site: http://erd.dli.mt.gov/labor-standards/state-prevailing-wage-rates

- 2. Viewing of Contract Documents
 - 2.1. The Contract Documents may be viewed at the following locations:

Builders Exchange of Billings 2050 Broadwater STE A Billings MT 59102 406/652-1311

bbx@billingsplanroom.com

Bozeman Builders Exchange 1105 Reeves RD W STE 800 Bozeman MT 59718 406/586-7653 exchange@bozemanplanroom.com

Butte Builders Exchange 4801 Hope Road Butte MT 59701 406/782-5433 butteplans@gmail.com

NW MT - Flathead Builders Exchange 2303 Hwy 2 E Kalispell, MT 59901 406/755-5888 planex@kalcopy.com

Great Falls Builders Exchange 202 2ND Avenue S Great Falls MT 59401 406/453-2513 gfbe@greatfallsplans.com

Helena Plans Exchange 1530 Cedar Street Suite C Helena MT 59601 406/457-2679 helenaplanex@helenacopycenter.co <u>m</u>

Missoula Plans Exchange 201 N Russell ST Missoula MT 59801 406/549-5002 mpe@vemcoinc.com

- 3. Borrowing of Documents: Up to two hard copy sets may be obtained for General Contractors. Additionally, Contract Documents will be available electronically. If shipping of hard copies is required, it will be at the contractor's expense.
 - 3.1. Contract Documents may be obtained at the office of: MONTANA STATE UNIVERSITY **UNIVERSITY FACILITIES MANAGEMENT** PLEW BUILDING 1st FLOOR **6TH AND GRANT BOZEMAN, MONTANA 59717-2760** 406/994-5413
 - 3.2. All borrowed Contract Documents shall be returned to <u>University Facilities Management</u> within ten (10) calendar days after the bid opening for the deposit refund (if deposit was required). However, if the Contract Documents are not in a condition where they can be reused by the

Owner to construct the project, the Owner may at its sole discretion may retain the deposit or levy costs to contractor in order to reproduce a replacement set.

4. Visits to Site

4.1. Prospective bidders are requested to contact the following for inspection of the site:

Richard Rudnicki, Project Manager Montana State University University Facilities Management 6th and Grant, PO Box 172760 Bozeman, Montana 59717-2760 Ph: 406/994-5560; Fax: 406/994-5665

4.2. Failure to visit site will not relieve the Contractor of the conditions of the contract.

5. Requests for Substitution

5.1 Any requests for product substitutions must be submitted on the "Substitution Request" Form 099, to the Architect/Engineer at least ten (10) days prior to the date of the bid opening for consideration by the Architect/Engineer. Any request for substitution made after this time restriction, including those made after award during project construction may be rejected without consideration by either the Architect/Engineer or the Owner.

6. Bids/Proposals

- 6.1. The bidder shall submit his bid on the Bid Proposal Form furnished with the Contract Documents.
- 6.2. <u>DO NOT send the Contract Documents with the Proposal</u>. The Contract Documents shall be returned as noted in Article 3.2 of the Instructions to Bidders.
- 6.3. If the project is funded by any portion of federal funds, the following may apply: on Federally-funded projects, a "Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion" form must be submitted with the bid proposal. If the debarment form is not included within the Construction Documents, federal funds (if included) do not require the form or are not included in the project and the debarment form is not required.
- 6.4. Proposals shall be in a sealed envelope and addressed to:

STATE OF MONTANA, MONTANA STATE UNIVERSITY UNIVERSITY FACILITIES MANAGEMENT PLEW BUILDING 1ST FLOOR 6TH AND GRANT PO BOX 172760, BOZEMAN, MONTANA 59717-2760

6.5. The envelope shall state that it contains a "BID PROPOSAL" and indicate the following information:

Location: MSU PPA Project Number:	Grant Street Pedestrian Mall Montana State University Bozeman Campus 22-0001			
Name of Bidder:				
Acknowledge Addendum Number:				

6.6. It is the bidder's responsibility to deliver or ensure delivery of the bid proposal to Montana State University, University Facilities Management. Proposals received after the scheduled closing time for bids by either the bidder, a delivery service (e.g. Federal Express, U.S. Postal Service, United Parcel Service, etc.), or the state's own mail delivery system, will be rejected. Proposals entitled for consideration must be time-stamped in the Owner's office prior to the closing time for receipt of bids. The official time clock for receipt of bids and fax modifications is the Owner's time and date stamp clock located in the reception area of the Owner's office. No other clocks, calendars or timepieces are recognized. All bidders are responsible to ensure all bids and fax modifications are received in the Owner's office prior to the scheduled closing time.

- 6.7. If requested on the Bid Proposal, any person making a bid to perform the Work shall, as a requirement of a responsible bid, set forth the name of each subcontractor specified in the "List of Subcontractors" which is part of the bid proposal. The bidder shall list only one subcontractor for each such portion or work listed. The bidder whose bid is accepted shall not:
 - 6.7.1. Substitute any other subcontractor in place of the subcontractor listed in the original bid, except by specific consent of the Owner. The Owner, at its sole discretion, may grant substitution with consent of the originally listed subcontractor, or in consideration of other factor(s) involved if deemed relevant to the successful performance of the Contract.
 - 6.7.2. Permit any such subcontract to be voluntarily assigned, transferred or allow it to be performed by any party other than the subcontractor listed in the original bid without the consent of the Owner.
- 6.8. Bid Proposals entitled to consideration shall be made in accordance with the following instructions:
 - 6.8.1. Made upon form provided;
 - 6.8.2. All blank spaces properly filled;
 - 6.8.3. All numbers stated in both writing and in figures;
 - 6.8.4. Shall contain no additions, conditional or alternate bids, erasures or other irregularities;
 - 6.8.5. Shall acknowledge receipt of all addenda issued.
- 6.9. Bid Proposals entitled to consideration shall be signed by the proper representative of the firm submitting the proposal as follows:
 - 6.9.1. The principal of a single owner firm:
 - 6.9.2. A principal of a partnership firm;
 - 6.9.3. An officer of an incorporated firm, or an agent whose signature is accompanied by a certified copy of the resolution of the Board of Directors authorizing that agent to sign; or,
 - 6.9.4. Other persons signing for a single-owner firm or a partnership shall attach a power-of-attorney evidencing his authority to sign for that firm.
- 6.10. Unit Prices: When a Bid Proposal Form contains unit prices, any errors discovered in the extension of those unit prices will be corrected by the Owner using the unit price figures. The adjusted extended amount will then be used to determine the correct total bid. Only after the amounts have been checked and adjusted, if necessary, will the valid low bid be determined.
- 6.11. Estimated Quantities: All estimated quantities stipulated in the Bid Proposal and other Contract Documents are approximate and are to be used only as a basis for estimating the probable cost of the work and for the purpose of comparing proposals submitted for the work. It is understood and agreed that the actual amounts of work done, and materials furnished under unit price items may vary from such estimated quantities. The actual quantities will depend on the conditions encountered at the time the work is performed.
- 6.12. Any bidder may modify his bid by fax communication only.
 - 6.12.1 It is the bidder's responsibility to ensure that the entire modification is received at the bid opening location prior to the scheduled closing time for receipt of bids. The modification shall not reveal the bid price but shall only provide the ADDITION or SUBTRACTION from the original proposal.
 - 6.12.2 The Owner is not responsible for the performance of the facsimile/printer machine, maintaining adequate paper levels, toner levels, the telephone connection, quality of the facsimile, or any other factors affecting receipt of the fax. Unreadable or difficult-to-read facsimiles may be rejected at the sole discretion of the Owner.
 - 6.12.3 Changes in the listed subcontractors, if any, shall also be provided.
 - 6.12.4 Bid modifications must be verified by hard copy provided to the Owner within two (2) business days after the bid opening.
 - 6.12.5 Bid modifications shall be directed to fax phone (406) 994-5665.
 - 6.12.6 All facsimiles shall be date and time stamped on the same time-stamp clock in the Owner's office that is used for receipt of bids in order to be considered valid. The Owner may also use the date and time on the automatically-generated email notification of

facsimile receipt as generated by the State's system. Any date and time indicated at the top of the facsimile on either the bidder's or the Owner's facsimile/printer machine will not be used in determining time of arrival of the modification.

6.13. The Owner reserves the sole right to reject any or all bids and to waive any irregularities or informalities. The Owner also reserves the sole right to determine what constitutes irregularities or informalities and/or what is material and/or immaterial to the bids received.

7. Bid Security

- 7.1. IF THE PROJECT COST IS LESS THAN \$25,000, AT ITS SOLE DISCRETION THE STATE OF MONTANA MAY OR MAY NOT REQUIRE BID SECURITY (18-2-302 MCA).
- 7.2. All proposals shall be accompanied by a bid security in the amount of 10% of the bid price, as evidence of good faith (18-2-302 MCA). (**MSU does not waive bid security**.)
- 7.3. Bid security shall be in the form of lawful moneys of the United States, cashier's check, certified check, bank money order or bank draft, bid bond or bonds payable to the State of Montana (18-2-302 MCA).
- 7.4. If the bidder, to whom a contract is awarded, fails to enter into and execute the proposed contract within fifteen (15) calendar days of award, the bidder shall forfeit the bid security (18-1-204 MCA).
- 7.5. The bid security of unsuccessful bidders will be returned when the contract has been awarded to the successful bidder or when all bids have been rejected (18-1-205 MCA).
- 7.6. Execution of and entering into a contract includes providing all necessary insurance certificates, bonds, signed contract and current copy of the construction contractor registration certificate.
- 7.7. NOTE: PER STATE POLICY, IF CASH, CHECK, MONEY ORDER, OR BANK DRAFT ARE PROVIDED AS BID SECURITY, IT WILL BE DEPOSITED IN THE TREASURY.

 UNSUCCESSFUL BIDDERS WILL HAVE THEIR SECURITY RETURNED UPON CONTRACT AWARD. THE SUCCESSFUL BIDDER'S SECURITY MAY BE RETURNED UPON ISSUANCE OF NOTICE TO PROCEED.

8. Withdrawal of Bids

- 8.1. Any bidder may withdraw his bid proposal at any time prior to the scheduled closing time for the receipt of bids.
- 8.2. Once the closing time for the receipt of bids is reached, a bid may not be withdrawn for a period of thirty (30) calendar days.

9. Interpretation of Contract Documents

- 9.1. Bidders shall promptly notify the Architect/Engineer of any ambiguity, inconsistency, or error which they may discover upon examination of the Contract Documents or of the site and local conditions.
- 9.2. Bidders requiring clarification or interpretation of the Contract Documents shall request, in writing, clarification from the Architect/Engineer at least ten (10) calendar days prior to the date set for receipt of bids.
- 9.3. Any interpretations, corrections, or change in the Contract Documents prior to the bid opening will be made by written addendum issued by the Architect/Engineer. The Architect/Engineer will endeavor to notify all plan holders of any addenda issued but it shall be the responsibility of the individual bidders to insure they have received all addenda prior to the submission of their bid.
- 9.4. All written addenda issued by the Architect/Engineer will become part of the Contract Documents and all bidders shall be bound by such addenda whether or not received and/or acknowledged by the bidder. No oral or telephone modifications of the Contract Documents will be considered or allowed.

- 10.1. All bids received by the stated hour will be opened and publicly read aloud.
- 10.2. The Owner reserves the right to reject any and all bids and to waive any informality or irregularity in any bid received. Owner reserves the right to determine what constitutes material and/or immaterial informalities and/or irregularities.
- 10.3. The low bid shall be determined on the basis of the lowest Base Bid or the lowest combination of Base Bid and Alternate Bids, accepted in consecutive order.
- 10.4. The Owner shall award such contract to the lowest responsible bidder (18-1-102 MCA).
 - 10.4.1. The Owner may make such investigations as it deems necessary to determine whether or not any or all bidders are responsible.
 - 10.4.2. The term "responsible" does not refer to pecuniary ability only, nor the ability to tender sufficient performance and payment bonds.
 - 10.4.3. The term "responsible" includes, but is not limited to:
 - 10.4.3.1. Having adequate financial resources to perform the contract or the ability to obtain them:
 - 10.4.3.2. Being able to comply with the required delivery, duration, and performance schedule:
 - 10.4.3.3. Having a satisfactory record of integrity and business ethics;
 - 10.4.3.4. Having the necessary organization, experience, accounting, and operational controls;
 - 10.4.3.5. Having the necessary production, construction, technical equipment, and facilities; and,
 - 10.4.3.6. Having the technical skill, ability, capacity, integrity, performance, experience, lack of claims and disputes, lack of actions on bonds, lack of mediations, arbitrations and/or lawsuits related to construction work or performance, and such like.
 - 10.4.4. Bidders shall furnish to the Owner all information and data for this purpose as the Owner may request.
 - 10.4.5. The Owner reserves the right to reject any bid if the investigation or evidence of any Bidder fails to satisfy the Owner that such Bidder is properly and adequately qualified to suitably perform and satisfactorily execute the obligations of the Contract and Work defined in the Contract Documents.
- 10.5. The Owner shall award such contract to the lowest responsible bidder without regard to residency except on a reciprocal basis: a resident bidder will be allowed a preference on a contract against the bid of any non-resident bidder from any state or country that enforces a preference for resident bidders. The preference given to resident bidders of the State of Montana must be equal to the preference given in the other state or country (18-1-102, MCA). This does not apply when prohibited by Federal requirements.
- 10.6. The State of Montana may negotiate deductive changes, not to exceed 7% of the total cost of the project, with the lowest responsible bidder when the lowest responsible bids causes the project cost to exceed the appropriation; or with the lowest responsible bidders if multiple contracts will be awarded on the projects when the total of the lowest responsible bids causes the project cost to exceed the appropriation. A bidder is not required to negotiate his bid but is required to honor his bid for the time specified in the bidding documents. The Owner may terminate negotiations at any time (18-2-105(7) MCA).

11. Contract

- 11.1. The sample Standard Form of Contract between Contractor and Owner, as issued by the Owner, will be used as the contracting instrument and is bound within the Contract Documents.
- 11.2. The form shall be signed by a proper representative of the bidder as defined above in these instructions.
- 11.3. The contractor shall also complete and return a federal form W-9 with the Contract.
- 12. Performance, Labor and Material Payment Security

- 12.1. IF THE PROJECT COST IS LESS THAN \$25,000, AT ITS SOLE DISCRETION THE STATE OF MONTANA MAY OR MAY NOT REQUIRE A PERFORMANCE OR LABOR AND MATERIAL PAYMENT SECURITY (18-2-201 MCA). (MSU REQUIRES BONDS ON ALL PROJECTS ABOVE \$50,000.)
- 12.2. THE CONTRACTOR SHALL PROVIDE BOTH SECURITIES FOR THIS PROJECT AS SPECIFIED BELOW, UNLESS SPECIFICALLY DIRECTED THAT THIS REQUIREMENT HAS BEEN WAIVED ELSEWHERE IN THESE DOCUMENTS.
- 12.3. The Owner shall require the successful bidder to furnish a Performance Bond in the amount of 100% of the contract price as security for the faithful performance of his contract (18-2-201, MCA).
- 12.4. The Owner shall require the successful bidder to furnish a Labor and Material Payment Bond in the amount of 100% of the contract price as security for the payment of all persons performing labor and furnishing materials in connection therewith (18-2-201 MCA).
- 12.5. The bonds shall be executed on forms furnished by the Owner. No other forms will be acceptable.
- 12.6. The bonds shall be signed in compliance with State statutes (33-17-111 MCA).
- 12.7. Bonds shall be secured from a State licensed bonding company.
- 12.8. Power of Attorney
 - 12.8.1. Attorneys-in-fact who sign contract bonds must file with each bond a certified and effectively dated copy of their power of attorney;
 - 12.8.2. One original copy shall be furnished with each set of bonds.
 - 12.8.3. Others furnished with a set of bonds may be copies of that original.

13. Notice To Proceed

13.1. The successful bidder who is awarded the contract for construction will not be issued a Notice to Proceed until there is a signed Contract, the specified insurance certificates and a copy of the bidder's current Construction Contractor Registration Certificate in the Owner's possession. All items are required within fifteen (15) calendar days of contract award made by the Owner.

14. Laws and Regulations

14.1. The bidders' attention is directed to the fact that all applicable federal and state laws, municipal ordinances, and the rules and regulations of all authorities having jurisdiction over the project shall apply to the contract throughout and will be deemed to be included in this contract as if bound herein in full.

15. Payments

15.1. NOTICE OF APPROVAL OF PAYMENT REQUEST PROVISION. Per Title 28, Chapter 2, Part 21, this contract allows the Owner to change the number of days to approve a Contractor's payment request. This contract allows the Owner to approve the Contractor's payment request within thirty-five (35) calendar days after it is received by the Owner without being subject to the accrual of interest.

16. Buy Safe Montana Provisions

16.1. The successful bidder who is awarded the contract for construction shall provide their incident rate, experience modification ratio (EMR) and loss ratio via the Buy-Safe Montana form with the Award documents.

17. Time of Completion

17.1. Bidder agrees to commence work immediately upon receipt of the Notice to Proceed and to substantially complete the project by October 25, 2025. The primary pedestrian connections for Phase 1 shall be completed by August 9, 2024 with remaining Phase 1 work completed for the season by October 25, 2024. For Phase 2, a spring start will be allowed in coordination with MSU, and overall project shall be substantially complete by October 25, 2025.

~END OF INSTRUCTIONS~



UNIVERSITY FACILITIES MANAGEMENT

Sixth Avenue and Grant Street • P.O. Box 172760 • Bozeman, Montana 59717-2760

Phone: (406) 994-5413 • Fax: (406) 994-5665

BID PROPOSAL

Grant Street Pedestrian Mall PPA No. 22-0001

TO:

State of Montana, Montana State University University Facilities Management Attn: Contract Administrator Plew Building, 6th & Grant, PO Box 172760 Bozeman, Montana 59717-2760

Prospective Bidders:

The undersigned, having familiarized themselves with the Contract Documents, site, location, and conditions of the Work as prepared by **Sanderson Stewart**, **106 East Babcock Street**, **Suite L1**, **Bozeman**, **MT 59715**, **(406)522-9876** by submission of this Bid Proposal, hereby agrees to provide all materials, systems, equipment, and labor necessary to complete the Work for the total sum as follows:

Phase 1: Bobcat Circle to Strand Union Building					
Item No.	Quantity		Description	Unit Price	Subtotal
101	1	LS	Mobilization and Insurance		
102	1	LS	Stormwater Management and Erosion Control		
103	1	LS	Construction Traffic Control		
104	1,200	CY	Strip, Stockpile & Replace or Dispose of Topsoil		
105	2,800	SY	Sawcut, Remove and Dispose of Existing Asphalt		
106	23,825	SF	Remove and Dispose of Existing Concrete Sidewalk		
107	1,600	LF	Remove and Dispose of Existing Curb and Gutter		
108	4	EA	Remove Existing Sign and Post		
109	16	EA	Remove Existing Luminaire		
110	15	EA	Remove Existing Tree		
111	2	EA	Hydrant Extension 1.5 feet		
112	2	EA	Remove Existing Inlet and Plug/Abandon Storm Drain		
113	7	EA	Adjust Existing Manhole to New Grade		
114	7	EA	Adjust Existing Valve/Cleanout to New Grade		
115	165	LF	5-inch Schedule 40 PVC Conduits		
116	157	LF	4-inch Gas Main and Cap		
117	245	LF	New Trace Wire on Existing Gas Main		

118	3	ΕΛ	26 inch Storm Drain Area Inlet		
		EA	36-inch Storm Drain Area Inlet		
119	179	LF	12-inch RCP Storm Drain Pipe		
120	1	EA	12-inch RCP FETS		
121	600	CY	Unclassified Excavation		
122	700	CY	Imported Fill		
123	890	CY	1.5-inch Minus Crushed Base		
			Course		
124	37,116	SF	6-inch Standard Concrete (Fiber		
			Mesh Reinforced)		
125	3,208	SF	6-inch Stamped Concrete Border		
			(Fiber Mesh Reinforced)		
126	7,291	SF	6-inch Sparkle Concrete for Oval		
	•		(Fiber Mesh Reinforced)		
127	411	SF	6-inch Stamped Concrete for		
127		0.	Veterans Plaza (Fiber Mesh		
			Reinforced)		
128	13	EA	Pull Box - Type I		
129	2	CY	Foundation - Concrete		
130	250	LF	CONDUCTOR - AWG #6		
131	3,800	LF	CONDUCTOR - AWG #8		
132	6,800	LF	CONDUCTOR - AWG #10 Ground		
133	3,100	LF	PVC Conduit 2" Sch 80		
134	77 177	ĖΑ	P26-196L-1150-WW-G2-2-UNV		
135	4	EA	P26-196L-1730-WW-G2-2-UNV	\	
136	4 5	EA	P26-196L-650-WW-G2-2-0NV	Κ	
1	<u>5</u> 1	EA	P26-196L-650-WW-G2-5-DBL	(
137				\	
138	1	EA	P26-196L-450-NW-G2-2-UNV	₹	
139	7	EA	SL43-10W-WW-ADA-MED)	
140	2	EA	Internal Halyard Beacon)	
141	~~28 ~	ĘĄ	Ameron MEO-5 (16'5"))	
142	1	EA	Electric Service Drop		
143	2	EA	Electric Service Pedestal		
144	3	EA	Reset Existing Monument Sign		
145	1	LS	Irrigation		
146	35	EA	Coniferous Trees (5-6' Tall)		
147	8	EA	Deciduous Trees (1.5" Cal.)		
148	198	EA	Shrubs (5 Gal.)		
149	154	EA	Perennials & Grasses (1 Gal.)		
150	43	EA	Boulders		
151	2	EA	Benches		
152	260	LF	Stone Seat Walls		
153	14	EA	Patio Seating		
154	7	EA	Rock Monuments (Veterans Park)		
155	2	EA	Flag Poles (Veterans Park)		
156	71	LF	Concrete Seat Wall (Veterans		
			Park)		
157	27	LF	Stacked Stone Seat Wall		
			(Veterans Park)		
158	5	EA	Bike Racks		
159	42	CY	Organic Mulch		
160	32,540	SF	Seed Mix		
161	900	SF	Sod		
162	50	CY	Rock Mulch		
163	15,285	SF	Crushed Fines		
				se 1 - Subtotal	

Phase 2:	Strand U	<u>Inion</u> E	Building to South 7th Avenue		
Item No.	Quantity	Unit	Description	Unit Price	Subtotal
201	1	LS	Mobilization and Insurance		
202	1	LS	Stormwater Management and Erosion Control		
203	1	LS	Construction Traffic Control		
204	1,000	CY	Strip, Stockpile & Replace or		
	,		Dispose of Topsoil		
205	5,500	SY	Sawcut, Remove and Dispose of Existing Asphalt		
206	23,276	SF	Remove and Dispose of Existing Concrete Sidewalk		
207	2,600	LF	Remove and Dispose of Existing Curb and Gutter		
208	270	LF	Remove Existing Retaining Wall		
209	20	EA	Remove Existing Sign and Post		
210	20	EA	Remove Existing Sign and Fost Remove Existing Luminaire		
210	43	EA	Remove Existing Tree		
212	1	EA	Hydrant Extension 1.0 foot		
212	1	EA	Relocate Existing Hydrant		
214	7	EA	Remove Existing Inlet and		+
			Plug/Abandon Storm Drain		
215	2	EA	Remove Existing Inlet and Replace with Cleanout		
216	2	EA	Remove Curb Inlet Grate and Casting, Replace with Area Inlet Grate and Casting		
217	1	EA	Adjust Existing Manhole to New Grade		
218	1	EA	48-inch Storm Drain Manhole		
219	1	EA	48-inch Storm Drain Manhole over Existing 10-inch Storm Drain Pipe		
220	2	EA	72-inch Double Curb Inlet		
221	1	EA	Connect to Existing Storm Drain Pipe with Concrete Collar		
222	175	LF	12-inch RCP Storm Drain Pipe		
223	1	EA	12-inch RCP FETS		
224	1	EA	Curb Cut		
225	400	CY	Unclassified Excavation		
226	6,100	CY	Unclassified Excavation with Haul Off		
227	4,705	SY	Geosynthetic Reinforcement Fabric (Mirafi 380i or approved equal)		
228	1,500	CY	1.5-inch Minus Crushed Base Course		
229	2,360	CY	6-inch Minus Sub-Base Course		
230	37,098	SF	6-inch Standard Concrete (Fiber Mesh Reinforced)		
231	1,373	SF	6-inch Stamped Concrete Border (Fiber Mesh Reinforced)		
232	12	EA	Parking Bumpers		
			Etched MSU Seal		
233	1	EA	Etched Mod Segi		

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	234	2,572	SF	9-inch Stamped Concrete		
L		074		Roundabout Truck Apron		
ļ	235	251	LF	Roundabout Mountable Curb		
	236	318	SF	3-inch Concrete Median Cap		
Ĺ	237	2,720	LF	Standard Curb and Gutter		
	238	345	SF	3-foot Double Gutter		
	239	4,705	SY	Asphalt Surface Course (4-inch		
				Thick)		
	240	192	SF	Truncated Dome Panels		
	241	29	EA	New Sign on New Post		
	242	7	EA	Reset Existing Sign on New Post		
	243	8	EΑ	Flexible Delineators		
	244	2	EΑ	Reset Existing Building Sign		
	245	15	GAL	Epoxy Pavement Markings		
				(White)		
	246	15	GAL	Epoxy Pavement Markings		
				(Yellow)		
Ī	247	447	SF	Thermoplastic Pavement		
				Markings (White)		
-	248	116	SF	Thermoplastic Pavement		
				Markings (Yellow)		
$\overline{}$	249	~~~5	GALY	CUID Epoxy (Yellow)		
.	250	11	EA	Pull Box - Type I		
۲	284	لوك	ex	Foundation Concrete		
ŀ	252	250	LF	CONDUCTOR - AWG #6		
ŀ	253	2,500	LF	CONDUCTOR - AWG #8		
-	254	4,500	LF	CONDUCTOR - AWG #10		
	201	1,000		Ground		
-	255	2,100	JE _	PVC Conduit 2" Sch 80		
	256	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	ĒΑ	P26-196L-2100-WW-G2-2-UNV)	
7	257	8	EA	P26-196L-1150-WW-G2-2-UNV)	
7	258	7	EA	P26-196L-650-WW-G2-2-UNV)	
X	259	15	EA	Ameron MEO-5 (16'5")	7	
Y	260	4	EA	Ameron MBO-8.5 (27'11")	\	
Y	261	, , 4,	ĘA,	Ameron MEO-9 (29'11")	{	
\	262	~~~	EA	Electric Service Drop	/	
ŀ	263	2	EA	Reset Existing Monument Sign		
-	264	1	LS	Irrigation		
ŀ	265	22	EA	Deciduous Trees (1.5" Cal.)		
-	266	440	EA	Shrubs (5 Gal.)		
-	267	105	EA	Perennials & Grasses (1 Gal.)		
-	268	5	EA	Benches		
-	269	72	LF	Concrete Seat Walls		
ŀ	270	10	EA	Bike Racks		
}	271	17,295	SF	Seed Mix		
}	272		SF	Sod		
}		15,937	CY	Rock Mulch		
ŀ	273	32 10	CY			
ŀ	274		SF	Organic Mulch		
}	275	2,887	SF	Crushed Fines	a Cubtatal	
Phase 2 - Subtotal						

BASE BID TOTAL (PHASES 1 AND 2):

		Φ.	and	_/100 DOLLAR
(ALPHA notation)		\$	1)	NUMERIC notation)
This bidder acknowledges receipt of t	he following addenda	1:		
ADDENDUM No.:	Dated: Dated: Dated:			
By signing below, the bidder agrees t requirements of the CONTRACT in st	rict accordance with t	the bidding do	cuments.	
Company Name:				_
Business Address:				
Construction Contractor Registration No.:				
Phone No.:				
Fax No.:				
Email:				
_				
Date:				
Bid Proposals entitled to consideration sl the proposal as follows (Initial which requ		oper represent	ative of the	firm submitting
The principal of a single owner f	rm;			
A principal of a partnership firm;				
An officer of an incorporated firm copy of the resolution of the Boa of the resolution),	n, or an agent whose sig rd of Directors authorizi	gnature is accoing that agent t	mpanied by o sign; or (a	/ a certified attach a copy
Other persons signing for a sing evidencing his authority to sign f		ership shall atta	ach a powe	r-of-attorney
Signature:				
Print Name:				
Title:				

SECTION 165600 LIGHTING

PART 1 - GENERAL

1.1 SUMMARY

- A. This section includes the requirements for pedestrian, parking lot and roadway light poles.
- B. Work included in this section shall be in accordance with the contract documents, and any approved modifications.

1.2 SUMBITTALS

- A. Product Data: For each luminaire, pole, and support component, arranged in order of lighting unit designation. Include data on features, accessories, and finishes.
- B. Shop Drawings: Include anchor-bolt templates keyed to specific poles and certified by manufacturer.

1.3 QUALITY ASSURANCE

- A. All materials and equipment shall conform to the applicable industry standards and codes, including but not limited to:
 - 1. National Electrical Code (NEC)
 - 2. Underwriters Laboratories (UL)
 - 3. American National Standards Institute (ANSI)
 - 4. National Fire Protection Association (NFPA)
- B. All work shall be performed by qualified and licensed electricians in accordance with the NEC and other applicable codes.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Available Manufacturers: As indicated on Light Fixture Schedule or as approved through prior approval process.
- 2.2 LUMINAIRES, GENERAL REQUIREMENTS
 - A. Luminaires shall comply with UL 1598 and be listed and labeled for installation in wet locations by an NRTL acceptable to authorities having jurisdiction.
 - B. Comply with IESNA RP-8 for parameters of lateral light distribution patterns indicated for luminaires.

- C. Metal Parts: Free of burrs and sharp corners and edges.
- D. Sheet Metal Components: Corrosion-resistant aluminum, unless otherwise indicated. Form and support to prevent warping and sagging.
- E. Housings: Rigidly formed, weather- and light-tight enclosures that will not warp, sag, or deform in use. Provide filter/breather for enclosed luminaires.
- F. Doors, Frames, and Other Internal Access: Smooth operating, free of light leakage under operating conditions, and designed to permit relamping without use of tools. Designed to prevent doors, frames, lenses, diffusers, and other components from falling accidentally during relamping and when secured in operating position. Doors shall be removable for cleaning or replacing lenses. Designed to disconnect ballast when door opens.
- G. Exposed Hardware Material: Stainless steel.
- H. Plastic Parts: High resistance to yellowing and other changes due to aging, exposure to heat, and UV radiation.
- 1. Light Shields: Metal baffles, factory installed and field adjustable, arranged to block light distribution to indicated portion of normally illuminated area or field.
- J. Reflecting surfaces shall have minimum reflectance as follows, unless otherwise indicated:
 - 1. White Surfaces: 85 percent.
 - 2. Specular Surfaces: 83 percent.
 - 3. Diffusing Specular Surfaces: 75 percent.
- K. Lenses and Refractors Gaskets: Use heat- and aging-resistant resilient gaskets to seal and cushion lenses and refractors in luminaire doors.
- L. Luminaire Finish: Manufacturer's standard paint applied to factory-assembled and tested luminaire before shipping. Where indicated, match finish process and color of pole or support materials.
- M. Factory-Applied Finish for Steel Luminaires: Color as selected by Architect. Comply with NAAMM's "Metal Finishes Manual for Architectural and Metal Products" for recommendations for applying and designating finishes.
- N. Factory-Applied Finish for Aluminum Luminaires: Color shall be as specified on Light Fixture Schedule or selected by Architect, if so specified. Comply with NAAMM's "Metal Finishes Manual for Architectural and Metal Products" for recommendations for applying and designating finishes.

2.3 LUMINAIRE-MOUNTED PHOTOELECTRIC RELAYS

- A. Comply with UL 773 or UL 773A.
- B. Contact Relays: Factory mounted, single throw, designed to fail in the on position, and factory set to turn light unit on at 1.5 to 3 fc and off at 4.5 to 10 fc with 15-second minimum time delay. Relay shall have directional lens in front of photocell to prevent artificial light sources from causing false turnoff.
 - 1. Relay with locking-type receptacle shall comply with NEMA C136.10.

2. Adjustable window slide for adjusting on-off set points.

2.4 LED LUMINAIRES

A. LED Luminaire with a minimum CRI of 70 and color temperature equal or greater than lamp specified on Light Fixture Schedule. L70 lamp life minimum of 50,000 hours

2.5 POLES AND SUPPORT COMPONENTS, GENERAL REQUIREMENTS

- A. Structural Characteristics: Comply with AASHTO LTS-4.
 - 1. Wind-Load Strength of Poles: Adequate at indicated heights above grade without failure, permanent deflection, or whipping in steady winds of speed indicated in Part 1 "Structural Analysis Criteria for Pole Selection" Article, with a gust factor of 1.3.
 - 2. Strength Analysis: For each pole, multiply the actual equivalent projected area of luminaires and brackets by a factor of 1.1 to obtain the equivalent projected area to be used in pole selection strength analysis.
- B. Luminaire Attachment Provisions: Comply with luminaire manufacturers' mounting requirements. Use stainless-steel fasteners and mounting bolts, unless otherwise indicated.
- C. Mountings, Fasteners, and Appurtenances: Corrosion-resistant items compatible with support components.
 - 1. Materials: Shall not cause galvanic action at contact points.
 - 2. Anchor Bolts, Leveling Nuts, Bolt Caps, and Washers: Hot-dip galvanized after fabrication, unless stainless-steel items are indicated.
 - 3. Anchor-Bolt Template: Plywood or steel.
- D. Concrete Pole Foundations: Cast in place, with anchor bolts to match pole-base flange. Concrete, reinforcement, and formwork are specified in Division 03 Section "Cast-in-Place Concrete."
- E. Breakaway Supports: Frangible breakaway supports, tested by an independent testing agency acceptable to authorities having jurisdiction, according to AASHTO LTS-4.

2.6 CONCRETE POLES

A. Poles: As specified on Light Fixture Schedule on Drawings.

PART 3 - EXECUTION

3.1 LUMINAIRE INSTALLATION

- A. Install lamps in each luminaire.
- B. Fasten luminaire to indicated structural supports.
 - Use fastening methods and materials selected to resist

seismic forces defined for the application and approved by manufacturer.

- C. Adjust luminaires that require field adjustment or aiming to satisfaction of Owner.
- Install all wiring and circuitry in accordance with the NEC and other applicable codes.
- E. Install all equipment and materials to ensure proper operation and performance.

3.2 POLE INSTALLATION

- A. Align pole foundations and poles for optimum directional alignment of luminaires and their mounting provisions on the pole.
- B. Clearances: Maintain the following minimum horizontal distances of poles from surface and underground features, unless otherwise indicated on Drawings:
 - Fire Hydrants: 8'.
 - Water, Gas, Electric, Communication, Storm Drainage and Sewer Lines: 6'.
 - Trees: 15'.
- C. Concrete Pole Foundations: Set anchor bolts according to anchor-bolt templates furnished by pole manufacturer. Concrete materials, installation, and finishing requirements are specified in Division 03 Section "Cast-in-Place Concrete."
- D. Foundation-Mounted Poles: Mount pole with leveling nuts and tighten top nuts to torque level recommended by pole manufacturer.
 - Use anchor bolts and nuts selected to resist seismic forces defined for the application and approved by manufacturer.
 - Grout void between pole base and foundation. Use nonshrink or expanding concrete grout firmly packed to fill space.
 - Install base covers, unless otherwise indicated.
 - Use a short piece of 1/2-inch diameter PVC pipe to make a drain hole through grout. Arrange to drain condensation from interior of pole.
- E. Embedded Poles with Tamped Earth Backfill: Set poles to depth below finished grade indicated on Drawings, but not less than one-sixth of pole height.
 - Dig holes large enough to permit use of tampers in the full depth of hole.
 - Backfill in 6-inch (150-mm) layers and thoroughly tamp each layer so compaction of backfill is equal to or greater than that of undisturbed earth.
- F. Embedded Poles with Concrete Backfill: Set poles in augered holes to depth below finished grade indicated on Drawings, but not less than one-sixth of pole height.
 - Make holes 6 inches (150 mm) in diameter larger than pole diameter.

- Fill augered hole around pole with air-entrained concrete having aminimum compressive strength of 3000 psi (20 MPa) at 28 days, and finish in a dome above finished grade.
- Use a short piece of 1/2-inch- (13-mm-) diameter pipe to make a drain hole through concrete dome. Arrange to drain condensation from interior of pole.
- Cure concrete a minimum of 72 hours before performing work on pole.
- G. Raise and set poles using web fabric slings (not chain or cable).
- H. All poles shall be checked after one (1) year of operation for proper vertical alignment and shall be adjusted to true plumb if necessary.

3.3 GROUNDING

- A. Ground metal poles and support structures according to Division 26 Section "Grounding and Bonding for Electrical Systems."
 - Install grounding electrode for each pole, unless otherwise indicated.
 - Install grounding conductor pigtail in the base for connecting luminaire to grounding system.
- B. Ground nonmetallic poles and support structures according to Division 26 Section "Grounding and Bonding for Electrical Systems."
 - Install grounding electrode for each pole.
 - Install grounding conductor and conductor protector.
 - Ground metallic components of pole accessories and foundations.

3.4 POWER PEDESTAL

A. Power pedestals are to be 100 Amp, with 30 Amp, 50 Amp circuits and 20 Amp convenience level plugins. Provide & install Milbank 5200 series RV pedestal (or equal) containing (1) 50A CS6375 & (2) NEMA 5-20R receptacles. Provide & install feeder, conduit, & base per manufacturer's instructions.

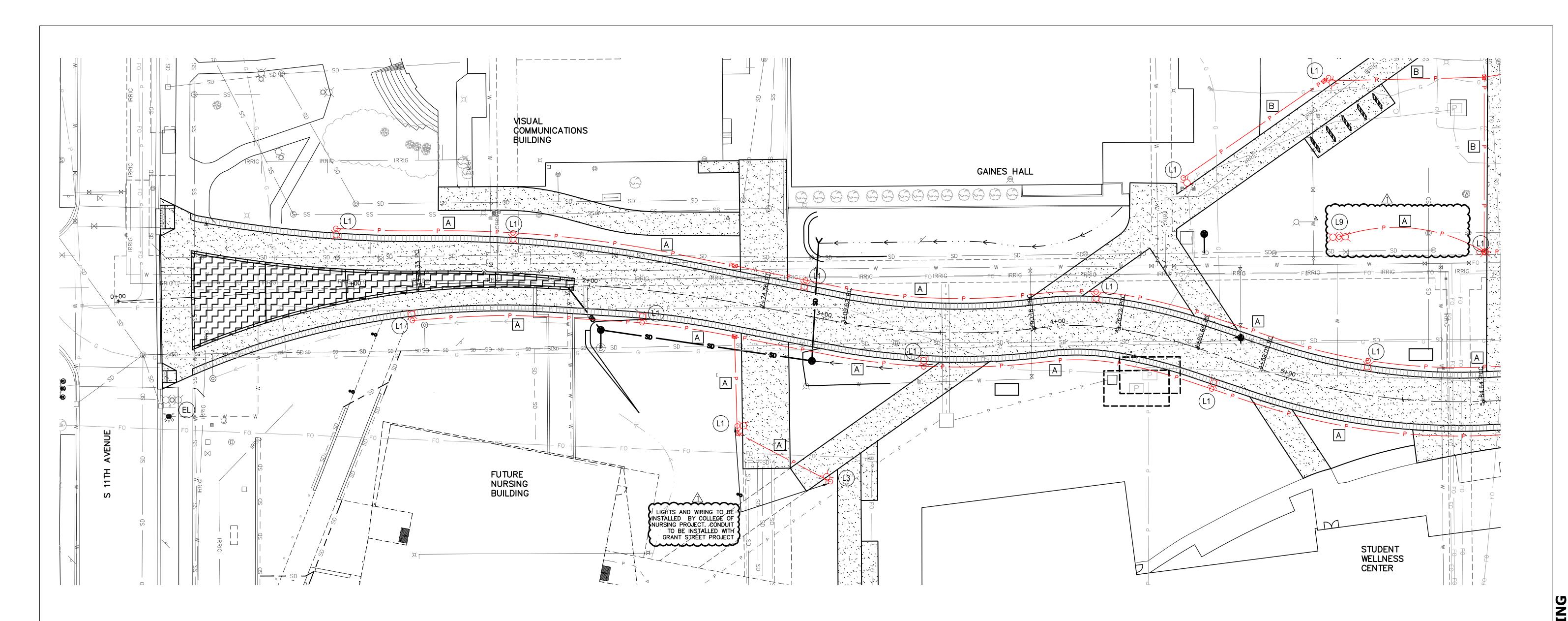
3.5 TESTING

- A. Test all equipment and materials to ensure proper operation and performance.
- B. Repair or replace any equipment or materials that do not meet the specified requirements.

3.6 CLEANING

- A. Clean all equipment and materials upon completion of installation.
- B. Remove all debris and waste materials from the site.

END OF SECTION



ELECTRICAL NOTES:

1. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH CIVIL AND GENERAL CONTRACTOR FOR ROUTING, TRENCHING, AND DEMOLITION.

2. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH CIVIL DRAWINGS FOR ADDITIONAL WORK.

3. NOT ALL UTILITIES AND ELECTRICAL WORK IS SHOWN ON THIS DRAWING.

4. EXISTING LIGHT FIXTURE TO REMAIN SHOWN FOR REFERENCE AND OVERALL SITE POLE REPLACEMENT MAPPING. REWORK UNDERGROUND CIRCUITRY AS REQUIRED TO REMAIN CONNECTED ELECTRONICALLY COMPLETE.

5. FOR EXISTING LIGHT FIXTURES TO BE REMOVED AND RETURNED TO OWNER FOR RETENTION, REMOVE CIRCUIT WIRING BACK TO SOURCE. EXISTING UNDERGROUND CONDUIT CAN BE ABANDONED IN PLACE IF NOT IN CONFLICT WITH OTHER PROJECT ELEMENTS.

CONDUIT RUNS:

A - 1 OF 2" PVC CONDUIT
2 OF AWG NO. 8 CONDUCTOR
1 OF AWG NO. 10 CONDUCTOR

B - 2 OF 2" PVC CONDUIT
2 OF AWG NO. 8 CONDUCTOR
2 OF AWG NO. 10 CONDUCTOR

NOTE: CONDUIT RUN B SPARE CONDUIT SHALL BE CAPPED WITH 1 OF AWG NO. 10 AND 2500# PULL TAPE PLACED INSIDE CONDUIT.





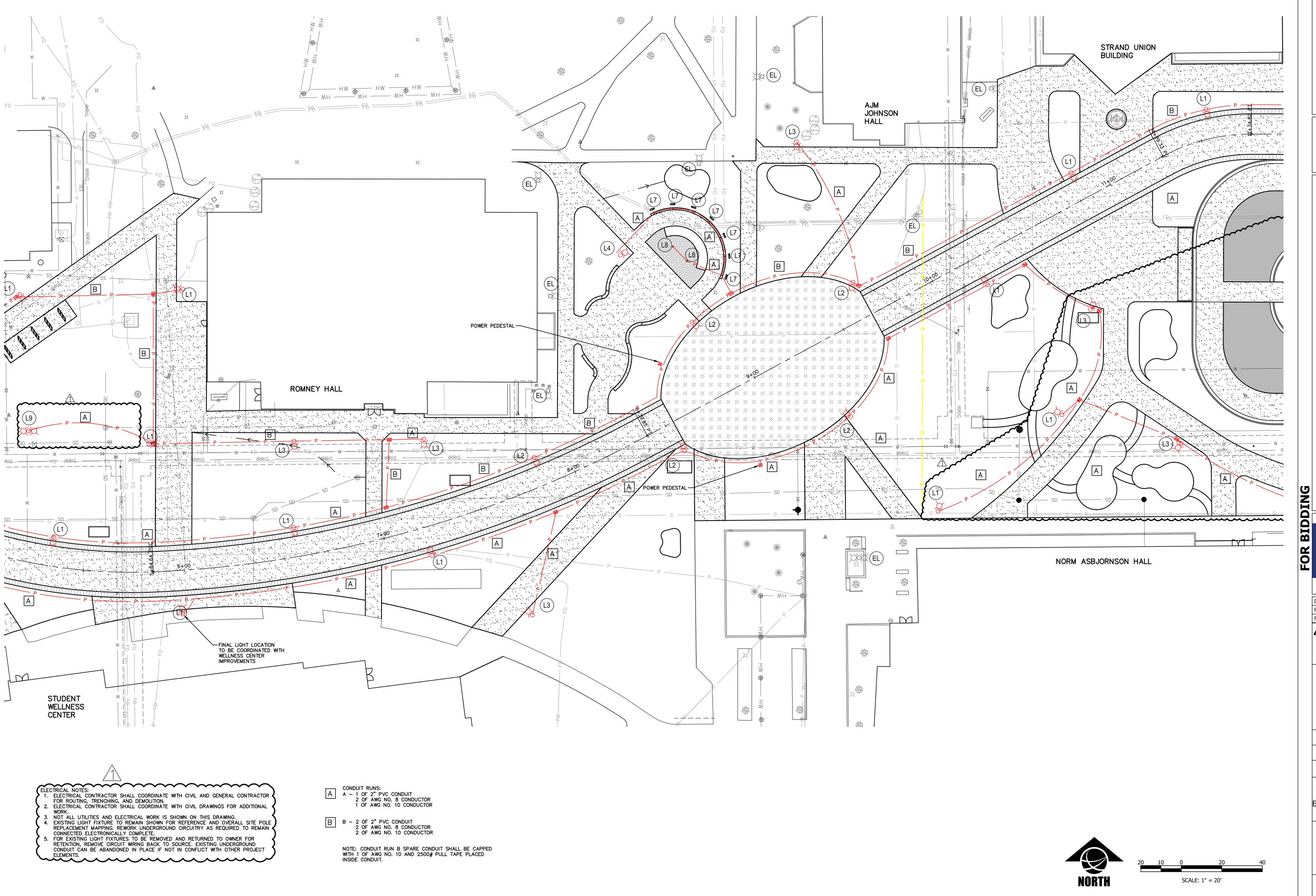
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SHEET TITLE

ELECTRICAL SITE PLAN

SHEET

E1.1



MONTANA STATE UNIVERSITY

MSU-CPDC

MONTANA STATE UNIVERSITY BOZEMAN, MONTANA PHONE: 406.994.5413 FAX: 406.994.5665

TREET

DRAWN BY: CMK/CE
REVIEWED BY: TP/DRS
REV. DESCRIPTION DATE

FOR BIDDING 04/05/24

PA#22-0001

PPA#22-0001 A/E#2022-02-23D

22236

SHEET TITLE
ELECTRICAL SITE PLAN

SHEET

E1.2



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RETAIL

GRANT STREJ

DRAWN BY: CMK/CE
REVIEWED BY: TP/DRS
REV. DESCRIPTION DATE

FOR BIDDING 04/05/24

PPA#22-0001

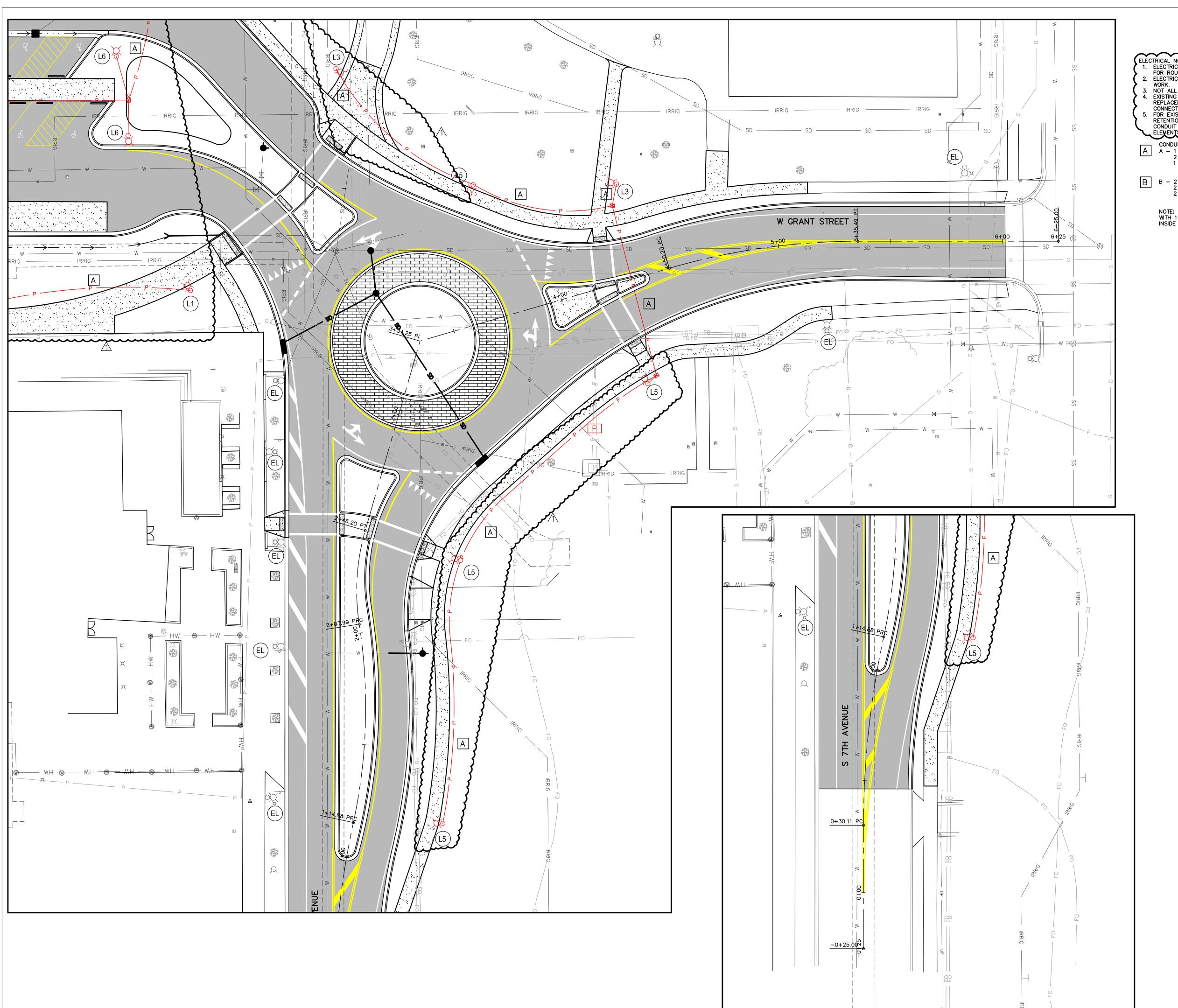
A/E#2022-02-23D

22236 SHEET TITLE

ELECTRICAL SITE PLAN

SHEET

E1.3





ELECTRICAL NOTES:

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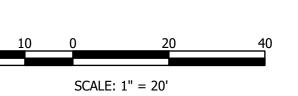
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1 OF AWG NO. 10 CONDUCTOR

B B - 2 OF 2" PVC CONDUIT 2 OF AWG NO. 8 CONDUCTOR 2 OF AWG NO. 10 CONDUCTOR

NOTE: CONDUIT RUN B SPARE CONDUIT SHALL BE CAPPED WITH 1 OF AWG NO. 10 AND 2500# PULL TAPE PLACED INSIDE CONDUIT.





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SHEET TITLE

ELECTRICAL SITE PLAN

SHEET

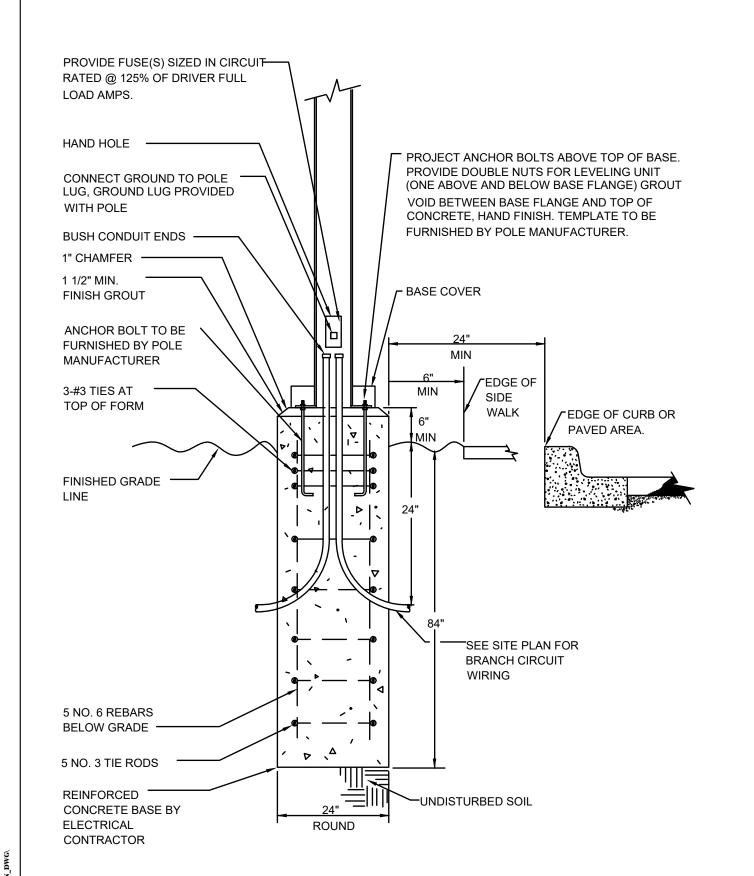
E1.4

* FAWS to be set at 70% at installation

FUTURE USE - PUREFORM P26 MEDIUM AREA LIGHT - SLIP FITTER 27'-11" - FINISHED GRADE - DOUBLE CABLE **ENTRANCES** TO NEXT POLE TO NEXT POLE CONDUIT

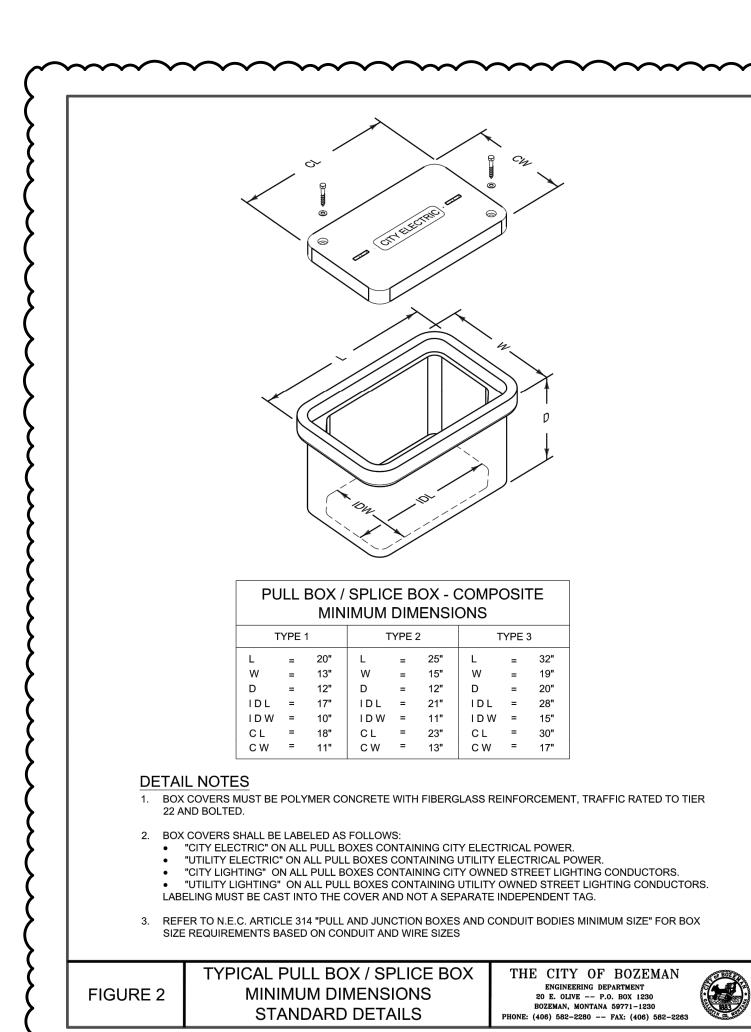
AMERON 28' DIRECT BURY POLE DETAIL

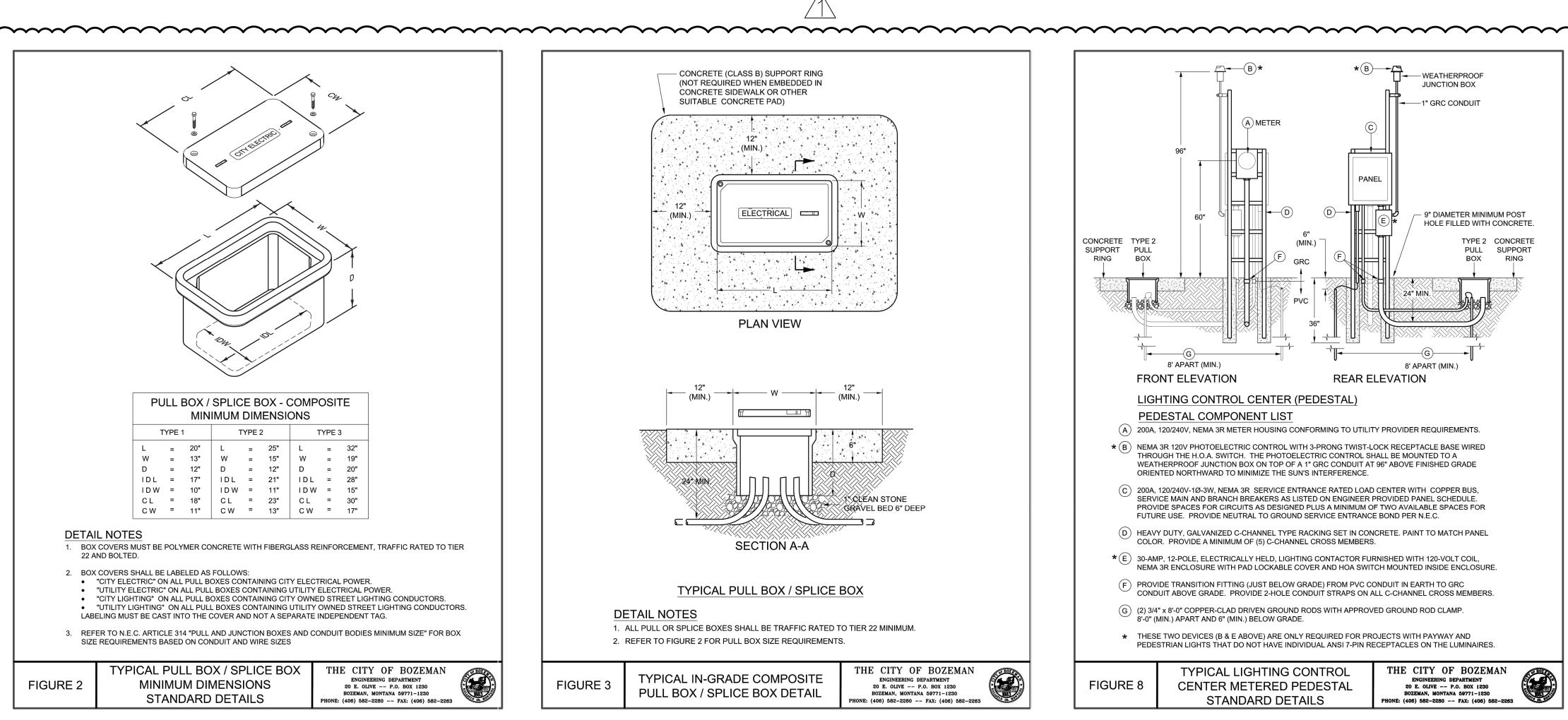
NOT TO SCALE

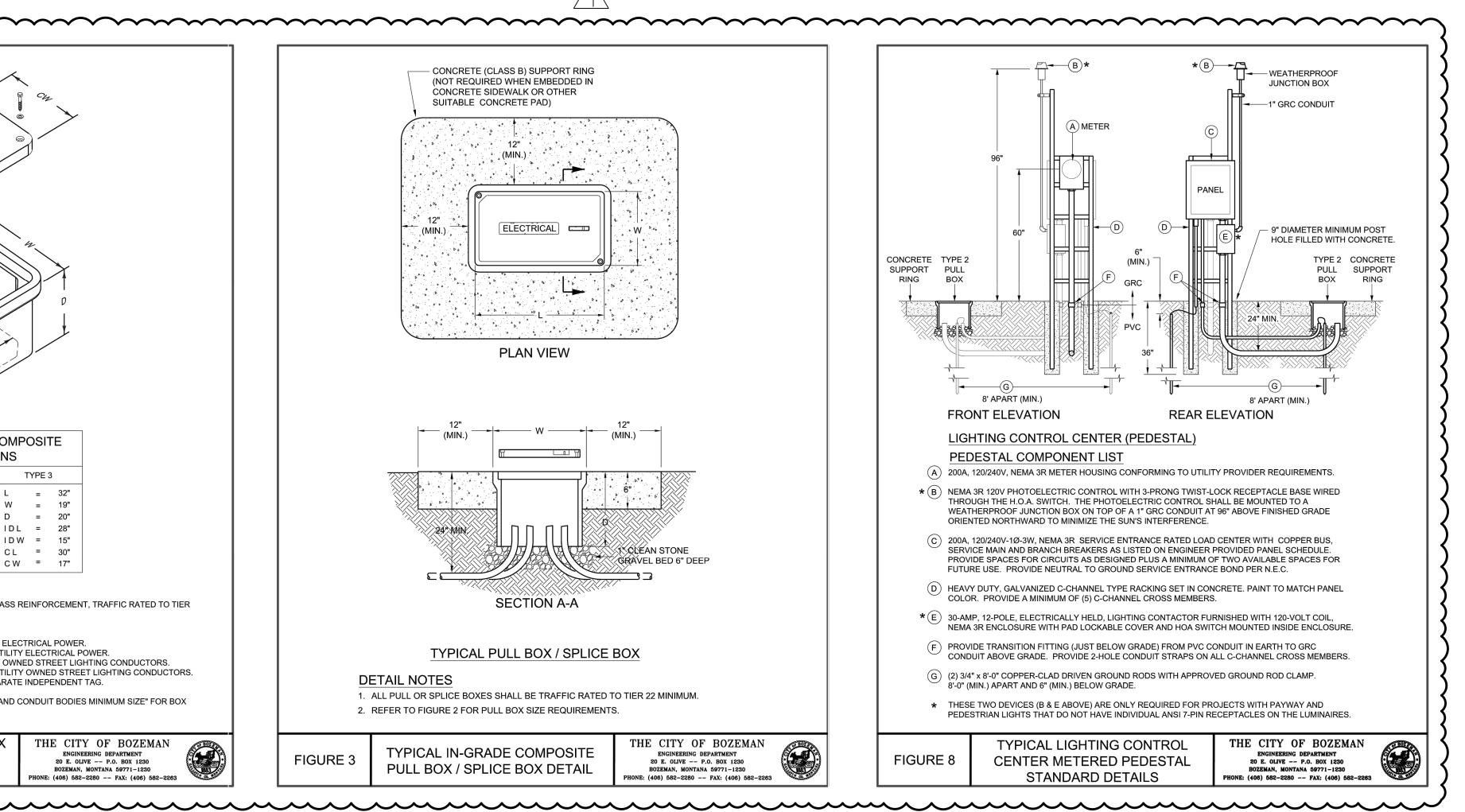




NOT TO SCALE









- NEMA 7-PIN RECEPTACLE FOR

> MSU-CPDC MONTANA STATE UNIVERSITY

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SHEET TITLE

| ELECTRICAL DETAILS

SHEET