

TO: Human Resource/Public Works Committee
 Margaret McAvoy, Administrator/Controller
FROM: Sue Ann Kopmeyer, Parks and Recreation Director
DAY/DATE: Wednesday, October 2, 2019
RE: Campground Improvements Contractor

Isabella County Staff



BACKGROUND

In April 2018 a grant application was submitted by Isabella County Parks to the Department of Natural Resources for a Recreation Passport Grant for the Coldwater Lake Park Campground Improvements Project. This is a \$220,000 grant for Isabella County, with \$150,000 funded through the Recreation Passport Grant and \$70,000 funded through the Isabella County Parks Budget. The scope of the project includes campsite improvements, making 8-9 pull-in sites into pull thru sites, electrical upgrades to approximately 17 +/- sites from 30 AMP to 50 AMP, landscaping, and benches.

The grant was awarded to the County and contract signed this year with the Department of Natural Resources. Prime Professional William A. Kibbe & Associates, Inc. was hired earlier this year for the Campground Improvements Project as required by the Recreation Passport Grant. Our contract fee with Kibbe is \$20,085. Their responsibilities include assisting with the Campground Improvements Contractor Request for Proposals (Bids) and project management.

The RFB for the Campground Improvements Contractors went out Tuesday, September 10, 2019 via the MiTN (Michigan Intergovernmental Trade Network), County Website, and professional listing of interested companies. Proposals were due by 2 p.m. Monday, September 30, 2019 with three (3) companies turning in an official bid to the County.

Company	City	Base Bid	Alternate 2	Total
Malley Construction, Inc.	Mount Pleasant, MI	\$ 144,448	\$ 52,400	\$ 196,848
J. Ranck	Mount Pleasant, MI	154,780	68,885	223,665
*North Country Contracting	Grawn, MI	144,395	63,800	208,195

*North Country was deemed not responsive re: references and letter of submittal

Review of the Bids has been done by Administration, the Prime Professional and Park Staff. Also, the DNR Grants Division must review and approve the recommended contractor bid. The bid of Malley Construction, Inc. is our choice for approval for this project.

FINANCIAL IMPACT

The match of \$70,000 will be funded by the County Parks Designated Fund Balance for Projects, remaining 2% funds for Parks Projects (\$20,000) and ICPR Force Account Labor to fulfill the grants requirements. With the proposed contractor bid from Malley for \$196,848 and the Prime Professional fee previously approved for the project, we are at an estimated total of \$216,933 with a remaining balance of \$3,067. The remaining balance will be available for any change orders once the project is underway.

RECOMMENDATIONS

Consider to approve the Project Contractor Service Agreement for the County Parks Coldwater Lake Family Park Improvements Project with Malley, Inc. of Mt. Pleasant, Michigan.

ATTACHMENTS

1. Agreement w/ Attachments
2. RFB Coldwater Lake Family Park Improvements Project
3. Addendum 1
4. Addendum 2

AGREEMENT

THIS AGREEMENT, is made and entered into this 15th day of October, 2019, by and between the **COUNTY OF ISABELLA**, a municipal corporation and political subdivision of the State of Michigan (hereinafter referred to as the "County") and **MALLEY CONSTRUCTION, INC.**, whose business address is 1565 S. Park Place St., Mt. Pleasant, MI 48858 (hereinafter referred to as the "Contractor").

RECITALS:

WHEREAS, the County has requested proposals from experienced and qualified contractors for the Coldwater Lake Family Park Campground Improvements Project (Coldwater Project) as described in the Michigan Department of Natural Resources Recreation Passport Grant #RP18-0017, at Coldwater Lake Family Park, an Isabella County Park, located at 1703 N. Littlefield Rd., Weidman, Michigan (hereinafter referred to as the "Work Site"); and

WHEREAS, the Contractor has submitted a proposal to the County to furnish all labor, materials, tools, equipment, permit fees, and services necessary to perform and complete the entire work the County requires at the Work Site; and

WHEREAS, the County accepts the Contractor's proposal subject to the terms and conditions of this Agreement.

NOW, THEREFORE, for and in consideration of the mutual covenants hereinafter contained, **IT IS HEREBY AGREED** as follows:

I. SERVICES TO BE PERFORMED BY THE CONTRACTOR. The Contractor shall provide all labor, materials and services at the Work Site to renovate and expand 8 campsites into 9 pull-through sites, with a new gravel road and drives, new 50 amp electrical service and new water risers, and move electrical service for 10 north campsites to the west park transformer, consistent with the technical specifications contained in the Request for Bids, and its Addendum No. 1 and Addendum No. 2 (hereinafter referred to as "Project."). A copy of the RFB and its Addendum No. 1 and Addendum No. 2 depicting the Project is attached as Exhibit A and incorporated by reference. The Project includes, but is not limited to, tree and brush clearing, site grading, layout of new pull-through sites, and electrical and water service improvements.

The primary interface between the Contractor and the County shall be through the Isabella County Administrator's Office and/or Isabella County Parks Department. The Isabella County Parks Department Director shall be responsible for the coordination of the Contractor's work. The Contractor, prior to commencing work, shall schedule all work at the Work Site with the County's Parks Department Director.

All labor, tools, equipment, machinery, vehicles and materials required for the

Project shall be supplied by the Contractor.

The Contractor guarantees its performance of the services required under this Agreement, and shall submit to the personal inspection of such services by the County's Parks Department Director and by such other representative or agent as may be designated by the County.

II. COMPENSATION. It is expressly understood and agreed that the total compensation to be paid to the Contractor shall not exceed the sum of ONE HUNDRED NINETY-SIX THOUSAND EIGHT HUNDRED FORTY-EIGHT AND NO/100 DOLLARS (\$196,848.00), consisting of a base bid of ONE HUNDRED FORTY-FOUR THOUSAND FOUR HUNDRED FORTY-EIGHT AND NO/100 DOLLARS (\$144,448.00) and Alternate Bid No. 2 in the amount of FIFTY-TWO THOUSAND FOUR HUNDRED AND NO/100 DOLLARS (\$52,400.00). The breakdown of compensation for tree and brush removal, site grading, layout of new pull-through sites, and electrical and water service improvements is set forth in the pages from the Contractor's proposal attached as Exhibit B and incorporated by reference.

The compensation authorized above shall be billed and paid as follows:

- A. When the entire Project is completed.
- B. The County shall process and pay Contractor the sum correctly billed to it in accordance with the County's procedure for payment of Accounts Payable within thirty (30) days after the County has received all of the following:
 - 1. The bill stating the Project has been completed on or before the date of invoicing and total sum due.
 - 2. Verification of said completion from the inspector(s) designated by the County pursuant to Section III of this Agreement.
 - 3. Before payment of the bill, County may require that it be provided with proof that Contractor has paid its employees and any suppliers and/or subcontractors providing materials or performing services under this Agreement.

Completion of the work being billed shall be to the satisfaction of the County's inspector(s). The inspector(s) shall conduct an inspection before payment of any bill submitted pursuant to this section within five (5) business days of the County's receipt of a bill.

Payment of compensation under this Agreement is contingent upon the availability of funding, as determined by the Isabella County Board of Commissioners. This Project is funded by a Michigan Department of Natural Resources Recreation Passport Grant (#RP18-0017). The Contractor shall comply with all Grant requirements.

III. EXAMINATION OF EXISTING FACILITY, QUALITY OF WORKMANSHIP AND INSPECTION OF WORK. The Contractor shall be responsible for examining the Work Site's existing conditions in order to gain full information under which the work is to be carried out. Failure of the Contractor to inform itself shall in no way relieve the Contractor from the necessity to complete the work without additional cost to the County.

All work done by the Contractor under this Agreement shall be performed in a skillful and workmanlike manner, and according to applicable local and State of Michigan codes. The Contractor shall only employ persons who are skilled in the work to be performed. The County may in its sole discretion require the Contractor to remove any worker from the Project that County deems incompetent or careless.

The County shall designate the Director of the County's Parks Department and such other individual or individuals it may desire to act as its representative(s) in the inspection of work done by the Contractor under this Agreement (hereinafter referred to as the "inspector(s)"). The inspector(s) shall periodically inspect the work done by the Contractor under this Agreement to ensure that such work is in accordance with the Project's requirements set forth in Section I of this Agreement.

The inspections to be conducted by the inspector(s) shall include, but not be limited to, inspection of the work completed by the Contractor upon notification from the Contractor of having substantially completed the Project and on completion of all items on the final punch list, but prior to Contractor receiving compensation therefore as set forth in Section II of this Agreement. In the event the inspector(s) discovers that any of the work is not in compliance with the requirements of this Agreement, and applicable Federal, State or local laws, ordinances, rules, regulations and codes, or is otherwise defective, he/she/they shall deliver to the County and the Contractor written notification of such defects or failure to comply with this Agreement. The County may, without any additional cost to the County other than that agreed to in Section II, require the Contractor to correct such defects, deviations from or non-compliance with the requirements of this Agreement, or the requirements of applicable Federal, State or local laws, ordinances, rules, regulations and codes prior to compensating the Contractor under this Agreement.

Any inspection(s) by the County, as authorized by this Section III shall not relieve the Contractor from any responsibility regarding defects or other failures to meet the requirements of this Agreement.

IV. WARRANTIES. The Contractor warrants that it meets all Federal, State and local licensing, certifications and authorization requirements to perform all the work required by the Project.

V. CLEANING UP. The Contractor and its subcontractors shall at all times keep the Work Site and surrounding area free from accumulation of waste material or rubbish caused by its operations. Daily clean-up and removal from the work area of all debris resulting from Contractor's work is required. The Contractor shall be responsible for paying for and hauling away any debris and waste resulting from the Project. At the completion of

the Project, the Contractor shall remove all the Project's remaining waste material and rubbish from and about the Work Site, as well as its tools, equipment, and machinery.

If the Contractor fails to clean up during and at the completion of the Project, the County may do so and the cost thereof shall be charged to the Contractor. The Contractor shall reimburse the County for the clean-up costs it incurs within thirty (30) days of receipt of the County's bill setting forth such costs and the total sum due.

VI. PROTECTION OF PERSONS AND PROPERTY.

- A. The Contractor shall be responsible for initiating, maintaining and supervising all safety precautions and programs in connection with the work it is to perform under this Agreement.
- B. The Contractor shall take all reasonable precautions for safety of, and shall provide all reasonable protection to prevent damage, injury or loss to:
 - 1. All its and the County's employees at the Work Site and all other persons who may be affected thereby.
 - 2. Other property at the Work Site or adjacent thereto.
- C. The Contractor shall give all notices and comply with all applicable laws, ordinances, rules and regulations and lawful orders of any public authority bearing on the safety of persons or property or their protection from damage, injury or loss.
- D. The Contractor shall erect and maintain, as required by existing conditions and progress of the Project, all reasonable safeguards for safety and protection, including but not limited to posting danger signs and other warnings against hazards, and setting up barriers where needed.
- E. The Contractor shall promptly repair or remedy all injury, damage or loss to any property that is caused in whole or in part by the Contractor, any subcontractor, any sub-subcontractor or anyone directly or indirectly employed by them, or by anyone for whose acts any of them may be liable and for which the Contractor is responsible under subsection B of this section.
- F. Under no circumstances shall any tools of any kind or materials being used be left unattended at the Work Site.
- G. The foregoing obligations of the Contractor are in addition to its obligations under Section XI of this Agreement.

VII. COMPLIANCE WITH THE LAW AND OBTAINING PERMITS.

- A. In performing its responsibilities under this Agreement, the Contractor shall comply with all applicable Federal, State and local laws, ordinances, codes, rules and regulations, including but not limited to the following:
1. American National Standards Institute.
 2. American Society for Testing and Materials.
 3. National Electric Code
 4. Occupational Safety and Health Administration.
 5. State and Local Zoning and Building Codes.
- B. The Contractor shall secure and pay for all permits and governmental fees, licenses and inspections necessary for the Project.
- C. The Contractor and its subcontractors shall comply with the Michigan Occupational Safety and Health Act, 1974 PA 154, as amended, (hereinafter referred to as "OSHA") and regulations promulgated pursuant thereto. If during the progress of the Project, it is discovered that the Contractor has failed to comply with OSHA, its regulations, or other applicable Federal, State or local laws, ordinances and regulations, the Contractor and its subcontractors shall take such steps as necessary to comply, at no additional cost to the County.
- D. The Contractor and its subcontractors shall be held responsible for the safety of their employees and any unsafe acts or conditions that may cause injury or damage to any persons or property within and around the Work Site under this Agreement.
- E. If the Contractor or any subcontractor uses any product at the Work Site which contains any ingredient that could be hazardous or injurious to a person's health, a Material Safety Data Sheet (MSDS) must be submitted to the Director of the Isabella County Parks Department prior to commencement of work.
- F. Breach of this Section VII shall be regarded as a material breach of this Agreement, and in the event the Contractor, its subcontractors and sub-subcontractors are found not to be in compliance with this subsection, the County may terminate this Agreement effective as of the date of delivery of written notification to the Contractor.

VIII. APPLICABLE LAW AND VENUE. This Agreement shall be subject to, governed by, and construed according to the laws of the State of Michigan.

It is expressly understood and agreed that any legal or equitable action that arises out of or regarding this Agreement shall be in Michigan Courts whose jurisdiction and

venue shall be established in accordance with the statutes of the State of Michigan and Michigan Court Rules. In the event any action is brought in or moved to Federal Court, the venue for such action shall be the Federal Judicial District of Michigan, Western District, Southern Division.

IX. NONDISCRIMINATION. The Contractor, as required by law, shall not discriminate against an employee or applicant for employment with respect to hire, tenure, terms, conditions or privileges of employment, or a matter directly or indirectly related to employment because of race, color, religion, national origin, age, sex, height, disability which is unrelated to the individual's ability to perform the duties of a particular job or position, weight, marital status or political affiliation.

The Contractor shall adhere to all applicable Federal, State and local laws, ordinances, rules and regulations prohibiting discrimination, including, but not limited to the following: (i) the Elliott-Larsen Civil Rights Act, 1976 PA 453, as amended; (ii) the Persons with Disabilities Civil Rights Act, 1976 PA 220, as amended; (iii) Section 504 of the Federal Rehabilitation Act of 1973, P.L. 93-112, 87 Stat 355, as amended, and regulations adopted thereunder; and (iv) the Americans with Disabilities Act of 1990, P.L. 101-336, 104 Stat 327 (42 USC §12101 *et seq.*), as amended, and regulations promulgated thereunder.

Breach of this section shall be regarded as a material breach of this Agreement.

X. INDEPENDENT CONTRACTOR.

- A. It is expressly understood and agreed that the Contractor, its subcontractors and sub-subcontractors, are independent contractors. The employees, servants, agents and assigns of the Contractor, its subcontractors or sub-subcontractors shall in no way be deemed to be and shall not hold themselves out as employees, servants or agents of the County and shall not be entitled to any fringe benefits of the County, such as, but not limited to, health and accident insurance, life insurance, paid vacation or sick leave, or longevity. The Contractor, its subcontractors and sub-subcontractors shall be responsible for paying all salaries, wages and other compensation which may be due their employees or agents for performing work under this Agreement and for the withholding and payment of all applicable taxes, including, but not limited to, income and social security taxes, to the proper Federal, State and local governments.
- B. The direction and supervision of the working forces, including subcontractors, rests exclusively with the Contractor. The County shall not issue any instructions to, or otherwise interfere with the same.

XI. INDEMNIFICATION AND HOLD HARMLESS. The Contractor shall, at its own expense, protect, defend, indemnify and hold harmless the County, and its elected and appointed officers, employees and agents from all claims, damages, costs, law suits and expenses, including, but not limited to, all costs from administrative proceedings, court

costs and attorney fees that they may incur as a result of any acts, omissions or negligence of the Contractor or any of its officers, employees, agents or subcontractors which may arise out of this Agreement.

The Contractor's indemnification responsibilities under this section shall include the sum of damages, costs and expenses which are in excess of the sum paid out on behalf of or reimbursed to the County, its officers, employees and agents by the insurance coverage obtained and/or maintained by the Contractor pursuant to the requirements of this Agreement.

XII. INSURANCE. During the duration of this Agreement, the Contractor shall maintain the following insurances:

- A. Workers' Compensation Insurance including Employer's Liability Coverage, in accordance with all applicable statutes of the State of Michigan.
- B. The Contractor shall be responsible for insuring all its tools, equipment and materials which it may use and/or leave at the Project's work sites. The COUNTY shall not be responsible for any loss or damage to the Contractor's tools, equipment and materials.
- C. Professional Liability Insurance (errors and omissions) with limits of liability of not less than ONE MILLION AND NO/100 DOLLARS (\$1,000,000.00) per claim and aggregate. The Contractor shall keep its Professional Liability Insurance either in force, or purchase extended reporting period "tail" coverage, for a minimum of three (3) years after the termination of this Agreement.
- D. Comprehensive General Liability Insurance (occurrence basis only) with limits of liability not less than ONE MILLION AND NO/100 DOLLARS (\$1,000,000.00) per occurrence and/or aggregate, covering Personal Injury, Bodily Injury, and Property Damage. Said insurance shall include the following exclusions:
 - 1) Broad Form General Liability Endorsements or equivalent, if not in policy proper;
 - 2) Independent Contractors Coverage;
 - 3) Contractual Liability;
 - 4) Products and Completed Operations Coverage; and
 - 5) Deletion of all Explosion, Collapse, and Underground (XCU) Exclusions.

- 6) Per contract aggregate.
- E. Motor Vehicle Liability Insurance with Michigan No-Fault Coverages including all owned, non-owned and hired vehicles with limits of liability not less than ONE MILLION AND NO/100 DOLLARS (\$1,000,000.00) per occurrence combined single limit for Personal Injury, Bodily Injury and Property Damage Coverage.
- F. It is understood and agreed by the Contractor that the COUNTY, all the COUNTY'S elected and appointed officials, all the COUNTY'S employees, volunteers, boards, commissions and/or authorities and their board members including employees and volunteers thereof shall be added as Additional Insureds on the Contractor's Commercial General Liability Insurance and Motor Vehicle Liability Insurance required above. This coverage shall be primary to the Additional Insureds, and not contributing with any other insurance or similar protection available to the Additional Insureds, whether said other available coverage be primary, contributing or excess.
- G. Contractor shall be responsible for paying any deductibles in the insurance coverages.

All insurance coverages required by this Section XII shall be with insurance companies licensed and admitted to do business in the State of Michigan and whom are acceptable to the COUNTY, and have a minimum A.M. Best Company (www.ambest.com) Insurance Report rating of A+ (Superior) or A or A- (Excellent).

It is understood and agreed that the Contractor shall provide thirty (30) days advanced written notice of cancellation, non-renewal, reduction and/or material change to any of the insurances required in this Section XII to Margaret A. McAvoy, Isabella County Administrator, 200 N. Main St., Mt. Pleasant, MI 48858. The Contractor shall also require its insurers to provide such notice in accordance with the policy's provisions.

The Contractor shall provide to the COUNTY at the time copies of this Agreement are returned to the COUNTY for execution with two (2) copies of certificates of insurance for each of the insurance policies/coverages required above in this Section XII. If so requested certified copies of all policies shall be furnished. The Contractor shall provide the COUNTY with evidence that all subcontractors are included under the Contractor's policies or that the subcontractors maintain insurance coverages that meet the requirements of this Section.

In the event any of the policies of insurance evidenced in the certificates of insurance expire during the term of this Agreement, new certificates of insurance shall be issued to the COUNTY meeting the requirements of this Section XII evidencing the Contractor's continuation of such insurances at least ten (10) days prior to the expiration

date.

XIII. BONDS. The Contractor is required to execute three bonds with sureties acceptable to the County: (1) the Performance Bond to be executed to the County, to be in the amount of one hundred percent (100%) of the full Contract price and to be conditioned for the faithful fulfillment of the Contract and to include the protection of the County from all liens and damages arising out of the work; (2) the Labor and Material Bond to be executed to the people of the state, to be in the amount of one hundred percent (100%) of the full Contract price and to be conditioned for the payment of all labor and materials used in the work and for the protection of the County from all liens and damages arising therefrom; and (3) the Maintenance and Guarantee Bond, to be in the amount of one hundred percent (100%) of the Contract price.

XIV. LIQUIDATED DAMAGES. It is expressly covenanted and agreed that time is and shall be considered of the essence of the Contract. In the event that the Contractor shall fail to perform the entire work agreed to by or at the times established in the Contract, or within some other certain date subsequent to this to which the time limit for the completion of the work may have been advanced under the provisions the Contract, the Contractor shall pay unto the County as and for liquidated damages and not as a penalty, the sum of Two Hundred Fifty Dollars (\$250.00) for each and every calendar day that the Contractor shall be in default. Said sum of Two Hundred Fifty Dollars (\$250.00) per day, in view of the difficulty of estimating such damages with exactness, is hereby expressly fixed and agreed upon as the damages which will be suffered by the County for reason of such defaults. It is also understood and agreed that the liquidated damages herein before mentioned are, in lieu of the actual damages arising from such breaches of this Contract, which said sums the County shall have the right to deduct from any monies in hand otherwise due or to become due to the Contractor or to sue for and recover compensation for damages for nonperformance of this contract at the time stipulated herein and provided.

XV. WAIVERS. No failure or delay on the part of either the County or the Contractor in exercising any right, power or privilege hereunder shall operate as a waiver thereof, nor shall a single or partial exercise of any right, power or privilege preclude any other or further exercise of any other right, power or privilege. No modification, amendment, or waiver of any provision of this Agreement, nor consent to any departure from any provision of the Agreement by either party hereto, shall in any event be effective unless the same is in writing and signed by the other party, and then such waiver or consent shall be effective only in the specific instance and for the purpose for which given.

In no event shall the making by the County of any payment due to the Contractor constitute or be construed as a waiver by the County of any breach of a provision of this Agreement, or any default which may then exist, on the part of the Contractor. The making of any such payment by the County while any such breach or default shall exist, shall in no way impair or prejudice any right or remedy available to the County in respect to such breach or default.

XVI. MODIFICATION OF AGREEMENT. Modifications, amendments or waivers of any provisions of this Agreement may be made only by the written mutual consent of the parties hereto.

XVII. ASSIGNMENT OR SUBCONTRACTING. The parties to this Agreement may not assign, subcontract or otherwise transfer their duties and/or obligations under this Agreement.

XVIII. PURPOSE OF SECTION TITLES. The titles of the sections set forth in this Agreement are inserted for the convenience of reference only and shall be disregarded when construing or interpreting any of the provisions of this Agreement.

XIX. COMPLETE AGREEMENT. This Agreement and the attached Exhibits A and B contain all the terms and conditions agreed upon by the parties hereto, and no other agreements, oral or otherwise, regarding the subject matter of this Agreement or any part thereof shall have any validity or bind any of the parties hereto.

XX. AGREEMENT PERIOD. This Agreement shall become effective on the date in which it has been fully signed by the authorized representatives of both parties (hereinafter referred to as the "Effective Date"). All work on the Project including all items on the final punch list and Work Site clean-up shall be completed by no later than the 24th day of April, 2020.

It is also understood and agreed by the parties hereto that all obligations of the Contractor set forth in this Agreement which extend to beyond the completion date of the work shall survive said completion and remain in full force and effect for the time set for the performance of said obligations.

Notwithstanding any other provision in this Agreement to the contrary, the County may terminate this Agreement, with or without cause, upon five (5) days prior written notice to the Contractor. In the event this Agreement is prematurely terminated without cause (i.e. for reasons other than Contractor's breach of the terms of this Agreement) as set forth herein, the Contractor shall be compensated for services completed as of the effective date of termination in accordance with Section II of this Agreement.

XXI. IRAN LINKED BUSINESS. The Contractor has certified to the County that neither it nor any of its successors, parent companies, subsidiaries, or companies under common ownership or control of the Contractor, are an "Iran Linked Business" engaged in investment activities of \$20,000,000.00 or more with the energy sector of Iran, within the meaning of Michigan Public Act 517 of 2012. It is expressly understood and agreed that the Contractor shall not become an "Iran linked business" during the term of this Agreement.

NOTE: IF A PERSON OR ENTITY FALSELY CERTIFIES THAT IT IS NOT AN IRAN LINKED BUSINESS AS DEFINED BY PUBLIC ACT 517 OF 2012, IT WILL BE RESPONSIBLE FOR CIVIL PENALTIES OF NOT MORE THAN \$250,000.00 OR TWO TIMES THE AMOUNT OF THE CONTRACT FOR WHICH THE FALSE CERTIFICATION WAS MADE, WHICHEVER IS GREATER, PLUS COSTS OF INVESTIGATION AND REASONABLE ATTORNEY FEES INCURRED, AS MORE FULLY SET FORTH IN SECTION 5 OF ACT NO. 517, PUBLIC ACTS OF 2012.

XXII. SEVERABILITY OF INVALID PROVISIONS. If any part of this Agreement is declared by any Court having jurisdiction to be invalid, unconstitutional, or beyond the authority of either party to enter into or carry out, such part shall be deemed deleted and shall not affect the validity of the remainder of this Agreement, which shall continue in full force and effect. If the removal of such provision would result in the illegality and/or unenforceability of this Agreement, this Agreement shall terminate as of the date in which the provision was found invalid, unconstitutional or beyond the authority of the parties and the Contractor shall be reimbursed for all services which it has provided under this Agreement up to the date of termination.

XXIII. CERTIFICATION OF AUTHORITY TO SIGN AGREEMENT. The people signing this Agreement on behalf of the parties hereto certify by their signatures that they are duly authorized to sign on behalf of said parties and that this Agreement has been authorized by said parties.

THE AUTHORIZED REPRESENTATIVES OF THE PARTIES HERETO HAVE FULLY EXECUTED THIS AGREEMENT FOR THE COLDWATER LAKE FAMILY PARK IMPROVEMENTS PROJECT AT COLDWATER LAKE FAMILY PARK.

COUNTY OF ISABELLA

MALLEY CONSTRUCTION, INC.

By: _____

George Green, Chairman
County Board of Commissioners

Date: _____

By: _____

(Signature)

Name: _____

(Print or Type)

Title: _____

(Print or Type)

Date: _____

Exhibit A
-RFB
-Addendum 1
-Addendum 2

ISABELLA COUNTY REQUEST FOR BIDS



Coldwater Lake Family Park Campground Improvements Project

DNR Recreation Passport Grant #RP18-0017

ISSUED BY ISABELLA COUNTY BOARD OF COMMISSIONERS

ISSUE DATE: Tuesday, September 10, 2019

DUE DATE OF PROPOSAL: Monday, September 30, 2019 at 2 p.m.



ISABELLA COUNTY REQUEST FOR BIDS

Isabella County is accepting proposals from experienced and knowledgeable individuals/contractors to provide all labor, materials and services to renovate and expand 8 campsites into 9 pull-through sites with a new gravel road and drives, new 50 amp electrical service and new water risers. Move electrical service for 10 north campsites to west park transformer.

To be considered, three (3) copies of a bid must be received by the Administrator/Controller's Office at the Isabella County Building, Suite 205, 200 N. Main Street, Mt. Pleasant, MI 48858 by 2:00 p.m. on September 30, 2019. In addition, a PDF copy is to be emailed to Deputy Administrator/Controller, Nicole F. Frost at nfrost@isabellacounty.org. Isabella County reserves the right to reject any or all bids submitted. Bids submitted will be evaluated by County personnel as determined by the County Administrator/Controller, with final approval by the Board of Commissioners.

I. INTRODUCTION

1.1 Purpose

Isabella County, hereafter called "County", initiated this Request for Bids (RFB) to solicit bids from experienced and knowledgeable individuals/contractors to procure and provide all labor, materials and services to renovate and expand 8 campsites into 9 pull-through sites with a new gravel road and drives, new 50 amp electrical service and new water risers. Move electrical service for 10 north campsites to west park transformer. The project includes but is not limited to tree and brush clearing, site grading, layout of new pull-through sites, electrical and water service improvements.

The County's selection process will rely on evaluations of the written responses to this RFB and any subsequent supplemental evaluation processes, such as requests for additional information, as may be undertaken by the County at its sole discretion.

The County reserves the right to accept or reject any or all bids, and also the right to waive any formal defects in bids when deemed in the best interest of the County. Further, the County reserves the right to accept a bid higher in price than the lowest bid, and to negotiate with any respondent concerning matters which the County determines require clarification or changes not in conformity with the specific requirements set forth herein.

1.2 Background

The primary goal of the County is to complete the Coldwater Lake Family Park Campground Improvements Project (Coldwater Project) as described in the Michigan Department of Natural Resources Recreation Passport Grant #RP-18-0017. This includes renovating 8 pull-in campsites to 9

pull-through sites so as to accommodate bigger RV's as well as adding 50 amp service. Electrical to these sites and other north campsites will be improved. Some trees will need to be cleared in the area to accommodate for the new sites. Driveways and roads will be rebuilt in the pull-through area.

1.3 Objective

Scope of Services

The primary objective of the work resulting from this RFB is to develop site improvements at Coldwater Lake Family Park.

The County will be utilizing a bid-driven process in selection. As such, bidders should include their total cost (all trades) of the project and methodology.

Background information requested from proposers includes summaries of three (3) similar municipal projects performed in the past and resumes of the key personnel intended for involvement with this project, in addition to references.

The successful Respondent (Contractor) will be required to review the attached Bidding Documents and Technical Specifications (including project drawings) as issued by William A. Kibbe & Associates, Inc., August 2019 based on considerations of the County, but not limited to, the following:

1. Provide all labor, materials, equipment, and other expenses for the purpose of performing the required services;
2. Contractor must submit a proposed project plan, timeline, and cost with bid submission.

Through this Request for Bids, Isabella County (County) hereby invites businesses that meet the qualifications set forth herein to submit bids in regard to the Coldwater Lake Campground – Site Improvements.

The County anticipates that this project will accomplish the following goal:

1. Procure and provide all labor, materials and services to renovate and expand 8 campsites into 9 pull-through sites with a new gravel road and drives, new 50 amp electrical service and new water risers. Move electrical service for 10 north campsites to west park transformer.

Scheduling

The absolute deadline for completion of the Coldwater Project is April 24, 2020. The County has a desire to target the final project completion for December 31, 2019.

Therefore, the successful firm will be required to demonstrate through its bid documents and finalizing discussion that it has a timeline for a plan of action that will assuredly allocate the necessary resources of the firm to respond with the completion of the Coldwater Project to the County by that date.

Exit Conference

The successful firm may be required to hold an exit conference with appropriate County officials and may be required to make a presentation to the Isabella County Board of Commissioners.

Additional Consultation

From time to time County staff may find it necessary to consult with the successful firm on future issues related to the final Coldwater Project. The bid will include an outline of how this occasional consultation will be handled in regard to charges.

Contract Amount

It is agreed between the County and the successful firm that in consideration for the firm's full and complete performance hereunder, the County shall pay to the successful firm the fees as detailed in the successful bid, as proposed by the firm and as accepted by the County. The final amount shall be based upon actual goods received or services performed as approved by the County Administrator/Controller.

Term

This Agreement for goods/services shall run for the length of the project(s) undertaken by the successful firm unless otherwise terminated by the firm and/or the County upon 30 days' written notice to the other party, provided, however, that the benefits to either party hereto afforded by the terms and conditions of said Agreement shall inure to each party in perpetuity, including surviving any termination of said Agreement by either party.

Performance Requirements

The successful firm will provide all goods and perform all services under this Agreement in a timely and professional manner, using the customary level of care suitable for the goods provided or services performed and in compliance with all applicable laws, rules, and regulations. All goods provided and services performed under this Agreement are subject to the County's continuing rights of review, inspection, and approval.

1.4 Minimum Qualifications

Proposals will be considered from individuals/contractor who:

1. Are licensed to do business in the State of Michigan.
2. Possess necessary certifications and qualifications to perform the work proposed. 5 years of experience, with 3 completed projects of similar nature (see Specs Section 017300-Execution 1.5 Quality Assurance "B").

Individuals or contractors that do not meet these minimum qualifications shall be deemed non-responsive and will not receive further consideration.

1.5 Funding

Any contract awarded as a result of this procurement is contingent upon the availability of funding, as determined by the Isabella County Board of Commissioners.

1.6 Period of Performance

The period of performance of any contract resulting from this RFB is tentatively scheduled to begin upon award of a contract. Submitted proposals should address a tentative time frame, including estimated project duration and timeline.

II. GENERAL INFORMATION FOR CONTRACTORS

2.1 Project Administrator

The Project Administrator is the sole point of contact for this procurement. All communication between prospective proposers and the County upon receipt of this RFP shall be with the Project Administrator, as follows:

Sue Ann Kopmeyer
Isabella County Parks & Recreation Director
200 N. Main Street
Mount Pleasant, MI 48858

Telephone: 989.317.4083
Facsimile: 989.779.9916
E-mail: sakopmeyer@isabellacounty.org

Any other communication will be considered unofficial and non-binding on the County. Communication directed to parties other than the Project Administrator may result in disqualification of the prospective bidder.

2.2 Estimated Schedule of Procurement Activities

Issue Request for Bids	Tuesday, September 10, 2019
Mandatory site visit and pre-bid meeting at 10 a.m. at Coldwater Lake Family Park, 1703 N. Littlefield Rd, Weidman, MI 48893	Tuesday, September 17, 2019
Bids Due	By 2 p.m. Monday, September 30, 2019

A mandatory site visit and pre-bid meeting will be held on Tuesday, September 17, 2019 at 10 a.m. at Coldwater Lake Family Park, 1703 N. Littlefield Rd., Weidman, MI 48893. This meeting will be the only opportunity for prospective bidders to ask questions regarding bids.

Response to this Request for Bid is due at the County Administrator/Controller's Office, Isabella County Building, 200 North Main Street, Suite 205, Mt. Pleasant, MI 48858 no later than 2 p.m. Monday, September 30, 2019.

2.2 Submission of Bids

Responding agencies are required to submit three (3) copies of their bid. One (1) copy must have original signatures and the other copies can have photocopied signatures. Each copy of the bid should be bound or contained in a single volume. The bid, whether mailed or hand delivered, must arrive at the County Administrator/Controller's Office no later than 2 p.m. Monday, September 30, 2019. In addition, a PDF copy is to be emailed by the above stated deadline to the Deputy Administrator/Controller, Nicole F. Frost at nfrost@isabellacounty.org.

The three (3) hard copy bids are to be sent to the County Administrator/Controller's Office at the address noted in Section 2.2, above. The envelope submitted should be clearly marked ISABELLA COUNTY COLDWATER LAKE FAMILY PARK CAMPGROUND IMPROVEMENTS PROJECT BID and addressed to the attention of the County Administrator/Controller.

Bidders who mail bids should allow normal mail delivery time to ensure timely receipt of their bids by the Project Administrator. Respondents assume the risk for the method of delivery chosen. The County assumes no responsibility for delays caused by any delivery service. *Bids may not be transmitted using electronic media such as facsimile transmission or electronic mail.*

Late bids will not be accepted and will be automatically disqualified from further consideration. All bids and any accompanying documentation become the property of Isabella County and will not be returned.

Respondents are requested to be brief in response. The inclusion of extraneous information beyond the description of service and project approach is discouraged.

2.3 Proprietary Information and Public Disclosure

Materials submitted in response to this competitive bid shall become the property of Isabella County. All bids received shall remain confidential until the deadline for submission of bids has expired, as defined by Michigan statute (MCL 15.243(i), the Freedom of Information Act.

2.4 Revisions to the RFB

In the event it becomes necessary to revise any part of this RFB, addenda will be reduced to writing and submitted to all prospective bidders known to the County. For this purpose, the published questions and answers and any other pertinent information will be considered an addendum to the RFB and will be provided to prospective bidders.

The County reserves the right to cancel or to reissue the RFB in whole or in part, prior to execution of a contract.

2.5 Acceptance Period

Bids must provide one hundred twenty (120) days for acceptance by County from the due date for receipt of bids.

2.6 Responsiveness

All bids will be reviewed by the County Administrator/Controller to determine compliance with administrative

requirements and instructions specified in this RFB. Failure to comply with any part of the RFB may result in rejection of the bid as non-responsive. The County also reserves the right, at its sole discretion, to waive minor administrative irregularities.

2.7 Most Favorable Terms

The County reserves the right to make an award without further discussion of the bid submitted. Therefore, the bid should be submitted initially on the most favorable terms which the respondent can propose. The County does reserve the right to contact a respondent for clarification of its bid.

The Respondent should be prepared to accept this RFB for incorporation into a contract resulting from this RFB. Contract negotiations may incorporate some or the Respondent's entire bid. It is understood that the bid will become a part of the official procurement file on this matter without obligation to the County.

2.8 Costs of Bid

The County will not be liable for any costs incurred by the Respondent in preparation of a bid submitted in response to this RFB, in conduct of a presentation, or any other activities related to responding to this RFB.

2.9 No Obligation Contract

This RFB does not obligate the Isabella County Board of Commissioners to award a contract for services specified herein.

2.10 Rejection of Bids

The County reserves the right at its sole discretion to reject any and all bids received without penalty and not to issue a contract as a result of this RFB.

2.11 Failure to Comply

The Respondent is specifically notified that failure to comply with any part of the RFB may result in rejection of the proposal as non-responsive.

2.12 Commitment of Funds

The Board of Commissioners or its delegate(s) are the only individuals who may legally commit the County to the expenditures of funds for a contract resulting from this RFB. No cost chargeable to the proposed contract may be incurred before receipt of a fully executed contract.

2.13 Signatures

The Letter of Submittal and the Certifications and Assurances form must be signed and dated by a person authorized to legally bind the Respondent to a contractual relationship, e.g., the President or Executive Director of a corporation, the managing partner of a partnership, or the proprietor of a sole proprietorship.

2.14 Iran Linked Business

Iran Linked Business. The Respondent must certify to the County that neither it nor any of its successors, parent companies, subsidiaries, or companies under common ownership or control of

the Contractor, are an “Iran Linked Business” engaged in investment activities of \$20,000,000.00 or more with the energy sector of Iran, within the meaning of the Iran Economic Sanctions Act, Michigan Public Act 517 of 2012 (MCL 129.311 et seq.). The Respondent shall not become an “Iran linked business” during the term of the contract.

NOTE: IF A PERSON OR ENTITY FALSELY CERTIFIES THAT IT IS NOT AN IRAN LINKED BUSINESS AS DEFINED BY PUBLIC ACT 517 OF 2012, IT WILL BE RESPONSIBLE FOR CIVIL PENALTIES OF NOT MORE THAN \$250,000.00 OR TWO TIMES THE AMOUNT OF THE CONTRACT FOR WHICH THE FALSE CERTIFICATION WAS MADE, WHICHEVER IS GREATER, PLUS COSTS OF INVESTIGATION AND REASONABLE ATTORNEY FEES INCURRED, AS MORE FULLY SET FORTH IN SECTION 5 OF ACT NO. 517, PUBLIC ACTS OF 2012.

2.15 Fair Employment Practices

In accordance with the United States Constitution and all federal legislation and regulations governing fair employment practices and equal employment opportunity, including but not limited to Title VI of the Civil Rights Act of 1964 (P.L. 88-352, 78 STAT. 252), and United States Department of Justice Regulations (28 C.F.R. Part 42) issued pursuant to the Title, and in accordance with the Michigan Constitution and all state laws and regulations governing fair employment opportunity, including but not limited to the Michigan Civil Rights Act (P.A. 1976 No. 453) and the Michigan Handicappers Civil Rights Act (P.A. 1976 No. 220) the Contractor agrees that he will not discriminate against any person, employee, consultant or applicant for employment with respect to his or her hire, tenure, terms, conditions or privileges of employment or hire because of his(her) religion, race, color, national origin, age, sex, height, weight, marital status, or handicap that is unrelated to the individual's ability to perform the duties of a particular job or position. The Contractor recognizes the right to the United States and the State of Michigan to seek judicial enforcement of the foregoing covenants against discrimination against itself or its subcontractors.

III. BID CONTENT

Bids must be submitted on eight and one-half by eleven (8½ x 11) inch paper, typed in Times New Roman twelve (12) point font, and separated into nine (9) major sections. The nine (9) major sections shall include:

1. Letter of Submittal, including signed Certifications and Assurances (Exhibit A of this RFB)
2. Checklist for Responsiveness (Exhibit B of this RFB)
3. Document 004113 – Bid Form; Stipulated Sum (Single Prime Contract)
4. Document 003113 – Preliminary Schedule
5. Certificate of Compliance with Public Act 517 of 2012 (Exhibit C of this RFB)
6. Request for Taxpayer Identification Number and Certification (IRS Form W-9)
7. Certificate of Insurance with Isabella County listed as “Additionally Insured”
8. Performance Bond and Payment Bond, if required
9. References (at least three (3) of similar size and complexity)

Bids must provide information in the same order as presented in this document with the same headings. This will not only be helpful to the evaluators of the bids, but should assist the

Respondent in preparing a thorough response.

3.1 Letter of Submittal

The Letter of Submittal, the attached Certifications and Assurances form (See Exhibit A), and all RFB amendments must be signed and dated by a person authorized to legally bind the Respondent to a contractual relationship, e.g., the President or Executive Director of a corporation, the managing partner of a partnership, or the proprietor of a sole proprietorship. Along with introductory remarks, the Letter of Submittal is to include by attachment the following information about the Respondent and any proposed subcontractors:

1. Names, addresses, telephone numbers, e-mail addresses, and fax numbers of legal entity or individual with whom contract would be written.
2. Name, address, and telephone number of each principal officer(s) (President, Vice President, and Treasurer, etc.).
3. Legal status of the Respondent (sole proprietorship, partnership, corporation, etc.) and the year the entity was organized to do business as the entity now substantially exists.
4. Federal Employer Tax Identification number.
5. Location of the firm/office from which the Respondent would operate.
6. Identify any Isabella County employees or former County employees employed or on the firm's governing board as of the date of the bid submittal. Include their position and responsibilities within the Respondent's organization. If following a review of this information, it is determined by the County that a conflict of interest exists, the Respondent may be disqualified from further consideration for the award of a contract.
7. An expression of the firm's capabilities and experience for providing the goods and/or services solicited including a brief statement of the proposer's understanding of the work to be done and no less than three (3) municipal references that demonstrate the firm's pertinent competencies.
8. A work plan to include time estimates for product or service delivery.

3.3 Specifications

Firms submitting proposals shall:

1. Be authorized to do business in the State of Michigan.
2. Have a favorable business reputation.
3. Have a sound financial condition.
4. Possess and demonstrate the ability and capacity to fully provide the goods or execute the services herein solicited.

The firm selected will be an independent contractor and not an agent of the County. The contractor will be the sole employer of all persons used in the provision of goods and/or services solicited and will accept full responsibility for all lost or damaged property and injury to persons resulting from the execution of the contract, as well as for any claims made by or on behalf of the contractor's agents, servants, and employees arising out of their employment or work pertaining to the operation of the contract.

The County reserves the right to reject any or all bids or to waive any irregularities in bids.

3.3 References

List names, addresses, telephone numbers, e-mail addresses, and fax numbers of three references for whom similar work for a municipality has been accomplished and briefly describe the type of service provided. The Respondent must grant permission to the County to contact the references. Do not include current Isabella County staff as references.

3.4 Related Information

1. If the Respondent or any subcontractor contracted with Isabella County during the past twenty-four (24) months, provide a project description and/or other information available to identify the contract.
2. If the Respondent's staff or subcontractor's staff was an employee of Isabella County during the past twenty-four (24) months, or is currently an Isabella County employee, identify the individual by name, the department previously or currently employed by, job title or position held and separation date.
3. If the Respondent has had a contract terminated for default in the last five (5) years, describe such incident. Termination for default is defined as notice to stop performance due to the Respondent's non-performance or poor performance and the issue of performance was either (a) not litigated due to inaction on the part of the Proposer, or (b) litigated and such litigation determined that the Proposer was in default.
4. Submit full details of the terms for default including the other party's name, address, and phone number. Present the Respondent's position on the matter. The County will evaluate the facts and may, at its sole discretion, reject the proposal on the grounds of the past experience. If no such termination for default has been experienced by the Respondent in the past five years, so indicate.

3.5 Cost Proposal

The evaluation process is designed to award this procurement not necessarily to the Respondent of least cost, but rather to the Respondent whose proposal best meets the requirements of this RFB.

Identify all costs including expenses to be charged for performing the services necessary to accomplish the objectives of the contract. The Respondent is to submit a fully detailed budget including staff costs and any expenses necessary to accomplish the tasks and to produce the deliverables under the contract.

Costs for subcontractors are to be broken out separately, but inclusive to the primary bid.

IV. EVALUATION AND CONTRACT AWARD

4.1 Evaluation Procedure

This document is a Request for Bid, however the lowest bid will not guarantee an award. Bids will also be evaluated based on qualifications, experience, timeliness, competence, demonstrated

responsiveness to client needs and what is determined by the Isabella County Board of Commissioners to be the best solution for the County.

The County may select a limited number of respondents with whom to schedule interviews. Recommendation for a selection will be made to the Isabella County Board of Commissions and final approval lies with the Commission.

Responsive bids will be evaluated strictly in accordance with the requirements stated in this solicitation and any addenda issued. All bids received by the stated deadline will be reviewed by the County Administrator/Controller to ensure that Respondents meet all minimum requirements. Respondents that fail to meet stated qualifications or any bid that does not contain all of the required information will be rejected as non-responsive.

EXHIBIT A
CERTIFICATIONS AND ASSURANCES

**THIS FORM MUST BE COMPLETED AND RETURNED WITH YOUR BID
FAILURE TO SUBMIT THIS COMPLETED FORM MAY
RESULT IN DISQUALIFICATION**

Firm Name: _____

I/we make the following statement of assurances as a required element of the bid to which it is attached, understanding that the truthfulness of the facts affirmed here and the continuing compliance with these requirements are conditions precedent to the award or continuation of the related contract(s):

1. The prices and/or data have been determined independently, without consultation, communication, or agreement with other bidders for the purpose of restricting competition. However, I/we may freely join with other persons or organizations for the purpose of presenting a single bid.
2. The attached bid is a firm offer for a period of one hundred twenty (120) days following receipt, and it may be accepted by Isabella County without further negotiation (except where obviously required by lack of certainty in key terms) at any time within the one hundred twenty (120) day period.
3. In preparing this bid, I/we have not been assisted by any current or former employee of Isabella County whose duties relate (or did relate) to this bid or prospective contract, and who was assisting in other than his or her official, public capacity. Neither does such a person nor any member of his or her immediate family have any financial interest in the outcome of this bid. (Any exceptions to these assurances are described in full detail on a separate page and attached to this document.)
4. I/we understand that Isabella County will not reimburse me/us for any costs incurred in the preparation of this bid. All bids become the property of Isabella County, and I/we claim no proprietary right to the ideas, writings, items, or samples, unless so stated in this bid.
5. Unless otherwise required by law, the prices and/or cost data which have been submitted have not been knowingly disclosed by the bidder and will not knowingly be disclosed by him/her prior to opening, either directly or indirectly to any other bidder or to any competitor.
6. No attempt has been made or will be made by the bidder to induce any other person or firm to submit or not to submit a bid for the purpose of restricting competition.
7. I/we agree that submission of the attached bid constitutes acceptance of the solicitation contents.
8. I/we acknowledge communication of any kind regarding my/our bid directed to parties other than the County Administrator/Controller may result in my/our disqualification.
9. I/we warrant that no conflict of interest knowingly exists for any member of the project team that contributed to this bid or prospective contract.
10. I/we certify that I/we shall procure and maintain Workers' Compensation Insurance, including Employer's Liability Coverage, in accordance with all applicable statutes of the State of Michigan during the duration of this prospective contract.
11. I/we certify that I/we shall procure and maintain Professional Liability Insurance (errors and omissions) with limits of liability of not less than \$1,000,000 per claim and aggregate during the duration of, and a minimum of three (3) years beyond the completion-of, this proposed contract.
12. I/we certify that I/we shall procure and maintain Comprehensive General Liability Insurance on an

“Occurrence Basis” with limits of liability not less than \$1,000,000 per occurrence and/or aggregate combined single limit, covering Personal Injury, Bodily Injury and Property Damage during the duration of this prospective contract.

13. I/we certify that I/we shall procure and maintain Motor Vehicle Liability Insurance, including applicable Michigan No-Fault coverages, with limits of liability not less than \$1,000,000 per occurrence combined single limit for Personal Injury, Bodily Injury and Property Damage during the duration of this prospective contract.
14. I/we certify that the General Liability Insurance and the Motor Vehicle Liability Insurance, as described above, shall include an endorsement stating the following shall be “Additional Insureds”: Isabella County, including all elected and appointed officials, all employees and volunteers, all boards, commissions and/or authorities and their board members, including employees and volunteers thereof during the duration of this prospective contract.
15. I/we certify that the Workers’ Compensation Insurance, General Liability Insurance and the Motor Vehicle Liability Insurance, as described above, shall include an endorsement stating the following: Thirty (30) days advance written notice of cancellation or non-renewal shall be sent to: Isabella County Administrator/Controller’s Office, 200 N. Main Street, Suite 205, Mt. Pleasant, MI 48858.

Signature

Date

Title

EXHIBIT B
CHECKLIST FOR RESPONSIVENESS

- _____ Proposal was submitted on or before 2 p.m. on Monday, September 30, 2019.
- _____ Required number of proposal copies were submitted.
- _____ PDF copy is to be emailed to Deputy Administrator/Controller, Nicole F. Frost at nfrost@isabellacounty.org.
- _____ Proposal was formatted into 9 major sections per section III. Bid Content.
- _____ Respondent meets minimum qualifications:
1. Licensed to do business in the State of Michigan.
 2. Will comply with the Certificate of Assurances set forth in Exhibit A.
 3. Submit proposals as specified in this RFB.
- _____ Letter of Submittal and Certifications and Assurances were signed by an individual authorized to bind the Proposer to a contractual relationship, e.g., the President or Executive Director of a corporation, the managing partner of a partnership, or the sole proprietor of a sole proprietorship.
- _____ Three (3) references from three (3) previous clients provided.

**** PLEASE NOTE:** Respondent is required to complete this checklist and include it with their proposal. "Yes" answers must be given to each element above for the proposed to be considered responsive.

EXHIBIT C
CERTIFICATE OF COMPLIANCE WITH PUBLIC ACT 517 OF 2012

I certify that neither _____(Company), nor any of its successors, parent companies, subsidiaries, or companies under common control, are an "Iran Linked Business" engaged in investment activities of \$20,000,000.00 or more with the energy sector of Iran, within the meaning of Michigan Public Act 517 of 2012. In the event it is awarded a Contract as a result of this Request for Proposals, Company will not become an "Iran Linked Business" during the course of performing the work under the Contract.

NOTE: IF A PERSON OR ENTITY FALSELY CERTIFIES THAT IT IS NOT AN IRAN LINKED BUSINESS AS DEFINED BY PUBLIC ACT 517 OF 2012, IT WILL BE RESPONSIBLE FOR CIVIL PENALTIES OF NOT MORE THAN \$250,000.00 OR TWO TIMES THE AMOUNT OF THE CONTRACT FOR WHICH THE FALSE CERTIFICATION WAS MADE, WHICHEVER IS GREATER, PLUS COSTS AND REASONABLE ATTORNEY FEES INCURRED, AS MORE FULLY SET FORTH IN SECTION 5 OF ACT NO. 517, PUBLIC ACTS OF 2012.

(Name of Company)

By: _____

Date: _____

Title: _____

Subscribed to and sworn before me,
a Notary Public, on this _____ day of _____, 20 ____

_____, Notary Public
_____ County, State of Michigan
Acting in _____ County, Michigan
My Commission Expires: _____

COLDWATER LAKE FAMILY PARK – CAMPGROUND SITE
IMPROVEMENTS

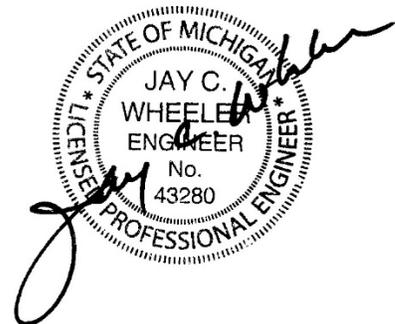
DNR RECREATION PASSPORT GRANT #RP-18-0017



ISABELLA COUNTY
MICHIGAN

BIDDING DOCUMENTS
AND
TECHNICAL
SPECIFICATIONS

AUGUST 2019



COLDWATER LAKE FAMILY PARK – CAMPGROUND SITE
IMPROVEMENTS

INDEX

PAGE

DIVISION 00 – PROCUREMENT AND CONTRACTING REQUIREMENTS

001116	Invitation to Bid	001116 – 1-2
002113	Instructions to Bidders	002113 – 1-6
002600	Procurement Substitution Procedures	002600 – 1-2
003113	Preliminary Schedules.....	003113 – 1-1
003143	Permit Application.....	003143 – 1-1
004113	Bid Form – Stipulated Sum (Single Prime Contract)	004113 – 1-3

DIVISION 01 – GENERAL REQUIREMENTS

011000	Summary	011000 – 1-3
012500	Substitution Procedures.....	012500 – 1-4
012600	Contract Modification Procedures	012600 – 1-3
012900	Payment Procedures.....	012900 – 1-5
013100	Project Management and Coordination.....	013100 – 1-6
014000	Quality Requirements.....	014000 – 1-6
015000	Temporary Facilities and Controls.....	015000 – 1-2
015639	Temporary Tree and Plant Protection.....	015639 – 1-5
016000	Product Requirements	016000 – 1-4
017300	Execution	017300 – 1-7
017419	Construction Waste Management and Disposal	017419 – 1-2
017700	Closeout Procedures.....	017700 – 1-5

DIVISION 22 – PLUMBING

221113	- Facility Water Distribution Piping.....	221113 – 1-10
--------	---	---------------

DIVISION 31 - EARTHWORK

311000	- SITE CLEARING.....	311000 – 1-4
312000	- EARTH MOVING.....	312000 – 1-8

Coldwater Lake Family Park – Campground Site Improvements

DOCUMENT 001116 - INVITATION TO BID

1.1 PROJECT INFORMATION

- A. Notice to Bidders: Qualified bidders are invited to submit bids for Project as described in this Document according to the Instructions to Bidders.
- B. Project Identification: Coldwater Lake Family Park Campground
Project Location: 1703 N. Littlefield Road, Weidman, Michigan 48893
- C. Owner: Isabella County, 200 Main Street, Mt. Pleasant, MI 48858
 - 1. Owner's Representative: Sue Ann Kopmeyer, Parks and Recreation Director
- D. Engineer: William A. Kibbe & Associates, Inc. 1475 S. Washington Ave., Saginaw, MI 48601
 - 1. Engineer's Representative: Jay C. Wheeler, PE, VP
jwheeler@kibbe.com, (989) 752-5000
- E. Project Description: The Coldwater Lake Family Park – Campground Site Improvements is a Michigan Department of Natural Resources Recreation Passport Grant Project (#RP-18-0017) which includes the following work:
 - 1. Tree & brush removal, including stumps
 - 2. Grading and aggregate placement
 - 3. Electrical improvements
 - 4. Water service improvements
 - 5. Site improvements
- F. Construction Contract: Bids will be received for the following Work:
 - 1. General Contract.

1.2 BID SUBMITTAL AND OPENING

- A. Owner will receive sealed bids until the bid time and date at the location indicated below. Owner will consider bids prepared in compliance with the Instructions to Bidders issued by Owner, and delivered as follows:
 - 1. Bid Due Date: Monday, September 30, 2019
 - 2. Bid Time: 2:00 p.m. local time.
 - 3. Location: Isabella County Administration Office, Room 205, 200 N. Main St., Mt. Pleasant, MI 48858
- B. Bids will be thereafter privately opened.

Coldwater Lake Family Park – Campground Site Improvements

1.3 DOCUMENTS

- A. Online Procurement and Contracting Documents: Drawings and Specifications may be obtained electronically through the Michigan Inter-governmental Trade Network (MITN) after Tuesday, September 10, 2019

1.4 TIME OF COMPLETION

- A. Bidders shall begin the Work on receipt of the Notice to Proceed and shall complete the Work within the Contract Time.

1.5 BIDDER'S QUALIFICATIONS

- A. Bidders must be properly licensed under the laws governing their respective trades and be able to obtain insurance and bonds required for the Work.

END OF DOCUMENT 001116

DOCUMENT 002113 - INSTRUCTIONS TO BIDDERS

SCOPE OF WORK

The work under this Contract includes the furnishing of all labor, materials, equipment and construction equipment necessary for performing the work described in the Advertisement, all complete and in accordance with the Drawings and Specifications.

DEFINITIONS

The following terms used in this Contract will be construed and defined as follows:

"Board" - "Owner"	The governmental agency for whom the work is being done.
"Engineer"	Isabella County or Engineer, acting personally or by any of its authorized agents.
"Contractor"	The person(s) or firm contracting to perform the work.
"Subcontractor"	The person(s) or firm employed by the Contractor to furnish materials or service whether or not he employs labor at the site of the work.
"Work"	All labor, materials, equipment, transportation, construction equipment, permits and other facilities necessary to be done or furnished by the Contractor to complete the Contract.

"Written Notice" shall be deemed to have been "duly served" when such notice shall have been given or mailed to the Contractor or his superintendent at the site of the work or the address set forth herein or when such notice shall have been given or mailed to the Owner, at the address set forth herein.

CONTRACT DOCUMENTS

It is understood and agreed that the Advertisement, Instructions to Bidder, Proposal, Agreement, Bonds, Specifications, Drawings, Addenda and Change Orders issued by the Owner or the Engineer, and specifications and engineering data furnished by the Contractor and approved by the Engineer, are each included in this Contract and the work shall be done in accordance therewith.

SUBSURFACE CONDITIONS

If borings have been made, locations thereof are shown on the Drawings and/ or the logs and reporting thereof are in an Appendix to the Specifications. These borings have been made by a disinterested drilling contractor. This information is offered to the bidder as evidence and the bidder himself shall assume the entire responsibility for any conclusions which he may draw from it. The Owner does not guarantee, however, that the ground encountered during construction will conform with these borings and the bidders should secure such other information as they consider necessary to check and supplement the above data. No additional compensation shall be payable if additional and continuing dewatering is required.

CONSTRUCTION CONDITIONS

It is required that each bidder will examine the Contract Documents for this work and make a personal examination of the site of the proposed work and its surroundings. It is also expected that he will obtain first-hand information concerning the available facilities for receiving, transporting, handling and storing construction equipment and materials and concerning other local conditions that may affect his work.

Coldwater Lake Family Park – Campground Site Improvements

EXPERIENCE AND FINANCIAL STATEMENT

It is the intention of the Owner to award this contract to a bidder competent to perform and complete all work in a satisfactory manner. It may also be required by the Owner that a financial status be provided within three (3) days if requested by the Owner and/or Engineer. The Owner/Engineer may request this information from the bidders under consideration immediately following the opening of bids. Each bidder shall be prepared to submit to the Owner/Engineer the following notarized statements pertaining to his financial resources, adequacy of plant and equipment, organization, and other facts, as his qualification to enter into contract with and to perform construction work for the Owner.

1. Organization: State legal title of organization, business address, and if a corporation, where incorporated. Give names of principal officers and capitalization, number of and positions held by supervisory employees and number of employees regularly employed.
2. Financial Resources: Furnish complete financial statement for each of two (2) successive recent periods.
3. Equipment Owned: Give manufacturer's name, description, size and/or capacity and age of each piece or article of major equipment.
4. Experience Record: Give names of parties and dates for which work has been done, general description of work and contract price of work performed.

NAME, ADDRESS AND LEGAL STATUS OF BIDDER

The name and legal status of the bidder, that is, as a corporation, partnership, or an individual, shall be stated in the Proposal. A corporation bidder shall name the state in which its articles of incorporation are held and must give the title of the official having authority, under the by-laws, to sign contracts. A partnership bidder shall give the full names and address of all partners.

Anyone signing a Proposal as an agent of another or others must submit with his Proposal legal evidence of his authority to do so. The place of residence of the bidder, or the office address in the case of a firm or company, with county and state, must be given after his signature.

BID DEPOSITS

Each Proposal must be accompanied by a bid deposit. This shall be in the form of a certified check or bidder's bond, for a sum not less than five percent (5%) of the amount of the Proposal drawn upon some bank in good standing or issued by a surety company authorized to do business in Michigan. This is a guarantee on the part of the bidder that he will, if called upon to do so, enter into a contract, in the attached form, to do the work covered by such Proposal at the prices stated therein and to furnish acceptable surety for its faithful and entire fulfillment. Such certified check or bidder's bond shall be made out to the Owner and shall be subject to the conditions specified in the Proposal.

RETURN OF BID DEPOSITS

The bid deposits of all except the two lowest bidders will be returned within three days after the opening of bids. The bid deposits of the two lowest bidders will be returned within 48 hours after the executed Contract and the required bonds have been fully approved by the Owner or after rejection of all bids.

FORM OF PROPOSAL

All Proposals must be made and signed by the bidder in the form attached hereto and without removal from the bound book. Additional copies of the Proposal form for the bidder's files may be obtained upon request at the office of the Owner.

Coldwater Lake Family Park – Campground Site Improvements

All prices stated in the Proposal must be plainly written in legible words and/or figures using black ink or typed. Illegibility of any work and/or figure in the Proposal may be sufficient cause for rejection of the Proposal by the Owner. All spaces shall be filled in on the Proposal form.

Supplemental statements by the Contractor written into the Proposal form or by letter modifying the terms of the base Proposal will be considered as irregular and may make the Proposal subject to rejection by the Owner.

Each Proposal must be enclosed in a sealed envelope addressed to and labeled as follows:

Addressed to:

Administrator/Controller Office
Isabella County Building
Suite 205
200 North Main Street
Mt. Pleasant, MI 48858

Labeled as:

Isabella County
Coldwater Lake Family Park -
Campground Improvements Project

BASIS OF PROPOSAL

Proposals are solicited on the basis of unit prices for certain items of work and lump sum prices for certain items of work, all as provided in the Proposal form. See Document 004113 – Bid Form; included herein.

The preliminary estimates of quantities indicated, although given with as much accuracy as is practicable, are to be regarded as approximate only, being given for the general guidance of the bidders as a basis upon which the different Proposals may be compared. The Owner reserves the right to increase or diminish any or all of these quantities within reasonable limits and the Contractor shall be paid for the actual amount of work completed by him and accepted by the Owner at the prices stated in his proposal.

PROPOSAL DATA

Where equipment manufacturers are required to be listed, the bidders must bid on equipment from the list of suggested manufacturers contained in the Specifications.

Other makes of equipment or materials from those listed in the Specifications shall be bid using the Proposal page entitled "Alternates to the Base Proposal", stating the separate and respective amounts that will be deducted from, or added to, contract amount if alternates are accepted at time of award.

INTERPRETATION OF CONTRACT DOCUMENTS

Neither the Owner nor Engineer will give verbal answers to any inquiries regarding the meaning of Drawings and Specifications, or verbal instructions prior to the award of the Contract. Any verbal statement regarding same by any persons, prior to award, shall be unauthoritative.

Any explanation desired by bidders must be requested of the Engineer by 2 p.m. Wednesday, September 25, 2019 and, if explanation is necessary, a reply will be made in the form of an Addendum. A copy of the Addendum will be forwarded to each prospective bidder who has received a set of the Contract Documents and to such other interested parties as have requested that they be furnished with a copy of each Addendum.

Coldwater Lake Family Park – Campground Site Improvements

All Addenda issued to bidders prior to date of receipt of bids shall become a part of the Contract Documents and all bids are to include the work therein described. Each Proposal submitted shall list all Addenda by numbers which have been received prior to time scheduled for receipt of bids.

BONDS AND INSURANCE

The successful bidder will be required to execute three bonds with sureties acceptable to the Owner; the Performance Bond to be executed to the Owner, to be in the amount of one hundred percent (100%) of the full Contract price and to be conditioned for the faithful fulfillment of the Contract and to include the protection of the Owner from all liens and damages arising out of the work; the Labor and Material Bond to be executed to the people of the state, to be in the amount of one hundred percent (100%) of the full Contract price and to be conditioned for the payment of all labor and materials used in the work and for the protection of the Owner from all liens and damages arising therefrom; and the Maintenance and Guarantee Bond, to be in the amount of one hundred percent (100%) of the Contract price.

The Worker's Compensation Insurance, Public Liability and Property Damage Insurance and Owner's Protective Public Liability Insurance in the amounts specified in the Agreement must be carried by the Contractor.

Each Proposal shall include the premium and all other charges, if any, for the Bonds and Insurance herein described.

RIGHT TO ACCEPT, TO REJECT AND TO WAIVE DEFECTS

The Owner reserves the right to accept any Proposal, to reject any or all Proposals, and to waive defects or irregularities in any Proposal. In particular, any alteration, erasure or interlineation of the contract documents and of the form of Proposal shall render the accompanying Proposal irregular and subject to rejection by the Owner unless initialed by the signatory prior to receipt of the Proposal.

WITHDRAWAL OF BIDS

Any bidder who has submitted a Proposal to the Owner may withdraw his bid at any time prior to the scheduled time for the receipt of bids. No bidder may withdraw his bid after the time stated in the Advertisement for receiving bids, and his bid shall be firm and shall remain firm for a period of ninety (90) days thereafter.

TAXES

The Contractor shall pay all use and other taxes that are lawfully assessed against the Contractor in connection with the work included in this Contract.

AWARD AND EXECUTION OF CONTRACT

Contract shall be awarded to the lowest responsive and responsible bidder on the basis of the lowest total sum of the extended unit prices for items of work included in the Proposal. The contract shall be deemed as having been awarded when formal notice of award shall have been duly served by the Owner upon bidder.

TIME OF COMPLETION

The Owner and the individual citizens of the municipality affected by this project are vitally concerned with the prompt completion of the construction together with the cleanup and restoration of roads and lawns within the time allowed in the proposal.

The Contractor shall use sufficient labor and equipment to complete and place in service all of the work being constructed within this contract within the time specified in the proposal. The surface cleanup shall follow closely behind construction neatly finished by the end of each work day. Failure of the contractor

Coldwater Lake Family Park – Campground Site Improvements

to comply with this type of workmanlike job will result in the suspension of all contract operations until the cleanup is affected.

If the Contractor shall be unavoidably delayed in beginning or fulfilling this contract by reason of excessive storm or floods, or by acts of Providence, or by general strikes, or by court injunction, or by stopping of the work by Owner because of any emergency or public necessity or by reason of alterations ordered by Owner, the Contractor shall have no valid claim for damages on account of any cause of delay; but he shall in such case be entitled to such an extension of the above time limit herein, as the Engineer shall adjudge to be just and reasonable; provided, however, that formal claim for such extension shall be made in writing by the Contractor within a week after the date upon which such alleged cause or delay shall have occurred.

LIQUIDATED DAMAGES

It is expressly covenanted and agreed that time is and shall be considered of the essence of the Contract. In the event that the Contractor shall fail to perform the entire work agreed to by or at the times established in the Contract, or within some other certain date subsequent to this to which the time limit for the completion of the work may have been advanced under the provisions the Contract, the Contractor shall pay unto the Owner as and for liquidated damages and not as a penalty, the sum of Two Hundred Fifty Dollars (\$250.00) for each and every calendar day that the Contractor shall be in default. Said sum of Two Hundred Fifty Dollars (\$250.00) per day, in view of the difficulty of estimating such damages with exactness, is hereby expressly fixed and agreed upon as the damages which will be suffered by the Owner for reason of such defaults. It is also understood and agreed that the liquidated damages herein before mentioned are, in lieu of the actual damages arising from such breaches of this Contract, which said sums the Owner shall have the right to deduct from any monies in hand otherwise due or to become due to the Contractor or to sue for and recover compensation for damages for nonperformance of this contract at the time stipulated herein and provided.

EXECUTION OF CONTRACT AND BOND FORMS

The bidder to whom the contract shall have been awarded will be required to execute the Contract in the form attached hereto and to furnish surety and insurance certificates all as required within ten (10) calendar days from the date when notice of award is delivered to the bidder. The notice of award shall be accompanied by the necessary contract and bond forms as required by the General Supplementary Conditions. The notice to proceed shall be issued following the execution of the Contract by the Owner.

SOIL EROSION AND SEDIMENTATION CONTROL

Isabella County shall be responsible for obtaining a Soil Erosion and Sedimentation Control Permit from the County. Isabella County shall be responsible for installing and maintaining all Soil Erosion and Sedimentation Control Measures for the life of the project.

The contractor shall notify the project representative for Isabella County in the event that such measures are in need of maintenance or replacement.

TRAFFIC CONTROL/MAINTAINING TRAFFIC

The Contractor shall be responsible for traffic control during the life of the contract as required to provide for safe flow of traffic/pedestrians in and out of the project site or as directed by the Specifications or as directed by the Engineer. The cost for Traffic Control/Maintaining Traffic shall be included in the Lump Sum item listed in the Proposal. If no Lump Sum item is listed in the Proposal the cost for Traffic Control/Maintaining Traffic shall be considered incidental to the work done under the contract.

Coldwater Lake Family Park – Campground Site Improvements

PROGRESS PAYMENTS

Progress payments to the Contractor will be made in accordance with State Act 524, Public Acts of 1980.

FAIR EMPLOYMENT PRACTICES

In accordance with the United States Constitution and all federal legislation and regulations governing fair employment practices and equal employment opportunity, including but not limited to Title VI of the Civil Rights Act of 1964 (P.L. 88-352, 78 STAT. 252), and United States Department of Justice Regulations (28 C.F.R. Part 42) issued pursuant to the Title, and in accordance with the Michigan Constitution and all state laws and regulations governing fair employment opportunity, including but not limited to the Michigan Civil Rights Act (P.A. 1976 No. 453) and the Michigan Handicappers Civil Rights Act (P.A. 1976 No. 220) the Contractor agrees that he will not discriminate against any person, employee, consultant or applicant for employment with respect to his(her) hire, tenure, terms, conditions or privileges of employment or hire because of his(her) religion, race, color, national origin, age, sex, height, weight, marital status, or handicap that is unrelated to the individual's ability to perform the duties of a particular job or position. The Contractor recognizes the right to the United States and the State of Michigan to seek judicial enforcement of the foregoing covenants against discrimination against itself or its subcontractors.

END OF DOCUMENT 002113

DOCUMENT 002600 - PROCUREMENT SUBSTITUTION PROCEDURES

1.1 DEFINITIONS

- A. Procurement Substitution Requests: Requests for changes in products, materials, equipment, and methods of construction from those indicated in the Procurement and Contracting Documents, submitted prior to receipt of bids.
- B. Substitution Requests: Requests for changes in products, materials, equipment, and methods of construction from those indicated in the Contract Documents, submitted following Contract award. See Section 012500 "Substitution Procedures" for conditions under which Substitution requests will be considered following Contract award.

1.2 QUALITY ASSURANCE

- A. Compatibility of Substitutions: Investigate and document compatibility of proposed substitution with related products and materials. Engage a qualified testing agency to perform compatibility tests recommended by manufacturers.

1.3 PROCUREMENT SUBSTITUTIONS

- A. Procurement Substitutions, General: By submitting a bid, the Bidder represents that its bid is based on materials and equipment described in the Procurement and Contracting Documents, including Addenda. Bidders are encouraged to request approval of qualifying substitute materials and equipment when the Specifications Sections list materials and equipment by product or manufacturer name.
- B. Procurement Substitution Requests will be received and considered by Owner when the following conditions are satisfied, as determined by Architect; otherwise requests will be returned without action:
 - 1. Extensive revisions to the Contract Documents are not required.
 - 2. Proposed changes are in keeping with the general intent of the Contract Documents, including the level of quality of the Work represented by the requirements therein.
 - 3. The request is fully documented and properly submitted.

1.4 SUBMITTALS

- A. Procurement Substitution Request: Submit to Engineer. Procurement Substitution Request must be made in writing in compliance with the following requirements:
 - 1. Requests for substitution of materials and equipment will be considered if received no later than 10 days prior to date of bid opening.
 - 2. Submittal Format: Submit three copies of each written Procurement Substitution Request, using CSI Substitution Request Form 1.5C.

Coldwater Lake Family Park – Campground Site Improvements

- a. Identify the product or the fabrication or installation method to be replaced in each request. Include related Specifications Sections and drawing numbers.
- b. Provide complete documentation on both the product specified and the proposed substitute, including the following information as appropriate:
 - 1) Point-by-point comparison of specified and proposed substitute product data, fabrication drawings, and installation procedures.
 - 2) Copies of current, independent third-party test data of salient product or system characteristics.
 - 3) Samples where applicable or when requested by Engineer.
 - 4) Detailed comparison of significant qualities of the proposed substitute with those of the Work specified. Significant qualities may include attributes such as performance, weight, size, durability, visual effect, sustainable design characteristics, warranties, and specific features and requirements indicated. Indicate deviations, if any, from the Work specified.
 - 5) Coordination information, including a list of changes or modifications needed to other parts of the Work and to construction performed by Owner and separate contractors, which will become necessary to accommodate the proposed substitute.
- c. Provide certification by manufacturer that the substitute proposed is equal to or superior to that required by the Procurement and Contracting Documents, and that its in-place performance will be equal to or superior to the product or equipment specified in the application indicated.
- d. Bidder, in submitting the Procurement Substitution Request, waives the right to additional payment or an extension of Contract Time because of the failure of the substitute to perform as represented in the Procurement Substitution Request.

B. Engineer's Action:

1. Engineer may request additional information or documentation necessary for evaluation of the Procurement Substitution Request. Engineer will notify all bidders of acceptance of the proposed substitute by means of an Addendum to the Procurement and Contracting Documents.

C. Engineer's approval of a substitute during bidding does not relieve Contractor of the responsibility to submit required shop drawings and to comply with all other requirements of the Contract Documents.

END OF DOCUMENT 002600

DOCUMENT 003113 - PRELIMINARY SCHEDULES

1.1 PROJECT SCHEDULE

- A. Bidder to provide a compressed construction schedule, from Award of Contract through Substantial Completion, with their Bidder's Package. Schedule shall include but is not limited to; permitting, product ordering, Pre-construction Meeting, Construction Completion, Punch List, and Owner Final Approval of Work.
- B. Related Requirements:
 - 1. Document 004113 "Bid Form - Stipulated Sum (Single-Prime Contract)"

END OF DOCUMENT 003113

Coldwater Lake Family Park - Campground Site Improvements

DOCUMENT 003143 - PERMIT APPLICATION

1.1 PERMIT APPLICATION INFORMATION

- A. Permit Application: Complete applicable permit applications and file with authorities having jurisdiction within five days of the Notice to Proceed.

END OF DOCUMENT 003143

Coldwater Lake Family Park - Campground Site Improvements

DOCUMENT 004113 - BID FORM - STIPULATED SUM (SINGLE-PRIME CONTRACT)

1.1 BID INFORMATION

A. Bidder: _____.

B. Project Name: Coldwater Lake Family Park – Campground Improvements Project

Project Location: 1703 N. Littlefield Road, Weidman, Michigan 48893

C. Owner: Isabella County, 200 Main Street, Mt. Pleasant, MI 48858

D. Engineer: William A. Kibbe & Associates, Inc., 1475 S. Washington Ave., Saginaw, MI 48601

1.2 CERTIFICATIONS AND BASE BID

A. Base Bid, Single-Prime (All Trades) Contract: The undersigned Bidder, having carefully examined the Procurement and Contracting Requirements, Conditions of the Contract, Drawings, Specifications, and all subsequent Addenda, as prepared by William A. Kibbe & Assoc., Inc., having visited the site, and being familiar with all conditions and requirements of the Work, hereby agrees to furnish all material, labor, equipment and services, including all scheduled allowances, necessary to complete the construction of the above-named project, according to the requirements of the Procurement and Contracting Documents, for the stipulated sum of the following:

Tree & brush removal, including stumps (all trees under 12" dia.)	\$ _____
Excavation, grading and placement of MDOT 23A base for new pull-through roads and drives 94-102	\$ _____
New 50/30/20 Non-metered pedestals and new electrical from existing East Power Panel to new sites 94-102	\$ _____
Reconnect existing 30/20 pedestals at existing sites 83-93 with new wire and conduit from the existing breaker in the East Power Panel. See proposed plan for new site numbering	\$ _____
New water services to sites 83-102	\$ _____
Other miscellaneous site improvements	\$ _____
Cleanup and restoration	\$ _____
Other (describe _____)	\$ _____

Base Bid:

1. _____ Dollars (\$ _____).

Coldwater Lake Family Park - Campground Site Improvements

ALTERNATE BID NO. 1

Provide Metered Pedestals for new sites 93-102

Alternate Bid No. 1:

2. _____ Dollars (\$_____).

ALTERNATE BID NO. 2

Provide and Install new 50/30/20 Non-metered Pedestals and
new electrical from the West Power Panel to existing sites 65-67
and sites 76-82

Alternate Bid No. 2:

3. _____ Dollars (\$_____).

ALTERNATE BID NO. 3

Provide Metered Pedestals for existing sites 65-67 and 76-82

Alternate Bid No. 3:

4. _____ Dollars (\$_____).

TOTAL BID (INCLUDING BASE BID AND ALTERNATES 1-3):

_____ Dollars (\$_____).

NOTE: The Owner reserves the right to accept or reject base bid and any or none of the alternate bid options in no particular order, at their sole discretion.

1.3 SUBCONTRACTORS AND SUPPLIERS

A. The following companies shall execute subcontracts for the portions of the Work indicated:

1. Excavation, Site Grading and Agg. Base Placement: _____.
2. Electrical Services: _____.
3. Water Services: _____.
4. Tree Removal: _____.

1.4 TIME OF COMPLETION

A. The undersigned Bidder proposes and agrees hereby to commence the Work of the Contract Documents on a date specified in a written Notice to Proceed to be issued by Engineer or

Coldwater Lake Family Park - Campground Site Improvements
Owner.

1.5 ACKNOWLEDGEMENT OF ADDENDA

A. The undersigned Bidder acknowledges receipt of and use of the following Addenda in the preparation of this Bid:

1. Addendum No. 1, dated _____.
2. Addendum No. 2, dated _____.
3. Addendum No. 3, dated _____.
4. Addendum No. 4, dated _____.

1.6 CONTRACTOR'S LICENSE

A. The undersigned further states that it is a duly licensed contractor, for the type of work proposed, in the State of Michigan and that all fees, permits, etc., pursuant to submitting this proposal have been paid in full.

1.7 SUBMISSION OF BID

- A. Respectfully submitted this ____ day of _____, 2019.
- B. Submitted By: _____ (Name of bidding firm or corporation).
- C. Authorized Signature: _____ (Handwritten signature).
- D. Signed By: _____ (Type or print name).
- E. Title: _____ (Owner/Partner/President/Vice President).
- F. Witness By: _____ (Handwritten signature).
- G. Attest: _____ (Handwritten signature).
- H. By: _____ (Type or print name).
- I. Title: _____ (Corporate Secretary or Assistant Secretary).
- J. Street Address: _____.
- K. City, State, Zip: _____.

Coldwater Lake Family Park - Campground Site Improvements

- L. Phone: _____.
- M. License No.: _____.
- N. Federal ID No.: _____ (Affix Corporate Seal Here).

END OF DOCUMENT 004113

Coldwater Lake Family Park - Campground Site Improvements

SECTION 011000 - SUMMARY

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section Includes:

- 1. Project information.
- 2. Work covered by Contract Documents.
- 3. Work by Owner.
- 4. Access to site.
- 5. Coordination with occupants.
- 6. Work restrictions.
- 7. Specification and Drawing conventions.
- 8. Miscellaneous provisions.

- B. Related Requirements:

- 1. Section 015000 "Temporary Facilities and Controls" for limitations and procedures governing temporary use of Owner's facilities.

1.3 PROJECT INFORMATION

- A. Project Identification: Coldwater Lake Family Park - Campground Site Improvements.

- 1. Project Location: 1703 N Littlefield Rd, Weidman, Michigan 48893

- B. Owner: Isabella County

- 1. Owner's Representative: See Item C as follows.

- C. Engineer: Jay C. Wheeler, PE, William A. Kibbe & Assoc., Inc.

- 1. 1475 S. Washington Ave., Saginaw, MI 48601
- 2. 989-752-5000 (p)
- 3. jwheeler@kibbe.com

Coldwater Lake Family Park - Campground Site Improvements

1.4 WORK COVERED BY CONTRACT DOCUMENTS

- A. The Work of Project is defined by the Contract Documents and consists of the following:
 - 1. Procure and provide all labor, materials and services to Renovate and expand 8 campsites into 9 pull-through sites with a new gravel road and drives, new 50 amp electrical service and new water risers. Move electrical service for 10 north campsites to west park transformer and other Work indicated in the Contract Documents.
- B. Type of Contract:
 - 1. Project will be constructed under a single prime contract.

1.5 WORK BY OWNER

- A. General: Cooperate fully with Owner so work may be carried out smoothly, without interfering with or delaying work under this Contract or work by Owner. Coordinate the Work of this Contract with work performed by Owner.
- B. Preceding Work: Owner will perform the following construction operations at Project site. Those operations are scheduled to be substantially complete before work under this Contract begins.
 - 1. Provide access to electrical buildings and panels.
- C. Subsequent Work: Owner will perform the following additional work at site after Substantial Completion. Completion of that work will depend on successful completion of preparatory Work under this Contract.
 - 1. Installation of fire pits and site number posts.

1.6 ACCESS TO SITE

- A. Limit use of project site to Limits of Construction indicated on plans. Do not disturb portions of project site beyond areas in which the work is indicated, except for the route to the site that is mutually identified and agreed upon by staff.

Coldwater Lake Family Park - Campground Site Improvements

1.7 COORDINATION WITH OCCUPANTS

- A. Full Owner Occupancy: Owner will occupy site and existing building(s) during entire construction period. Cooperate with Owner during construction operations to minimize conflicts and facilitate Owner usage. Perform the Work so as not to interfere with Owner's day-to-day operations. Maintain existing exits unless otherwise indicated.
 - 1. Maintain access to existing walkways, corridors, and other adjacent occupied or used facilities. Do not close or obstruct walkways, corridors, or other occupied or used facilities without written permission from Owner and approval of authorities having jurisdiction.
 - 2. Notify Owner not less than 72 hours in advance of activities that will affect Owner's operations.

1.8 WORK RESTRICTIONS

- A. Work Restrictions, General: Comply with restrictions on construction operations.
 - 1. Comply with limitations on use of public streets and with other requirements of authorities having jurisdiction.
- B. On-Site Work Hours: Limit work hours based on owner's direction.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION (Not Used)

END OF SECTION 011000

SECTION 012500 - SUBSTITUTION PROCEDURES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section includes administrative and procedural requirements for substitutions.
- B. Related Requirements:
 - 1. Section 016000 "Product Requirements" for requirements for submitting comparable product submittals for products by listed manufacturers.

1.3 DEFINITIONS

- A. Substitutions: Changes in products, materials, equipment, and methods of construction from those required by the Contract Documents and proposed by Contractor.
 - 1. Substitutions for Cause: Changes proposed by Contractor that are required due to changed Project conditions, such as unavailability of product, regulatory changes, or unavailability of required warranty terms.
 - 2. Substitutions for Convenience: Changes proposed by Contractor or Owner that are not required in order to meet other Project requirements but may offer advantage to Contractor or Owner.

1.4 ACTION SUBMITTALS

- A. Substitution Requests: Submit three copies of each request for consideration. Identify product or fabrication or installation method to be replaced. Include Specification Section number and title and Drawing numbers and titles.
 - 1. Documentation: Show compliance with requirements for substitutions and the following, as applicable:
 - a. Statement indicating why specified product or fabrication or installation method cannot be provided, if applicable.
 - b. Coordination of information, including a list of changes or revisions needed to other parts of the Work and to construction performed by Owner and separate contractors that will be necessary to accommodate proposed substitution.

Coldwater Lake Family Park - Campground Site Improvements

- c. Detailed comparison of significant qualities of proposed substitutions with those of the Work specified. Include annotated copy of applicable Specification Section. Significant qualities may include attributes, such as performance, weight, size, durability, visual effect, sustainable design characteristics, warranties, and specific features and requirements indicated. Indicate deviations, if any, from the Work specified.
 - d. Product Data, including drawings and descriptions of products and fabrication and installation procedures.
 - e. Samples, where applicable or requested.
 - f. Certificates and qualification data, where applicable or requested.
 - g. List of similar installations for completed projects, with project names and addresses as well as names and addresses of Engineers and owners.
 - h. Material test reports from a qualified testing agency, indicating and interpreting test results for compliance with requirements indicated.
 - i. Cost information, including a proposal of change, if any, in the Contract Sum.
 - j. Contractor's certification that proposed substitution complies with requirements in the Contract Documents, except as indicated in substitution request, is compatible with related materials and is appropriate for applications indicated.
 - k. Contractor's waiver of rights to additional payment or time that may subsequently become necessary because of failure of proposed substitution to produce indicated results.
2. Engineer's Action: If necessary, Engineer will request additional information or documentation for evaluation within seven days of receipt of a request for substitution. Engineer will notify Contractor of acceptance or rejection of proposed substitution within fifteen days of receipt of request, or seven days of receipt of additional information or documentation, whichever is later.
 - a. Forms of Acceptance: Change Order, Construction Change Directive, or Engineer's Supplemental Instructions for minor changes in the Work.
 - b. Use product specified if Engineer does not issue a decision on use of a proposed substitution within time allocated.

1.5 QUALITY ASSURANCE

- A. Compatibility of Substitutions: Investigate and document compatibility of proposed substitution with related products and materials. Engage a qualified testing agency to perform compatibility tests recommended by manufacturers.

1.6 PROCEDURES

- A. Coordination: Revise or adjust affected work as necessary to integrate work of the approved substitutions.

PART 2 - PRODUCTS

2.1 SUBSTITUTIONS

- A. Substitutions for Cause: Submit requests for substitution immediately on discovery of need for change, but not later than 15 days prior to time required for preparation and review of related submittals.
1. Conditions: Engineer will consider Contractor's request for substitution when the following conditions are satisfied. If the following conditions are not satisfied, Engineer will return requests without action, except to record noncompliance with these requirements:
 - a. Requested substitution is consistent with the Contract Documents and will produce indicated results.
 - b. Substitution request is fully documented and properly submitted.
 - c. Requested substitution will not adversely affect Contractor's construction schedule.
 - d. Requested substitution has received necessary approvals of authorities having jurisdiction.
 - e. Requested substitution is compatible with other portions of the Work.
 - f. Requested substitution has been coordinated with other portions of the Work.
 - g. Requested substitution provides specified warranty.
- B. Substitutions for Convenience: Engineer will consider requests for substitution if received within thirty days after the Notice to Proceed. Requests received after that time may be considered or rejected at discretion of Engineer.
1. Conditions: Engineer will consider Contractor's request for substitution when the following conditions are satisfied. If the following conditions are not satisfied, Engineer will return requests without action, except to record noncompliance with these requirements:
 - a. Requested substitution offers Owner a substantial advantage in cost, time, energy conservation, or other considerations, after deducting additional responsibilities Owner must assume. Owner's additional responsibilities may include compensation to Engineer for redesign and evaluation services, increased cost of other construction by Owner, and similar considerations.
 - b. Requested substitution does not require extensive revisions to the Contract Documents.
 - c. Requested substitution is consistent with the Contract Documents and will produce indicated results.
 - d. Substitution request is fully documented and properly submitted.
 - e. Requested substitution will not adversely affect Contractor's construction schedule.
 - f. Requested substitution has received necessary approvals of authorities having jurisdiction.
 - g. Requested substitution is compatible with other portions of the Work.
 - h. Requested substitution has been coordinated with other portions of the Work.
 - i. Requested substitution provides specified warranty.

Coldwater Lake Family Park - Campground Site Improvements

PART 3 - EXECUTION (Not Used)

END OF SECTION 012500

SECTION 012600 - CONTRACT MODIFICATION PROCEDURES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section includes administrative and procedural requirements for handling and processing Contract modifications.
- B. Related Requirements:
 - 1. Section 012500 "Substitution Procedures" for administrative procedures for handling requests for substitutions made after the Contract award.

1.3 MINOR CHANGES IN THE WORK

- A. Engineer will issue supplemental instructions authorizing minor changes in the Work, not involving adjustment to the Contract Sum or the Contract Time, on AIA Document G710, "Architect's Supplemental Instructions," or similar.

1.4 PROPOSAL REQUESTS

- A. Owner-Initiated Proposal Requests: Engineer will issue a detailed description of proposed changes in the Work that may require adjustment to the Contract Sum or the Contract Time. If necessary, the description will include supplemental or revised Drawings and Specifications.
 - 1. Work Change Proposal Requests issued by Engineer are not instructions either to stop work in progress or to execute the proposed change.
 - 2. Within time specified in Proposal Request after receipt of Proposal Request, submit a quotation estimating cost adjustments to the Contract Sum and the Contract Time necessary to execute the change.
 - a. Include a list of quantities of products required or eliminated and unit costs, with total amount of purchases and credits to be made. If requested, furnish survey data to substantiate quantities.
 - b. Indicate applicable taxes, delivery charges, equipment rental, and amounts of trade discounts.
 - c. Include costs of labor and supervision directly attributable to the change.
 - d. Include an updated Contractor's construction schedule that indicates the effect of the change, including, but not limited to, changes in activity duration, start and

Coldwater Lake Family Park - Campground Site Improvements

finish times, and activity relationship. Use available total float before requesting an extension of the Contract Time.

- e. Quotation Form: Use forms acceptable to Engineer.
- B. Contractor-Initiated Proposals: If latent or changed conditions require modifications to the Contract, Contractor may initiate a claim by submitting a request for a change to Engineer.
1. Include a statement outlining reasons for the change and the effect of the change on the Work. Provide a complete description of the proposed change. Indicate the effect of the proposed change on the Contract Sum and the Contract Time.
 2. Include a list of quantities of products required or eliminated and unit costs, with total amount of purchases and credits to be made. If requested, furnish survey data to substantiate quantities.
 3. Indicate applicable taxes, delivery charges, equipment rental, and amounts of trade discounts.
 4. Include costs of labor and supervision directly attributable to the change.
 5. Include an updated Contractor's construction schedule that indicates the effect of the change, including, but not limited to, changes in activity duration, start and finish times, and activity relationship. Use available total float before requesting an extension of the Contract Time.
 6. Comply with requirements in Section 012500 "Substitution Procedures" if the proposed change requires substitution of one product or system for product or system specified.
 7. Proposal Request Form: Use form acceptable to Engineer.

1.5 CHANGE ORDER PROCEDURES

- A. On Owner's approval of a Work Changes Proposal Request, Engineer will issue a Change Order for signatures of Owner and Contractor on AIA Document G701, or similar.

1.6 CONSTRUCTION CHANGE DIRECTIVE

- A. Construction or Work Change Directive: Engineer may issue a Construction or Work Change Directive on AIA Document G714, or similar. Construction or Work Change Directive instructs Contractor to proceed with a change in the Work, for subsequent inclusion in a Change Order.
1. Construction or Work Change Directive contains a complete description of change in the Work. It also designates method to be followed to determine change in the Contract Sum or the Contract Time.
- B. Documentation: Maintain detailed records on a time and material basis of work required by the Construction or Work Change Directive.
1. After completion of change, submit an itemized account and supporting data necessary to substantiate cost and time adjustments to the Contract.

Coldwater Lake Family Park - Campground Site Improvements

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION (Not Used)

END OF SECTION 012600

SECTION 012900 - PAYMENT PROCEDURES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section includes administrative and procedural requirements necessary to prepare and process Applications for Payment.
- B. Related Requirements:
 - 1. Section 012600 "Contract Modification Procedures" for administrative procedures for handling changes to the Contract.

1.3 DEFINITIONS

- A. Schedule of Values: A statement furnished by Contractor allocating portions of the Contract Sum to various portions of the Work and used as the basis for reviewing Contractor's Applications for Payment.

1.4 SCHEDULE OF VALUES

- A. Coordination: Coordinate preparation of the schedule of values with preparation of Contractor's construction schedule.
 - 1. Coordinate line items in the schedule of values with other required administrative forms and schedules, including the following:
 - a. Application for Payment forms with continuation sheets.
 - b. Submittal schedule.
 - c. Items required to be indicated as separate activities in Contractor's construction schedule.
 - 2. Submit the schedule of values to Engineer within seven days of the Notice to Proceed.
- B. Format and Content: Use Project Manual table of contents as an initial guide to establish line items for the schedule of values.
 - 1. Identification: Include the following Project identification on the schedule of values:

Coldwater Lake Family Park - Campground Site Improvements

- a. Project name and location.
 - b. Name of Engineer.
 - c. Engineer's project number.
 - d. Contractor's name and address.
 - e. Date of submittal.
2. Arrange schedule of values consistent with format of AIA Document G703; or
 3. Arrange the schedule of values in tabular form with separate columns to indicate the following for each item listed:
 - a. Related Specification Section or Division.
 - b. Description of the Work.
 - c. Name of subcontractor.
 - d. Name of manufacturer or fabricator.
 - e. Name of supplier.
 - f. Change Orders (numbers) that affect value.
 - g. Dollar value of the following, as a percentage of the Contract Sum to nearest one-hundredth percent, adjusted to total 100 percent.
 - 1) Labor.
 - 2) Materials.
 - 3) Equipment.
 4. Provide a breakdown of the Contract Sum in enough detail to facilitate continued evaluation of Applications for Payment and progress reports. Coordinate with Project Manual table of contents. Provide multiple line items for principal subcontract amounts in excess of five percent of the Contract Sum.
 5. Round amounts to nearest whole dollar; total shall equal the Contract Sum.
 6. Provide a separate line item in the schedule of values for each part of the Work where Applications for Payment may include materials or equipment purchased or fabricated and stored, but not yet installed.
 - a. Differentiate between items stored on-site and items stored off-site. If required, include evidence of insurance.
 7. Provide separate line items in the schedule of values for initial cost of materials, for each subsequent stage of completion, and for total installed value of that part of the Work.
 8. Each item in the schedule of values and Applications for Payment shall be complete. Include total cost and proportionate share of general overhead and profit for each item.
 - a. Temporary facilities and other major cost items that are not direct cost of actual work-in-place may be shown either as separate line items in the schedule of values or distributed as general overhead expense, at Contractor's option.
 9. Schedule Updating: Update and resubmit the schedule of values before the next Applications for Payment when Change Orders or Construction Change Directives result in a change in the Contract Sum.

1.5 APPLICATIONS FOR PAYMENT

- A. Each Application for Payment following the initial Application for Payment shall be consistent with previous applications and payments as certified by Engineer and paid for by Owner.
 - 1. Initial Application for Payment, Application for Payment at time of Substantial Completion, and final Application for Payment involve additional requirements.
- B. Payment Application Times: Submit Application for Payment to Engineer by the 20th of the month. The period covered by each Application for Payment is one month, ending on the 20th of the month.
 - 1. Submit draft copy of Application for Payment five days prior to due date for review by Engineer.
- C. Application for Payment Forms: Use AIA Document G702 and AIA Document G703 as form for Applications for Payment; or
- D. Application for Payment Forms: Use forms acceptable to Engineer and Owner for Applications for Payment. Submit forms for approval with initial submittal of schedule of values.
- E. Application Preparation: Complete every entry on form. Notarize and execute by a person authorized to sign legal documents on behalf of Contractor. Engineer will return incomplete applications without action.
 - 1. Entries shall match data on the schedule of values and Contractor's construction schedule. Use updated schedules if revisions were made.
 - 2. Include amounts for work completed following previous Application for Payment, whether or not payment has been received. Include only amounts for work completed at time of Application for Payment.
 - 3. Include amounts of Change Orders and Construction Change Directives issued before last day of construction period covered by application.
 - 4. Indicate separate amounts for work being carried out under Owner-requested project acceleration.
- F. Stored Materials: Include in Application for Payment amounts applied for materials or equipment purchased or fabricated and stored, but not yet installed. Differentiate between items stored on-site and items stored off-site.
 - 1. Provide certificate of insurance, evidence of transfer of title to Owner, and consent of surety to payment, for stored materials.
 - 2. Provide supporting documentation that verifies amount requested, such as paid invoices. Match amount requested with amounts indicated on documentation; do not include overhead and profit on stored materials.
 - 3. Provide summary documentation for stored materials indicating the following:
 - a. Value of materials previously stored and remaining stored as of date of previous Applications for Payment.

Coldwater Lake Family Park - Campground Site Improvements

- b. Value of previously stored materials put in place after date of previous Application for Payment and on or before date of current Application for Payment.
 - c. Value of materials stored since date of previous Application for Payment and remaining stored as of date of current Application for Payment.
- G. Transmittal: Submit three signed and notarized original copies of each Application for Payment to Engineer by a method ensuring receipt within 24 hours. One copy shall include waivers of lien and similar attachments if required.
 - 1. Transmit each copy with a transmittal form listing attachments and recording appropriate information about application.
- H. Waivers of Mechanic's Lien: With each Application for Payment, submit waivers of mechanic's liens from subcontractors, sub-subcontractors, and suppliers for construction period covered by the previous application.
 - 1. Submit partial waivers on each item for amount requested in previous application, after deduction for retainage, on each item.
 - 2. When an application shows completion of an item, submit conditional final or full waivers.
 - 3. Owner reserves the right to designate which entities involved in the Work must submit waivers.
 - 4. Submit final Application for Payment with or preceded by conditional final waivers from every entity involved with performance of the Work covered by the application who is lawfully entitled to a lien.
 - 5. Waiver Forms: Submit executed waivers of lien on forms, acceptable to Owner.
- I. Initial Application for Payment: Administrative actions and submittals that must precede or coincide with submittal of first Application for Payment include the following:
 - 1. List of subcontractors.
 - 2. Schedule of values.
 - 3. Contractor's construction schedule (preliminary if not final).
 - 4. Combined Contractor's construction schedule (preliminary if not final) incorporating Work of multiple contracts, with indication of acceptance of schedule by each Contractor.
 - 5. Products list (preliminary if not final).
 - 6. Schedule of unit prices.
 - 7. Submittal schedule (preliminary if not final).
 - 8. List of Contractor's staff assignments.
 - 9. Copies of building permits.
 - 10. Copies of authorizations and licenses from authorities having jurisdiction for performance of the Work.
 - 11. Certificates of insurance and insurance policies.
 - 12. Performance and payment bonds.
 - 13. Data needed to acquire Owner's insurance.
- J. Application for Payment at Substantial Completion: After Engineer issues the Certificate of Substantial Completion, submit an Application for Payment showing 100 percent completion for portion of the Work claimed as substantially complete.

Coldwater Lake Family Park - Campground Site Improvements

1. Include documentation supporting claim that the Work is substantially complete and a statement showing an accounting of changes to the Contract Sum.
 2. This application shall reflect Certificate(s) of Substantial Completion issued previously for Owner occupancy of designated portions of the Work.
- K. Final Payment Application: After completing Project closeout requirements, submit final Application for Payment with releases and supporting documentation not previously submitted and accepted, including, but not limited, to the following:
1. Evidence of completion of Project closeout requirements.
 2. Insurance certificates for products and completed operations where required and proof that taxes, fees, and similar obligations were paid.
 3. Updated final statement, accounting for final changes to the Contract Sum.
 4. AIA Document G706, "Contractor's Affidavit of Payment of Debts and Claims."
 5. AIA Document G706A, "Contractor's Affidavit of Release of Liens."
 6. AIA Document G707, "Consent of Surety to Final Payment."
 7. Evidence that claims have been settled.
 8. Final meter readings for utilities, a measured record of stored fuel, and similar data as of date of Substantial Completion or when Owner took possession of and assumed responsibility for corresponding elements of the Work.
 9. Final liquidated damages settlement statement.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION (Not Used)

END OF SECTION 012900

SECTION 013100 - PROJECT MANAGEMENT AND COORDINATION

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section includes administrative provisions for coordinating construction operations on Project including, but not limited to, the following:
 - 1. General coordination procedures.
 - 2. Requests for Information (RFIs).
 - 3. Project meetings.
- B. Each contractor shall participate in coordination requirements. Per project and contractual requirements, certain areas of responsibility may be assigned to a specific contractor.
- C. Related Requirements:
 - 1. Section 017300 "Execution" for procedures for coordinating general installation and field-engineering services, including establishment of benchmarks and control points.
 - 2. Section 017700 "Closeout Procedures" for coordinating closeout of the Contract.

1.3 DEFINITIONS

- A. RFI: Request from Owner, Engineer, or Contractor seeking information required by or clarifications of the Contract Documents.

1.4 INFORMATIONAL SUBMITTALS

- A. Subcontract List: Prepare a written summary identifying individuals or firms proposed for each portion of the Work, including those who are to furnish products or equipment fabricated to a special design. Include the following information in tabular form:
 - 1. Name, address, and telephone number of entity performing subcontract or supplying products.
 - 2. Number and title of related Specification Section(s) covered by subcontract, if applicable.
 - 3. Drawing number and detail references, as appropriate, covered by subcontract, as applicable.
- B. Key Personnel Names: Within five days of Notice to Proceed, submit a list of key personnel assignments, including superintendent and other personnel in attendance at Project site. Identify individuals and their duties and responsibilities; list addresses and telephone numbers, including

home, office, and cellular telephone numbers and e-mail addresses. Provide names, addresses, and telephone numbers of individuals assigned as alternates in the absence of individuals assigned to Project.

1.5 GENERAL COORDINATION PROCEDURES

- A. Coordination: Each contractor shall coordinate its construction operations with those of other contractors and entities to ensure efficient and orderly installation of each part of the Work. Each contractor shall coordinate its operations with operations, included in different Sections, that depend on each other for proper installation, connection, and operation.
1. Schedule construction operations in sequence required to obtain the best results where installation of one part of the Work depends on installation of other components, before or after its own installation.
 2. Coordinate installation of different components with other contractors to ensure maximum performance and accessibility for required maintenance, service, and repair.
 3. Make adequate provisions to accommodate items scheduled for later installation.

1.6 REQUESTS FOR INFORMATION (RFIs)

- A. General: Immediately on discovery of the need for additional information or interpretation of the Contract Documents, Contractor shall prepare and submit an RFI in the form specified.
1. Engineer will return RFIs submitted to Engineer by other entities controlled by Contractor with no response.
 2. Coordinate and submit RFIs in a prompt manner so as to avoid delays in Contractor's work or work of subcontractors.
- B. Content of the RFI: Include a detailed, legible description of item needing information or interpretation and the following:
1. Project name.
 2. Project number.
 3. Date.
 4. Name of Contractor.
 5. Name of Engineer.
 6. RFI number, numbered sequentially.
 7. RFI subject.
 8. Specification Section number and title and related paragraphs, as appropriate.
 9. Drawing number and detail references, as appropriate.
 10. Field dimensions and conditions, as appropriate.
 11. Contractor's suggested resolution. If Contractor's suggested resolution impacts the Contract Time or the Contract Sum, Contractor shall state impact in the RFI.
 12. Contractor's signature.
 13. Attachments: Include sketches, descriptions, measurements, photos, Product Data, Shop Drawings, coordination drawings, and other information necessary to fully describe items needing interpretation.

Coldwater Lake Family Park - Campground Site Improvements

- a. Include dimensions, thicknesses, structural grid references, and details of affected materials, assemblies, and attachments on attached sketches.
- C. RFI Forms: AIA Document G716 or software-generated form with substantially the same content as indicated above, acceptable to Engineer.
1. Attachments shall be electronic files in Adobe Acrobat PDF format.
- D. Engineer's Action: Engineer will review each RFI, determine action required, and respond. Allow seven working days for Engineer's response for each RFI. RFIs received by Engineer after 1:00 p.m. will be considered as received the following working day.
1. The following Contractor-generated RFIs will be returned without action:
 - a. Requests for approval of submittals.
 - b. Requests for approval of substitutions.
 - c. Requests for approval of Contractor's means and methods.
 - d. Requests for coordination information already indicated in the Contract Documents.
 - e. Requests for adjustments in the Contract Time or the Contract Sum.
 - f. Requests for interpretation of Engineer's actions on submittals.
 - g. Incomplete RFIs or inaccurately prepared RFIs.
 2. Engineer's action may include a request for additional information, in which case Engineer's time for response will date from time of receipt of additional information.
 3. Engineer's action on RFIs that may result in a change to the Contract Time or the Contract Sum may be eligible for Contractor to submit Change Proposal according to Section 012600 "Contract Modification Procedures."
 - a. If Contractor believes the RFI response warrants change in the Contract Time or the Contract Sum, notify Engineer in writing within seven days of receipt of the RFI response.
- E. RFI Log: Prepare, maintain, and submit a tabular log of RFIs organized by the RFI number. Submit log weekly. Include the following:
1. Project name.
 2. Name and address of Contractor.
 3. Name and address of Engineer.
 4. RFI number including RFIs that were returned without action or withdrawn.
 5. RFI description.
 6. Date the RFI was submitted.
 7. Date Engineer's response was received.
- F. On receipt of Engineer's action, update the RFI log and immediately distribute the RFI response to affected parties. Review response and notify Engineer within seven days if Contractor disagrees with response.

Coldwater Lake Family Park - Campground Site Improvements

1. Identification of related Minor Change in the Work, Construction Change Directive, and Proposal Request, as appropriate.
2. Identification of related Field Order, Work Change Directive, and Proposal Request, as appropriate.

1.7 PROJECT MEETINGS

A. General: Schedule meetings and conferences at Project site unless otherwise indicated.

1. Attendees: Inform participants and others involved, and individuals whose presence is required, of date and time of each meeting. Notify Owner and Engineer of scheduled meeting dates and times.
2. Agenda: Engineer will prepare and distribute the meeting agenda. Distribute the agenda to all invited attendees.
3. Minutes: Entity responsible for conducting meeting will record significant discussions and agreements achieved. Distribute the meeting minutes to everyone concerned, including Owner and Engineer, within three days of the meeting.

B. Preconstruction Conference: Engineer will schedule and conduct a preconstruction conference before starting construction, at a time convenient to Owner and Engineer, but no later than fifteen days after execution of the Agreement.

1. Conduct the conference to review responsibilities and personnel assignments.
2. Attendees: Authorized representatives of Owner, Engineer, and their consultants; Contractor and its superintendent; major subcontractors; suppliers; and other concerned parties shall attend the conference. Participants at the conference shall be familiar with Project and authorized to conclude matters relating to the Work.
3. Agenda: Discuss items of significance that could affect progress, including the following:
 - a. Tentative construction schedule.
 - b. Phasing.
 - c. Critical work sequencing and long-lead items.
 - d. Designation of key personnel and their duties.
 - e. Lines of communications.
 - f. Procedures for processing field decisions and Change Orders.
 - g. Procedures for RFIs.
 - h. Procedures for testing and inspecting.
 - i. Procedures for processing Applications for Payment.
 - j. Distribution of the Contract Documents.
 - k. Submittal procedures.
 - l. Sustainable design requirements.
 - m. Preparation of record documents.
 - n. Use of the premises and existing buildings.
 - o. Work restrictions.
 - p. Working hours.
 - q. Owner's occupancy requirements.
 - r. Responsibility for temporary facilities and controls.
 - s. Procedures for disruptions and shutdowns.
 - t. Construction waste management and recycling.
 - u. Parking availability.

Coldwater Lake Family Park - Campground Site Improvements

- v. Office, work, and storage areas.
 - w. Equipment deliveries and priorities.
 - x. First aid.
 - y. Security.
 - z. Progress cleaning.
4. Minutes: Engineer is responsible for conducting meeting will record and distribute meeting minutes.
- C. Progress Meetings: Engineer will conduct progress meetings at regular intervals determined at the Preconstruction Conference.
- 1. Coordinate dates of meetings with preparation of payment requests.
 - 2. Attendees: In addition to representatives of Owner and Engineer, each contractor, subcontractor, supplier, and other entity concerned with current progress or involved in planning, coordination, or performance of future activities shall be represented at these meetings. All participants at the meeting shall be familiar with Project and authorized to conclude matters relating to the Work.
 - 3. Agenda: Review and correct or approve minutes of previous progress meeting. Review other items of significance that could affect progress. Include topics for discussion as appropriate to status of Project.
 - a. Contractor's Construction Schedule: Review progress since the last meeting. Determine whether each activity is on time, ahead of schedule, or behind schedule, in relation to Contractor's construction schedule. Determine how construction behind schedule will be expedited; secure commitments from parties involved to do so. Discuss whether schedule revisions are required to ensure that current and subsequent activities will be completed within the Contract Time.
 - 1) Review schedule for next period.
 - b. Review present and future needs of each entity present, including the following:
 - 1) Interface requirements.
 - 2) Sequence of operations.
 - 3) Status of submittals.
 - 4) Deliveries.
 - 5) Off-site fabrication.
 - 6) Access.
 - 7) Site utilization.
 - 8) Temporary facilities and controls.
 - 9) Progress cleaning.
 - 10) Quality and work standards.
 - 11) Status of correction of deficient items.
 - 12) Field observations.
 - 13) Status of RFIs.
 - 14) Status of proposal requests.
 - 15) Pending changes.
 - 16) Status of Change Orders.
 - 17) Pending claims and disputes.
 - 18) Documentation of information for payment requests.

Coldwater Lake Family Park - Campground Site Improvements

4. Minutes: Engineer is responsible for conducting the meeting will record and distribute the meeting minutes to each party present and to parties requiring information.
 - a. Schedule Updating: Revise Contractor's construction schedule after each progress meeting where revisions to the schedule have been made or recognized. Issue revised schedule concurrently with the report of each meeting.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION (Not Used)

END OF SECTION 013100

SECTION 014000 - QUALITY REQUIREMENTS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section includes administrative and procedural requirements for quality assurance and quality control.
- B. Testing and inspecting services are required to verify compliance with requirements specified or indicated. These services do not relieve Contractor of responsibility for compliance with the Contract Document requirements.
 - 1. Specific quality-assurance and -control requirements for individual construction activities are specified in the Sections that specify those activities. Requirements in those Sections may also cover production of standard products.
 - 2. Specified tests, inspections, and related actions do not limit Contractor's other quality-assurance and -control procedures that facilitate compliance with the Contract Document requirements.
 - 3. Requirements for Contractor to provide quality-assurance and -control services required by Engineer, Owner, or authorities having jurisdiction are not limited by provisions of this Section.
 - 4. Specific test and inspection requirements are not specified in this Section.

1.3 DEFINITIONS

- A. Quality-Assurance Services: Activities, actions, and procedures performed before and during execution of the Work to guard against defects and deficiencies and substantiate that proposed construction will comply with requirements.
- B. Quality-Control Services: Tests, inspections, procedures, and related actions during and after execution of the Work to evaluate that actual products incorporated into the Work and completed construction comply with requirements. Services do not include contract enforcement activities performed by Engineer.
- C. Mockups: Full-size physical assemblies that are constructed on-site. Mockups are constructed to verify selections made under Sample submittals; to demonstrate aesthetic effects and, where indicated, qualities of materials and execution; to review coordination, testing, or operation; to show interface between dissimilar materials; and to demonstrate compliance with specified installation tolerances. Mockups are not Samples. Unless otherwise indicated, approved mockups establish the standard by which the Work will be judged.

Coldwater Lake Family Park - Campground Site Improvements

- D. Preconstruction Testing: Tests and inspections performed specifically for Project before products and materials are incorporated into the Work, to verify performance or compliance with specified criteria.
- E. Product Testing: Tests and inspections that are performed by an NRTL, an NVLAP, or a testing agency qualified to conduct product testing and acceptable to authorities having jurisdiction, to establish product performance and compliance with specified requirements.
- F. Source Quality-Control Testing: Tests and inspections that are performed at the source, e.g., plant, mill, factory, or shop.
- G. Field Quality-Control Testing: Tests and inspections that are performed on-site for installation of the Work and for completed Work.
- H. Testing Agency: An entity engaged to perform specific tests, inspections, or both. Testing laboratory shall mean the same as testing agency.
- I. Installer/Applicator/Erector: Contractor or another entity engaged by Contractor as an employee, Subcontractor, or Sub-subcontractor, to perform a particular construction operation, including installation, erection, application, and similar operations.
 - 1. Use of trade-specific terminology in referring to a trade or entity does not require that certain construction activities be performed by accredited or unionized individuals, or that requirements specified apply exclusively to specific trade(s).
- J. Experienced: When used with an entity or individual, "experienced" means having successfully completed a minimum of five previous projects similar in nature, size, and extent to this Project; being familiar with special requirements indicated; and having complied with requirements of authorities having jurisdiction.

1.4 CONFLICTING REQUIREMENTS

- A. Referenced Standards: If compliance with two or more standards is specified and the standards establish different or conflicting requirements for minimum quantities or quality levels, comply with the most stringent requirement. Refer conflicting requirements that are different, but apparently equal, to Engineer for a decision before proceeding.
- B. Minimum Quantity or Quality Levels: The quantity or quality level shown or specified shall be the minimum provided or performed. The actual installation may comply exactly with the minimum quantity or quality specified, or it may exceed the minimum within reasonable limits. To comply with these requirements, indicated numeric values are minimum or maximum, as appropriate, for the context of requirements. Refer uncertainties to Engineer for a decision before proceeding.

1.5 ACTION SUBMITTALS

- A. Shop Drawings: Provide plans, sections, elevations, and details as specified, necessary or requested.

1.6 REPORTS AND DOCUMENTS

- A. Test and Inspection Reports: Prepare and submit certified written reports specified in other Sections. Include the following:
1. Date of issue.
 2. Project title and number.
 3. Name, address, and telephone number of testing agency.
 4. Dates and locations of samples and tests or inspections.
 5. Names of individuals making tests and inspections.
 6. Description of the Work and test and inspection method.
 7. Identification of product and Specification Section.
 8. Complete test or inspection data.
 9. Test and inspection results and an interpretation of test results.
 10. Record of temperature and weather conditions at time of sample taking and testing and inspecting.
 11. Comments or professional opinion on whether tested or inspected Work complies with the Contract Document requirements.
 12. Name and signature of laboratory inspector.
 13. Recommendations on retesting and reinspecting.
- B. Manufacturer's Technical Representative's Field Reports: Prepare written information documenting manufacturer's technical representative's tests and inspections specified in other Sections. Include the following:
1. Name, address, and telephone number of technical representative making report.
 2. Statement on condition of substrates and their acceptability for installation of product.
 3. Statement that products at Project site comply with requirements.
 4. Summary of installation procedures being followed, whether they comply with requirements and, if not, what corrective action was taken.
 5. Results of operational and other tests and a statement of whether observed performance complies with requirements.
 6. Statement whether conditions, products, and installation will affect warranty.
 7. Other required items indicated in individual Specification Sections.
- C. Factory-Authorized Service Representative's Reports: Prepare written information documenting manufacturer's factory-authorized service representative's tests and inspections specified in other Sections. Include the following:
1. Name, address, and telephone number of factory-authorized service representative making report.
 2. Statement that equipment complies with requirements.
 3. Results of operational and other tests and a statement of whether observed performance complies with requirements.
 4. Statement whether conditions, products, and installation will affect warranty.
 5. Other required items indicated in individual Specification Sections.
- D. Permits, Licenses, and Certificates: For Owner's records, submit copies of permits, licenses, certifications, inspection reports, releases, jurisdictional settlements, notices, receipts for fee payments, judgments, correspondence, records, and similar documents, established for compliance with standards and regulations bearing on performance of the Work.

1.7 QUALITY ASSURANCE

- A. General: Qualifications paragraphs in this article establish the minimum qualification levels required; individual Specification Sections specify additional requirements.
- B. Manufacturer Qualifications: A firm experienced in manufacturing products or systems similar to those indicated for this Project and with a record of successful in-service performance, as well as sufficient production capacity to produce required units.
- C. Fabricator Qualifications: A firm experienced in producing products similar to those indicated for this Project and with a record of successful in-service performance, as well as sufficient production capacity to produce required units.
- D. Installer Qualifications: A firm or individual experienced in installing, erecting, or assembling work similar in material, design, and extent to that indicated for this Project, whose work has resulted in construction with a record of successful in-service performance.
- E. Testing Agency Qualifications: An NRTL, an NVLAP, or an independent agency with the experience and capability to conduct testing and inspecting indicated, as documented according to ASTM E 329; and with additional qualifications specified in individual Sections; and, where required by authorities having jurisdiction, that is acceptable to authorities.
 - 1. NRTL: A nationally recognized testing laboratory according to 29 CFR 1910.7.
 - 2. NVLAP: A testing agency accredited according to NIST's National Voluntary Laboratory Accreditation Program.
- F. Manufacturer's Technical Representative Qualifications: An authorized representative of manufacturer who is trained and approved by manufacturer to observe and inspect installation of manufacturer's products that are similar in material, design, and extent to those indicated for this Project.
- G. Factory-Authorized Service Representative Qualifications: An authorized representative of manufacturer who is trained and approved by manufacturer to inspect installation of manufacturer's products that are similar in material, design, and extent to those indicated for this Project.
 - 1. Testing Agency Responsibilities: Submit a certified written report of each test, inspection, and similar quality-assurance service to Engineer with copy to Contractor. Interpret tests and inspections and state in each report whether tested and inspected work complies with or deviates from the Contract Documents.

1.8 QUALITY CONTROL

- A. Contractor Responsibilities: Tests and inspections not explicitly assigned to Owner are Contractor's responsibility. Perform additional quality-control activities required to verify that the Work complies with requirements, whether specified or not.
 - 1. Unless otherwise indicated, provide quality-control services specified and those required by authorities having jurisdiction. Perform quality-control services required of Contractor by authorities having jurisdiction, whether specified or not.

Coldwater Lake Family Park - Campground Site Improvements

2. Where services are indicated as Contractor's responsibility, engage a qualified testing agency to perform these quality-control services.
 3. Notify testing agencies at least 24 hours in advance of time when Work that requires testing or inspecting will be performed.
 4. Where quality-control services are indicated as Contractor's responsibility, submit a certified written report, in duplicate, of each quality-control service.
 5. Testing and inspecting requested by Contractor and not required by the Contract Documents are Contractor's responsibility.
 6. Submit additional copies of each written report directly to authorities having jurisdiction, when they so direct.
- B. **Manufacturer's Field Services:** Where indicated, engage a factory-authorized service representative to inspect field-assembled components and equipment installation, including service connections. Report results in writing as specified in Section 013300 "Submittal Procedures."
- C. **Manufacturer's Technical Services:** Where indicated, engage a manufacturer's technical representative to observe and inspect the Work. Manufacturer's technical representative's services include participation in preinstallation conferences, examination of substrates and conditions, verification of materials, observation of Installer activities, inspection of completed portions of the Work, and submittal of written reports.
- D. **Retesting/Reinspecting:** Regardless of whether original tests or inspections were Contractor's responsibility, provide quality-control services, including retesting and reinspecting, for construction that replaced Work that failed to comply with the Contract Documents.
- E. **Testing Agency Responsibilities:** Cooperate with Engineer and Contractor in performance of duties. Provide qualified personnel to perform required tests and inspections.
1. Notify Engineer and Contractor promptly of irregularities or deficiencies observed in the Work during performance of its services.
 2. Determine the location from which test samples will be taken and in which in-situ tests are conducted.
 3. Conduct and interpret tests and inspections and state in each report whether tested and inspected work complies with or deviates from requirements.
 4. Submit a certified written report, in duplicate, of each test, inspection, and similar quality-control service through Contractor.
 5. Do not release, revoke, alter, or increase the Contract Document requirements or approve or accept any portion of the Work.
 6. Do not perform any duties of Contractor.
- F. **Associated Services:** Cooperate with agencies performing required tests, inspections, and similar quality-control services, and provide reasonable auxiliary services as requested. Notify agency sufficiently in advance of operations to permit assignment of personnel. Provide the following:
1. Access to the Work.
 2. Incidental labor and facilities necessary to facilitate tests and inspections.
 3. Adequate quantities of representative samples of materials that require testing and inspecting. Assist agency in obtaining samples.

Coldwater Lake Family Park - Campground Site Improvements

4. Facilities for storage and field curing of test samples.
 5. Delivery of samples to testing agencies.
 6. Preliminary design mix proposed for use for material mixes that require control by testing agency.
 7. Security and protection for samples and for testing and inspecting equipment at Project site.
- G. Coordination: Coordinate sequence of activities to accommodate required quality-assurance and -control services with a minimum of delay and to avoid necessity of removing and replacing construction to accommodate testing and inspecting.
1. Schedule times for tests, inspections, obtaining samples, and similar activities.
- H. Schedule of Tests and Inspections: Prepare a schedule of tests, inspections, and similar quality-control services required by the Contract Documents. Coordinate and submit concurrently with Contractor's construction schedule. Update as the Work progresses.
1. Distribution: Distribute schedule to Owner, Engineer, testing agencies, and each party involved in performance of portions of the Work where tests and inspections are required.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION

3.1 REPAIR AND PROTECTION

- A. General: On completion of testing, inspecting, sample taking, and similar services, repair damaged construction and restore substrates and finishes.
1. Provide materials and comply with installation requirements specified in other Specification Sections or matching existing substrates and finishes. Restore patched areas and extend restoration into adjoining areas with durable seams that are as invisible as possible. Comply with the Contract Document requirements for cutting and patching in Section 017300 "Execution."
- B. Protect construction exposed by or for quality-control service activities.
- C. Repair and protection are Contractor's responsibility, regardless of the assignment of responsibility for quality-control services.

END OF SECTION 014000

Coldwater Lake Family Park - Campground Site Improvements

SECTION 015000 - TEMPORARY FACILITIES AND CONTROLS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section includes requirements for temporary utilities, support facilities, and security and protection facilities.
- B. Related Requirements:
 - 1. Section 011000 "Summary" for work restrictions and limitations on utility interruptions.

1.3 USE CHARGES

- A. General: Installation and removal of and use charges for temporary facilities, if required, shall be included in the Contract Sum unless otherwise indicated. Allow other entities to use temporary services and facilities without cost, including, but not limited to, Owner's construction forces, Engineer, occupants of Project, testing agencies, and authorities having jurisdiction.

1.4 QUALITY ASSURANCE

- A. Electric Service: Comply with NECA, NEMA, and UL standards and regulations for temporary electric service. Install service to comply with NFPA 70.
- B. Tests and Inspections: Arrange for authorities having jurisdiction to test and inspect each temporary utility before use. Obtain required certifications and permits.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION

3.1 SUPPORT FACILITIES INSTALLATION

- A. General: Comply with the following:
 - 1. Maintain support facilities until Engineer schedules Substantial Completion inspection. Remove before Substantial Completion. Personnel remaining after Substantial

Coldwater Lake Family Park - Campground Site Improvements

Completion will be permitted to use permanent facilities, under conditions acceptable to Owner.

- B. Traffic Controls: Comply with requirements of authorities having jurisdiction.
 - 1. Protect existing site improvements to remain including curbs, pavement, and utilities.
- C. Parking: Provide temporary or use designated areas of Owner's existing parking areas for construction personnel as coordinated with Owner.
- D. Waste Disposal Facilities: Comply with requirements specified in Section 017419 "Construction Waste Management and Disposal."

3.2 SECURITY AND PROTECTION FACILITIES INSTALLATION

- A. Protection of Existing Facilities: Protect existing vegetation, equipment, structures, utilities, and other improvements at Project site and on adjacent properties, except those indicated to be removed or altered. Repair damage to existing facilities.
- B. Environmental Protection: Provide protection, operate temporary facilities, and conduct construction as required to comply with environmental regulations and that minimize possible air, waterway, and subsoil contamination or pollution or other undesirable effects.
 - 1. Comply with work restrictions specified in Section 011000 "Summary."
- C. Temporary Erosion and Sedimentation Control: by Isabella County.
- D. Tree and Plant Protection: Comply with requirements specified in Section 015639 "Tree Protection, Pruning and Selective Removal".
- E. Barricades, Warning Signs, and Lights: Comply with requirements of authorities having jurisdiction for erecting structurally adequate barricades, including warning signs and lighting.

3.3 MOISTURE CONTROL

- A. Exposed Construction Phase:
 - 1. Protect stored and installed material from flowing or standing water.

3.4 OPERATION, TERMINATION, AND REMOVAL

- A. Supervision: Enforce strict discipline in use of temporary facilities. To minimize waste and abuse, limit availability of temporary facilities to essential and intended uses.

END OF SECTION 015000

SECTION 016000 - PRODUCT REQUIREMENTS

GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section includes administrative and procedural requirements for selection of products for use in Project; product delivery, storage, and handling; manufacturers' standard warranties on products; special warranties; and comparable products.
- B. Related Requirements:
- C.
 - 1. Section 012500 "Substitution Procedures" for requests for substitutions.

1.3 DEFINITIONS

- A. Products: Items obtained for incorporating into the Work, whether purchased for Project or taken from previously purchased stock. The term "product" includes the terms "material," "equipment," "system," and terms of similar intent.
 - 1. Named Products: Items identified by manufacturer's product name, including make or model number or other designation shown or listed in manufacturer's published product literature that is current as of date of the Contract Documents.
 - 2. New Products: Items that have not previously been incorporated into another project or facility. Products salvaged or recycled from other projects are not considered new products.
 - 3. Comparable Product: Product that is demonstrated and approved by Engineer through submittal process to have the indicated qualities related to type, function, dimension, in-service performance, physical properties, appearance, and other characteristics that equal or exceed those of specified product.
- B. Basis-of-Design Product Specification: A specification in which a single manufacturer's product is named and accompanied by the words "basis-of-design product," including make or model number or other designation. In addition to the basis-of-design product description, product attributes and characteristics may be listed to establish the significant qualities related to type, function, in-service performance and physical properties, weight, dimension, durability, visual characteristics, and other special features and requirements for purposes of evaluating comparable products of additional manufacturers named in the specification.
- C. Subject to Compliance with Requirements: Where the phrase "Subject to compliance with requirements" introduces a product selection procedure in an individual Specification Section, provide products qualified under the specified product procedure. In the event that a named

Coldwater Lake Family Park - Campground Site Improvements

product or product by a named manufacturer does not meet the other requirements of the specifications, select another named product or product from another named manufacturer that does meet the requirements of the specifications. Submit a comparable product request, if applicable.

1.4 ACTION SUBMITTALS

- A. Comparable Product Request Submittal: Submit request for consideration of each comparable product. Identify basis-of-design product or fabrication or installation method to be replaced. Include Specification Section number and title and Drawing numbers and titles.
 - 1. Include data to indicate compliance with the requirements specified in "Comparable Products" Article.
 - 2. Engineer's Action: If necessary, Engineer will request additional information or documentation for evaluation within seven days of receipt of a comparable product request. Engineer will notify Contractor of approval or rejection of proposed comparable product request within fifteen days of receipt of request, or seven days of receipt of additional information or documentation, whichever is later.
 - a. Form of Engineer's Approval of Submittal: As specified in Section 013300 "Submittal Procedures."
 - b. Use product specified if Engineer does not issue a decision on use of a comparable product request within time allocated.
- B. Basis-of-Design Product Specification Submittal: Comply with requirements in Section 013300 "Submittal Procedures." Show compliance with requirements.

1.5 QUALITY ASSURANCE

- A. Identification of Products: Except for required labels and operating data, do not attach or imprint manufacturer or product names or trademarks on exposed surfaces of products or equipment that will be exposed to view on the exterior.
 - 1. Equipment Nameplates: Provide a permanent nameplate on each item of service-connected or power-operated equipment. Locate on a visually accessible but inconspicuous surface. Include information essential for operation, including the following:
 - a. Name of product and manufacturer.
 - b. Model and serial number.
 - c. Capacity.

1.6 PRODUCT DELIVERY, STORAGE, AND HANDLING

- A. Deliver, store, and handle products using means and methods that will prevent damage, deterioration, and loss, including theft and vandalism. Comply with manufacturer's written instructions.

Coldwater Lake Family Park - Campground Site Improvements

B. Delivery and Handling:

1. Schedule delivery to minimize long-term storage at Project site and to prevent overcrowding of construction spaces.
2. Coordinate delivery with installation time to ensure minimum holding time for items that are flammable, hazardous, easily damaged, or sensitive to deterioration, theft, and other losses.
3. Deliver products to Project site in an undamaged condition in manufacturer's original sealed container or other packaging system, complete with labels and instructions for handling, storing, unpacking, protecting, and installing.
4. Inspect products on delivery to determine compliance with the Contract Documents and to determine that products are undamaged and properly protected.

C. Storage:

1. Store products to allow for inspection and measurement of quantity or counting of units.
2. Store materials in a manner that will not endanger Project structure.
3. Store products that are subject to damage by the elements, under cover in a weathertight enclosure above ground, with ventilation adequate to prevent condensation.
4. Comply with product manufacturer's written instructions for temperature, humidity, ventilation, and weather-protection requirements for storage.
5. Protect stored products from damage.
6. Provide a secure location and enclosure at Project site for storage of materials and equipment by Owner's construction forces. Coordinate location with Owner.

1.7 PRODUCT WARRANTIES

A. Warranties specified in other Sections shall be in addition to, and run concurrent with, other warranties required by the Contract Documents. Manufacturer's disclaimers and limitations on product warranties do not relieve Contractor of obligations under requirements of the Contract Documents.

1. **Manufacturer's Warranty:** Written warranty furnished by individual manufacturer for a particular product and specifically endorsed by manufacturer to Owner.
2. **Special Warranty:** Written warranty required by the Contract Documents to provide specific rights for Owner.

B. Submittal Time: Comply with requirements in Section 017700 "Closeout Procedures."

PART 2 - PRODUCTS

2.1 PRODUCT SELECTION PROCEDURES

A. General Product Requirements: Provide products that comply with the Contract Documents, are undamaged and, unless otherwise indicated, are new at time of installation.

1. Provide products complete with accessories, trim, finish, fasteners, and other items needed for a complete installation and indicated use and effect.

Coldwater Lake Family Park - Campground Site Improvements

2. Owner reserves the right to limit selection to products with warranties meeting requirements of the Contract Documents.
3. Where products are accompanied by the term "as selected," Engineer will make selection.
4. Descriptive, performance, and reference standard requirements in the Specifications establish salient characteristics of products.
5. Or Equal: For products specified by name and accompanied by the term "or equal," or "or approved equal," or "or approved," comply with requirements in "Comparable Products" Article to obtain approval for use of an unnamed product.
 - a. Submit additional documentation required by Engineer in order to establish equivalency of proposed products. Evaluation of "or equal" product status is by the Engineer, whose determination is final.

- B. Visual Selection Specification: Where Specifications include the phrase "as selected by Engineer from manufacturer's full range" or similar phrase, select a product that complies with requirements. Engineer will select color, gloss, pattern, density, or texture from manufacturer's product line that includes both standard and premium items.

2.2 COMPARABLE PRODUCTS

- A. Conditions for Consideration of Comparable Products: Engineer will consider Contractor's request for comparable product when the following conditions are satisfied. If the following conditions are not satisfied, Engineer may return requests without action, except to record noncompliance with these requirements:
 1. Evidence that proposed product does not require revisions to the Contract Documents, is consistent with the Contract Documents, will produce the indicated results, and is compatible with other portions of the Work. Detailed comparison of significant qualities of proposed product with those named in the Specifications. Significant product qualities include attributes such as type, function, in-service performance and physical properties, weight, dimension, durability, visual characteristics, and other specific features and requirements.
 2. Evidence that proposed product provides specified warranty.
 3. List of similar installations for completed projects with project names and addresses and names and addresses of Engineers and owners, if requested.
 4. Samples, if requested.
- B. Submittal Requirements: Approval by the Engineer of Contractor's request for use of comparable product is not intended to satisfy other submittal requirements. Comply with specified submittal requirements.

PART 3 - EXECUTION (Not Used)

END OF SECTION 016000

Coldwater Lake Family Park - Campground Site Improvements

SECTION 017300 - EXECUTION

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section includes general administrative and procedural requirements governing execution of the Work including, but not limited to, the following:
 - 1. Construction layout.
 - 2. Field engineering and surveying.
 - 3. Installation of the Work.
 - 4. Cutting and patching.
 - 5. Coordination of Owner-installed products.
 - 6. Progress cleaning.
 - 7. Protection of installed construction.
- B. Related Requirements:
 - 1. Section 011000 "Summary" for limits on use of Project site.
 - 2. Section 013300 "Submittal Procedures" for submitting surveys.
 - 3. Section 017700 "Closeout Procedures" for submitting final property survey with Project Record Documents, recording of Owner-accepted deviations from indicated lines and levels, and final cleaning.

1.3 DEFINITIONS

- A. Cutting: Removal of in-place construction necessary to permit installation or performance of other work.
- B. Patching: Fitting and repair work required to restore construction to original conditions after installation of other work.

1.4 INFORMATIONAL SUBMITTALS

- A. Qualification Data: For land surveyor and/or professional engineer.
- B. Certificates: Submit certificate signed by land surveyor and/or professional engineer certifying that location and elevation of improvements comply with requirements.

Coldwater Lake Family Park - Campground Site Improvements

1.5 QUALITY ASSURANCE

- A. Land Surveyor Qualifications: A professional land surveyor who is legally qualified to practice in jurisdiction where Project is located and who is experienced in providing land-surveying services of the kind indicated.
- B. Cutting and Patching: Comply with requirements for and limitations on cutting and patching of construction elements.
 - 1. Visual Elements: Do not cut and patch construction in a manner that results in visual evidence of cutting and patching.
- C. Manufacturer's Installation Instructions: Obtain and maintain on-site manufacturer's written recommendations and instructions for installation of products and equipment.

PART 2 - PRODUCTS

2.1 MATERIALS

- A. General: Comply with requirements specified in other Sections.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Existing Conditions: The existence and location of underground and other utilities and construction indicated as existing are not guaranteed. Before beginning site work, investigate and verify the existence and location of underground utilities, mechanical and electrical systems, and other construction affecting the Work.
- B. Examination and Acceptance of Conditions: Before proceeding with each component of the Work, examine substrates, areas, and conditions, with Installer or Applicator present where indicated, for compliance with requirements for installation tolerances and other conditions affecting performance. Record observations.
- C. Proceed with installation only after unsatisfactory conditions have been corrected. Proceeding with the Work indicates acceptance of surfaces and conditions.

Coldwater Lake Family Park - Campground Site Improvements

3.2 PREPARATION

- A. Existing Utility Information: Furnish information to Owner that is necessary to adjust, move, or relocate existing utility structures, utility poles, lines, services, or other utility appurtenances located in or affected by construction. Coordinate with authorities having jurisdiction.
- B. Field Measurements: Take field measurements as required to fit the Work properly. Recheck measurements before installing each product. Where portions of the Work are indicated to fit to other construction, verify dimensions of other construction by field measurements before fabrication. Coordinate fabrication schedule with construction progress to avoid delaying the Work.
- C. Space Requirements: Verify space requirements and dimensions of items shown diagrammatically on Drawings.
- D. Review of Contract Documents and Field Conditions: Immediately on discovery of the need for clarification of the Contract Documents caused by differing field conditions outside the control of Contractor, submit a request for information to Engineer according to requirements in Section 013100 "Project Management and Coordination."

3.3 CONSTRUCTION LAYOUT

- A. Verification: Before proceeding to lay out the Work, verify layout information shown on Drawings, in relation to the property survey and existing benchmarks. If discrepancies are discovered, notify Engineer promptly.
- B. General: Engage a land surveyor or professional engineer to lay out the Work using accepted surveying practices.
 - 1. Establish limits on use of Project site.
 - 2. Establish dimensions within tolerances indicated. Do not scale Drawings to obtain required dimensions.
 - 3. Inform installers of lines and levels to which they must comply.
 - 4. Check the location, level and plumb, of every major element as the Work progresses.
 - 5. Notify Engineer when deviations from required lines and levels exceed allowable tolerances.
- C. Site Improvements: Locate and lay out site improvements, including pavements, grading, and protective surfaces.

3.4 INSTALLATION

- A. General: Locate the Work and components of the Work accurately, in correct alignment and elevation, as indicated.
 - 1. Make vertical work plumb and make horizontal work level.

Coldwater Lake Family Park - Campground Site Improvements

- B. Comply with manufacturer's written instructions and recommendations for installing products in applications indicated.
- C. Install products at the time and under conditions that will ensure the best possible results. Maintain conditions required for product performance until Substantial Completion.
- D. Conduct construction operations so no part of the Work is subjected to damaging operations or loading in excess of that expected during normal conditions of occupancy.
- E. Sequence the Work and allow adequate clearances to accommodate movement of construction items on site and placement in permanent locations.
- F. Tools and Equipment: Do not use tools or equipment that produce harmful noise levels.
- G. Templates: Obtain and distribute to the parties involved templates for work specified to be factory prepared and field installed. Check Shop Drawings of other work to confirm that adequate provisions are made for locating and installing products to comply with indicated requirements.
- H. Attachment: Provide blocking and attachment plates and anchors and fasteners of adequate size and number to securely anchor each component in place, accurately located and aligned with other portions of the Work. Where size and type of attachments are not indicated, verify size and type required for load conditions.
- I. Joints: Make joints of uniform width. Where joint locations in exposed work are not indicated, arrange joints for the best visual effect. Fit exposed connections together to form hairline joints.
- J. Hazardous Materials: Use products, cleaners, and installation materials that are not considered hazardous.

3.5 CUTTING AND PATCHING

- A. Cutting and Patching, General: Employ skilled workers to perform cutting and patching. Proceed with cutting and patching at the earliest feasible time, and complete without delay.
 - 1. Cut in-place construction to provide for installation of other components or performance of other construction, and subsequently patch as required to restore surfaces to their original condition.
- B. Existing Warranties: Remove, replace, patch, and repair materials and surfaces cut or damaged during installation or cutting and patching operations, by methods and with materials so as not to void existing warranties.
- C. Temporary Support: Provide temporary support of work to be cut.
- D. Protection: Protect in-place construction during cutting and patching to prevent damage. Provide protection from adverse weather conditions for portions of Project that might be exposed during cutting and patching operations.

Coldwater Lake Family Park - Campground Site Improvements

- E. Adjacent Occupied Areas: Where interference with use of adjoining areas or interruption of free passage to adjoining areas is unavoidable, coordinate cutting and patching according to requirements in Section 011000 "Summary."
- F. Existing Utility Services and Mechanical/Electrical Systems: Where existing services/systems are required to be removed, relocated, or abandoned, bypass such services/systems before cutting to prevent interruption to occupied areas.
- G. Cutting: Cut in-place construction by sawing, drilling, breaking, chipping, grinding, and similar operations, including excavation, using methods least likely to damage elements retained or adjoining construction. If possible, review proposed procedures with original Installer; comply with original Installer's written recommendations.
 - 1. In general, use hand or small power tools designed for sawing and grinding, not hammering and chopping. Cut holes and slots neatly to minimum size required, and with minimum disturbance of adjacent surfaces. Temporarily cover openings when not in use.
 - 2. Finished Surfaces: Cut or drill from the exposed or finished side into concealed surfaces.
 - 3. Concrete and Masonry: Cut using a cutting machine, such as an abrasive saw or a diamond-core drill.
 - 4. Excavating and Backfilling: Comply with requirements in applicable Sections where required by cutting and patching operations.
 - 5. Mechanical and Electrical Services: Cut off pipe or conduit to be removed. Cap, valve, or plug and seal remaining portion of pipe or conduit to prevent entrance of moisture or other foreign matter after cutting.
 - 6. Proceed with patching after construction operations requiring cutting are complete.
- H. Patching: Patch construction by filling, repairing, refinishing, closing up, and similar operations following performance of other work. Patch with durable seams that are as invisible as practicable. Provide materials and comply with installation requirements specified in other Sections, where applicable.
 - 1. Inspection: Where feasible, test and inspect patched areas after completion to demonstrate physical integrity of installation.
 - 2. Exposed Finishes: Restore exposed finishes of patched areas and extend finish restoration into retained adjoining construction in a manner that will minimize evidence of patching and refinishing.
- I. Cleaning: Clean areas and spaces where cutting and patching are performed. Remove paint, mortar, oils, putty, and similar materials from adjacent finished surfaces.

3.6 OWNER-INSTALLED PRODUCTS

- A. Site Access: Provide access to Project site for Owner's construction personnel.
- B. Coordination: Coordinate construction and operations of the Work with work performed by Owner's construction personnel.
 - 1. Construction Schedule: Inform Owner of Contractor's preferred construction schedule for Owner's portion of the Work. Adjust construction schedule based on a mutually agreeable

timetable. Notify Owner if changes to schedule are required due to differences in actual construction progress.

2. Preinstallation Conferences: Include Owner's construction personnel at preinstallation conferences covering portions of the Work that are to receive Owner's work. Attend preinstallation conferences conducted by Owner's construction personnel if portions of the Work depend on Owner's construction.

3.7 PROGRESS CLEANING

- A. General: Clean Project site and work areas daily, including common areas. Enforce requirements strictly. Dispose of materials lawfully.
 1. Comply with requirements in NFPA 241 for removal of combustible waste materials and debris.
 2. Do not hold waste materials more than seven days during normal weather or three days if the temperature is expected to rise above 80 deg F (27 deg C).
 3. Containerize hazardous and unsanitary waste materials separately from other waste. Mark containers appropriately and dispose of legally, according to regulations.
 - a. Use containers intended for holding waste materials of type to be stored.
 4. Coordinate progress cleaning for joint-use areas where Contractor and other contractors are working concurrently.
- B. Site: Maintain Project site free of waste materials and debris.
- C. Work Areas: Clean areas where work is in progress to the level of cleanliness necessary for proper execution of the Work.
- D. Installed Work: Keep installed work clean. Clean installed surfaces according to written instructions of manufacturer or fabricator of product installed, using only cleaning materials specifically recommended. If specific cleaning materials are not recommended, use cleaning materials that are not hazardous to health or property and that will not damage exposed surfaces.
- E. Exposed Surfaces in Finished Areas: Clean exposed surfaces and protect as necessary to ensure freedom from damage and deterioration at time of Substantial Completion.
- F. Waste Disposal: Do not bury or burn waste materials on-site. Do not wash waste materials down sewers or into waterways. Comply with waste disposal requirements in Section 015000 "Temporary Facilities and Controls" and Section 017419 "Construction Waste Management and Disposal."
- G. During handling and installation, clean and protect construction in progress and adjoining materials already in place. Apply protective covering where required to ensure protection from damage or deterioration at Substantial Completion.
- H. Clean and provide maintenance on completed construction as frequently as necessary through the remainder of the construction period. Adjust and lubricate operable components to ensure operability without damaging effects.

Coldwater Lake Family Park - Campground Site Improvements

- I. Limiting Exposures: Supervise construction operations to assure that no part of the construction, completed or in progress, is subject to harmful, dangerous, damaging, or otherwise deleterious exposure during the construction period.

3.8 PROTECTION OF INSTALLED CONSTRUCTION

- A. Provide final protection and maintain conditions that ensure installed Work is without damage or deterioration at time of Substantial Completion.
- B. Comply with manufacturer's written instructions for temperature and relative humidity.

END OF SECTION 017300

SECTION 017419 - CONSTRUCTION WASTE MANAGEMENT AND DISPOSAL

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section includes administrative and procedural requirements for the following:
 - 1. Disposing of nonhazardous demolition and construction waste.

1.3 DEFINITIONS

- A. Construction Waste: Building and site improvement materials and other solid waste resulting from construction, remodeling, renovation, or repair operations. Construction waste includes packaging.
- B. Disposal: Removal off-site of demolition and construction waste and subsequent sale, recycling, reuse, or deposit in landfill or incinerator acceptable to authorities having jurisdiction.

1.4 PERFORMANCE REQUIREMENTS

- A. Contractor may use existing on site dumpsters for non-hazardous waste.
- B. General: Practice efficient waste management in the use of materials in the course of the Work. Use all reasonable means to divert construction and demolition waste from landfills and incinerators. Facilitate recycling and salvage of materials, including, but not limited to, the following:
 - 1. Construction Waste:
 - a. Lumber.
 - b. Metals.
 - c. Packaging: Regardless of salvage/recycle goal indicated in "General" Paragraph above, salvage or recycle 100 percent of the following uncontaminated packaging materials:
 - 1) Paper.
 - 2) Cardboard.
 - 3) Boxes.
 - 4) Plastic sheet and film.
 - 5) Polystyrene packaging.
 - 6) Wood crates.
 - 7) Plastic pails.

Coldwater Lake Family Park - Campground Site Improvements

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION

3.1 DISPOSAL OF WASTE

- A. General: Except for items or materials to be salvaged, recycled, or otherwise reused, remove waste materials from Project site and legally dispose of them in a landfill or incinerator acceptable to authorities having jurisdiction.
 - 1. Except as otherwise specified, do not allow waste materials that are to be disposed of accumulate on-site.
 - 2. Remove and transport debris in a manner that will prevent spillage on adjacent surfaces and areas.
- B. Burning: Do not burn waste materials.
- C. Disposal: Remove waste materials from Owner's property and legally dispose of them.

END OF SECTION 017419

SECTION 017700 - CLOSEOUT PROCEDURES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section includes administrative and procedural requirements for contract closeout, including, but not limited to, the following:
 - 1. Substantial Completion procedures.
 - 2. Final completion procedures.
 - 3. Warranties.
 - 4. Final cleaning.
 - 5. Repair of the Work.
- B. Related Requirements:
 - 1. Section 017300 "Execution" for progress cleaning of Project site.

1.3 CLOSEOUT SUBMITTALS

- A. Certificates of Release: From authorities having jurisdiction.

1.4 SUBSTANTIAL COMPLETION PROCEDURES

- A. Contractor's List of Incomplete Items: Prepare and submit a list of items to be completed and corrected (Contractor's punch list), indicating the value of each item on the list and reasons why the Work is incomplete.
- B. Submittals Prior to Substantial Completion: Complete the following a minimum of 10 days prior to requesting inspection for determining date of Substantial Completion. List items below that are incomplete at time of request.
 - 1. Certificates of Release: Obtain and submit releases from authorities having jurisdiction permitting Owner unrestricted use of the Work and access to services and utilities. Include occupancy permits, operating certificates, and similar releases.
 - 2. Submit closeout submittals specified in other Division 01 Sections, including project record documents, operation and maintenance manuals, final completion construction photographic documentation, damage or settlement surveys, property surveys, and similar final record information.

Coldwater Lake Family Park - Campground Site Improvements

3. Submit closeout submittals specified in individual Sections, including specific warranties, workmanship bonds, maintenance service agreements, final certifications, and similar documents.
 4. Submit maintenance material submittals specified in individual Sections, including tools, spare parts, extra materials, and similar items, and deliver to location designated by Engineer. Label with manufacturer's name and model number where applicable.
 5. Submit changeover information related to Owner's occupancy, use, operation, and maintenance.
- C. Procedures Prior to Substantial Completion: Complete the following a minimum of ten days prior to requesting inspection for determining date of Substantial Completion. List items below that are incomplete at time of request.
1. Advise Owner of pending insurance changeover requirements.
 2. Complete startup and testing of systems and equipment.
 3. Perform preventive maintenance on equipment used prior to Substantial Completion.
 4. Instruct Owner's personnel in operation, adjustment, and maintenance of products, equipment, and systems.
 5. Terminate and remove temporary facilities from Project site, along with construction tools, and similar elements.
 6. Complete final cleaning requirements, including touchup painting.
 7. Touch up and otherwise repair and restore marred exposed finishes to eliminate visual defects.
- D. Inspection: Submit a written request for inspection to determine Substantial Completion a minimum of ten days prior to date the work will be completed and ready for final inspection and tests. On receipt of request, Engineer will either proceed with inspection or notify Contractor of unfulfilled requirements. Engineer will prepare the Certificate of Substantial Completion after inspection or will notify Contractor of items, either on Contractor's list or additional items identified by Engineer, that must be completed or corrected before certificate will be issued.
1. Reinspection: Request reinspection when the Work identified in previous inspections as incomplete is completed or corrected.
 2. Results of completed inspection will form the basis of requirements for final completion.

1.5 FINAL COMPLETION PROCEDURES

- A. Submittals Prior to Final Completion: Before requesting final inspection for determining final completion, complete the following:
1. Submit a final Application for Payment according to Section 012900 "Payment Procedures."
 2. Certified List of Incomplete Items: Submit certified copy of Engineer's Substantial Completion inspection list of items to be completed or corrected (punch list), endorsed and dated by Engineer. Certified copy of the list shall state that each item has been completed or otherwise resolved for acceptance.
 3. Certificate of Insurance: Submit evidence of final, continuing insurance coverage complying with insurance requirements.

Coldwater Lake Family Park - Campground Site Improvements

- B. Inspection: Submit a written request for final inspection to determine acceptance a minimum of 10 days prior to date the work will be completed and ready for final inspection and tests. On receipt of request, Engineer will either proceed with inspection or notify Contractor of unfulfilled requirements. Engineer will prepare a final Certificate for Payment after inspection or will notify Contractor of construction that must be completed or corrected before certificate will be issued.
 - 1. Reinspection: Request reinspection when the Work identified in previous inspections as incomplete is completed or corrected.

1.6 LIST OF INCOMPLETE ITEMS (PUNCH LIST)

- A. Organization of List: Include name and identification of each space and area affected by construction operations for incomplete items and items needing correction including, if necessary, areas disturbed by Contractor that are outside the limits of construction.
 - 1. Organize list of spaces in sequential order, starting with exterior areas.
 - 2. Organize items applying to each space by major element.
 - 3. Include the following information at the top of each page:
 - a. Project name.
 - b. Date.
 - c. Name of Engineer.
 - d. Name of Contractor.
 - e. Page number.
 - 4. Submit list of incomplete items in the following format:
 - a. PDF electronic file. Engineer will return annotated file; or
 - b. Three paper copies. Engineer will return two copies.

1.7 SUBMITTAL OF PROJECT WARRANTIES

- A. Time of Submittal: Submit written warranties on request of Engineer for designated portions of the Work where commencement of warranties other than date of Substantial Completion is indicated, or when delay in submittal of warranties might limit Owner's rights under warranty.
- B. Organize warranty documents into an orderly sequence based on the table of contents of Project Manual.
 - 1. Bind warranties and bonds in heavy-duty, three-ring, vinyl-covered, loose-leaf binders, thickness as necessary to accommodate contents, and sized to receive 8-1/2-by-11-inch paper.
 - 2. Provide heavy paper dividers with plastic-covered tabs for each separate warranty. Mark tab to identify the product or installation. Provide a typed description of the product or installation, including the name of the product and the name, address, and telephone number of Installer.
 - 3. Identify each binder on the front and spine with the typed or printed title "WARRANTIES," Project name, and name of Contractor.

Coldwater Lake Family Park - Campground Site Improvements

4. Warranty Electronic File: Scan warranties and bonds and assemble complete warranty and bond submittal package into a single indexed electronic PDF file with links enabling navigation to each item. Provide bookmarked table of contents at beginning of document.

PART 2 - PRODUCTS

2.1 MATERIALS

- A. Cleaning Agents: Use cleaning materials and agents recommended by manufacturer or fabricator of the surface to be cleaned. Do not use cleaning agents that are potentially hazardous to health or property or that might damage finished surfaces.

PART 3 - EXECUTION

3.1 FINAL CLEANING

- A. General: Perform final cleaning. Conduct cleaning and waste-removal operations to comply with local laws and ordinances and Federal and local environmental and antipollution regulations.
- B. Cleaning: Employ experienced workers or professional cleaners for final cleaning. Clean each surface or unit to condition expected in an average commercial building cleaning and maintenance program. Comply with manufacturer's written instructions.
 1. Complete the following cleaning operations before requesting inspection for certification of Substantial Completion for entire Project or for a designated portion of Project:
 - a. Clean Project site, yard, and grounds, in areas disturbed by construction activities, including landscape development areas, of rubbish, waste material, litter, and other foreign substances.
 - b. Sweep paved areas broom clean. Remove petrochemical spills, stains, and other foreign deposits.
 - c. Rake grounds that are neither planted nor paved to a smooth, even-textured surface.
 - d. Remove tools, construction equipment, machinery, and surplus material from Project site.
 - e. Clean exposed exterior hard-surfaced finishes to a dirt-free condition, free of stains, films, and similar foreign substances. Avoid disturbing natural weathering of exterior surfaces. Restore reflective surfaces to their original condition.
 - f. Remove labels that are not permanent.
 - g. Leave Project clean and ready for occupancy.
- C. Construction Waste Disposal: Comply with waste disposal requirements in Section 015000 "Temporary Facilities and Controls" and Section 017419 "Construction Waste Management and Disposal."

Coldwater Lake Family Park - Campground Site Improvements

3.2 REPAIR OF THE WORK

- A. Complete repair and restoration operations before requesting inspection for determination of Substantial Completion.
- B. Repair or remove and replace defective construction. Repairing includes replacing defective parts, refinishing damaged surfaces, touching up with matching materials, and properly adjusting operating equipment. Where damaged or worn items cannot be repaired or restored, provide replacements. Remove and replace operating components that cannot be repaired. Restore damaged construction and permanent facilities used during construction to specified condition.
 - 1. Touch up and otherwise repair and restore marred or exposed finishes and surfaces. Replace finishes and surfaces that that already show evidence of repair or restoration.
 - a. Do not paint over "UL" and other required labels and identification, including mechanical and electrical nameplates. Remove paint applied to required labels and identification.

END OF SECTION 017700

SECTION 015639 TEMPORARY TREE AND PLANT PROTECTION

PART 1 - GENERAL

1.1 SUMMARY

- A. General: Section includes Temporary Tree and Plant Protection of existing trees and plants that are affected by the execution of the Work in accordance with Contract Documents.
- B. Summary of Work: Provide all labor, equipment and materials required for the procurement, delivery and operations for temporary tree and plant protection as indicated on Drawings and as specified herein.
 - 1. Section Includes:
 - a. Examination and preparation.
 - b. Protection of trees and plants.
 - c. Excavation.
 - d. Root pruning.
 - e. Crown pruning.
 - f. Re-grading.
 - g. Repair and replacement.
- C. Related Sections:
 - 1. Division 01 for Special Project Procedures.

1.2 DEFINITIONS

- A. Protection Zone: Area surrounding individual trees, groups of trees, shrubs, or other vegetation to be protected during construction, and defined by a circle concentric with each tree with a radius 1.5 times the diameter of the drip line unless otherwise indicated on Drawings.

1.3 SUBMITTALS

- A. Product Data: For each type of product indicated.
- B. Samples: For each type of organic mulch in sealed plastic bags labeled with composition of materials by percentage of weight, protection zone fencing and protection zone signage.
- C. Tree Pruning Schedule: Written schedule detailing scope and extent of pruning of trees to remain that interfere with or are affected by construction.
- D. Certification: From Michigan Certified Arborist, certifying that trees indicated to remain have been protected during construction according to recognized standards and that trees were promptly and properly treated and repaired when damaged.
- E. Maintenance Recommendations: From Michigan Certified Arborist, for care and protection of trees affected by construction during and after completing the Work.

Coldwater Lake Family Park – Campground Site Improvements

- F. Existing Conditions: Documentation of existing trees and plantings indicated to remain, which establishes pre-construction conditions that might be misconstrued as damage caused by construction activities.

1.4 QUALITY ASSURANCE

- A. Pre-Installation Conference: Conduct conference at Project Site.

1.5 PROJECT CONDITIONS

- A. The following practices are prohibited within protection zones:
 - 1. Storage of construction materials, debris, or excavated material.
 - 2. Parking vehicles or equipment.
 - 3. Foot traffic.
 - 4. Erection of sheds or structures.
 - 5. Impoundment of water.
 - 6. Excavation or digging unless otherwise indicated on Drawings.
 - 7. Attachment of signs to trees or plants unless otherwise indicated on Drawings.
 - 8. Wrapping materials around trees or plants unless otherwise indicated on Drawings.
- B. Do not direct vehicle or equipment exhaust toward protection zones.
- C. Prohibit heat sources, flames, ignition sources, and smoking within or near protection zones and organic mulch.

PART 2 - PRODUCTS

2.1 MATERIALS

- A. Topsoil: Natural or cultivated top layer of the soil profile or manufactured topsoil; containing organic matter and sand, silt, and clay particles; friable, pervious, and black or a darker shade of brown, gray, or red than underlying subsoil; free of subsoil, clay lumps, gravel, and other objects more than 1 inch (25 mm) in diameter; and free of weeds, roots, and toxic and other non-soil materials.
- B. Topsoil: Stockpiled topsoil from location indicated on Drawings.
- C. Organic Mulch: Ground or shredded bark free from deleterious materials.
- D. Protection Zone Signage: Shop-fabricated, rigid plastic or metal sheet with attachment holes

Coldwater Lake Family Park – Campground Site Improvements

pre-punched and reinforced; legibly printed with non-fading lettering, no less than 8.5 x 11 inches.

PART 3 - EXECUTION

3.1 EXAMINATION AND PREPARATION

- A. Protect tree root systems from damage caused by runoff or spillage of noxious materials while mixing, placing, or storing construction materials. Protect root systems from ponding, eroding, or excessive wetting caused by dewatering operations.
- B. Protection Zones: Mulch areas inside protection zones and other areas indicated with 3-inch average thickness of organic mulch. Do not place mulch within 6 inches (150 mm) of tree trunks.

3.2 PROTECTION ZONES

- A. Protection Zone Signage: Install protection zone signage in visibly prominent locations in a manner approved by Engineer.
- B. Repair or replace trees, shrubs, and other vegetation indicated to remain or be relocated that are damaged by construction operations, in a manner approved by Engineer.
- C. Maintain protection zone fencing and signage in good condition as acceptable to Engineer and remove when construction operations are complete and equipment has been removed from the site.

3.3 EXCAVATION

- A. General: Excavate at edge of protection zones and for trenches indicated within protection zones according to requirements in Specification Section 312000 – Earth Moving.
- B. Trenching near Trees: Where utility trenches are required within protection zones, hand excavate under or around tree roots or tunnel under the roots by drilling, auger boring, or pipe jacking. Do not cut main lateral tree roots or taproots; cut only smaller roots that interfere with installation of utilities.
- C. Do not allow exposed roots to dry out before placing permanent backfill.

3.4 ROOT PRUNING

- A. Prune roots that are affected by temporary and permanent construction only after review with project Engineer.
 - 1. Perform root pruning under direction of Michigan Certified Arborist.
 - 2. Cut roots manually by digging a trench and cutting exposed roots with sharp pruning

Coldwater Lake Family Park – Campground Site Improvements

instruments; do not break, tear, chop, or slant the cuts. Do not use a backhoe or other equipment that rips, tears, or pulls roots.

3. Temporarily support and protect roots from damage until they are permanently covered with soil.
 4. Cover exposed roots with burlap and water regularly.
 5. Backfill as soon as possible according to requirements in Specification Section 312000 – Earthwork.
- B. Root Pruning at Edge of Protection Zone: Prune roots by cleanly cutting all roots to the depth of the required excavation.
- C. Root Pruning within Protection Zone: Clear and excavate by hand to the depth of the required excavation to minimize damage to root systems. Use narrow-tine spading forks, comb soil to expose roots, and cleanly cut roots as close to excavation as possible.

3.5 CROWN PRUNING

- A. Prune branches that are affected by temporary and permanent construction only after review with project Engineer
1. Perform crown pruning under direction of Michigan Certified Arborist.
 2. Prune trees to remain to compensate for root loss caused by damaging or cutting root system. Provide subsequent maintenance during Contract period as recommended by Michigan Certified Arborist.
 3. Pruning Standards: Prune trees according to ANSI A300 (Part 1).
 4. Cut branches with sharp pruning instruments; do not break or chop.
 5. Do not apply pruning paint to wounds.
- B. Chip removed branches and spread over areas identified by Engineer, or stockpile in areas approved by Engineer.

3.6 RE-GRADING

- A. Lowering Grade: Where new finish grade is indicated below existing grade around trees, slope grade beyond the protection zone. Maintain existing grades within the protection zone.
- B. Raising Grade: Where new finish grade is indicated above existing grade around trees, slope grade beyond the protection zone. Maintain existing grades within the protection zone.
- C. Minor Fill within Protection Zone: Where existing grade is 2 inches (50 mm) or less below elevation of finish grade, fill with topsoil. Place topsoil in a single uncompacted layer and hand grade to required finish elevations.

Coldwater Lake Family Park – Campground Site Improvements

3.7 FIELD QUALITY CONTROL

- A. Inspections: Engage a Michigan Certified Arborist to direct plant protection measures in the vicinity of trees, shrubs, and other vegetation indicated to remain and to prepare inspection reports.

3.8 REPAIR AND REPLACEMENT

- A. General: Repair or replace trees, shrubs, and other vegetation indicated to remain or be relocated that are damaged by construction operations, in a manner approved by Engineer.
 - 1. Have Michigan Certified Arborist perform the root cutting, branch pruning, and damage repair of trees and shrubs.
 - 2. Treat damaged trunks, limbs, and roots according to Michigan Certified Arborist's written instructions.
 - 3. Perform repairs within 24 hours.
 - 4. Replace vegetation that cannot be repaired and restored to full-growth status, as determined by Engineer.

3.9 DISPOSAL OF SURPLUS AND WASTE MATERIALS

- A. Disposal: Remove excess excavated material, displaced trees, trash and debris, and legally dispose of them off Owner's property.

END OF SECTION 015639

SECTION 221113 - FACILITY WATER DISTRIBUTION PIPING

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. This Section includes water-distribution piping and related components outside the building for water service.

1.3 DEFINITIONS

- A. EPDM: Ethylene propylene diene terpolymer rubber.
- B. LLDPE: Linear, low-density polyethylene plastic.
- C. PA: Polyamide (nylon) plastic.
- D. PE: Polyethylene plastic.
- E. PP: Polypropylene plastic.
- F. PVC: Polyvinyl chloride plastic.
- G. RTRF: Reinforced thermosetting resin (fiberglass) fittings.
- H. RTRP: Reinforced thermosetting resin (fiberglass) pipe.

1.4 ACTION SUBMITTALS

- A. Product Data: For each type of product indicated.

1.5 INFORMATIONAL SUBMITTALS

- A. Coordination Drawings: For piping and specialties including relation to other services in same area, drawn to scale. Show piping and specialty sizes and valves, meter and specialty locations, and elevations.
- B. Field quality-control test reports.

Coldwater Lake Family Park – Campground Site Improvements

1.6 CLOSEOUT SUBMITTALS

- A. Operation and Maintenance Data: For water valves and specialties to include in emergency, operation, and maintenance manuals.

1.7 QUALITY ASSURANCE

- A. Regulatory Requirements:
 - 1. Comply with standards of authorities having jurisdiction for potable-water-service piping, including materials, installation, testing, and disinfection.
- B. Piping materials shall bear label, stamp, or other markings of specified testing agency.
- C. Comply with ASTM F645 for selection, design, and installation of thermoplastic water piping.

1.8 DELIVERY, STORAGE, AND HANDLING

- A. Preparation for Transport: Prepare valves, including according to the following:
 - 1. Ensure that valves are dry and internally protected against rust and corrosion.
 - 2. Protect valves against damage to threaded ends and flange faces.
 - 3. Set valves in best position for handling. Set valves closed to prevent rattling.
- B. During Storage: Use precautions for valves according to the following:
 - 1. Do not remove end protectors unless necessary for inspection; then reinstall for storage.
 - 2. Protect from weather. Store indoors and maintain temperature higher than ambient dew-point temperature. Support off the ground or pavement in watertight enclosures when outdoor storage is necessary.
- C. Handling: Use sling to handle valves if size requires handling by crane or lift. Rig valves to avoid damage to exposed parts. Do not use handwheels or stems as lifting or rigging points.
- D. Deliver piping with factory-applied end caps. Maintain end caps through shipping, storage, and handling to prevent pipe-end damage and to prevent entrance of dirt, debris, and moisture.
- E. Protect stored piping from moisture and dirt. Elevate above grade. Do not exceed structural capacity of floor when storing inside.
- F. Protect flanges, fittings, and specialties from moisture and dirt.
- G. Store plastic piping protected from direct sunlight. Support to prevent sagging and bending.

PART 2 - PRODUCTS

2.1 PIPING MATERIALS

- A. Comply with requirements in "Piping Schedule" Article for applications of pipe, tube, fitting materials, and joining methods for specific services, service locations, and pipe sizes.
- B. Potable-water piping and components shall comply with NSF 14, NSF 61, and NSF 372. Include marking "NSF-pw" on piping.

2.2 GALVANIZED-STEEL PIPE AND FITTINGS

- A. Galvanized-Steel Pipe:
 - 1. ASTM A53/A53M, Type E, Grade B, Standard Weight.
 - 2. Include ends matching joining method.
- B. Galvanized-Steel Pipe Nipples: ASTM A733, made of ASTM A53/A53M or ASTM A106/A106M, Standard Weight, seamless steel pipe with threaded ends.
- C. Galvanized, Gray-Iron Threaded Fittings: ASME B16.4, Class 125, standard pattern.
- D. Malleable-Iron Unions:
 - 1. ASME B16.39, Class 150.
 - 2. Hexagonal-stock body.
 - 3. Ball-and-socket, metal-to-metal, bronze seating surface.
 - 4. Threaded ends.
- E. Flanges: ASME B16.1, Class 125, cast iron.
- F. Appurtenances for Grooved-End, Galvanized-Steel Pipe:
 - 1. Fittings for Grooved-End, Galvanized-Steel Pipe: Galvanized, ASTM A47/A47M, malleable-iron casting; ASTM A106/A106M, steel pipe; or ASTM A536, ductile-iron casting; with dimensions matching steel pipe.
 - 2. Fittings for Grooved-End, Galvanized-Steel Pipe:
 - a. AWWA C606 for steel-pipe dimensions.
 - b. Ferrous housing sections.
 - c. EPDM-rubber gaskets suitable for hot and cold water.
 - d. Bolts and nuts.
 - e. Minimum Pressure Rating:
 - 1) NPS 8 and Smaller: 600 psig.

2.3 PVC PIPING

- A. PVC, AWWA Pipe: AWWA C900, Class 150, with bell end with gasket, and with spigot end.

Coldwater Lake Family Park – Campground Site Improvements

1. Comply with UL 1285 for fire-service mains if indicated.
2. PVC Fabricated Fittings: AWWA C900, Class 150, with bell-and-spigot or double-bell ends. Include elastomeric gasket in each bell.
3. PVC Molded Fittings: AWWA C907, Class 150, with bell-and-spigot or double-bell ends. Include elastomeric gasket in each bell.

2.4 JOINING MATERIALS

- A. Refer to Section 330500 "Common Work Results for Utilities" for commonly used joining materials.
- B. Solder Filler Metals: ASTM B32, lead-free alloys.
- C. Flux: ASTM B813, water flushable.
- D. Brazing Filler Metals: AWS A5.8M/A5.8, BCuP Series, copper-phosphorus alloys for general-duty brazing unless otherwise indicated.
- E. Bonding Adhesive for Fiberglass Piping: As recommended by fiberglass piping manufacturer.
- F. Plastic Pipe-Flange Gasket, Bolts, and Nuts: Type and material recommended by piping system manufacturer, unless otherwise indicated.

2.5 TRANSITION FITTINGS

- A. General Requirements:
 1. Same size as pipes to be joined.
 2. Pressure rating at least equal to pipes to be joined.
 3. End connections compatible with pipes to be joined.
- B. Fitting-Type Transition Couplings: Manufactured piping coupling or specified piping system fitting.
- C. Plastic-to-Metal Transition Fittings:
 1. Description:
 - a. PVC one-piece fitting with manufacturer's Schedule 80 equivalent dimensions.
 - b. One end with threaded brass insert and one solvent-cement-socket end.

2.6 PIPING SPECIALTIES

- A. Transition Fittings: Manufactured fitting or coupling same size as, with pressure rating at least equal to and ends compatible with, piping to be joined.

PART 3 - EXECUTION

3.1 EARTHWORK

- A. Refer to Section 312000 "Earth Moving" for excavating, trenching, and backfilling.

3.2 PIPING SCHEDULE

- A. General: Use pipe, fittings, and joining methods for piping systems according to the following applications.
- B. Transition couplings and special fittings with pressure ratings at least equal to piping pressure rating may be used, unless otherwise indicated.
- C. Do not use flanges or unions for underground piping.
- D. Flanges, unions, grooved-end-pipe couplings, and special fittings may be used, instead of joints indicated, on aboveground piping and piping in vaults.
- E. Underground water-service piping NPS 3/4 to NPS 3 shall be any of the following:
 - 1. Soft copper tube, ASTM B88, Type K; wrought-copper, solder-joint fittings; and brazed joints.
 - 2. PVC, Schedule 40 pipe; PVC; socket fittings; and solvent-cemented joints.
- F. Aboveground Water-Service Piping NPS 3/4 to NPS 3 shall be any of the following:
 - 1. Galvanized-steel pipe and nipples; galvanized, gray-iron threaded fittings; and threaded joints.

3.3 PIPING SYSTEMS - COMMON REQUIREMENTS

- A. See Section 330500 "Common Work Results for Utilities" for piping-system common requirements.

3.4 PIPING INSTALLATION

- A. Water-Main Connection: Arrange with utility company for tap of size and in location indicated in water main.
- B. Water-Main Connection: Tap water main according to requirements of water utility company and of size and in location indicated.
- C. Make connections NPS 2 and smaller with drilling machine according to the following:
 - 1. Install service-saddle assemblies and corporation valves in size, quantity, and arrangement required by utility company standards.

Coldwater Lake Family Park – Campground Site Improvements

2. Install service-saddle assemblies on water-service pipe to be tapped. Position outlets for corporation valves.
 3. Use drilling machine compatible with service-saddle assemblies and corporation valves. Drill hole in main. Remove drilling machine and connect water-service piping.
 4. Install corporation valves into service-saddle assemblies.
 5. Install manifold for multiple taps in water main.
 6. Install curb valve in water-service piping with head pointing up and with service box.
- D. Install PVC, AWWA pipe according to ASTM F645 and AWWA M23.
- E. Bury piping with depth of cover over top at least 30 inches, and according to the following:
1. Under Driveways: With at least 36 inches cover over top.
- F. Install piping by tunneling or jacking, or combination of both, under streets and other obstructions that cannot be disturbed.
- G. Extend water-service piping and connect to water-supply source and building-water-piping systems at outside face of building wall in locations and pipe sizes indicated.
1. Terminate water-service piping at building wall until building-water-piping systems are installed. Terminate piping with caps, plugs, or flanges as required for piping material. Make connections to building-water-piping systems when those systems are installed.
- H. Install underground piping with restrained joints at horizontal and vertical changes in direction. Use restrained-joint piping, thrust blocks, anchors, tie-rods and clamps, and other supports.

3.5 JOINT CONSTRUCTION

- A. See Section 330500 "Common Work Results for Utilities" for basic piping joint construction.
- B. Make pipe joints according to the following:
1. Copper-Tubing, Pressure-Sealed Joints: Join copper tube and pressure-seal fittings with tools and procedures recommended by pressure-seal-fitting manufacturer. Leave insertion marks on pipe after assembly.
 2. Ductile-Iron Piping, Gasketed Joints for Water-Service Piping: AWWA C600 and AWWA M41.
 3. Ductile-Iron Piping, Gasketed Joints for Fire-Service-Main Piping: UL 194.
 4. Ductile-Iron Piping, Grooved Joints: Cut-groove pipe. Assemble joints with grooved-end, ductile-iron-piping couplings, gaskets, lubricant, and bolts according to coupling manufacturer's written instructions.
 5. PE Piping Insert-Fitting Joints: Use plastic insert fittings and fasteners according to fitting manufacturer's written instructions.
 6. PVC Piping Gasketed Joints: Use joining materials according to AWWA C900. Construct joints with elastomeric seals and lubricant according to ASTM D2774 or ASTM D3139 and pipe manufacturer's written instructions.
 7. Install dielectric fittings in piping at connections of dissimilar metal piping and tubing.
 - a. Dielectric Fittings for NPS 2 and Smaller: Use dielectric nipples.

Coldwater Lake Family Park – Campground Site Improvements

3.6 ANCHORAGE INSTALLATION

- A. Anchorage, General: Install water-distribution piping with restrained joints. Anchorages and restrained-joint types that may be used include the following:
 - 1. Concrete thrust blocks.
 - 2. Locking mechanical joints.
 - 3. Set-screw mechanical retainer glands.
 - 4. Bolted flanged joints.
 - 5. Heat-fused joints.
 - 6. Pipe clamps and tie rods.
- B. Install anchorages for tees, plugs and caps, bends, crosses, valves, and hydrant branches. Include anchorages for the following piping systems:
 - 1. Gasketed-Joint, PVC Water-Service Piping: According to AWWA M23.
- C. Apply full coat of asphalt or other acceptable corrosion-resistant material to surfaces of installed ferrous anchorage devices.

3.7 VALVE INSTALLATION

- A. AWWA Gate Valves: Comply with AWWA C600 and AWWA M44. Install each underground valve with stem pointing up and with valve box.
- B. AWWA Valves Other Than Gate Valves: Comply with AWWA C600 and AWWA M44.
- C. UL/FMG, Gate Valves: Comply with NFPA 24. Install each underground valve and valves in vaults with stem pointing up and with vertical cast-iron indicator post.
- D. UL/FMG, Valves Other Than Gate Valves: Comply with NFPA 24.
- E. MSS Valves: Install as component of connected piping system.

3.8 VACUUM BREAKER ASSEMBLY INSTALLATION

- A. Install pressure vacuum breaker assemblies of type, size, and capacity indicated. Include valves and test cocks. Install according to requirements of plumbing and health department and authorities having jurisdiction.
- B. Do not install pressure vacuum breaker assemblies in vault or other space subject to flooding.

3.9 CONNECTIONS

- A. See Section 330500 "Common Work Results for Utilities" for piping connections to valves and equipment.
- B. Connect water-distribution piping to existing water main. Use service clamp and corporation valve.

Coldwater Lake Family Park – Campground Site Improvements

3.10 FIELD QUALITY CONTROL

- A. Piping Tests: Conduct piping tests before joints are covered and after concrete thrust blocks have hardened sufficiently. Fill pipeline 24 hours before testing and apply test pressure to stabilize system. Use only potable water.
- B. Hydrostatic Tests: Test at not less than one-and-one-half times working pressure for two hours.
 - 1. Increase pressure in 50-psig increments and inspect each joint between increments. Hold at test pressure for 1 hour; decrease to 0 psig. Slowly increase again to test pressure and hold for 1 more hour. Maximum allowable leakage is 2 quarts per hour per 100 joints. Remake leaking joints with new materials and repeat test until leakage is within allowed limits.
- C. Prepare reports of testing activities.

3.11 IDENTIFICATION

- A. Install continuous underground detectable warning tape during backfilling of trench for underground water-distribution piping. Locate below finished grade, directly over piping. Underground warning tapes are specified in Section 312000 "Earth Moving."
- B. Permanently attach equipment nameplate or marker indicating plastic water-service piping, on main electrical meter panel. See Section 330500 "Common Work Results for Utilities" for identifying devices.

3.12 CLEANING

- A. Clean and disinfect water-distribution piping as follows:
 - 1. Purge new water-distribution piping systems and parts of existing systems that have been altered, extended, or repaired before use.
 - 2. Use purging and disinfecting procedure prescribed by authorities having jurisdiction or, if method is not prescribed by authorities having jurisdiction, use procedure described in NFPA 24 for flushing of piping. Flush piping system with clean, potable water until dirty water does not appear at points of outlet.
 - 3. Use purging and disinfecting procedure prescribed by authorities having jurisdiction or, if method is not prescribed by authorities having jurisdiction, use procedure described in AWWA C651 or do as follows:
 - a. Fill system or part of system with water/chlorine solution containing at least 50 ppm of chlorine; isolate and allow to stand for 24 hours.
 - b. Drain system or part of system of previous solution and refill with water/chlorine solution containing at least 200 ppm of chlorine; isolate and allow to stand for 3 hours.
 - c. After standing time, flush system with clean, potable water until no chlorine remains in water coming from system.
 - d. Submit water samples in sterile bottles to authorities having jurisdiction. Repeat procedure if biological examination shows evidence of contamination.

Coldwater Lake Family Park – Campground Site Improvements

- B. Prepare reports of purging and disinfecting activities.

END OF SECTION 221113

SECTION 311000 - SITE CLEARING

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:

1. Protecting existing vegetation to remain.
2. Removing existing vegetation.
3. Clearing and grubbing.
4. Stripping and stockpiling topsoil.
5. Removing above- and below-grade site improvements.
6. Disconnecting, capping or sealing site utilities.

1.2 MATERIAL OWNERSHIP

- A. Except for stripped topsoil and other materials indicated to be stockpiled or otherwise remain on Owner's property, cleared materials shall become Contractor's property and shall be removed from Project site.

1.3 PROJECT CONDITIONS

- A. Traffic: Minimize interference with adjoining roads, streets, walks, and other adjacent occupied or used facilities during site-clearing operations.
1. Do not close or obstruct streets, walks, or other adjacent occupied or used facilities without permission from Owner and authorities having jurisdiction.
 2. Provide alternate routes around closed or obstructed traffic ways if required by Owner or authorities having jurisdiction.
- B. Salvable Improvements: Carefully remove items indicated to be salvaged and store on Owner's premises where indicated.
- C. Utility Locator Service: Notify utility locator service for area where Project is located before site clearing.
- D. Do not commence site clearing operations until temporary erosion- and sedimentation-control and plant-protection measures are in place.
- E. The following practices are prohibited within protection zones:
1. Storage of construction materials, debris, or excavated material.
 2. Parking vehicles or equipment.
 3. Foot traffic.
 4. Erection of sheds or structures.
 5. Impoundment of water.

Coldwater Lake Family Park – Campground Site Improvements

6. Excavation or other digging unless otherwise indicated.
7. Attachment of signs to or wrapping materials around trees or plants unless otherwise indicated.

PART 2 - PRODUCTS

2.1 MATERIALS

- A. Satisfactory Soil Material: Requirements for satisfactory soil material are specified in Division 31 Section 312000 "Earth Moving."
 1. Obtain approved borrow soil material off-site when satisfactory soil material is not available on-site.

PART 3 - EXECUTION

3.1 PREPARATION

- A. Protect and maintain benchmarks and survey control points from disturbance during construction.
- B. Locate and clearly identify trees, shrubs, and other vegetation to remain free or to be relocated.
- C. Protect existing site improvements to remain from damage during construction.
 1. Restore damaged improvements to their original condition, as acceptable to Owner.

3.2 TREE AND PLANT PROTECTION

- A. General: Protect trees and plants remaining on-site according to requirements in Division 01 Section 015639 "Temporary Tree and Plant Protection."
- B. Repair or replace trees, shrubs, and other vegetation indicated to remain or be relocated that are damaged by construction operations, in a manner approved by Architect.

3.3 EXISTING UTILITIES

- A. Locate, identify, disconnect, and seal or cap utilities indicated to be removed or abandoned in place.
 1. Arrange with utility companies to shut off indicated utilities.
- B. Interrupting Existing Utilities: Do not interrupt utilities serving facilities occupied by Owner or others unless permitted under the following conditions and then only after arranging to provide temporary utility services according to requirements indicated:

Coldwater Lake Family Park – Campground Site Improvements

1. Notify Engineer not less than two days in advance of proposed utility interruptions.
2. Do not proceed with utility interruptions without Engineer's written permission.

3.4 CLEARING AND GRUBBING

- A. Remove obstructions, trees, shrubs, and other vegetation to permit installation of new construction.
 1. Grind down stumps and remove roots, obstructions, and debris to a depth of 18 inches (450 mm) below exposed subgrade.
 2. Use only hand methods for grubbing within protection zones.
- B. Fill depressions caused by clearing and grubbing operations with satisfactory soil material unless further excavation or earthwork is indicated.
 1. Place fill material in horizontal layers not exceeding a loose depth of 8 inches (200 mm), and compact each layer to a density equal to adjacent original ground.

3.5 TOPSOIL STRIPPING

- A. Remove sod and grass before stripping topsoil.
- B. Strip topsoil to depth indicated on Drawings in a manner to prevent intermingling with underlying subsoil or other waste materials.
- C. Stockpile topsoil away from edge of excavations without intermixing with subsoil. Grade and shape stockpiles to drain surface water. Cover to prevent windblown dust and erosion by water.

3.6 SITE IMPROVEMENTS

- A. Remove existing above- and below-grade improvements as indicated and necessary to facilitate new construction.

3.7 DISPOSAL OF SURPLUS AND WASTE MATERIALS

- A. Remove surplus soil material, unsuitable topsoil, obstructions, demolished materials, and waste materials including trash and debris, and legally dispose of them off Owner's property.
- B. Separate recyclable materials produced during site clearing from other nonrecyclable materials. Store or stockpile without intermixing with other materials and transport them to recycling facilities. Do not interfere with other Project work.

END OF SECTION 311000

SECTION 312000 - EARTH MOVING

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:

- 1. Preparing subgrades for slabs-on-grade, walks, pavements, turf and grasses and plants.
- 2. Excavating and backfilling for buildings and structures.
- 3. Drainage course for concrete slabs-on-grade.
- 4. Subbase course for concrete walks, pavements.
- 5. Subbase course and base course for asphalt paving.
- 6. Excavating and backfilling for utility trenches.

1.2 DEFINITIONS

A. Backfill: Soil material used to fill an excavation.

- 1. Initial Backfill: Backfill placed beside and over pipe in a trench, including haunches to support sides of pipe.
- 2. Final Backfill: Backfill placed over initial backfill to fill a trench.

B. Base Course: Aggregate layer placed between the subbase course and hot-mix asphalt paving.

C. Bedding Course: Aggregate layer placed over the excavated subgrade in a trench before laying pipe.

D. Borrow Soil: Satisfactory soil imported from off-site for use as fill or backfill.

E. Drainage Course: Aggregate layer supporting the slab-on-grade that also minimizes upward capillary flow of pore water.

F. Excavation: Removal of material encountered above subgrade elevations and to lines and dimensions indicated.

- 1. Authorized Additional Excavation: Excavation below subgrade elevations or beyond indicated lines and dimensions as directed by Architect. Authorized additional excavation and replacement material will be paid for according to Contract provisions for changes in the Work.
- 2. Unauthorized Excavation: Excavation below subgrade elevations or beyond indicated lines and dimensions without direction by Architect. Unauthorized excavation, as well as remedial work directed by Architect, shall be without additional compensation.

G. Fill: Soil materials used to raise existing grades.

Coldwater Lake Family Park – Campground Site Improvements

- H. Structures: Buildings, footings, foundations, retaining walls, slabs, tanks, curbs, mechanical and electrical appurtenances, or other man-made stationary features constructed above or below the ground surface.
- I. Subbase Course: Aggregate layer placed between the subgrade and base course for hot-mix asphalt pavement, or aggregate layer placed between the subgrade and a cement concrete pavement or a cement concrete or hot-mix asphalt walk.
- J. Subgrade: Uppermost surface of an excavation or the top surface of a fill or backfill immediately below subbase, drainage fill, drainage course, or topsoil materials.
- K. Utilities: On-site underground pipes, conduits, ducts, and cables, as well as underground services within buildings.

1.3 QUALITY ASSURANCE

- A. Preexcavation Conference: Conduct conference at Project site.

1.4 PROJECT CONDITIONS

- A. Utility Locator Service: Notify utility locator service for area where Project is located before beginning earth moving operations.
- B. Do not commence earth moving operations until plant-protection measures specified in Division 01 Section 015639 "Temporary Tree and Plant Protection" are in place.

PART 2 - PRODUCTS

2.1 SOIL MATERIALS

- A. General: Provide borrow soil materials when sufficient satisfactory soil materials are not available from excavations.
- B. Satisfactory Soils: Soil Classification Groups GW, GP, GM, SW, SP, and SM according to ASTM D 2487, or a combination of these groups; free of rock or gravel larger than 3 inches (75 mm) in any dimension, debris, waste, frozen materials, vegetation, and other deleterious matter.
- C. Unsatisfactory Soils: Soil Classification Groups GC, SC, CL, ML, OL, CH, MH, OH, and PT according to ASTM D 2487, or a combination of these groups.
 - 1. Unsatisfactory soils also include satisfactory soils not maintained within 2 percent of optimum moisture content at time of compaction.
- D. Subbase Material: Naturally or artificially graded mixture of natural or crushed gravel, crushed stone, and natural or crushed sand; ASTM D 2940; with at least 90 percent passing a 1-1/2-inch (37.5-mm) sieve and not more than 12 percent passing a No. 200 (0.075-mm) sieve.

Coldwater Lake Family Park – Campground Site Improvements

- E. Base Course: Naturally or artificially graded mixture of natural or crushed gravel, crushed stone, and natural or crushed sand; ASTM D 2940; with at least 95 percent passing a 1-1/2-inch (37.5-mm) sieve and not more than 8 percent passing a No. 200 (0.075-mm) sieve.
- F. Engineered Fill: Naturally or artificially graded mixture of natural or crushed gravel, crushed stone, and natural or crushed sand; ASTM D 2940; with at least 90 percent passing a 1-1/2-inch (37.5-mm) sieve and not more than 12 percent passing a No. 200 (0.075-mm) sieve.
- G. Bedding Course: Naturally or artificially graded mixture of natural or crushed gravel, crushed stone, and natural or crushed sand; ASTM D 2940; except with 100 percent passing a 1-inch (25-mm) sieve and not more than 8 percent passing a No. 200 (0.075-mm) sieve.
- H. Drainage Course: Narrowly graded mixture of washed crushed stone, or crushed or uncrushed gravel; ASTM D 448; coarse-aggregate grading Size 57; with 100 percent passing a 1-1/2-inch (37.5-mm) sieve and 0 to 5 percent passing a No. 8 (2.36-mm) sieve.

2.2 ACCESSORIES

- A. Warning Tape: Acid- and alkali-resistant, polyethylene film warning tape manufactured for marking and identifying underground utilities, 6 inches (150 mm) wide and 4 mils (0.1 mm) thick, continuously inscribed with a description of the utility; colored to comply with local practice or requirements of authorities having jurisdiction.
- B. Detectable Warning Tape: Acid- and alkali-resistant, polyethylene film warning tape manufactured for marking and identifying underground utilities, a minimum of 6 inches (150 mm) wide and 4 mils (0.1 mm) thick, continuously inscribed with a description of the utility, with metallic core encased in a protective jacket for corrosion protection, detectable by metal detector when tape is buried up to 30 inches (750 mm) deep; colored to comply with local practice or requirements of authorities having jurisdiction.

PART 3 - EXECUTION

3.1 PREPARATION

- A. Protect structures, utilities, sidewalks, pavements, and other facilities from damage caused by settlement, lateral movement, undermining, washout, and other hazards created by earth moving operations.
- B. Protect and maintain erosion and sedimentation controls during earth moving operations.
- C. Protect subgrades and foundation soils from freezing temperatures and frost. Remove temporary protection before placing subsequent materials.

3.2 EXCAVATION, GENERAL

- A. Unclassified Excavation: Excavate to subgrade elevations regardless of the character of surface and subsurface conditions encountered. Unclassified excavated materials may include rock, soil

Coldwater Lake Family Park – Campground Site Improvements

materials, and obstructions. No changes in the Contract Sum or the Contract Time will be authorized for rock excavation or removal of obstructions.

1. If excavated materials intended for fill and backfill include unsatisfactory soil materials and rock, replace with satisfactory soil materials.

3.3 EXCAVATION FOR STRUCTURES

- A. Excavate to indicated elevations and dimensions within a tolerance of plus or minus 1 inch (25 mm). If applicable, extend excavations a sufficient distance from structures for placing and removing concrete formwork, for installing services and other construction, and for inspections.
 1. Excavations for Footings and Foundations: Do not disturb bottom of excavation. Excavate by hand to final grade just before placing concrete reinforcement. Trim bottoms to required lines and grades to leave solid base to receive other work.
- B. Excavations at Edges of Tree- and Plant-Protection Zones:
 1. Excavate by hand to indicated lines, cross sections, elevations, and subgrades. Use narrow-tine spading forks to comb soil and expose roots. Do not break, tear, or chop exposed roots. Do not use mechanical equipment that rips, tears, or pulls roots.
 2. Cut and protect roots according to requirements in Division 01 Section "Temporary Tree and Plant Protection."

3.4 EXCAVATION FOR WALKS AND PAVEMENTS

- A. Excavate surfaces under walks and pavements to indicated lines, cross sections, elevations, and subgrades.

3.5 EXCAVATION FOR UTILITY TRENCHES

- A. Excavate trenches to indicated gradients, lines, depths, and elevations.
- B. Excavate trenches to uniform widths to provide the following clearance on each side of pipe or conduit. Excavate trench walls vertically from trench bottom to 12 inches (300 mm) higher than top of pipe or conduit unless otherwise indicated.
 1. Clearance: 12 inches (300 mm) each side of pipe or conduit.
- C. Trench Bottoms: Excavate and shape trench bottoms to provide uniform bearing and support of pipes and conduit. Shape subgrade to provide continuous support for bells, joints, and barrels of pipes and for joints, fittings, and bodies of conduits. Remove projecting stones and sharp objects along trench subgrade.
 1. Excavate trenches 6 inches (150 mm) deeper than elevation required in rock or other unyielding bearing material, 4 inches (100 mm) deeper elsewhere, to allow for bedding course.

Coldwater Lake Family Park – Campground Site Improvements

D. Trenches in Tree- and Plant-Protection Zones:

1. Hand-excavate to indicated lines, cross sections, elevations, and subgrades. Use narrow-tine spading forks to comb soil and expose roots. Do not break, tear, or chop exposed roots. Do not use mechanical equipment that rips, tears, or pulls roots.
2. Do not cut main lateral roots or taproots; cut only smaller roots that interfere with installation of utilities.
3. Cut and protect roots according to requirements in Division 01 Section "Temporary Tree and Plant Protection."

3.6 SUBGRADE INSPECTION

- A. Proof-roll subgrade below the building slabs and pavements with a pneumatic-tired dump truck to identify soft pockets and areas of excess yielding. Do not proof-roll wet or saturated subgrades.
- B. Reconstruct subgrades damaged by freezing temperatures, frost, rain, accumulated water, or construction activities, as directed by Architect, without additional compensation.

3.7 UNAUTHORIZED EXCAVATION

- A. Fill unauthorized excavation under foundations or wall footings by extending bottom elevation of concrete foundation or footing to excavation bottom, without altering top elevation. Lean concrete fill, with 28-day compressive strength of 2500 psi (17.2 MPa), may be used when approved by Architect.
 1. Fill unauthorized excavations under other construction, pipe, or conduit as directed by Architect.

3.8 STORAGE OF SOIL MATERIALS

- A. Stockpile borrow soil materials and excavated satisfactory soil materials without intermixing. Place, grade, and shape stockpiles to drain surface water. Cover to prevent windblown dust.
 1. Stockpile soil materials away from edge of excavations. Do not store within drip line of remaining trees.

3.9 UTILITY TRENCH BACKFILL

- A. Place backfill on subgrades free of mud, frost, snow, or ice.
- B. Place and compact bedding course on trench bottoms and where indicated. Shape bedding course to provide continuous support for bells, joints, and barrels of pipes and for joints, fittings, and bodies of conduits.

Coldwater Lake Family Park – Campground Site Improvements

- C. Trenches under Footings: Backfill trenches excavated under footings and within 18 inches (450 mm) of bottom of footings with satisfactory soil; fill with concrete to elevation of bottom of footings. Concrete is specified in Division 03 Section "Cast-in-Place Concrete."
- D. Place and compact initial backfill of subbase material, free of particles larger than 1 inch (25 mm) in any dimension, to a height of 12 inches (300 mm) over the pipe or conduit.
 - 1. Carefully compact initial backfill under pipe haunches and compact evenly up on both sides and along the full length of piping or conduit to avoid damage or displacement of piping or conduit. Coordinate backfilling with utilities testing.
- E. Place and compact final backfill of satisfactory soil to final subgrade elevation.
- F. Install warning tape directly above utilities, 12 inches (300 mm) below finished grade, except 6 inches (150 mm) below subgrade under pavements and slabs.

3.10 SOIL FILL

- A. Plow, scarify, bench, or break up sloped surfaces steeper than 1 vertical to 4 horizontal so fill material will bond with existing material.
- B. Place and compact fill material in layers to required elevations as follows:
 - 1. Under grass and planted areas, use satisfactory soil material.
 - 2. Under walks and pavements, use satisfactory soil material.
 - 3. Under steps and ramps, use engineered fill.
 - 4. Under building slabs, use engineered fill.
 - 5. Under footings and foundations, use engineered fill.

3.11 SOIL MOISTURE CONTROL

- A. Uniformly moisten or aerate subgrade and each subsequent fill or backfill soil layer before compaction to within 2 percent of optimum moisture content.
 - 1. Do not place backfill or fill soil material on surfaces that are muddy, frozen, or contain frost or ice.
 - 2. Remove and replace, or scarify and air dry, otherwise satisfactory soil material that exceeds optimum moisture content by 2 percent and is too wet to compact to specified dry unit weight.

3.12 COMPACTION OF SOIL BACKFILLS AND FILLS

- A. Place backfill and fill soil materials in layers not more than 8 inches (200 mm) in loose depth for material compacted by heavy compaction equipment, and not more than 4 inches (100 mm) in loose depth for material compacted by hand-operated tampers.
- B. Place backfill and fill soil materials evenly on all sides of structures to required elevations, and uniformly along the full length of each structure.

Coldwater Lake Family Park – Campground Site Improvements

- C. Compact soil materials to not less than the following percentages of maximum dry unit weight according to ASTM D 1557:
 - 1. Under structures, building slabs, steps, and pavements, scarify and recompact top 12 inches (300 mm) of existing subgrade and each layer of backfill or fill soil material at 95 percent.
 - 2. Under walkways, scarify and recompact top 6 inches (150 mm) below subgrade and compact each layer of backfill or fill soil material at 95 percent.
 - 3. Under turf or unpaved areas, scarify and recompact top 6 inches (150 mm) below subgrade and compact each layer of backfill or fill soil material at 85 percent.
 - 4. For utility trenches, compact each layer of initial and final backfill soil material at 85 percent.

3.13 GRADING

- A. General: Uniformly grade areas to a smooth surface, free of irregular surface changes. Comply with compaction requirements and grade to cross sections, lines, and elevations indicated.
- B. Site Rough Grading: Slope grades to direct water away from buildings and to prevent ponding. Finish subgrades to required elevations within the following tolerances:
 - 1. Turf or Unpaved Areas: Plus or minus 1 inch (25 mm).
 - 2. Walks: Plus or minus 1 inch (25 mm).
 - 3. Pavements: Plus or minus 1/2 inch (13 mm).
- C. Grading inside Building Lines: Finish subgrade to a tolerance of 1/2 inch (13 mm) when tested with a 10-foot (3-m) straightedge.

3.14 SUBBASE AND BASE COURSES UNDER PAVEMENTS AND WALKS

- A. Place subbase course and base course on subgrades free of mud, frost, snow, or ice.
- B. On prepared subgrade, place subbase course and base course under pavements and walks as follows:
 - 1. Shape subbase course and base course to required crown elevations and cross-slope grades.
 - 2. Place subbase course and base course that exceeds 6 inches (150 mm) in compacted thickness in layers of equal thickness, with no compacted layer more than 6 inches (150 mm) thick or less than 3 inches (75 mm) thick.
 - 3. Compact subbase course and base course at optimum moisture content to required grades, lines, cross sections, and thickness to not less than 95 percent of maximum dry unit weight according to ASTM D 1557.

3.15 FIELD QUALITY CONTROL

- A. Testing Agency: Owner will engage a qualified geotechnical engineering testing agency to perform tests and inspections.

Coldwater Lake Family Park – Campground Site Improvements

- B. Allow testing agency to inspect and test subgrades and each fill or backfill layer. Proceed with subsequent earth moving only after test results for previously completed work comply with requirements.
- C. Footing Subgrade: At footing subgrades, at least one test of each soil stratum will be performed to verify design bearing capacities. Subsequent verification and approval of other footing subgrades may be based on a visual comparison of subgrade with tested subgrade when approved by Architect.
- D. When testing agency reports that subgrades, fills, or backfills have not achieved degree of compaction specified, scarify and moisten or aerate, or remove and replace soil materials to depth required; recompact and retest until specified compaction is obtained.

3.16 PROTECTION

- A. Protecting Graded Areas: Protect newly graded areas from traffic, freezing, and erosion. Keep free of trash and debris.
- B. Repair and reestablish grades to specified tolerances where completed or partially completed surfaces become eroded, rutted, settled, or where they lose compaction due to subsequent construction operations or weather conditions.
- C. Where settling occurs before Project correction period elapses, remove finished surfacing, backfill with additional soil material, compact, and reconstruct surfacing.
 - 1. Restore appearance, quality, and condition of finished surfacing to match adjacent work, and eliminate evidence of restoration to greatest extent possible.

3.17 DISPOSAL OF SURPLUS AND WASTE MATERIALS

- A. Remove surplus satisfactory soil and waste materials, including unsatisfactory soil, trash, and debris, and legally dispose of them off Owner's property.

END OF SECTION 312000



ISABELLA COUNTY PARKS AND RECREATION COMMISSION

IN COOPERATION WITH THE MICHIGAN DEPARTMENT OF NATURAL RESOURCES

RECREATION PASSPORT GRANT #RP-18-0017

COLDWATER LAKE FAMILY PARK IMPROVEMENTS PROJECT

ISABELLA COUNTY, MICHIGAN

SITE IMPROVEMENTS FOR
 COLDWATER LAKE CAMPGROUND
 ISABELLA COUNTY PARKS AND RECREATION
 ISABELLA COUNTY, MICHIGAN

DRAWING INDEX

- TS TITLE SHEET
- CIVIL:**
- C1.0 EXISTING SITE LAYOUT PLAN
 - C2.0 NEW SITE LAYOUT PLAN
 - C3.0 NEW SITE CIVIL DETAILS

- ELECTRICAL:**
- ED1.0 SITE ELECTRICAL PLAN – DEMOLITION
 - E1.0 SITE ELECTRICAL PLAN – NEW
 - E2.0 ELECTRICAL RISER DIAGRAMS
 - E3.0 ELECTRICAL DETAILS

OWNER:

ISABELLA COUNTY PARKS
AND RECREATION COMMISSION
CONTACT: SUE ANN KOPMEYER
200 N. MAIN STREET
MT. PLEASANT, MICHIGAN 48858

ARCHITECT/ENGINEER:

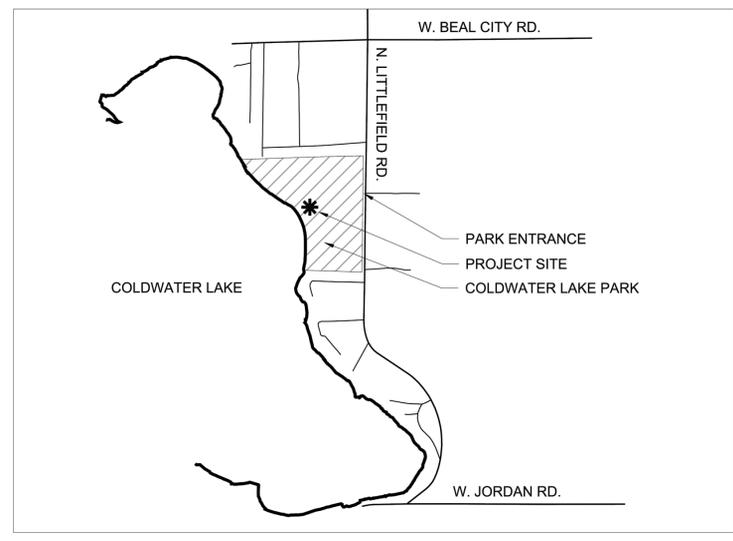
WAK Engineers-Architects-Consultants
 William A. Kibbe & Associates, Inc.
 1475 S. Washington Avenue, Saginaw, MI 48601

PROJECT INFORMATION:

- DESIGN CODE: 2015 M.B.C. (MICHIGAN BUILDING CODE)
- OCCUPANCY: GROUP A-3 TYPE V B

REQUIRED SUBMITTALS:

- MICHIGAN DEPARTMENT OF NATURAL RESOURCES



LOCATION MAP NOT TO SCALE

DATE:	ISSUED FOR:
2019-08-05	OWNER REVIEW
2019-08-15	OWNER REVIEW
2019-08-22	SUBMITTED TO DNR

DRAWN	SNF
CHECKED	JW

JOB NO.
RP18-0017

TITLE
TITLE SHEET

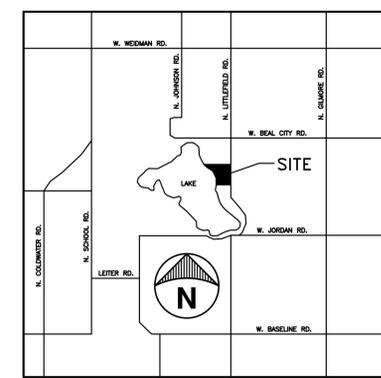
SEAL

SHEET

TS



**COLDWATER LAKE FAMILY PARK
IMPROVEMENTS PROJECT**
ISABELLA COUNTY PARKS AND RECREATION
ISABELLA COUNTY, MICHIGAN

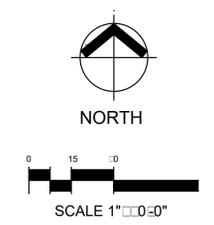


LOCATION MAP
NOT TO SCALE

- LEGEND**
- EX. SPOT GRADE
 - EX. WATERMAIN
 - EX. CHAINLINK FENCE
 - EX. SIGN WITH POST
 - EX. BUILDINGS
 - EX. BITUMINOUS PAVEMENT
 - EX. CONCRETE PAVEMENT (C. OR CONC.)
 - EX. GRAVEL PAVEMENT
 - EX. STEEL POST
 - EX. WATER OR GAS VALVE
 - EX. UTILITY POLE
 - EX. WATER FIXTURE
 - EX. LIGHT POLE
 - EX. UTILITY RISER

OWNER
ISABELLA COUNTY
ISABELLA COUNTY BUILDING
200 N. MAIN STREET, SUITE 205
MT. PLEASANT, MI 48858

UTILITY NOTE
THE UTILITY LOCATIONS AS HEREIN SHOWN ARE BASED ON FIELD OBSERVATIONS AND A CAREFUL REVIEW OF MUNICIPAL AND UTILITY RECORDS. HOWEVER, IT IS NOT POSSIBLE TO DETERMINE THE PRECISE SIZE, LOCATION, DEPTH, PRESSURE, OR ANY OTHER CHARACTERISTICS OF UNDERGROUND UTILITIES, TANKS OR SEPTIC FIELDS WITHOUT EXCAVATION. THEREFORE, WE CANNOT GUARANTEE THE ACCURACY OF COMPLETENESS OF THE BURIED UTILITY INFORMATION HEREIN SHOWN. THE CONTRACTOR SHALL CALL "MISS DIG" 1-800-482-7171 A MINIMUM OF THREE WORKING DAYS PRIOR TO ANY EXCAVATION. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THESE LOCATIONS PRIOR TO CONSTRUCTION AND MAKE EVERY EFFORT TO PROTECT AND/OR RELOCATE THEM AS REQUIRED. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF DESIGN AS SOON AS POSSIBLE IN THE EVENT A DISCREPANCY IS FOUND.



DATE:	ISSUED FOR:
2019-8-5	REVIEW
2019-8-15	OWNER REVIEW
2019-8-22	SUBMITTED TO DNR

DRAWN	TAG
CHECKED	JCW

JOB NO.
RP18-0017

TITLE
EXISTING SITE LAYOUT PLAN

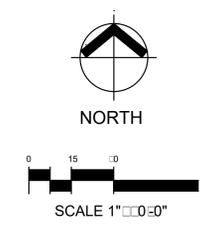
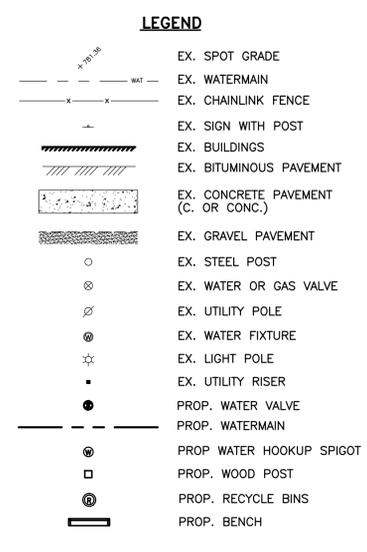
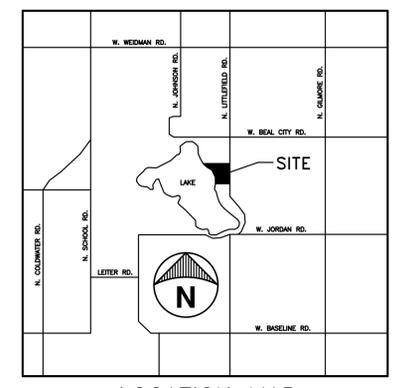
SEAL

SHEET

C1.0



EXISTING SITE LAYOUT PLAN
SCALE: 1" = 40'



DATE:	ISSUED FOR:
2019-8-5	REVIEW
2019-8-15	OWNER REVIEW
2019-8-22	SUBMITTED TO DNR

DRAWN	TAG
CHECKED	JCW

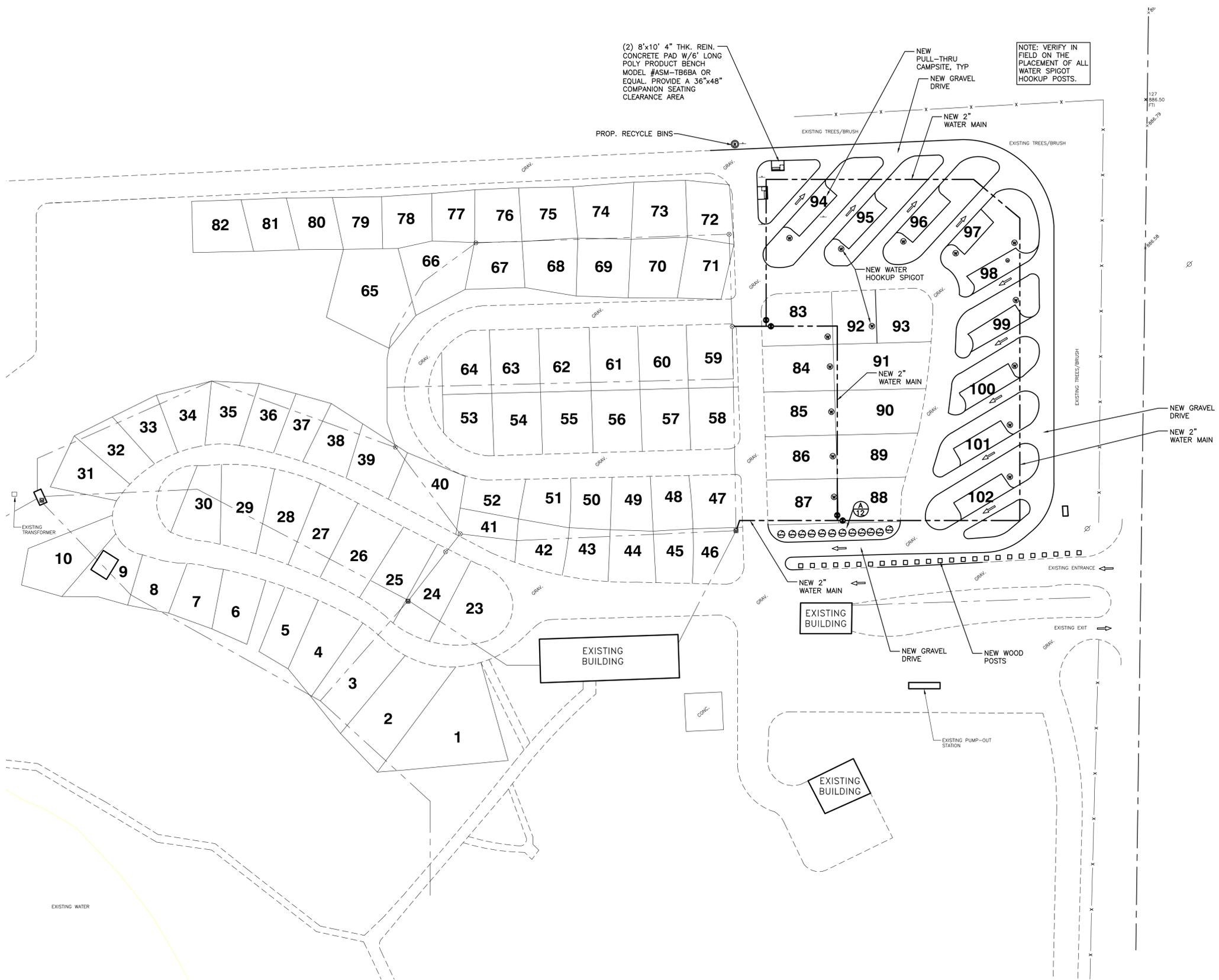
JOB NO.
RP18-0017

TITLE
NEW SITE LAYOUT PLAN

SEAL

SHEET

C2.0

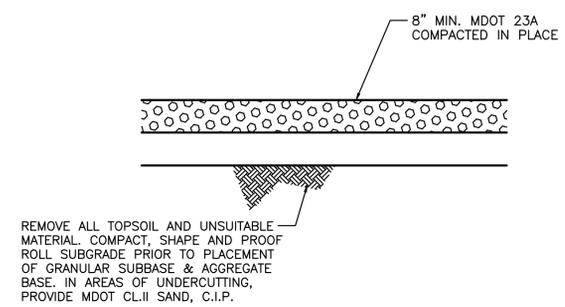


NEW SITE LAYOUT PLAN
SCALE: 1" = 40'

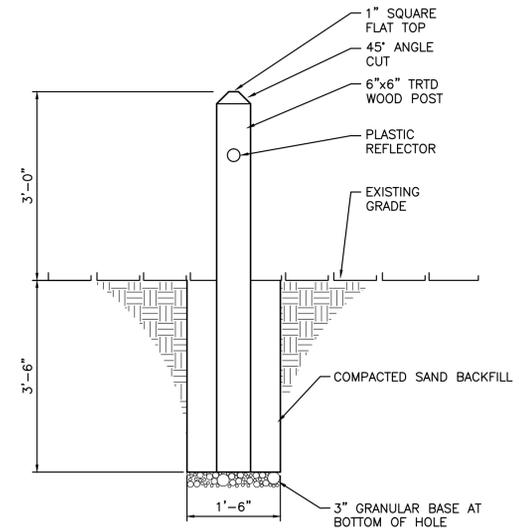
GENERAL PLANTING SCHEDULE

KEY	SYMBOL	NAME	QTY	MIN. PLANT SIZE
A		BURNING BUSH (Euonymus alatus)	12 EA.	24 INCHES HIGH (MIN. 5 GAL. CONT.)

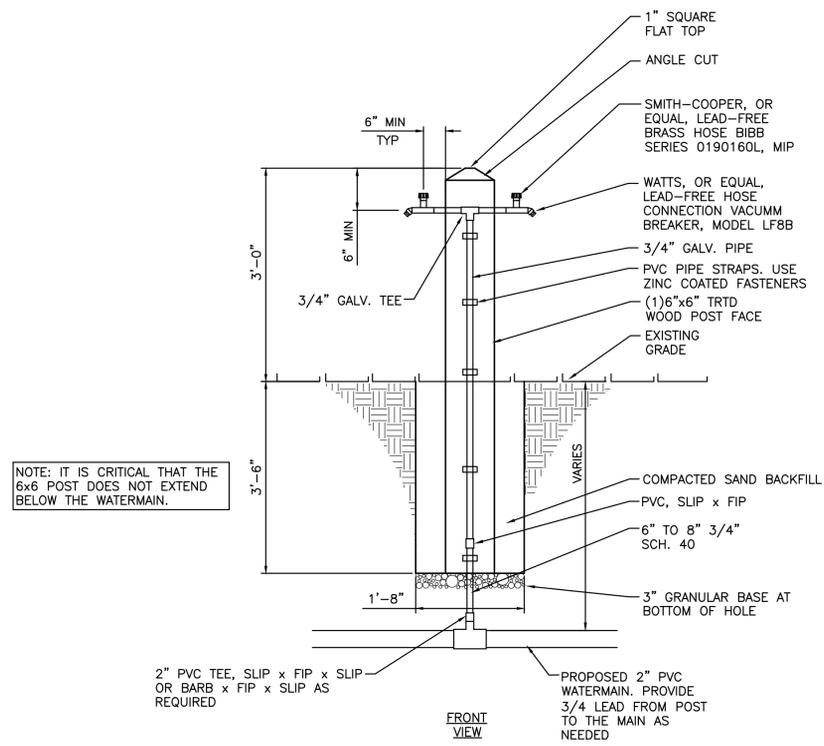




1 TYPICAL PAVEMENT SECTION
C3.0 NOT TO SCALE



3 TYPICAL WOOD POST DETAIL
C3.0 NOT TO SCALE



NOTE: IT IS CRITICAL THAT THE 6x6 POST DOES NOT EXTEND BELOW THE WATERMAIN.

2 TYPICAL WATER HOOKUP SPIGOT
C3.0 NOT TO SCALE



NORTH



SCALE 1" = 30'-0"

DATE:	ISSUED FOR:
2019-8-5	REVIEW
2019-8-15	OWNER REVIEW
2019-8-19	REVISED PER OWNER
2019-8-22	SUBMITTED TO DNR

DRAWN	TAG
CHECKED	JCW

JOB NO.
RP18-0017

TITLE
NEW SITE CIVIL DETAILS

SEAL

SHEET

**SITE IMPROVEMENTS FOR
COLDWATER LAKE CAMPGROUND**
ISABELLA COUNTY PARKS AND RECREATION
ISABELLA COUNTY, MICHIGAN



DATE:	ISSUED FOR:
2019-08-05	OWNER REVIEW
2019-08-15	OWNER REVIEW
2019-08-22	SUBMITTED TO DNR

DRAWN	SNF
CHECKED	JLS

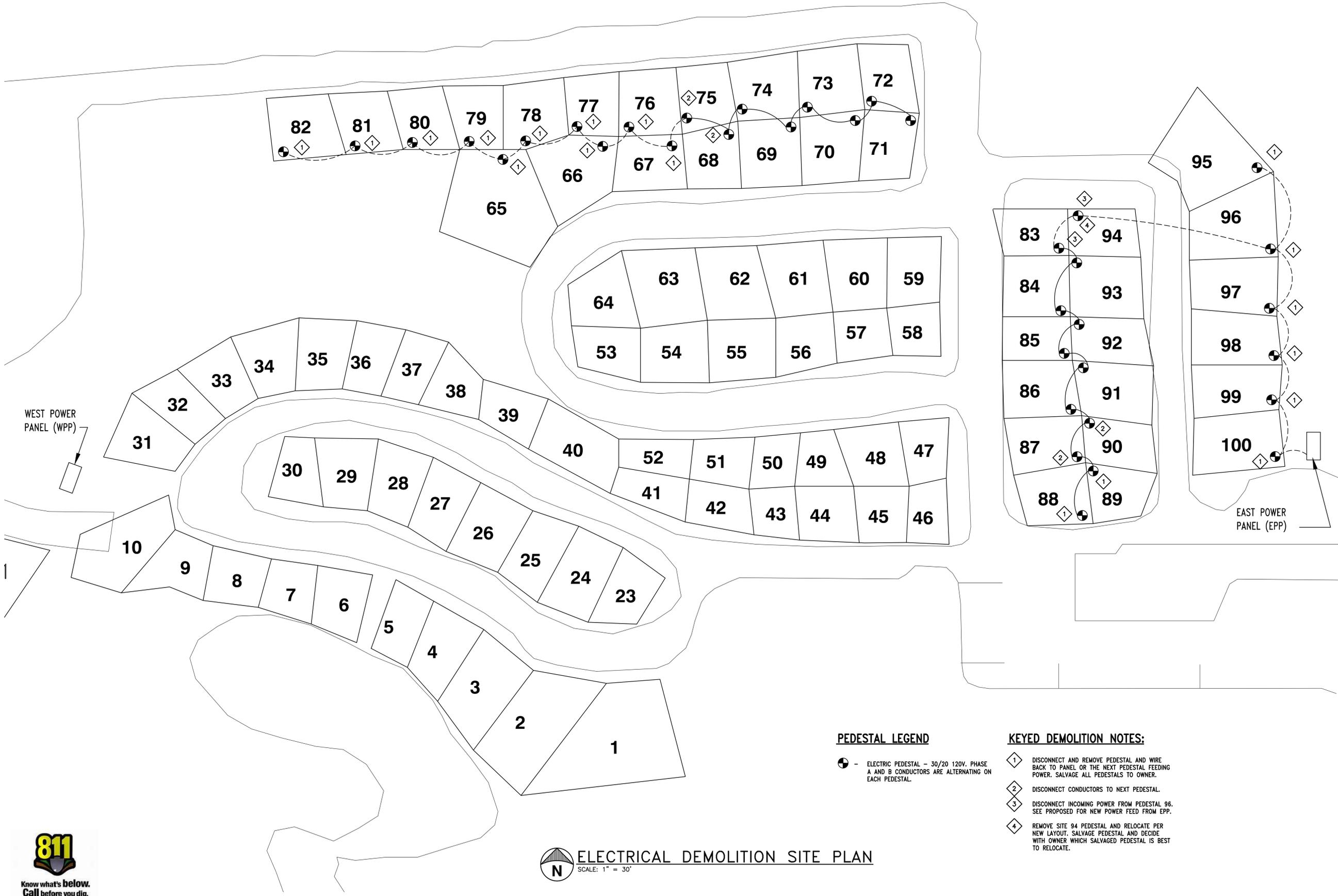
JOB NO.
RP18-0017

TITLE
**ELECTRICAL
SITE PLAN
DEMOLITION**

SEAL

SHEET

ED1.0



PEDESTAL LEGEND

⊕ - ELECTRIC PEDESTAL - 30/20 120V. PHASE A AND B CONDUCTORS ARE ALTERNATING ON EACH PEDESTAL.

KEYED DEMOLITION NOTES:

- 1 DISCONNECT AND REMOVE PEDESTAL AND WIRE BACK TO PANEL OR THE NEXT PEDESTAL FEEDING POWER. SALVAGE ALL PEDESTALS TO OWNER.
- 2 DISCONNECT CONDUCTORS TO NEXT PEDESTAL.
- 3 DISCONNECT INCOMING POWER FROM PEDESTAL 96. SEE PROPOSED FOR NEW POWER FEED FROM EPP.
- 4 REMOVE SITE 94 PEDESTAL AND RELOCATE PER NEW LAYOUT. SALVAGE PEDESTAL AND DECIDE WITH OWNER WHICH SALVAGED PEDESTAL IS BEST TO RELOCATE.



ELECTRICAL DEMOLITION SITE PLAN

SCALE: 1" = 30'



DATE:	ISSUED FOR:
2019-08-05	OWNER REVIEW
2019-08-15	OWNER REVIEW
2019-08-22	SUBMITTED TO DNR

DRAWN	SNF
CHECKED	JLS

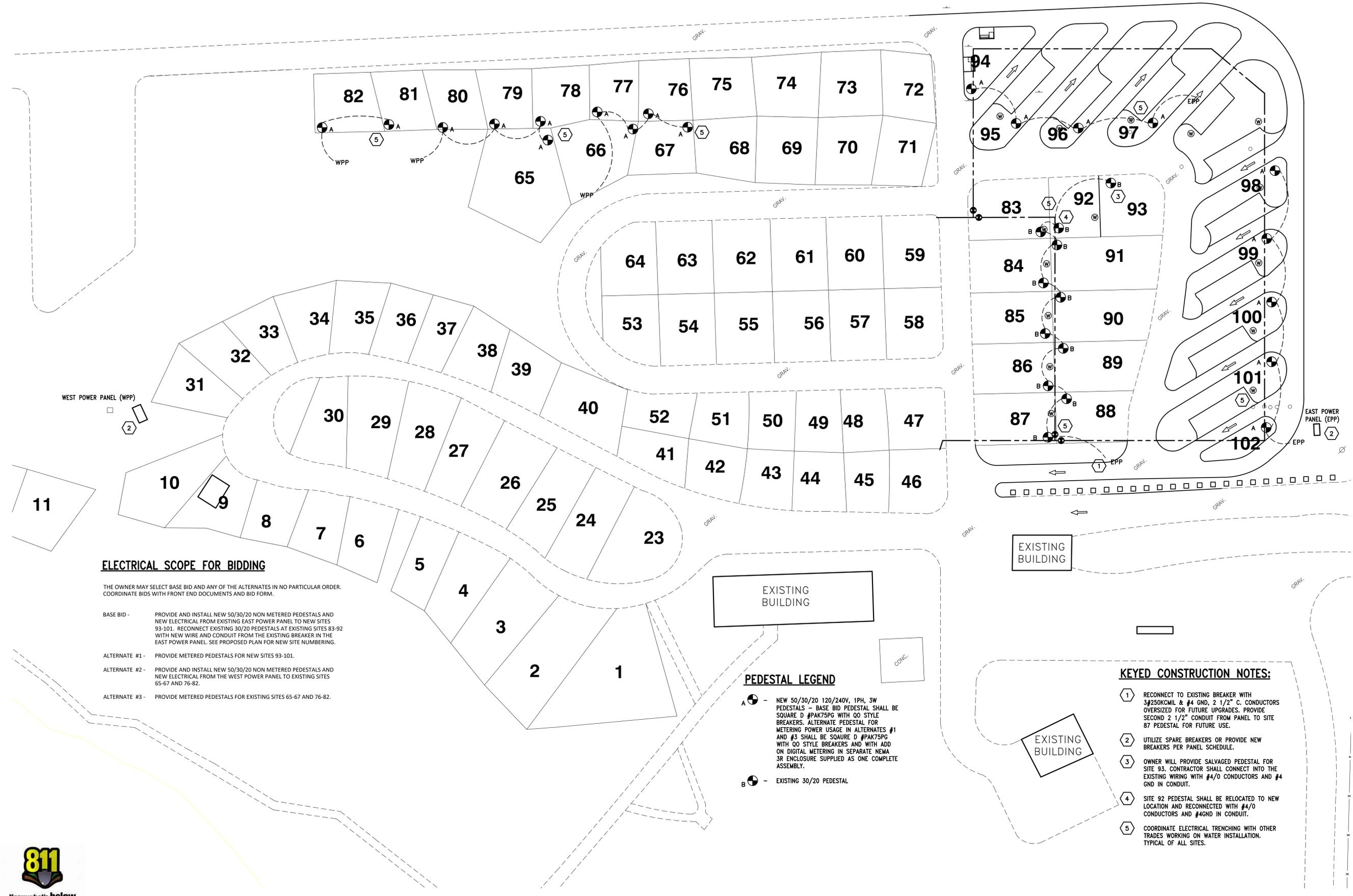
JOB NO.
RP18-0017

TITLE
**ELECTRICAL
SITE PLAN -
NEW**

SEAL

SHEET

E1.0



ELECTRICAL SCOPE FOR BIDDING

THE OWNER MAY SELECT BASE BID AND ANY OF THE ALTERNATES IN NO PARTICULAR ORDER. COORDINATE BIDS WITH FRONT END DOCUMENTS AND BID FORM.

- BASE BID - PROVIDE AND INSTALL NEW 50/30/20 NON METERED PEDESTALS AND NEW ELECTRICAL FROM EXISTING EAST POWER PANEL TO NEW SITES 93-101. RECONNECT EXISTING 30/20 PEDESTALS AT EXISTING SITES 83-92 WITH NEW WIRE AND CONDUIT FROM THE EXISTING BREAKER IN THE EAST POWER PANEL. SEE PROPOSED PLAN FOR NEW SITE NUMBERING.
- ALTERNATE #1 - PROVIDE METERED PEDESTALS FOR NEW SITES 93-101.
- ALTERNATE #2 - PROVIDE AND INSTALL NEW 50/30/20 NON METERED PEDESTALS AND NEW ELECTRICAL FROM THE WEST POWER PANEL TO EXISTING SITES 65-67 AND 76-82.
- ALTERNATE #3 - PROVIDE METERED PEDESTALS FOR EXISTING SITES 65-67 AND 76-82.

PEDESTAL LEGEND

- A** - NEW 50/30/20 120/240V, 1PH, 3W PEDESTALS - BASE BID PEDESTAL SHALL BE SQUARE D #PAK75PG WITH QO STYLE BREAKERS. ALTERNATE PEDESTAL FOR METERING POWER USAGE IN ALTERNATES #1 AND #3 SHALL BE SQUARE D #PAK75PG WITH QO STYLE BREAKERS AND WITH ADD ON DIGITAL METERING IN SEPARATE NEMA 3R ENCLOSURE SUPPLIED AS ONE COMPLETE ASSEMBLY.
- B** - EXISTING 30/20 PEDESTAL

KEYED CONSTRUCTION NOTES:

- RECONNECT TO EXISTING BREAKER WITH 3#250KCMIL & #4 GND, 2 1/2" C. CONDUCTORS OVERSIZED FOR FUTURE UPGRADES. PROVIDE SECOND 2 1/2" CONDUIT FROM PANEL TO SITE 87 PEDESTAL FOR FUTURE USE.
- UTILIZE SPARE BREAKERS OR PROVIDE NEW BREAKERS PER PANEL SCHEDULE.
- OWNER WILL PROVIDE SALVAGED PEDESTAL FOR SITE 93. CONTRACTOR SHALL CONNECT INTO THE EXISTING WIRING WITH #4/0 CONDUCTORS AND #4 GND IN CONDUIT.
- SITE 92 PEDESTAL SHALL BE RELOCATED TO NEW LOCATION AND RECONNECTED WITH #4/0 CONDUCTORS AND #4GND IN CONDUIT.
- COORDINATE ELECTRICAL TRENCHING WITH OTHER TRADES WORKING ON WATER INSTALLATION. TYPICAL OF ALL SITES.

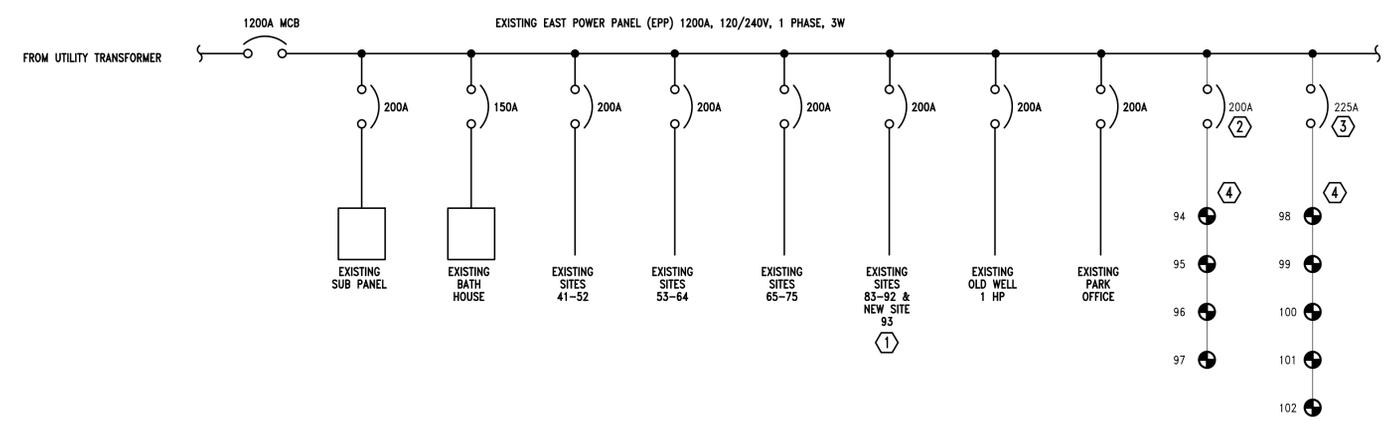


GENERAL NOTES:

- ENGRAVED NAMEPLATES (WHITE PHENOLIC WITH BLACK LETTERS) SHALL BE FURNISHED AND INSTALLED ON ALL ELECTRICAL EQUIPMENT BY THE ELECTRICAL CONTRACTOR. LETTER SIZES: 1/4" FOR ALL ELECTRICAL EQUIPMENT.
- PROVIDE PLAQUES TO INDICATE THE PRESENCE OF MULTIPLE SERVICES AND DISCONNECTING MEANS.
- PROVIDE MINIMUM OF 36" GROUND COVER ABOVE, UNDER GROUND CONDUIT INSTALLATIONS.
- PROVIDE SCHEDULE 40 PVC OR HDPE WITH SCHEDULE 80 PVC ELBOWS IN ALL BELOW GRADE CONDUIT INSTALLATIONS. PROVIDE INTERMEDIATE OR RIGID METAL CONDUIT (IMC, RMC) IN ALL ABOVE GRADE EXPOSED LOCATIONS.
- RESTORE ALL WORK AREAS TO ORIGINAL STATE UPON COMPLETION OF WORK. SEE SPECIFICATIONS FOR RESTORATION.
- PROVIDE BREAKER LUG KITS AS REQUIRED TO ACCEPT CONDUCTORS NOTED.
- AFTER FULL INSTALLATION OF PEDESTALS, ALL 30A AND 20A BREAKERS SHALL BE ALTERNATED ON PHASES TO NOT HAVE THE 30A RECEPTACLES ALL ON PHASE A.
- CONDUCTORS SHALL BE STRANDED COPPER WITH THWN INSULATION RATED FOR UNDERGROUND INSTALLATION IN CONDUIT. WET LOCATION

KEYED NOTES:

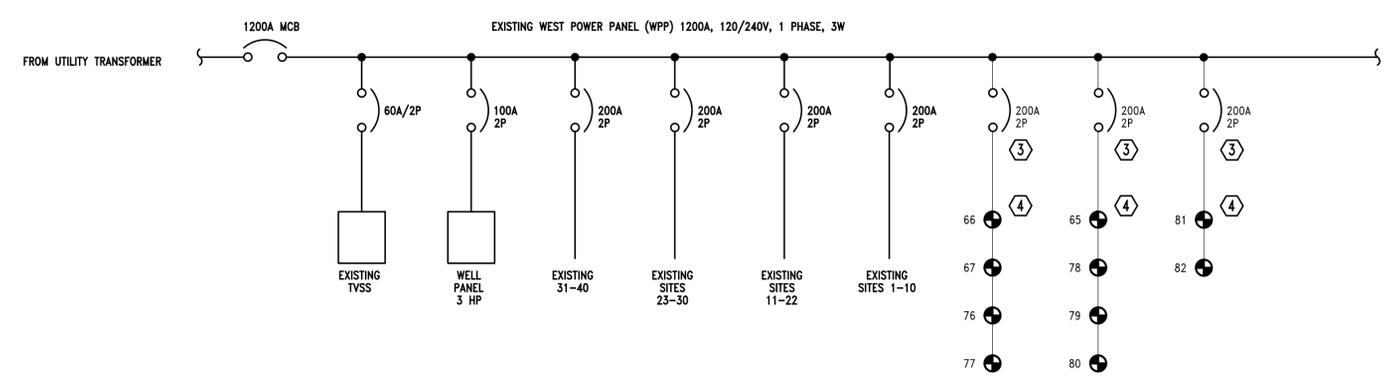
- EXISTING SITES TO BE RE-FED FROM EXISTING BREAKER. SEE PROPOSED PLAN FOR CONNECTION DETAILS AND NEW SITE NUMBERING FOR EXISTING SITES. ALTERNATE PHASE CONDUCTORS SIMILAR TO THE EXISTING INSTALLATION.
- UTILIZE EXISTING SPARE FOR NEW SITES.
- NEW SQUARE-D BREAKER FOR EXISTING I-LINE PANELBOARD TO MATCH EXISTING.
- CONNECT ALL NEW 50A PEDESTALS WITH 3#4/0 & 1#4 GND IN 2 1/2" CONDUIT.



1 ELECTRICAL RISER DIAGRAM EAST POWER PANEL
 SCALE: NONE

EAST PP SUMMARY

52 CAMPSITES	9 50A REC	43 30/20A REC	0 20A REC
120/240 SYSTEM SINGLE PHASE			
12000 VA FOR 50A REC	3600 VA FOR 30/20A REC	2400 VA FOR 20A REC	
DEMAND FACTOR OF : 41% PER NEC			
EAST POWER PANEL			
52 CAMPSITES ON 6 CIRCUITS			
9 50A REC	43 30/20A REC	0 20A REC	
108000 VA	TOTAL LOAD W/O DEMAND 50A REC	154800 VA	TOTAL LOAD W/O DEMAND 30/20A REC
0 VA	TOTAL LOAD W/O DEMAND 20A REC		
TOTAL AT MAIN BREAKER NO DEMAND			
262800 VA	1095 AMPS		
TOTAL AT BREAKER WITH DEMAND			
107748 VA	41% DEMAND FACTOR		
THEREFORE 120/240 V			
449 AMPS	SITES		
150 AMPS	OTHER LOADS		
599 AMPS	TOTAL		
TOTAL AMPS + 25%			
749	AMPS ON EXISTING 1200A SERVICE		



2 ELECTRICAL RISER DIAGRAM WEST POWER PANEL
 SCALE: NONE

WEST PP SUMMARY

50 CAMPSITES	10 50A REC	35 30/20A REC	5 20A REC
120/240 SYSTEM SINGLE PHASE			
12000 VA FOR 50A REC	3600 VA FOR 30/20A REC	2400 VA FOR 20A REC	
DEMAND FACTOR OF : 41% PER NEC			
WEST POWER PANEL			
50 CAMPSITES ON 7 CIRCUITS			
10 50A REC	35 30/20A REC	5 20A REC	
120000 VA	TOTAL LOAD W/O DEMAND 50A REC	126000 VA	TOTAL LOAD W/O DEMAND 30/20A REC
12000 VA	TOTAL LOAD W/O DEMAND 20A REC		
TOTAL AT MAIN BREAKER NO DEMAND			
258000 VA	1075 AMPS		
TOTAL AT BREAKER WITH DEMAND			
105780 VA	41% DEMAND FACTOR		
THEREFORE 120/240 V			
441 AMPS	SITES		
17 AMPS	OTHER LOADS		
458 AMPS	TOTAL		
TOTAL AMPS + 25%			
572	AMPS ON EXISTING 1200A SERVICE		

DATE:	ISSUED FOR:
2019-08-05	OWNER REVIEW
2019-08-15	OWNER REVIEW
2019-08-22	SUBMITTED TO DNR

DRAWN	SNF
CHECKED	JLS

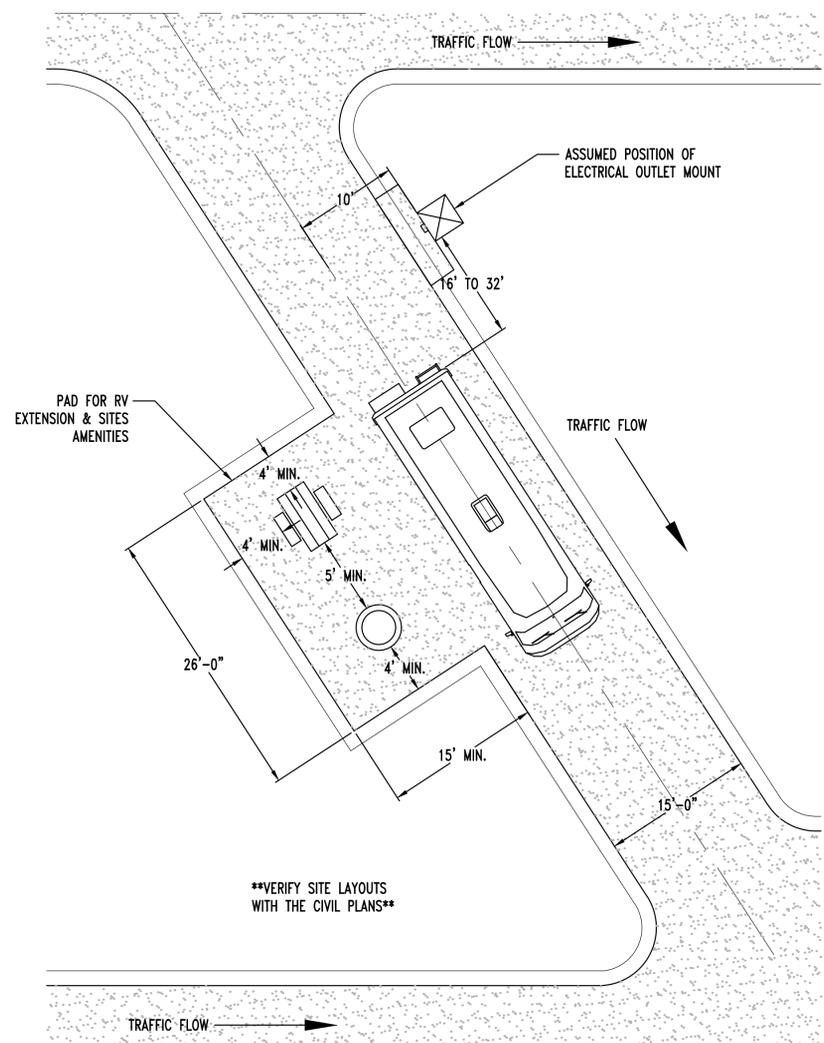
JOB NO.
RP18-0017

TITLE
**ELECTRICAL
 RISER
 DIAGRAMS**

SEAL

SHEET

E2.0



1 TYPICAL PULL-THROUGH CAMPSITE LAYOUT PLAN
 SCALE: NONE

LIMITS OF EXCAVATION

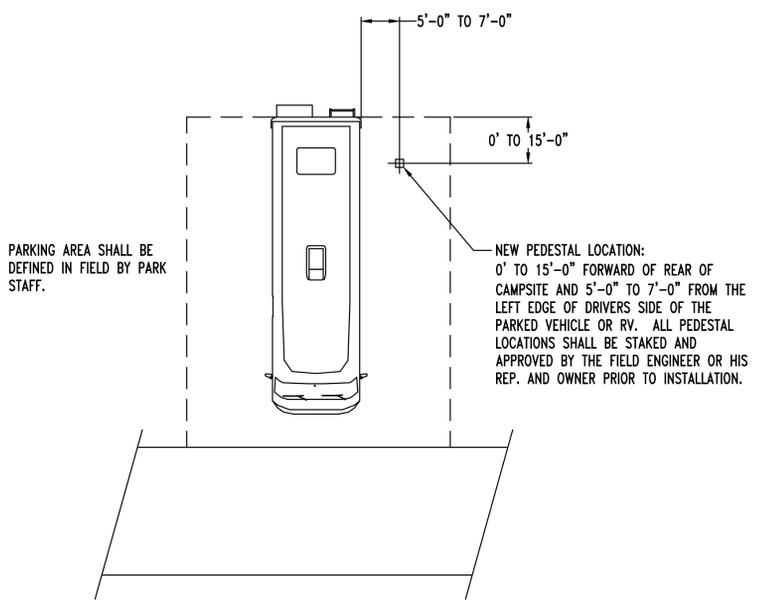
EXTREME CARE SHOULD BE TAKEN TO AVOID DAMAGE TO TREES INCLUDING SEEDLINGS AND SAPPLINGS. NO DAMAGE IS ACCEPTABLE TO EXISTING TREES WITHIN THE PARK (DEFINED AS BREAKING OF THE BARK, BROKEN TOPS OR BENDING OF TREES FROM THEIR NATURAL POSITION). ALL TREES INCURRING BARK DAMAGE SHALL BE ADDRESSED BY THE CONTRACTOR BY REMOVING THE DAMAGED BARK WITH A NEAT, CLEAN CUT TO POINT WHERE THE BARK IS UNDAMAGED. ALL BROKEN TREE LIMBS SHALL BE NEATLY TRIMMED AT A BRANCH JOINT OR AT THE TRUNK OF THE TREE. DAMAGED TREE ROOTS SHALL BE NEATLY TRIMMED PRIOR TO BACKFILL.

GENERAL CONSTRUCTION NOTES

1. LOCATION OF PEDESTAL, AS SHOWN, IS APPROXIMATE. CONTRACTOR TO WORK WITH THE PARK STAFF TO COORDINATE AND STAKE EXACT LOCATION AND ORIENTATION OF PEDESTAL IN EACH CAMPSITE PRIOR TO INSTALLATION. TYPICAL FOR ALL PEDESTALS.
2. FIRE RINGS TO BE REMOVED FROM THE SITE PRIOR TO CONSTRUCTION AND REPLACED AT NEW LOCATION BY PARK STAFF. TYPICAL FOR ALL SITES WITH AGGREGATE IMPROVEMENTS.
3. AREAS OF EXISTING AGGREGATE THAT FALL WITHIN THE PROPOSED IMPROVEMENTS MAY BE REUSED IF NO ORGANICS ARE PRESENT.
4. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FAMILIARIZE THEMSELVES WITH THE PROJECT AREA. ALL DISTURBED GRASS AREAS SHALL BE REPLACED WITH 4" TOPSOIL (SALVAGED FROM GRADING OPERATIONS, SEED, FERTILIZER AND MULCH).
5. CONTRACTOR TO STAKE OUT CAMPSITE FOR OWNER REVIEW AND APPROVAL.
6. ALL DIMENSIONS ARE APPROXIMATE, EACH SITE IS UNIQUE AND SHALL BE COORDINATED WITH THE CIVIL DWGS.
7. PICNIC TABLE AND FIRE RINGS SHALL BE MOVED BY THE OWNER.
8. RESTORE ALL WORK AREAS TO ORIGINAL STATE UPON COMPLETION OF WORK. SEE SPECIFICATIONS FOR RESTORATION.

UTILITY NOTE

CONTRACTOR TO CONTACT MISS-DIG SYSTEM FOR UTILITY STAKING. ADDITIONAL UTILITIES INCLUDE PRIVATE UTILITIES OWNED AND OPERATED BY ISABELLA COUNTY. THESE INCLUDE BUT ARE NOT LIMITED TO ELECTRIC, TELEPHONE, GAS, SEPTIC AND DRAIN FIELD, FORCE MAIN, STORM AND OTHERS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE THE EXISTING PRIVATE UTILITIES AND MAINTAIN THE INTEGRITY OF THE EXISTING UTILITIES. DAMAGE TO THE EXISTING UTILITIES SHALL BE IMMEDIATELY REPORTED TO THE UTILITY OWNER AND REPAIRED AT CONTRACTOR'S EXPENSE. EXISTING UTILITY PLANS KNOWN WILL BE REVIEWED AT THE PRE-BID MEETING AND MADE AVAILABLE TO THE SELECTED CONTRACTOR.



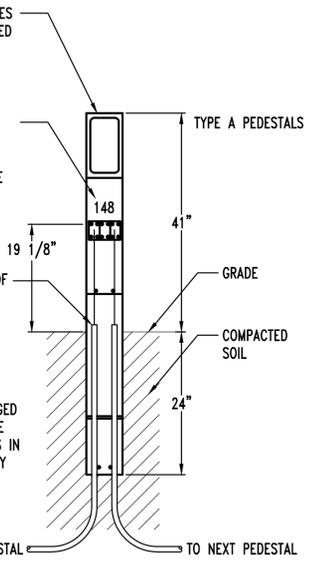
2 TYPICAL STANDARD CAMPSITE WITHOUT DEFINED STAND
 SCALE: NONE

PROVIDE PEDESTAL METERING AS PART OF ALTERNATES #1 OR #3 WITH A DIGITAL ELECTRIC METER INSTALLED IN A NEMA 3R ENCLOSURE. METERING SHALL BE PROVIDED WITH PEDESTALS FROM SQUARE D.

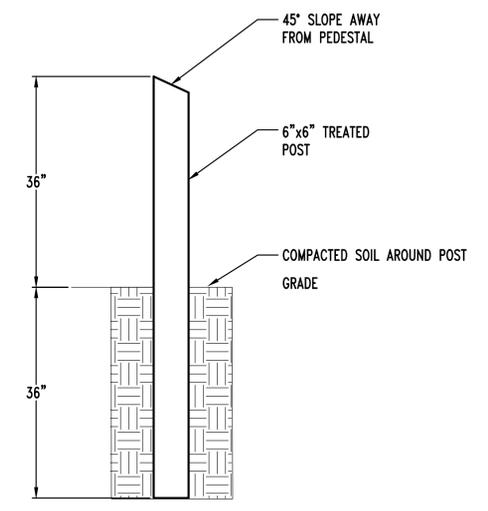
4" REFLECTIVE VINYL NUMBERS CORRESPOND TO CAMPSITE BEING SERVED. FOR ALL BACK-IN CAMPSITES, MOUNT NUMBERS ON PEDESTAL POST BELOW SERVICE COVER DOOR. NUMBERS ARE TO BE VISIBLE FROM ROAD.

EXTEND CONDUIT INTO PEDESTAL POST A MINIMUM OF 2-INCHES ABOVE GRADE.

CAUTION NOTE:
RIGID NON-METALLIC CONDUIT ELBOWS INSTALLED ON A LONG CONDUIT RUN CAN BE DAMAGED IN THE PROCESS OF PULLING THE CONDUCTORS, DUE TO FRICTION AT THE BEND. USE OF METAL ELBOWS IN COMPLIANCE WITH THE MICHIGAN ELECTRIC CODE MAY BE A VIABLE SOLUTION.



3 PEDESTAL DETAIL
 SCALE: NONE



4 EDGE PROTECTION DETAIL
 SCALE: NONE

DATE:	ISSUED FOR:
2019-08-05	OWNER REVIEW
2019-08-15	OWNER REVIEW
2019-08-22	SUBMITTED TO DNR

DRAWN	SNF
CHECKED	JLS

JOB NO.
RP18-0017

TITLE
SITE DETAILS

SEAL

SHEET

E3.0





ADDENDUM NO. 1

PROJECT: Coldwater Lake Family Park Campground Improvements Project
DNR Recreation Passport Grant #RP18-0017

OWNER: ISABELLA COUNTY

**ENGINEER /
ARCHITECT:** WILLIAM A. KIBBE & ASSOCIATES, INC.

**PROJECT
LOCATION:** 1703 N. Littlefield Rd, Weidman, MI 48893

DATE: September 19, 2019

WAK PROJECT NO. 19-2292-0125

A. INSTRUCTIONS:

1. The Construction Documents “Issued for Bid” dated August, 2019 for the above referenced project are modified as noted in this Addendum.
2. All work performed under this document shall be subject to the General Conditions of the Contract and Specifications for similar work in connection with this project.

B. CLARIFICATIONS

1. Please see attached sign-in sheet from the Mandatory pre-bid meeting held September 17, 2019.
2. A Bid Bond in the amount of 5% of the amount of the proposal is required to be turned in with the Bid. Please see 002113 – 2.

BID DEPOSITS

Each Proposal must be accompanied by a bid deposit. This shall be in the form of a certified check or bidder's bond, for a sum not less than five percent (5%) of the amount of the Proposal drawn upon some bank in good standing or issued

by a surety company authorized to do business in Michigan. This is a guarantee on the part of the bidder that he will, if called upon to do so, enter into a contract, in the attached form, to do the work covered by such Proposal at the prices stated therein and to furnish acceptable surety for its faithful and entire fulfillment. Such certified check or bidder's bond shall be made out to the Owner and shall be subject to the conditions specified in the Proposal.

3. Bond and Insurance requirements; A performance Bond, Labor and Material Bond and a Maintenance and Guarantee Bond are all required.

BONDS AND INSURANCE

The successful bidder will be required to execute three bonds with sureties acceptable to the Owner; the Performance Bond to be executed to the Owner, to be in the amount of one hundred percent (100%) of the full Contract price and to be conditioned for the faithful fulfillment of the Contract and to include the protection of the Owner from all liens and damages arising out of the work; the Labor and Material Bond to be executed to the people of the state, to be in the amount of one hundred percent (100%) of the full Contract price and to be conditioned for the payment of all labor and materials used in the work and for the protection of the Owner from all liens and damages arising therefrom; and the Maintenance and Guarantee Bond, to be in the amount of one hundred percent (100%) of the Contract price.

The Worker's Compensation Insurance, Public Liability and Property Damage Insurance and Owner's Protective Public Liability Insurance in the amounts specified in the Agreement must be carried by the Contractor.

Each Proposal shall include the premium and all other charges, if any, for the Bonds and Insurance herein described.

4. Completely remove all trees and stumps, regardless of size, within the shaded area on C2.0. The layout will govern which trees are removed. All remaining trees outside of the shaded area are to remain and be protected from damage.
5. All removed trees, 6" and larger, shall be cut into 12' lengths and salvaged for Owner. All other removed trees and branches shall be removed from the campground property.
6. New copper wiring is in conduit, old wiring was direct bury.
7. Prevailing wages rate are not applicable.
8. A and B conductors are alternating on each pedestal. This statement has nothing to do with bid alternates.

C. CHANGES TO SPECIFICATIONS

1. ADD SECTION 012200 UNIT PRICES. See attached.
2. REPLACE SECTION 004113 BID FORM. See attached.

D. CHANGES TO DRAWINGS

1. C2.0 (RE-ISSUED) New Site Layout Plan.
2. ED1.0 (RE-ISSUED) Existing Site 94 Pedestal will remain in place. See Sheet E1.0 for new site numbering.
3. E1.0 (RE-ISSUED) New Sites 93-94 added. New pull through sites renumbered 95-103. Alternate metered pedestal part number added for Square D metering.
4. E2.0 (RE-ISSUED) Site Numbering updated for new layout and the new sites add to the layout.

END OF ADDENDUM

Coldwater Lake Family Park Project Meeting
Tuesday, September 17, 2019



Name/Company Name	Phone	Email	Address
Jeremy Embrey, Gerber Construction	231 846 1450	JEREMY@GERBERCONSTRUCTIONCO.COM	415 Morse Reed City, MI 49677
Brian Cataldo, Greenscape General Contracting	989 544 2489	bwcataldo@yahoo.com	8360 W. Hudington Dr. Lake, MI 48632
Ian Derosk, North Country Contracting	231 463 9343	northcountrycontractingllc@gmail.com	P.O Box 384 Grawn, MI 49637
Giustino Pauella, J. Rauck	800 792 3822	JPauella@JRauck.com	1993 Groves Parkway, Mount Pleasant 48858
Dave Livermore, 3D Electric	989 644 8663	3Delectic@winntel.net	8060 W Airline Rd. Weidman, MI 48893
Robbin Harsh Excavating	989 386 3528	aaron@harshexcavating.com	9395 S. Clare Ave. Clare, MI 48617
Shane Brawt, Country Line Power	989 600 7808	Sbrawt@countylinepower.biz	5652 N Meridian Hope, MI 48657
Chad Dyer, Malley Construction Inc	989 772 2765	CDYER@MALLEYCON.com	1565 S. Park Place St. Mt. Pleasant, MI, 48858
Jack Bunner, C & R Electric	989 621 1191	Jack@candrelec.com	491 E. Wright Ave. Shepherd, MI, 48883
Jim Zalud, Isabella Corp	989 772 5890	jzalud@isabellacorporation.com	2201 Commerce St. Mt. Pleasant 48858
Stephen Rau, RC HENDRICK	989 781 8116	STEPHEN@RCHENDRICK.COM	2885 S Graham Rd, Saginaw, MI 48609
Corey Block, Block Electric Company	989 644 8883	bids@blockelectriccompany.com	P.O Box 63 Weidman, MI 48893
Steve Bujalski, WindeMuller	989 631 2023	SBUJALSKI@windemuller.us	3600 Centennial Dr. Midland, MI 48642
Donald Liscomb, Midstate Electric	517 204 4742	don@mid-stateelectric.com	2685 S. Isabella Rd. Mt. Pleasant, MI 48858

DOCUMENT 004113 - BID FORM - STIPULATED SUM (SINGLE-PRIME CONTRACT)

1.1 BID INFORMATION

- A. Bidder: _____.
- B. Project Name: Coldwater Lake Campground – Site Improvements.
Project Location: 1703 N. Littlefield Road, Weidman, Michigan 48893
- C. Owner: Isabella County, 200 Main Street, Mt. Pleasant, MI 48858
- D. Engineer: William A. Kibbe & Associates, Inc., 1475 S. Washington Ave., Saginaw, MI 48601

1.2 CERTIFICATIONS AND BASE BID

A. Base Bid, Single-Prime (All Trades) Contract: The undersigned Bidder, having carefully examined the Procurement and Contracting Requirements, Conditions of the Contract, Drawings, Specifications, and all subsequent Addenda, as prepared by William A. Kibbe & Assoc., Inc., having visited the site, and being familiar with all conditions and requirements of the Work, hereby agrees to furnish all material, labor, equipment and services, including all scheduled allowances, necessary to complete the construction of the above-named project, according to the requirements of the Procurement and Contracting Documents, for the stipulated sum of the following:

Tree & brush removal, including stumps (all trees and stumps, regardless of size, within shaded area on C2.0)	\$ _____
Excavation, grading and placement of MDOT 23A base for new pull-through roads and drives 95-103	\$ _____
New 50/30/20 Non-metered pedestals and new electrical from existing East Power Panel to new sites 95-103	\$ _____
Reconnect existing 30/20 pedestals at existing sites 83-94 with new wire and conduit from the existing breaker in the East Power Panel. See proposed plan for new site numbering	\$ _____
New water services to sites 83-103	\$ _____
Other miscellaneous site improvements	\$ _____
Cleanup and restoration	\$ _____
Other (describe _____)	\$ _____

Base Bid:

1. _____ Dollars (\$ _____).

ALTERNATE BID NO. 1

Provide Metered Pedestals for new sites 95-103

Alternate Bid No. 1:

2. _____ Dollars (\$_____).

ALTERNATE BID NO. 2

Provide and Install new 50/30/20 Non-metered Pedestals and new electrical from the West Power Panel to existing sites 65-67 and sites 76-82

Alternate Bid No. 2:

3. _____ Dollars (\$_____).

ALTERNATE BID NO. 3

Provide Metered Pedestals for existing sites 65-67 and 76-82

Alternate Bid No. 3:

4. _____ Dollars (\$_____).

TOTAL BID (INCLUDING BASE BID AND ALTERNATES 1-3):

_____ Dollars (\$_____).

NOTE: The Owner reserves the right to accept or reject base bid and any or none of the alternate bid options in no particular order, at their sole discretion.

1.3 SUBCONTRACTORS AND SUPPLIERS

A. The following companies shall execute subcontracts for the portions of the Work indicated:

- 1. Excavation, Site Grading and Agg. Base Placement:_____.
- 2. Electrical Services:_____.
- 3. Water Services:_____.
- 4. Tree Removal:_____.

1.4 TIME OF COMPLETION

- A. The undersigned Bidder proposes and agrees hereby to commence the Work of the Contract Documents on a date specified in a written Notice to Proceed to be issued by Engineer or Owner.

1.5 ACKNOWLEDGEMENT OF ADDENDA

- A. The undersigned Bidder acknowledges receipt of and use of the following Addenda in the preparation of this Bid:

- 1. Addendum No. 1, dated _____.
- 2. Addendum No. 2, dated _____.
- 3. Addendum No. 3, dated _____.
- 4. Addendum No. 4, dated _____.

1.6 CONTRACTOR'S LICENSE

- A. The undersigned further states that it is a duly licensed contractor, for the type of work proposed, in the State of Michigan and that all fees, permits, etc., pursuant to submitting this proposal have been paid in full.

1.7 SUBMISSION OF BID

- A. Respectfully submitted this ____ day of _____, 2019.
- B. Submitted By: _____ (Name of bidding firm or corporation).
- C. Authorized Signature: _____ (Handwritten signature).
- D. Signed By: _____ (Type or print name).
- E. Title: _____ (Owner/Partner/President/Vice President).
- F. Witness By: _____ (Handwritten signature).
- G. Attest: _____ (Handwritten signature).
- H. By: _____ (Type or print name).
- I. Title: _____ (Corporate Secretary or Assistant Secretary).
- J. Street Address: _____.
- K. City, State, Zip: _____.

L. Phone: _____.

M. License No.: _____.

N. Federal ID No.: _____ (Affix Corporate Seal Here).

END OF DOCUMENT 004113

SECTION 012200 - UNIT PRICES

PART 1 - GENERAL

1.1 SUMMARY

- A. Unit price is a price per unit of measure for materials or services added to or deducted from the Contract Sum by appropriate modification, if estimated quantities of Work required by the Contract Documents are increased or decreased.
- B. Unit prices include all necessary material, plus cost for delivery, installation, insurance, overhead, and profit.

1.2 PRODUCTS (Not Used)

1.3 EXECUTION

- A. List of Unit Prices: Specification Sections referenced below contain requirements for materials described under each unit price.

B. Unit Price No:

1. Description

a. Completely remove existing Tree
 12” to 18” Dia. Per Each
 (OUTSIDE OF SHADED GRAVEL AREA
 AS APPROVED BY OWNER) ADD \$_____

b. Completely remove existing Tree
 18” to 24” Dia. Per Each
 (OUTSIDE OF SHADED GRAVEL AREA
 AS APPROVED BY OWNER) ADD \$_____

c. Completely remove existing Tree
 24” Dia. And greater Per Each
 (OUTSIDE OF SHADED GRAVEL AREA)
 AS APPROVED BY OWNER) ADD \$_____

2. Unit of Measurement: As Noted.

3. Contract is to state the selling price each for the components listed above. This completed form is to be included with the contractor’s quotation.

END OF SECTION 012200

**SITE IMPROVEMENTS FOR
COLDWATER LAKE CAMPGROUND**
ISABELLA COUNTY PARKS AND RECREATION
ISABELLA COUNTY, MICHIGAN



DATE:	ISSUED FOR:
2019-08-05	OWNER REVIEW
2019-08-15	OWNER REVIEW
2019-08-22	SUBMITTED TO DNR
2019-09-19	ADDENDUM #1

DRAWN	SNF
CHECKED	JLS

JOB NO.
RP18-0017

TITLE
**ELECTRICAL
SITE PLAN
DEMOLITION**

SEAL

SHEET
ED1.0



PEDESTAL LEGEND

⊙ - ELECTRIC PEDESTAL - 30/20 120V. PHASE A AND B CONDUCTORS ARE ALTERNATING ON EACH PEDESTAL.

KEYED DEMOLITION NOTES:

- ① DISCONNECT AND REMOVE PEDESTAL AND WIRE BACK TO PANEL OR THE NEXT PEDESTAL FEEDING POWER. SALVAGE ALL PEDESTALS TO OWNER.
- ② DISCONNECT CONDUCTORS TO NEXT PEDESTAL.
- ③ DISCONNECT INCOMING POWER FROM PEDESTAL 96. SEE PROPOSED FOR NEW POWER FEED FROM EPP.
- ④ NOT USED

ELECTRICAL DEMOLITION SITE PLAN
SCALE: 1" = 30'



DATE:	ISSUED FOR:
2019-08-05	OWNER REVIEW
2019-08-15	OWNER REVIEW
2019-08-22	SUBMITTED TO DNR
2019-09-19	ADDENDUM #1

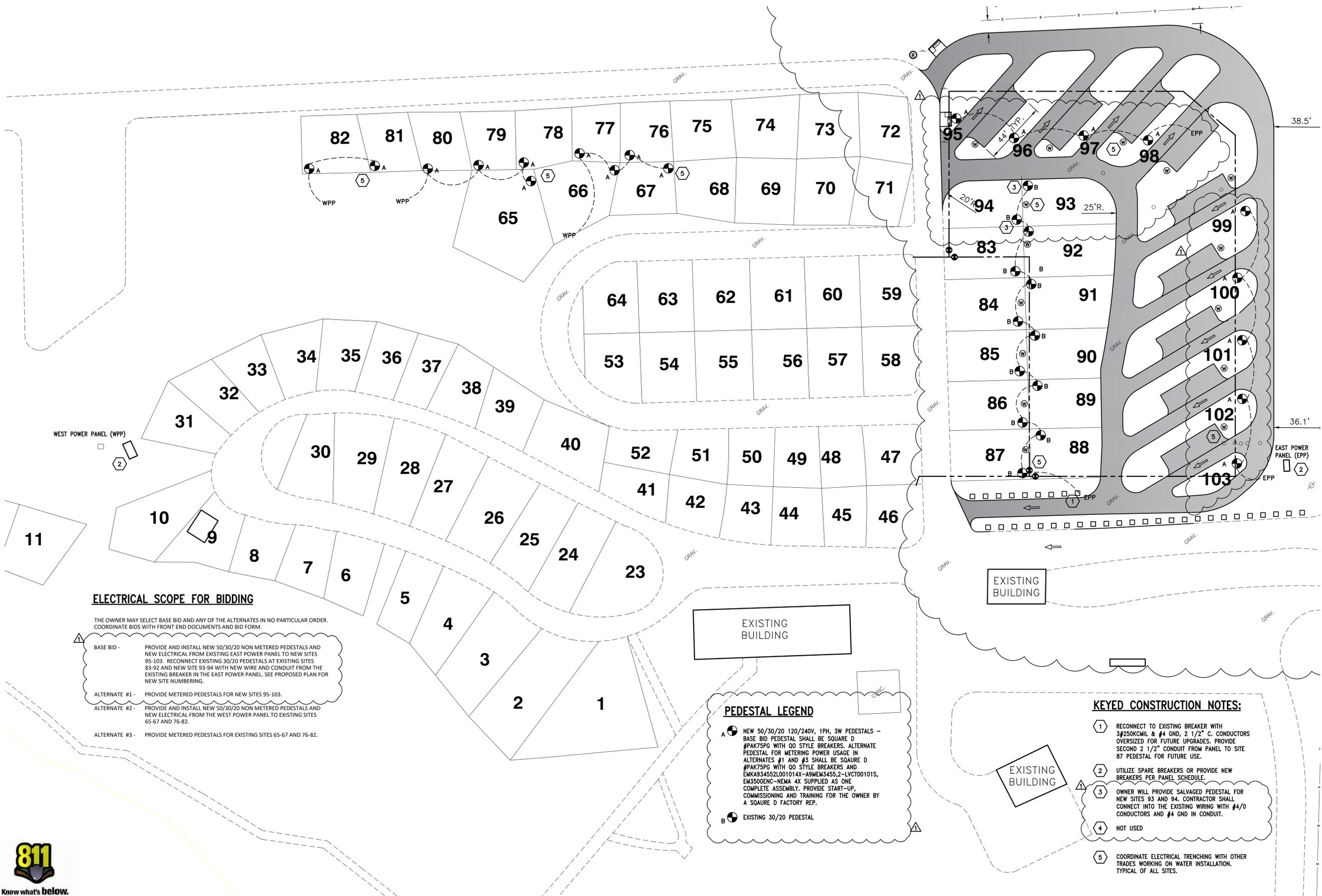
DRAWN: SNF
CHECKED: JLS

JOB NO.
RP18-0017

TITLE
**ELECTRICAL
SITE PLAN -
NEW**

SEAL

SHEET



ELECTRICAL SCOPE FOR BIDDING

THE OWNER MAY SELECT BASE BID AND ANY OF THE ALTERNATES IN NO PARTICULAR ORDER. COORDINATE BIDS WITH FRONT END DOCUMENTS AND BID FORM.

- BASE BID - PROVIDE AND INSTALL NEW 50/30/20 NON METERED PEDESTALS AND NEW ELECTRICAL FROM EXISTING EAST POWER PANEL TO NEW SITES 95-103. RECONNECT EXISTING 30/20 PEDESTALS AT EXISTING SITES 83-92 AND NEW SITE 93-94 WITH NEW WIRE AND CONDUIT FROM THE EXISTING BREAKER IN THE EAST POWER PANEL. SEE PROPOSED PLAN FOR NEW SITE NUMBERING.
- ALTERNATE #1 - PROVIDE METERED PEDESTALS FOR NEW SITES 95-103.
- ALTERNATE #2 - PROVIDE AND INSTALL NEW 50/30/20 NON METERED PEDESTALS AND NEW ELECTRICAL FROM THE WEST POWER PANEL TO EXISTING SITES 65-67 AND 76-82.
- ALTERNATE #3 - PROVIDE METERED PEDESTALS FOR EXISTING SITES 65-67 AND 76-82.

PEDESTAL LEGEND

- A  NEW 50/30/20 120/240V, 1PH, 3W PEDESTALS - BASE BID PEDESTAL SHALL BE SQUARE D #PAK75PG WITH QO STYLE BREAKERS. ALTERNATE PEDESTAL FOR METERING POWER USAGE IN ALTERNATES #1 AND #3 SHALL BE SQUARE D #PAK75PG WITH QO STYLE BREAKERS AND EMKAS3452L001014X-89MEN345.2-LVCT00101S, EM3500ENC-NEMA 4X SUPPLIED AS ONE COMPLETE ASSEMBLY. PROVIDE START-UP, COMMISSIONING AND TRAINING FOR THE OWNER BY A SQUARE D FACTORY REP.
- B  EXISTING 30/20 PEDESTAL

KEYED CONSTRUCTION NOTES:

- 1 RECONNECT TO EXISTING BREAKER WITH 3#250KCMIL & #4 GND, 2 1/2" C. CONDUCTORS OVERSIZED FOR FUTURE UPGRADES. PROVIDE SECOND 2 1/2" CONDUIT FROM PANEL TO SITE 87 PEDESTAL FOR FUTURE USE.
- 2 UTILIZE SPARE BREAKERS OR PROVIDE NEW BREAKERS PER PANEL SCHEDULE.
- 3 OWNER WILL PROVIDE SALVAGED PEDESTAL FOR NEW SITES 93 AND 94. CONTRACTOR SHALL CONNECT INTO THE EXISTING WIRING WITH #4/0 CONDUCTORS AND #4 GND IN CONDUIT.
- 4 NOT USED
- 5 COORDINATE ELECTRICAL TRENCHING WITH OTHER TRADES WORKING ON WATER INSTALLATION. TYPICAL OF ALL SITES.

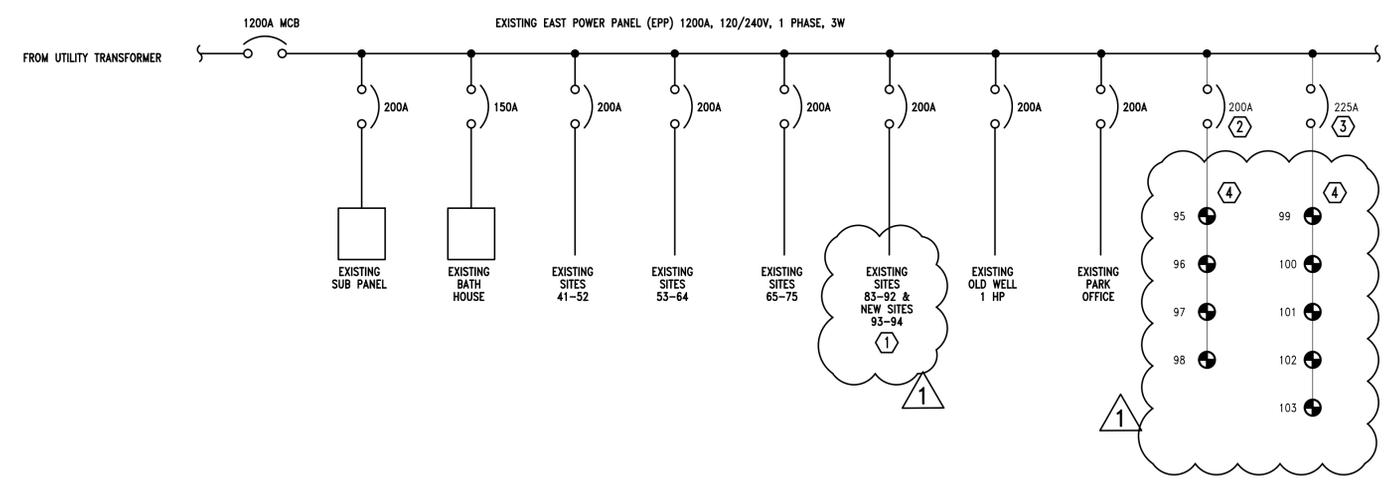


GENERAL NOTES:

1. ENGRAVED NAMEPLATES (WHITE PHENOLIC WITH BLACK LETTERS) SHALL BE FURNISHED AND INSTALLED ON ALL ELECTRICAL EQUIPMENT BY THE ELECTRICAL CONTRACTOR. LETTER SIZES: 1/4" FOR ALL ELECTRICAL EQUIPMENT.
2. PROVIDE PLAQUES TO INDICATE THE PRESENCE OF MULTIPLE SERVICES AND DISCONNECTING MEANS.
3. PROVIDE MINIMUM OF 36" GROUND COVER ABOVE, UNDER GROUND CONDUIT INSTALLATIONS.
4. PROVIDE SCHEDULE 40 PVC OR HDPE WITH SCHEDULE 80 PVC ELBOWS IN ALL BELOW GRADE CONDUIT INSTALLATIONS. PROVIDE INTERMEDIATE OR RIGID METAL CONDUIT (IMC, RMC) IN ALL ABOVE GRADE EXPOSED LOCATIONS.
5. RESTORE ALL WORK AREAS TO ORIGINAL STATE UPON COMPLETION OF WORK. SEE SPECIFICATIONS FOR RESTORATION.
6. PROVIDE BREAKER LUG KITS AS REQUIRED TO ACCEPT CONDUCTORS NOTED.
7. AFTER FULL INSTALLATION OF PEDESTALS, ALL 30A AND 20A BREAKERS SHALL BE ALTERNATED ON PHASES TO NOT HAVE THE 30A RECEPTACLES ALL ON PHASE A.
8. CONDUCTORS SHALL BE STRANDED COPPER WITH THWN INSULATION RATED FOR UNDERGROUND INSTALLATION IN CONDUIT. WET LOCATION

KEYED NOTES:

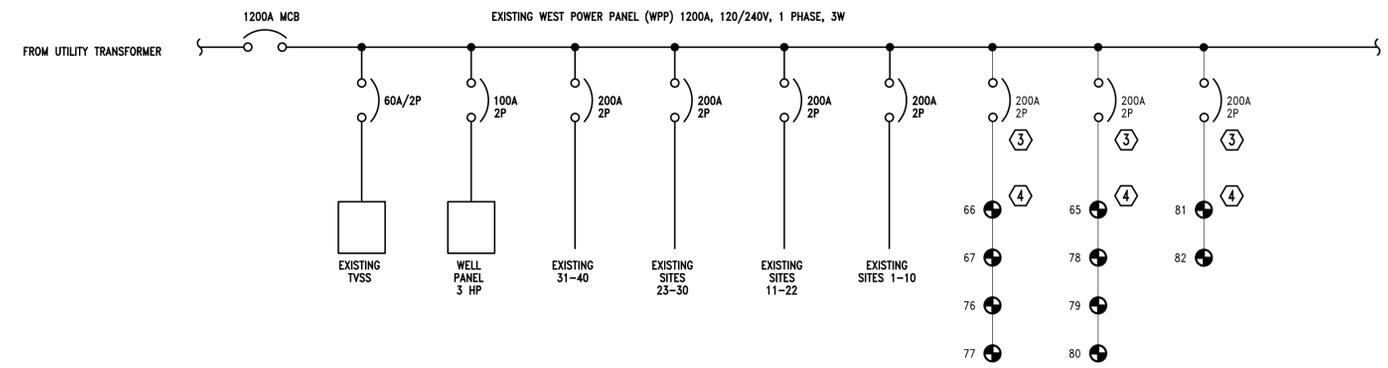
1. EXISTING SITES TO BE RE-FED FROM EXISTING BREAKER. SEE PROPOSED PLAN FOR CONNECTION DETAILS AND THE NEW SITE LOCATIONS. ALTERNATE PHASE CONDUCTORS SIMILAR TO THE EXISTING INSTALLATION.
2. UTILIZE EXISTING SPARE FOR NEW SITES.
3. NEW SQUARE-D BREAKER FOR EXISTING I-LINE PANELBOARD TO MATCH EXISTING.
4. CONNECT ALL NEW 50A PEDESTALS WITH 3#4/0 & 1#4 GND IN 2 1/2" CONDUIT.



1 ELECTRICAL RISER DIAGRAM EAST POWER PANEL
SCALE: NONE

EAST PP SUMMARY

53 CAMPSITES	9 50A REC	44 30/20A REC	0 20A REC
120/240 SYSTEM SINGLE PHASE			
12000 VA FOR 50A REC	3600 VA FOR 30/20A REC	2400 VA FOR 20A REC	
DEMAND FACTOR OF : 41% PER NEC			
EAST POWER PANEL			
53 CAMPSITES ON 6 CIRCUITS	9 50A REC	44 30/20A REC	0 20A REC
108000 VA	TOTAL LOAD W/O DEMAND 50A REC	158400 VA	TOTAL LOAD W/O DEMAND 30/20A REC
		0 VA	TOTAL LOAD W/O DEMAND 20A REC
TOTAL AT MAIN BREAKER NO DEMAND			
266400 VA			1110 AMPS
TOTAL AT BREAKER WITH DEMAND			
109224 VA			41% DEMAND FACTOR
THEREFORE 120/240 V			
455 AMPS	SITES	150 AMPS	OTHER LOADS
605 AMPS	TOTAL		
TOTAL AMPS + 25%			
756	AMPS ON EXISTING 1200A SERVICE		



2 ELECTRICAL RISER DIAGRAM WEST POWER PANEL
SCALE: NONE

WEST PP SUMMARY

50 CAMPSITES	10 50A REC	35 30/20A REC	5 20A REC
120/240 SYSTEM SINGLE PHASE			
12000 VA FOR 50A REC	3600 VA FOR 30/20A REC	2400 VA FOR 20A REC	
DEMAND FACTOR OF : 41% PER NEC			
WEST POWER PANEL			
50 CAMPSITES ON 7 CIRCUITS	10 50A REC	35 30/20A REC	5 20A REC
120000 VA	TOTAL LOAD W/O DEMAND 50A REC	126000 VA	TOTAL LOAD W/O DEMAND 30/20A REC
		12000 VA	TOTAL LOAD W/O DEMAND 20A REC
TOTAL AT MAIN BREAKER NO DEMAND			
258000 VA			1075 AMPS
TOTAL AT BREAKER WITH DEMAND			
105780 VA			41% DEMAND FACTOR
THEREFORE 120/240 V			
441 AMPS	SITES	17 AMPS	OTHER LOADS
458 AMPS	TOTAL		
TOTAL AMPS + 25%			
572	AMPS ON EXISTING 1200A SERVICE		

DATE:	ISSUED FOR:
2019-08-05	OWNER REVIEW
2019-08-15	OWNER REVIEW
2019-08-22	SUBMITTED TO DNR
2019-09-19	ADDENDUM #1

DRAWN	SNF
CHECKED	JLS

JOB NO.
RP18-0017

TITLE
**ELECTRICAL
RISER
DIAGRAMS**

SEAL



ADDENDUM NO. 2

PROJECT: Coldwater Lake Family Park Campground Improvements Project
DNR Recreation Passport Grant #RP18-0017

OWNER: ISABELLA COUNTY

**ENGINEER /
ARCHITECT:** WILLIAM A. KIBBE & ASSOCIATES, INC.

**PROJECT
LOCATION:** 1703 N. Littlefield Rd, Weidman, MI 48893

DATE: September 24, 2019

WAK PROJECT NO. 19-2292-0125

A. INSTRUCTIONS:

1. The Construction Documents "Issued for Bid" dated August, 2019 for the above referenced project are modified as noted in this Addendum.
2. All work performed under this document shall be subject to the General Conditions of the Contract and Specifications for similar work in connection with this project.

B. CLARIFICATIONS

1. N/A.

C. CHANGES TO SPECIFICATIONS

1. N/A.

D. CHANGES TO DRAWINGS

1. C2.0 (RE-ISSUED) New Site Layout Plan to match detail 1/E3.0.
2. E1.0 (RE-ISSUED) New Site Layout Plan to match detail 1/E3.0.

END OF ADDENDUM

DATE:	ISSUED FOR:
2019-08-05	OWNER REVIEW
2019-08-15	OWNER REVIEW
2019-08-22	SUBMITTED TO DNR
2019-09-19	ADDENDUM #1
2019-09-24	ADDENDUM #2

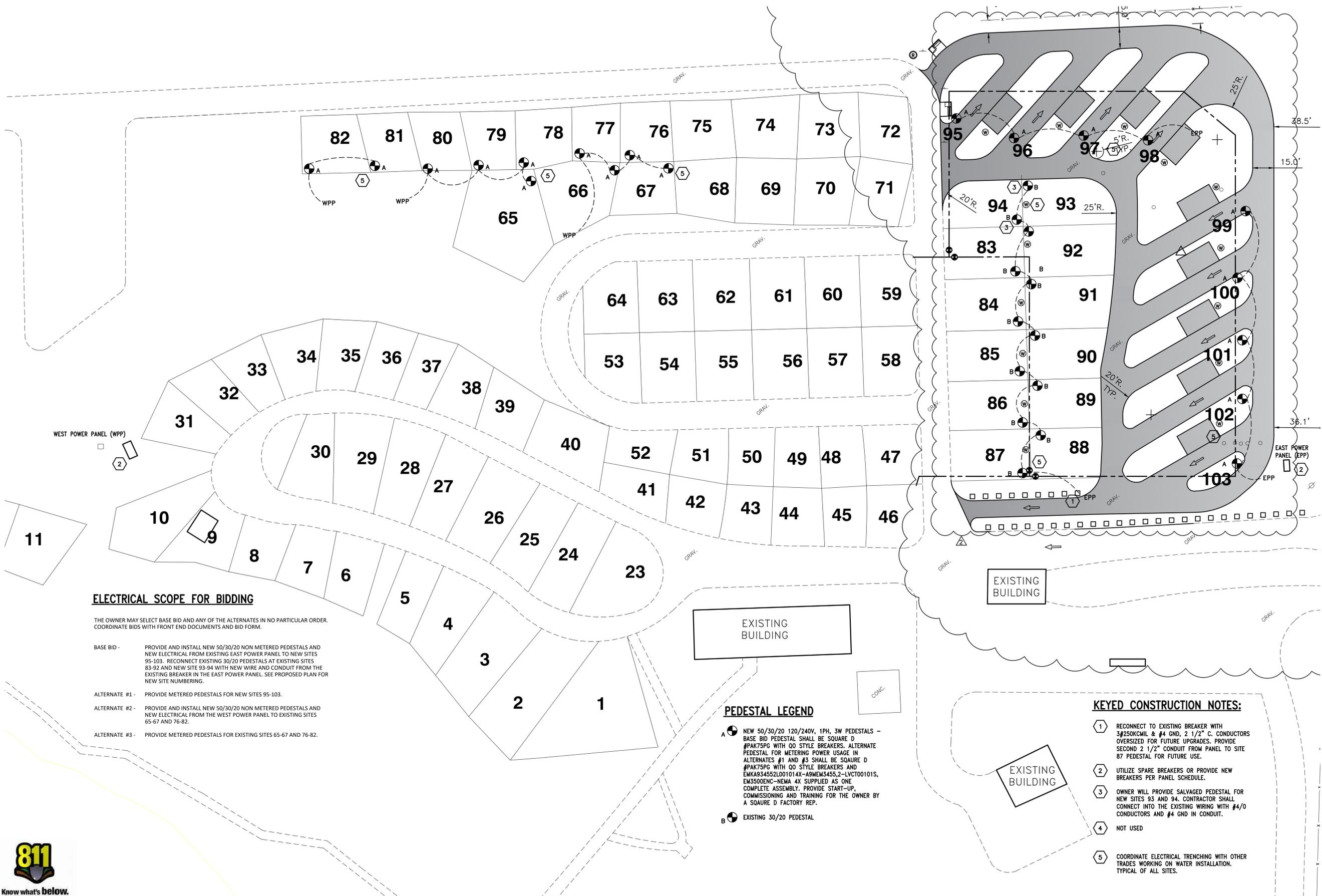
DRAWN	SNF
CHECKED	JLS

JOB NO.
RP18-0017

TITLE
**ELECTRICAL
SITE PLAN -
NEW**

SEAL

SHEET



ELECTRICAL SCOPE FOR BIDDING

THE OWNER MAY SELECT BASE BID AND ANY OF THE ALTERNATES IN NO PARTICULAR ORDER. COORDINATE BIDS WITH FRONT END DOCUMENTS AND BID FORM.

BASE BID - PROVIDE AND INSTALL NEW 50/30/20 NON METERED PEDESTALS AND NEW ELECTRICAL FROM EXISTING EAST POWER PANEL TO NEW SITES 95-103. RECONNECT EXISTING 30/20 PEDESTALS AT EXISTING SITES 83-92 AND NEW SITE 93-94 WITH NEW WIRE AND CONDUIT FROM THE EXISTING BREAKER IN THE EAST POWER PANEL. SEE PROPOSED PLAN FOR NEW SITE NUMBERING.

ALTERNATE #1 - PROVIDE METERED PEDESTALS FOR NEW SITES 95-103.

ALTERNATE #2 - PROVIDE AND INSTALL NEW 50/30/20 NON METERED PEDESTALS AND NEW ELECTRICAL FROM THE WEST POWER PANEL TO EXISTING SITES 65-67 AND 76-82.

ALTERNATE #3 - PROVIDE METERED PEDESTALS FOR EXISTING SITES 65-67 AND 76-82.

PEDESTAL LEGEND

- A  NEW 50/30/20 120/240V, 1PH, 3W PEDESTALS - BASE BID PEDESTAL SHALL BE SQUARE D #PAK75PG WITH QO STYLE BREAKERS. ALTERNATE PEDESTAL FOR METERING POWER USAGE IN ALTERNATES #1 AND #3 SHALL BE SQUARE D #PAK75PG WITH QO STYLE BREAKERS AND EMKAS3452L001014X-AS9M3455.2-LVCT00101S, EM3500ENC-NEMA 4X SUPPLIED AS ONE COMPLETE ASSEMBLY. PROVIDE START-UP, COMMISSIONING AND TRAINING FOR THE OWNER BY A SQUARE D FACTORY REP.
- B  EXISTING 30/20 PEDESTAL

KEYED CONSTRUCTION NOTES:

- 1  RECONNECT TO EXISTING BREAKER WITH 3#250KCMIL & #4 GND, 2 1/2" C. CONDUCTORS OVERSIZED FOR FUTURE UPGRADES. PROVIDE SECOND 2 1/2" CONDUIT FROM PANEL TO SITE 87 PEDESTAL FOR FUTURE USE.
- 2  UTILIZE SPARE BREAKERS OR PROVIDE NEW BREAKERS PER PANEL SCHEDULE.
- 3  OWNER WILL PROVIDE SALVAGED PEDESTAL FOR NEW SITES 93 AND 94. CONTRACTOR SHALL CONNECT INTO THE EXISTING WIRING WITH #4/0 CONDUCTORS AND #4 GND IN CONDUIT.
- 4  NOT USED
- 5  COORDINATE ELECTRICAL TRENCHING WITH OTHER TRADES WORKING ON WATER INSTALLATION. TYPICAL OF ALL SITES.



DOCUMENT 004113 - BID FORM - STIPULATED SUM (SINGLE-PRIME CONTRACT)

1.1 BID INFORMATION

- A. Bidder: Malley Construction, Inc.
- B. Project Name: Coldwater Lake Campground – Site Improvements.
Project Location: 1703 N. Littlefield Road, Weidman, Michigan 48893
- C. Owner: Isabella County, 200 Main Street, Mt. Pleasant, MI 48858
- D. Engineer: William A. Kibbe & Associates, Inc., 1475 S. Washington Ave., Saginaw, MI 48601

1.2 CERTIFICATIONS AND BASE BID

- A. Base Bid, Single-Prime (All Trades) Contract: The undersigned Bidder, having carefully examined the Procurement and Contracting Requirements, Conditions of the Contract, Drawings, Specifications, and all subsequent Addenda, as prepared by William A. Kibbe & Assoc., Inc., having visited the site, and being familiar with all conditions and requirements of the Work, hereby agrees to furnish all material, labor, equipment and services, including all scheduled allowances, necessary to complete the construction of the above-named project, according to the requirements of the Procurement and Contracting Documents, for the stipulated sum of the following:

Tree & brush removal, including stumps (all trees and stumps, regardless of size, within shaded area on C2.0)	<u>\$ 11,000.00</u>
Excavation, grading and placement of MDOT 23A base for new pull-through roads and drives 95-103	<u>\$ 31,000.00</u>
New 50/30/20 Non-metered pedestals and new electrical from existing East Power Panel to new sites 95-103	<u>\$ 24,574.00</u>
Reconnect existing 30/20 pedestals at existing sites 83-94 with new wire and conduit from the existing breaker in the East Power Panel. See proposed plan for new site numbering	<u>\$ 24,574.00</u>
New water services to sites 83-103	<u>\$ 31,000.00</u>
Other miscellaneous site improvements	<u>\$ 13,000.00</u>
Cleanup and restoration	<u>\$ 5,000.00</u>
Other (describe <u>MOB., GEN. CONDITIONS</u>)	<u>\$ 4,300.00</u>

Base Bid:

- 1. ONE HUNDRED FORTY-FOUR THOUSAND FOUR HUNDRED FORTY-EIGHT Dollars (\$144,448.00).

ALTERNATE BID NO. 1

Provide Metered Pedestals for new sites 95-103

Alternate Bid No. 1:

2. ELEVEN THOUSAND EIGHT HUNDRED Dollars (\$ 11,800.00).

ALTERNATE BID NO. 2

Provide and Install new 50/30/20 Non-metered Pedestals and new electrical from the West Power Panel to existing sites 65-67 and sites 76-82

Alternate Bid No. 2:

3. FIFTY-TWO THOUSAND FOUR HUNDRED Dollars (\$ 52,400.00).

ALTERNATE BID NO. 3

Provide Metered Pedestals for existing sites 65-67 and 76-82

Alternate Bid No. 3:

4. TWELVE THOUSAND SEVEN HUNDRED Dollars (\$ 12,700.00).

TOTAL BID (INCLUDING BASE BID AND ALTERNATES 1-3):

TWO HUNDRED TWENTY-ONE THOUSAND
THREE HUNDRED FORTY-EIGHT Dollars (\$ 221,348.00).

NOTE: The Owner reserves the right to accept or reject base bid and any or none of the alternate bid options in no particular order, at their sole discretion.

1.3 SUBCONTRACTORS AND SUPPLIERS

A. The following companies shall execute subcontracts for the portions of the Work indicated:

- 1. Excavation, Site Grading and Agg. Base Placement: N/A
- 2. Electrical Services: C & R ELECTRIC
- 3. Water Services: N/A
- 4. Tree Removal: N/A

1.4 TIME OF COMPLETION

- A. The undersigned Bidder proposes and agrees hereby to commence the Work of the Contract Documents on a date specified in a written Notice to Proceed to be issued by Engineer or Owner.

1.5 ACKNOWLEDGEMENT OF ADDENDA

- A. The undersigned Bidder acknowledges receipt of and use of the following Addenda in the preparation of this Bid:
 1. Addendum No. 1, dated SEPT. 19, 2019.
 2. Addendum No. 2, dated SEPT. 24, 2019.
 3. Addendum No. 3, dated _____.
 4. Addendum No. 4, dated _____.

1.6 CONTRACTOR'S LICENSE

- A. The undersigned further states that it is a duly licensed contractor, for the type of work proposed, in the State of Michigan and that all fees, permits, etc., pursuant to submitting this proposal have been paid in full.

1.7 SUBMISSION OF BID

- A. Respectfully submitted this 30th day of SEPT., 2019.
- B. Submitted By: MALLEY CONSTRUCTION, INC. (Name of bidding firm or corporation).
- C. Authorized Signature: [Signature] (Handwritten signature).
- D. Signed By: BRAD MALLEY (Type or print name).
- E. Title: PRESIDENT (Owner/Partner/President/Vice President).
- F. Witness By: [Signature] (Handwritten signature).
- G. Attest: [Signature] (Handwritten signature).
- H. By: JACOB MALLEY (Type or print name).
- I. Title: MANAGER (Corporate Secretary or Assistant Secretary).
- J. Street Address: 1565 S. PARK PLACE ST.
- K. City, State, Zip: MT. PLEASANT, MI, 48858.

L. Phone: (989) 772-2765

M. License No.: 2102181333

N. Federal ID No.: 20-3975960 (Affix Corporate Seal Here).

END OF DOCUMENT 004113

SECTION 012200 - UNIT PRICES

PART 1 - GENERAL

1.1 SUMMARY

- A. Unit price is a price per unit of measure for materials or services added to or deducted from the Contract Sum by appropriate modification, if estimated quantities of Work required by the Contract Documents are increased or decreased.
- B. Unit prices include all necessary material, plus cost for delivery, installation, insurance, overhead, and profit.

1.2 PRODUCTS (Not Used)

1.3 EXECUTION

- A. List of Unit Prices: Specification Sections referenced below contain requirements for materials described under each unit price.
- B. Unit Price No:

1. Description

- a. Completely remove existing Tree
12" to 18" Dia. Per Each
(OUTSIDE OF SHADED GRAVEL AREA
AS APPROVED BY OWNER) ADD \$ 500.00
- b. Completely remove existing Tree
18" to 24" Dia. Per Each
(OUTSIDE OF SHADED GRAVEL AREA
AS APPROVED BY OWNER) ADD \$ 1,000.00
- c. Completely remove existing Tree
24" Dia. And greater Per Each
(OUTSIDE OF SHADED GRAVEL AREA)
AS APPROVED BY OWNER) ADD \$ 1,500.00

- 2. Unit of Measurement: As Noted.
- 3. Contract is to state the selling price each for the components listed above. This completed form is to be included with the contractor's quotation.

END OF SECTION 012200