

**Collier County Utilities,
Tamiami Well 18 Generator Replacement**

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SECTION 01110
SUMMARY OF THE WORK

PART 1 GENERAL

1.01 Section Includes

Summary of work, other contracts, work sequence, operation of existing facilities, use of premises, Owner furnished products, coordination, cutting and patching

1.02 Summary of Work

The Project consists of replacing a 250 KW genset and associated infrastructure as illustrated in the plans. The plans provide for 2 options as to equipment removal/ installation ingress and egress opportunities. The bid form is structured such that the contractor shall provide an entry for line item 5A, B or C depending upon how the contractor perceives the most economical means and methods are to accomplish the project intent. Line item 5C provides an alternative to those options indicated on the plans for the contractor to provide his own option based upon experience with similar type projects. If the contractor submits a bid value under line item 5C, a detailed description of the contractor's proposed means and methods shall accompany the contractor's bid for evaluation by the Owner. It is not the intent of these plans and specifications to show every minor detail of construction. The contractor is expected to furnish and install all items necessary for a complete genset replacement and provide all requirements necessary for the equipment to be placed in working order. All building and site modifications necessary to complete the project shall be completed to pre-existing or newer conditions.

1.03 Works Under Other Contracts N/A

1.04 Work Sequence

The Contractor's sequence of work may be of his choosing in order to complete the work in the allowed time frame while accommodating other contractors on site. The standard work hours shall be from 7am to 4pm, Monday through Friday unless otherwise approved by the Owner.

1.05 Not used.

1.06 Contractor Use of Premises

Confine operations at the site to areas permitted by applicable laws, ordinances, permits, and by the Contract Documents. Do not unreasonably encumber the site with materials or equipment. Do not load structures with weight that will endanger the structure. The Contractor shall assume full responsibility for protection and safekeeping of products stored on the job site.

1.07 Owner Furnished Products N/A

1.08 Coordination

The Contractor shall be fully responsible for the coordination and safety of his work and the work of his employees, subcontractors, and suppliers and to assure compliance with schedules.

A. The coordination requirements of this Section are in addition to the requirements of

the General Conditions, and Special Conditions.

- B. It is the Contractor's responsibility to coordinate with all the utilities regarding locates, testing, or relocations.

PART 2 PRODUCTS - Not Used

PART 3 EXECUTION- Not Used

END OF SECTION

SECTION 01270

MEASUREMENT AND PAYMENT- LUMP SUM CONTRACTS

PART1 GENERAL

1.01 Section Includes

Measurement and payment provisions, schedule of values

1.02 General Measurement and Payment Provisions

- A. Payment for all work done in compliance with the Agreement, inclusive of furnishing all manpower, equipment, materials, and performance of all operations relative to construction of this project, will be made by progress payments based on the percentage of work completed in accordance with the approved schedule of values.
- B. The Owner reserves the right to alter the Drawings, modify incidental work as may be necessary, and increase or decrease the work to be performed to accord with such changes, including deductions or additions to the scope of work outlined in the Contract Documents. Changes in the work shall not be considered as a waiver of any conditions of the Contract nor invalidate any provisions thereof. Changes resulting in changes in the scope or quantities of Work or time or other conditions of work will be basis for consideration of a Change Order which is to be negotiated and executed before proceeding with the work. A supplemental agreement between the Contractor and the Owner will be required when such changes meet the conditions described in the Supplementary Conditions. Work which has not been authorized by a written Change Order will not be subsequently considered for additional payment.
- C. The Contractor shall take no advantage of any apparent error or omission in the Drawings or Specifications, and the Engineer shall be permitted to make corrections and interpretations as may be deemed necessary for fulfillment of the intent of the Contract Documents.
- D. If the Contractor makes a claim for an extra or additional cost and requests a Change Order be issued prior to performing the work, and the ENGINEER and/or OWNER renders a decision denying such request, the CONTRACTOR must notify the Engineer in writing within 3 days of the time that the CONTRACTOR is informed of the Engineer's decision. Otherwise the Owner will not consider any such difference as a claim for a Change Order or additional payment or time. Any such written notice received by the Engineer from the Contractor within the 3-day period shall be just reason for the Engineer to re-evaluate his previous decision.
- E. Failure on the part of the Contractor to construct any item to plan or authorized dimensions within the specification tolerances shall result in: reconstruction to acceptable tolerances at no additional cost to the Owner.
- F. Owner; acceptance at no pay; or, acceptance at reduced price, all at the discretion of the County with recommendation by the Engineer.
- G. Work shall not be considered complete until all testing has been satisfactorily completed and the item of work has demonstrated compliance with plans and specifications.

- H. A preliminary monthly application for payment shall be submitted to the Owner/Engineer for review five (5) days prior to the submittal for approval of the Contractor's monthly payment request.

1.03 Schedule of Values

The Schedule of Values shall be the basis for making payment applications and establishing prices for Change Orders. The County will not accept adjustments to the schedule of values unless there is an error on the plans or an unknowable condition in the field.

Item No.1 — Shop Drawings, Permits & Mobilization:

Preparatory work and operations in mobilizing for beginning work on the Project, including, but not limited to, those operations necessary for the movement of personnel, equipment, supplies and incidentals to the project site, including permits and fees, and any other preconstruction expense necessary for the start of work, including construction schedule, preconstruction video and photographs, shop drawings, work associated with contractor support during Owner/engineer testing, reviews, and inspection, re-inspection and any rework resulting from same. Also included are temporary utilities/facilities, survey and layout safety equipment and all other items not specifically identified under other bid items which are necessary for the construction. Also included is compliance with administrative and regulatory requirements, provision of record drawings and closeout documents, demobilization, cleanup, removal of equipment, materials, supplies, and incidentals from the project site.

Item #2- Electrical/Mechanical Demolition:

This item includes all equipment, labor, and appurtenances to remove the existing generator set and make all preparations needed prior to start of installation of new generator set. This includes removal of tank if item 5A is selected and removal of well piping systems if item 5B is selected, electrical demo needed to remove the existing genset (and tank), removal of the exhaust duct work, exhaust piping and selected louver system.

Item #3- Tank Cleaning and Testing:

This item includes all equipment, labor, and materials necessary for a fully tested and cleaned fuel tank as specified on the drawings and in the Diesel Generator section of the specifications. Tank cleaning and testing shall be accomplished prior to removal of the tank in item 5A and prior to installation of the new generator system.

Item #4- Generator Package Purchase:

This item includes all labor, materials and equipment to purchase and deliver the new generator to the site. This item includes checkout, testing and startup of the new unit by the genset vendor.

Item #5A- Generator Installation through Exhaust Louver (E1):

Where selected by the contractor: This item includes all labor, materials and equipment to install the new generator as indicated on drawing sheet E1 through the exhaust louver.

Item #5B- Generator Installation through Intake Louver (E2):

Where selected by the contractor: This item includes all labor, materials and equipment to install the new generator as indicated on drawing sheet E2 through the Intake louver.

Item #5C- Generator Installation per contractor alternate means:

Where selected by the contractor: This item includes all labor, materials and equipment to install the new generator through alternate means and methods. Contractor shall provide a detailed description and sequence of construction attached to the bid.

Item #6- Startup & Testing:

This item includes all labor, materials and equipment to startup and load bank test the new

generator. This item includes the fuel for testing.

Item #7- Bonds, Taxes & Permits:

This item includes costs for bonds, taxes and permits and miscellaneous soft cost for closeout.

PART 2 PRODUCTS- Not Used

PART 3 EXECUTION -Not Used

END OF SECTION

SECTION 01310

ADMINISTRATIVE REQUIREMENTS:

PART1 GENERAL

1.01 Section Includes

Meetings, construction progress documentation, submittals, record documents.

1.02 Preconstruction Meeting

The Owner will schedule a preconstruction meeting prior to beginning the work to review shop drawing procedures, submittal requirements, and construction administration requirements (project coordination and communication). The proposed construction schedule will be reviewed with the Owner during the preconstruction meeting.

1.03 Definitions

- A. Shop Drawings - Shop drawings are original drawings, prepared by the Contractor, a subcontractor, supplier, or distributor, which illustrate some portion of the Work; showing fabrication, layout, setting, or erection details. Shop drawings shall be prepared by a qualified detailer and shall be identified by reference to sheet and detail numbers on the Contract Drawings
- B. Product Data - Product data are manufacturer's standard schematic drawings and manufacturer's catalog sheets, brochures, diagrams, schedules, performance charts, illustrations, and other standard descriptive data. Catalog sheets, brochures, etc., shall be clearly marked to identify pertinent materials, products, or models.
- C. Samples - Samples are physical examples to illustrate materials, equipment or workmanship and to establish standards by which work is to be evaluated.

1.04 Submittal Requirements

- A. Prior to submission, thoroughly check shop drawings, product data, and samples for completeness and for compliance with the Contract Documents. Verify all field measurements, quantities, dimensions, specified performance criteria, fabrication, shipping, handling, storage, and assembly, installation, and safety requirements.
- B. Coordinate the submittals with the requirements for other related work.
- C. Notify the Engineer, in writing at the time of submission, of deviations in submittals from the requirements of the Contract Documents. The Contractor's responsibility for deviations in submittals from the requirements of the Contract Documents is not relieved by the Engineer's review of submittals, unless the Engineer gives written acceptance of specific deviations.

- D. Submit at least six (6) copies of each shop drawing and product data. The specific number of copies required of all submittals will be determined during the preconstruction meeting. Contractor may submit one hard copy and the remainder in electronic format.
- E. Where a specific product manufacturer and model number is listed in individual specification sections and is proposed by the Contractor to be used, full submittal of product data is not required. In this case, submit in letter format the name of the product, manufacturer, model number, specification section, and name of project. Certify the identified product is proposed to be used in the project.
- F. Shop drawings, product data, and samples shall be accompanied by a letter of transmittal referring to the name of the project and to the specification page number and/or Drawing number for identification of each item. Submittals for each type of work shall be numbered consecutively, and the numbering system shall be retained throughout all revisions.
- G. Submittals shall bear the Contractor's stamp of approval certifying that they have been checked and indicate appropriate specification section and/or drawing location. Submittals without the Contractor's initialed or signed certification stamp and submittals which, in the Engineer's opinion, are incomplete, contain numerous errors or have not been properly checked, will be returned unchecked by the Engineer for resubmission.
- H. Begin no work that requires submittals until return of submittals with Engineer stamp and initials or signature indicating the submittal has been approved.

1.05 Engineer Review of Submittals

- A. Engineer's review and approval of submittals will not extend to means, methods, techniques, sequences, procedures of construction, or to safety precautions.
- B. The review and approval of a separate item will not indicate approval of the assembly in which the item functions. Engineer's review and approval of submittals shall not relieve Contractor from responsibility for any variation from the requirements of the Contract Documents.
- C. The Engineer will review submittals with reasonable promptness. The Engineer's review of submittals shall not be construed as a complete check and shall not relieve the Contractor from responsibility for complete compliance with the Contract requirements.
- D. No corrections, changes, or deviations indicated on submittals reviewed by the Engineer shall be considered as a change order.
- E. Where review of submittals is required by the Owner of other agencies, the

Engineer will forward the appropriate submittal(s) to these parties after Engineer review. Once review of all parties is complete, the submittal(s) will be returned to the Contractor reflecting the review of all parties

- F. If the submittal is not satisfactory, one copy of the submitted item will be retained by the Engineer and all other copies returned to the Contractor for appropriate action.
- G. Distribution of copies of acceptable submittals will be as mutually determined by the Contractor, Owner, and Engineer on an individual item basis during or following the preconstruction conference.

1.06 Progress Meetings

- A. The frequency of progress meetings shall be determined during the preconstruction meeting. As a minimum, progress meetings shall be held once per month during construction.
- B. The Contractor and Owner shall attend the progress meetings.
- C. As the Work progresses, the Contractor shall mark on a set of Contract Documents all changes from the Contract Documents.
- D. Mark on the Contract Drawings all changes in direction and location of structure, piping, equipment, electrical, and mechanical work.
- E. If requested, mark on the Specifications the manufacturer, trade name, catalog, and supplier of each product actually installed, and mark changes made by Change Order or Field Order.
- F. At the completion of the Work, deliver the marked up drawings documenting as-built information, measured by the Contractor's Surveyor, to the Engineer, in good condition and free from any extraneous notation. The as-built information is to include, but not be limited to, the following:
 - 1. Horizontal locations and vertical elevations of all utility valves, fittings, connection points, etc.
 - 2. Utility pipeline tied horizontally to edge of pavement including existing and proposed structures.
 - 3. Horizontal and vertical data for any construction that deviates from the approved engineering drawings.

PART 2 PRODUCTS -Not Used
PART 3 EXECUTION -Not Used

END OF SECTION

SECTION 01315

PRECONSTRUCTION VIDEO

PART1 GENERAL

1.01 Description

Provide continuous color digital audio-video recording along the entire length of all proposed work prior to construction to serve as a record of pre-construction conditions. For those properties for which service will be relocated from rear to front, provide full recording of each property. Provide two copies of the audio-video recordings on DVD. Supplement video recording with digital color photographs for areas that require details not ascertainable on the video recordings.

1.02 Related Requirements

Section 01340- Submittals

Submit one copy each to Engineer and Owner for review. If accepted submit two additional copies. If rejected resubmit the same as the initial review.

1.03 Qualifications

The preconstruction audio-video recording shall be of professional quality that will clearly log an accurate visual description of existing conditions. Any portion of the recording not acceptable for the determination of the existing conditions shall be re-recorded at no additional cost to the Owner.

PART 2 PRODUCTS

2.01 General

The total audio-video recording system and the procedures employed in its use shall be such as to produce a finished product that will fulfill the technical requirements of the project. The video portion of the recording shall produce bright, sharp, clear pictures with accurate colors and shall be free from distortion, tearing, rolls or any other form of picture imperfection. The audio portion of the recording shall produce the commentary of the camera operator with proper volume, clarity, and be free from distortion. The recording system shall utilize EIA standard video and NTSC compatible color.

2.02 Camcorder

The recording shall be made with a high definition video camcorder. The camcorder shall record the color signal with a minimum resolution of 2100 pixels

2.03 DVD

The DVD furnished to the County shall be high definition DVD discs. The DVDs shall be new and thus shall not have been used for any previous recording.

PART 3 EXECUTION

3.01 General

- A. Provide owner a minimum of 48 hours' notice in advance of recording such that Owners representative can be present during recording. The recordings shall contain

coverage of all surface features located within the construction's zone of influence. The construction's zone of influence shall be defined (1) as the area within the permanent and temporary easements or right-of-way, and areas adjacent to these areas which may be affected by routine construction operations, and (2) by the direction of the Owner. The surface features within the construction's zone of influence shall include, but not be limited to, all roadways, pavements, curbs, driveways, ponds, sidewalks, culverts, headwalls, retaining walls, buildings, landscaping, trees, shrubbery, and fences. Of particular concern shall be the existence or non-existence of any faults, fractures, or defects. Taped coverage shall be limited to one side of the street at any one time and shall include all surface conditions located within the zone of influence of construction supported by appropriate audio description.

- B. The video recording shall be a simultaneous recorded audio recording. This audio recording, exclusively containing the commentary of the camcorder operator, shall assist in viewer orientation and in any needed identification, differentiation, clarification, or objective description of the feature being shown in the video portion of the recording. The audio recording also shall be free from any conversations between the camcorder operator and any other production technicians.
- C. Each DVD shall be labeled and complete with a log of that videotape's contents. The log shall describe the various segments of coverage contained on that DVD in terms of the names of streets or easements, coverage beginning and end, directions of coverage, and video unit counter numbers.

3.02 Recording Schedule

- A. The recording shall be performed prior to the placement of any construction materials or equipment on the proposed construction site.
- B. The CONTRACTOR shall coordinate the video recording with the construction schedule so that those portions of the construction that will be completed first will be recorded first. The recording company shall deliver the DVD recordings to the Owner upon their completion. Upon delivery of the DVDs, transfer of ownership of those DVDs shall be made to the Owner.

3.03 Visibility

All recordings shall be performed during times of good visibility. No recording shall be done during periods of significant precipitation, mist, or fog. The recording shall only be done when sufficient sunlight is present to properly illuminate the subject, and to produce bright, sharp video recordings of those subjects. No taping shall be performed when more than 10% of the area to be taped contains debris or obstructions unless otherwise authorized by the Engineer.

3.04 Continuity of Coverage

- A. In order to increase the continuity of the coverage, the coverage shall consist of a single, continuous, unedited recording, which begins at one end of a particular construction area. However, where coverage is required in areas not accessible by conventional wheeled vehicles and smooth transport of the recording system is not possible, such coverage shall consist of an organized, interrelated sequence of recordings at various positions along that proposed construction area (e.g., wooded easement area).
- B. The average rate of travel during a particular segment of coverage (e.g., coverage of one side of the street) shall be directly proportional to the number, size, and value of the surface features within that construction area's zone of influence.

3.05 Camera Height and Stability

When conventional wheeled vehicles are used as conveyances for the recording system, the distance between the camera lens and the ground shall not be more than 10 feet. The camera shall be firmly mounted, such that transport of the camera during the recording process will not cause any unsteady picture.

3.06 Camera Control

Camera pan, tilt, zooms in, and zoom out rates shall be sufficiently controlled such that recorded objects will be clearly viewed during videotape playback. In addition, all other camera and recording system controls, such as lens, focus, and aperture, video level, pedestal, chroma, white balance, and electrical focus, shall be properly controlled or adjusted to maximize recorded picture quality.

3.07 Viewer Orientation Techniques

The audio and video portions of the recording shall maintain viewer orientation. To this end, overall establishing views and visual displays of all visible house and building addresses shall be utilized. In easements where the proposed construction location will not be readily apparent in the videotape viewer, highly visible yellow flags shall be placed in such a fashion as to clearly indicate the proposed centerline of construction.

3.08 Areas to be Videotaped

- A. The CONTRACTOR shall be able to televise and tape areas with paved roads, along easements, through parks, lawns, and open fields and inside buildings. When videotaping on private property, the CONTRACTOR shall give the Owner sufficient prior notice of such entry so that property owners may be advised of, and their permission obtained for, the work.
- B. At no time shall the CONTRACTOR be allowed to use any electrical circuits within private property building structure. All videotaping shall be done during regular business hours, unless otherwise specified by the private property owner or the Engineer. The CONTRACTOR shall enter and leave private property in a professional and orderly, workmanlike manner.

End of Section

SECTION 01320

PROJECT COMPLETION SCHEDULE

PART1 GENERAL

1.01 Section Includes

Project Completion Scheduling

1.02 Submittals

- A. Prior to construction, prepare schedule of all major activities needed to complete project. Include major material and equipment order and delivery times. Submit to Owner no later than the date of the preconstruction conference.
- B. Schedule to utilize Critical Path Method formatted by establishing a precedence diagram, which is time scaled. Include on schedule activity start dates, stop dates, and duration; critical path; float; delivery schedules. Include submittal dates and durations for components with extended lead times in schedule.
- C. Project substantial and final completion dates shown on schedule shall be same as or earlier than the contractual dates.

PART 2 PRODUCTS- Not Used

PART 3 EXECUTION

3.01 Monitoring and Updating of Schedule

- A. Float shown on the schedule belongs to the project.
- B. Progress data shall be accumulated to update the schedule on a monthly basis, prior to submittal of the application for payment. Progress data shall include:
 - 1. Activities started
 - 2. Activities completed.
 - 3. Predicted activity starts
 - 4. Predicted activity completions
 - 5. Changes in original duration for specific activities
 - 6. Changes in activity sequences
 - 7. Percent complete on activities
- C. Update of schedule to include *effect* of the progress projected for the next two (2) reporting periods.

END OF SECTION

SECTION 01450
QUALITY CONTROL

PART1 GENERAL

1.01 Section Includes

Quality control, quality assurance

1.02 Quality Control

- A. It is the Contractor's responsibility to perform all work to a degree and in a manner that satisfies and complies with the Project requirements.
- B. The Contractor will be responsible to provide a quality control program to determine the compaction procedures necessary to obtain the specified compaction.
- C. The Contractor is responsible for all testing costs where re-testing is needed due to failing tests.
- D. The Contractor is solely responsible for coordinating testing needed with the Owner.
- E. The Contractor shall cooperate with the Owner and make the work and samples available for testing at no additional cost.

1.03 Quality Assurance

- A. The Owner reserves the right to have additional tests made beyond those specified in the Contract Documents. The Contractor shall cooperate with the Owner and make the work and samples available for Owner testing at no additional cost in case the Owner chooses to have additional Owner furnished testing performed. It is the sole responsibility of the Contractor to see that his work meets all provisions of the Contract Documents.

PART 2 PRODUCTS -Not Used

PART 3 EXECUTION -Not Used

END OF SECTION

SECTION 01520

TEMPORARY FACILITIES AND CONTROLS

PART1 GENERAL

1.01 Section Includes

Construction facilities, controls, temporary utilities, field office and storage sheds, and storage of materials and equipment.

1.02 Related Sections- NIA

1.03 Submittals- NIA

1.04 Construction Facilities and Temporary Controls

All construction facilities and temporary controls remain the property of the Contractor establishing them and shall be maintained in a safe and useful condition until removed from the construction site.

1.05 Removal of Temporary Construction

Remove the various temporary facilities, services, and controls and legally dispose of them as soon as the Engineer deems permissible. Portions of the site used for temporary facilities shall be properly reconditioned and restored to a condition acceptable to the Engineer.

1.06 Transportation and Handling

- A. Manufactured materials and products shall be delivered to the project site as needed for installation, undamaged, in original packages, containers, or bundles, as packaged by the manufacturer with manufacturer's name, brand, seals, and labels intact.
- B. **M a t e r i a l s** other than those designated within the Specifications or approved by the Engineer shall not be delivered to the project site.

1.07 Storage and Protection

- A. The Contractor shall be responsible for protection and preservation of all materials until final acceptance of the Project. Any damage to work prior to acceptance shall be remedied by the Contractor at no additional cost to the Owner.
- B. Provide temporary weather-tight enclosures to protect work from damage by the elements, and protect finished surfaces to prevent any damage resulting from the work of any trade.

1.08 Security

- A. Contractor shall, at all times, be responsible for the security required in all project areas and shall provide all reasonable protection to prevent damage,

injury or loss to employees on the Work and all other persons who may be affected thereby; all the work materials and equipment to be incorporated therein, whether in storage on or off the project site, under the care, custody or control of the Contractor or any subcontractors; and any other property under the care, custody or control of the Contractor or any subcontractors. Contractor shall be responsible for such security and safety until final acceptance of the Work.

- B. Full time watchmen will not be required as a part of the Contract, but the Contractor shall provide inspection of work area daily and shall take whatever measures are necessary to protect the safety of the public, workmen, and materials, and provide for the security of the site, both day and night.

PART 2 PRODUCTS

2.01 Temporary Sanitary Facilities

Provide temporary toilet facilities as required. Maintain these during the entire period of construction under this Contract for the use of all construction personnel on the job. Enough chemical toilets shall be provided to conveniently serve the needs of all personnel. Chemical toilets and their maintenance shall meet the requirements of State and local health regulations and ordinances.

2.02 Material Hoists and Cranes

- A. Provide material hoists required for normal use by all trades and employ skilled hoist operators. Provide all necessary guards, signals, safety devices, etc., required for safe hoist operation. The construction and operation of material hoists shall be in accordance with the applicable ANSI Standards, the "Manual Code of Accident Prevention in Construction" of the Associated General Contractors of America, OSHA, and of other Federal, State, and municipal codes or ordinances. The Contractor shall prohibit the use of hoists for transporting personnel. Hoists shall be located to avoid risk of damage to completed work.
- B. Special rigging and hoisting facilities shall be provided by each trade requiring their use.

2.03 Temporary Runways, Scaffolding, and Ladders

- A. Provide temporary ladders, ramps, and runways as required for performance and inspection of the work. The above facilities shall be constructed and maintained in accordance with the applicable Federal, State, and Municipal regulations and codes.
- B. Furnish, erect, and maintain all scaffolding required for this work. Scaffolding shall be constructed and maintained in accordance with applicable State and Federal laws and local ordinances. Scaffolding shall be promptly removed after serving its purpose.
- C. The structural strength and safety of scaffolding, runways, covers, railings, ladders, stairs, etc., and compliance with law shall be the sole responsibility of

the Contractor

2.04 Contractors Field office and Storage Sheds

The Contractor shall provide field office and storage sheds as required for the performance of the Work and protection of materials and equipment.

2.12 Owner / Engineer Field Office – NOT USED

PART 3 EXECUTION

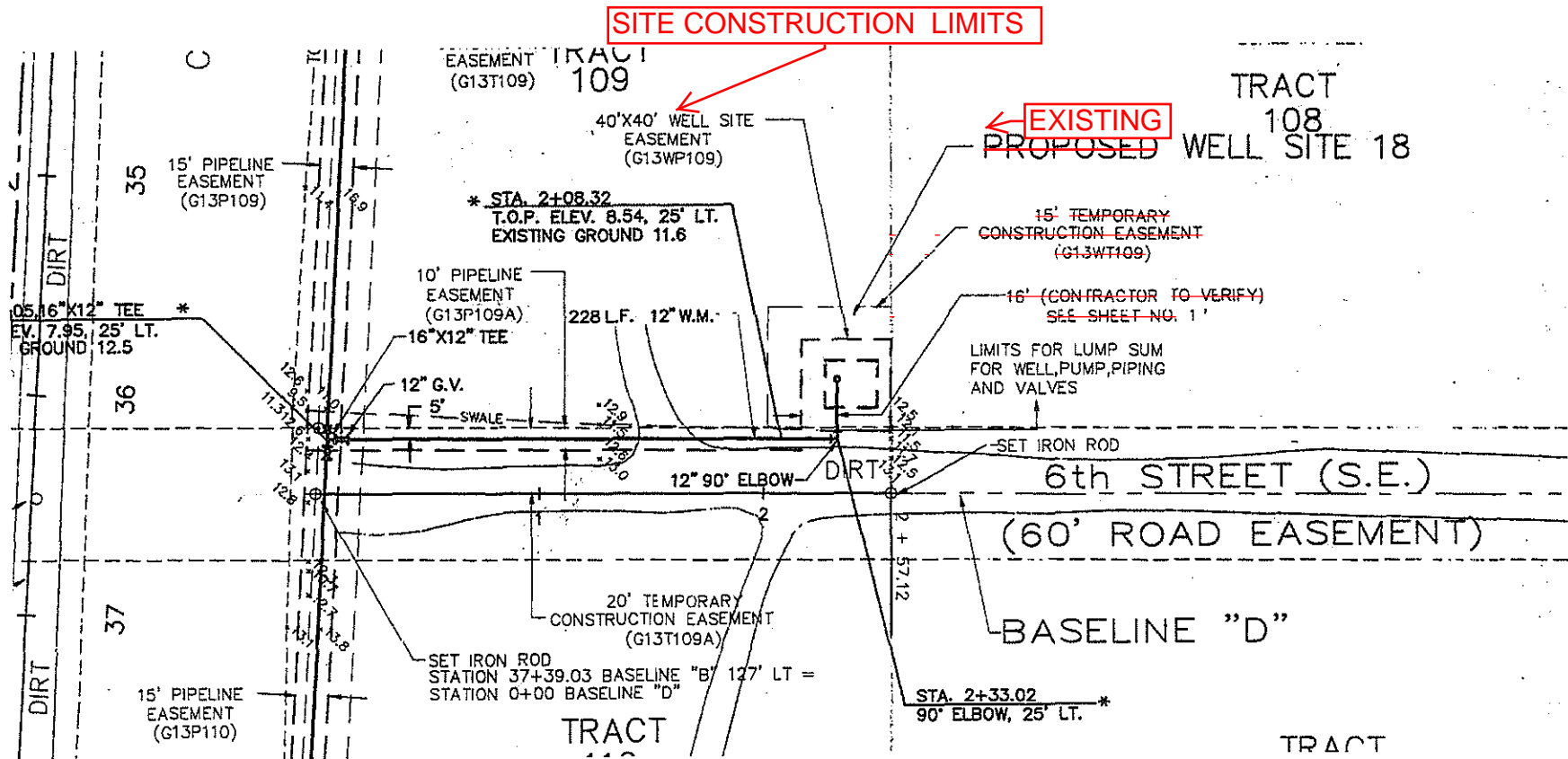
3.01 Access Roads and Parking Areas

Parking areas within and around the site shall be approved by the County prior to utilizing these areas. Contractor will be able to utilize the existing access roads, but this road shall be kept open for site traffic at all times.

3.02 Site Areas

See attached survey sketch of site area: appendix A-01520

END OF SECTION



APPENDIX A-01520

SECTION 01630

PRODUCT SELECTION AND SUBSTITUTION PROCEDURES

PART1 GENERAL

1.01 Section Includes

Product selection and substitution procedures

1.02 Product Selection

- A. Provide products that comply with the Contract Documents, that are undamaged, and unless otherwise indicated, new at the time of installation.
- B. To the fullest extent possible, provide products of the same kind from a single source.
- C. Compatibility among product options is required. Where more than one choice is available as options during product selection, select an option which is compatible with other products and materials already selected.
- D. Provide products complete with accessories, trim, finish, safety guards, and other devices and details needed for a complete installation and the intended use and effect.
- E. Where available, provide standard products of types that have been produced and used successfully in similar situations on other projects.
- F. Where Contract Documents are at variance with specific manufacturer's details and installation procedures, contact Engineer for resolution prior to start of work.
- G. For products specified by naming a number of products and manufacturers select any of the products and manufacturers listed. If the Contractor wishes to propose a substitution, the Contractor must submit a request for product substitution for approval by the Engineer and Owner. If the product is specified as "pre-approved equal" the Contractor must submit full design criteria, including shop drawings to the Engineer for approval. If changes in design are required for the substitution, the Contractor shall be required to pay the Engineer on an hourly basis at their standards rates for the redesign and reproduction of the plans.
- H. For products specified naming only one product and manufacturer or a number of products and manufacturers without the "or equal" allowance, no substitutes are allowed.
- I. For products specified by reference standards only, the Contractor may provide any product complying with the specified standard.

- J. For products specified by performance and descriptive methods, without naming manufacturer's products, the Contractor may provide the products of any manufacturer complying with the Contract Documents, subject to the review of product data and concurrence by the Engineer as specified herein.

1.03 Substitutions

- A. The intent of these Specifications is to provide the OWNER with a quality facility without discouraging competitive bidding. Substitutions may be submitted and will be evaluated as specified herein.
- B. If the Contractor wishes to provide a product other than one named in the Specifications, he shall submit sufficient information to the Engineer for evaluation and determination of acceptability of the product prior to Bid Opening.
- C. The Contractor is responsible for obtaining information required by the Engineer for the evaluation of products. The Engineer is responsible for determination of the equality of products, and his decision shall be final, except as otherwise provided by law and funding agency regulations.
- D. Substitution requests can be made after Bid Opening when:
 - 1. A specified product is no longer available
 - 2. The product cannot be delivered by the manufacturer in a timely manner
 - 3. The product is found to be incompatible with other specified products
 - 4. Proposed substitutions will yield a cost savings to the Owner
- E. The Contractor shall be responsible for the constructability and performance of any substitute materials requested by the Contractor and approved by the Engineer or by the Owner. The Contractor shall ensure that any approved substitute materials will perform to the intent of the specified materials, at no additional cost or time to the Owner, including the costs of installation, testing, repair, or correction of the utility system due to the performance or lack thereof of the substitute material.

PART 2 PRODUCTS- Not Used

PART 3 EXECUTION -Not Used

END OF SECTION

SECTION 01750

CONTRACT CLOSEOUT

PART1 GENERAL

1.01 Section includes

Substantial completion requirements, clean-up, final completion requirements, closeout submittals

1.02 Clean-Up Operations

- A. The entire project site shall be thoroughly cleaned at the completion of the work.
- B. Clean all installed pipelines, structures, sidewalks, paved areas, accumulated silt in ponds, plus all adjacent areas affected by construction, as directed by the Owner or jurisdictional agency. Equipment to clean these surfaces shall be subject to approval by the Owner.

1.03 Substantial Completion Requirements

- A. Complete the following before requesting the inspection for certification substantial completion.
 - 1. Submit as-built drawings.
 - 2. O&M Manuals, three (3) hard copies and one (1) pdf.
 - 3. Deliver tools, spare parts, and extra stocks of material and similar physical items to the Owner.
 - 4. Complete required cleaning and testing of systems, and instruction of the Owner's operating and maintenance personnel. Discontinue or change over and remove temporary facilities and services from the project site, along with construction tools and facilities, mock-ups, and similar elements.
 - 5. Complete final cleaning up requirements, including touch-up painting of marred surfaces.
 - 6. Touch-up and otherwise repair and restore marred exposed finishes.
- B. Work is not substantially complete until regulatory agency letters of clearance for placing systems into service are received by the Owner.

1.04 Closeout Submittals

- A. Upon completion of the project, or portions thereof, the Contractor shall transfer to the Owner all applicable items accumulated throughout construction. These include but are not limited to the following items:
 - 1. Service manuals, installation instructions, special tools, and specialties.
 - 2. Spare parts ordered as part of this Contract.
 - 3. Submittal of manufacturers' guarantees, bonds, and letters of coverage extending beyond the time limitations of the Contractor's guarantee.

4. Delivery of any salvaged or borrowed materials or equipment to the Owner
5. Record documents of completed facilities.
6. All keys to all doors, gates, and equipment.
7. Checklist indicating satisfactory completion of all unfinished items from the final inspection.

PART 2 PRODUCTS -Not Used

PART 3 EXECUTION- -Not Used

END OF SECTION