SECTION 01300 – CONTRACTOR SUBMITTALS

PART 1 – GENERAL

1.1 GENERAL

A. Submit all submittals required by the Contract Documents to ENGINEER.

B. Within 30 days after the commencement date as stated in the Notice to Proceed, CONTRACTOR shall submit the following items to ENGINEER for review:

1. A preliminary schedule of Shop Drawings, Samples, and proposed Substitutes ("Or-Equal") submittals listed in the Bid. Submit concurrently with CONTRACTOR'S preliminary project schedule. Include submittals required during the first 60 days of construction. List those submittals required to maintain orderly progress of the Work and those required early because of long lead time for manufacture or fabrication.

2. A list with all permits and licenses CONTRACTOR shall obtain indicating the agency required to grant the permit and the expected submittal date for the permit and required date for receiving the permit.

1.2 RELATED SECTIONS

A. Construction Contract

B. Section 01050 – Construction Engineering

C. Section 01311 – CPM Construction Schedule

D. Section 01318 – Meetings

E. Section 01350 – Operations and Maintenance Data

F. Section 01380 – Preconstruction Audio-Video Documentation

G. Section 01500 – Temporary Construction Facilities

H. Section 01400 – Quality Control

I. Section 01740 – Warranties and Guarantees

J. Section 01784 – Field Inspection and Acceptance Tests

K. Section 01825 – Electrical System Demonstrations

L. Section 01900 – Load, Seismic and Wind Requirements

M. Section 01980 – Closeout Procedures

1.3 PRECONSTRUCTION CONFERENCE SUBMITTALS

A. Submit the following items at the preconstruction conference referred to in Section 01318 - Meetings to ENGINEER for approval:

1. A detailed field office layout required under Section 01500 – Temporary Construction Facilities. The field office shall not be shipped to the Site until the layout has been approved by ENGINEER.

1.4 SUBMITTAL REQUIREMENTS

A. Submittal Schedule: Submit a schedule of submittals, arranged in chronological order by dates required by construction schedule. Include time required for review, ordering, manufacturing, fabrication, and delivery when establishing dates. Include additional time required for making corrections or revisions to submittals noted by ENGINEER and additional time for handling and reviewing submittals required by those corrections. Submit concurrently with the first complete submittal of CONTRACTOR'S overall project schedule.

B. Wherever called for in the Contract Documents or where required by ENGINEER, CONTRACTOR shall furnish to ENGINEER for review, five copies plus one reproducible copy for each submittal. Additionally, furnish an electronic copy of each complete submittal in Adobe PDF file format.

C. Submittals shall be accompanied by ENGINEER's standard submittal/transmittal form, a reproducible copy of which is available from ENGINEER. Any submittal not accompanied by such a form, or where all applicable items on the form are not completed, shall be returned for re-submittal.

D. Organization

1. A single submittal/transmittal form shall be used for each technical specification section or item or class of material or equipment for which a submittal is required. A single submittal covering multiple sections will not be acceptable, unless the primary specification references other sections for components. Example: if a pump section references other sections for the motor, protective coating, anchor bolts, local control panel, and variable frequency drive, a single submittal would be accepted; a single submittal covering vertical turbine pumps and horizontal split case pumps would not be acceptable.

2. On the transmittal form, index the components of the submittal and insert tabs in the submittal to match the components. Relate the submittal components to specification paragraph and subparagraph, Contract Drawing number, detail number, schedule title, major component, and/or bid list item as applicable.

3. Unless indicated otherwise, terminology and equipment names and numbers used in submittals shall match those used in the Contract Documents.

E. Format

1. Minimum sheet size shall be 8.5 inches by 11 inches. Maximum sheet size shall be 24 inches by 36 inches. Number every page in sequence in each submittal. Properly collate, staple, and/or bind each copy of a submittal as appropriate.

2. Where product data from a manufacturer is submitted, clearly mark which model is proposed, with all pertinent data, capacities, dimensions, clearances, diagrams, controls, connections, anchorage, and supports. Sufficient detail level shall be presented for assessing compliance with the Contract Documents.

3. Each submittal shall be assigned a unique number, and shall be numbered sequentially. The submittal numbers shall be clearly noted on the transmittal. Original submittals shall be assigned a numeric submittal number. Re-submittals shall bear an alpha-numeric system, which consists of the number assigned to the original submittal for that item, followed by a letter of the alphabet to represent it is a subsequent re-submittal of the original. For example, if submittal 25 requires a re-submittal, the first re-submittal will bear the designation "25-A" and the second re-submittal will bear the designation "25-B" and so on.

F. Coordination: Coordinate preparation and processing of submittals with performance of construction activities.

1. Coordinate each submittal with fabrication, purchasing, testing, delivery, other submittals, and related activities that require sequential activity.

2. Submit all submittal items required for each Specification Section concurrently unless partial submittals for portions of the Work are indicated on submittal schedule. Partial submittals will also be acceptable for components that are unique and specific to different structures, e.g. rebar drawings for Discharge Chamber versus rebar drawings for floor slabs in Pump Room.

G. All shop drawings submitted by subcontractors for approval shall be sent directly to CONTRACTOR for checking. CONTRACTOR shall be responsible for their submission at the proper time so as to prevent delays in delivery of materials.

H. Disorganized submittals which do not meet the requirements above will be returned without review.

I. Except as may otherwise be indicated herein, ENGINEER will return prints for each submittal to CONTRACTOR with comments noted thereon, within 30 calendar days following receipt by ENGINEER. However, ENGINEER reserves the right to return comments to CONTRACTOR in words only, and to do so electronically, without returning prints. It is considered reasonable that CONTRACTOR shall make a complete and acceptable submittal to ENGINEER by the first re-submittal on an item. OWNER reserves the right to withhold monies due to CONTRACTOR to cover additional costs for ENGINEER's review beyond the first re-submittal. ENGINEER's maximum review period for each submittal or re-submittal shall be 30 days. Thus, for a submittal requiring two re-submittals before it is complete, the maximum review period shall be 90 days. If a submittal is returned to CONTRACTOR marked "APPROVED" formal revision and resubmission will not be required.

J. If a submittal is returned marked "APPROVED AS NOTED," CONTRACTOR shall make the corrections on the submittal, but formal revision and resubmission will not be required.

K. If a submittal is returned marked "NOT APPROVED," it shall mean either the submitted material or product does not satisfy the specification, the submittal is so incomplete it cannot be reviewed, or is a substitution request not submitted in accordance with ~~**Construction Contract Articles 18.1 and 18.2**~~**Section 01940 - Substitutions**. CONTRACTOR shall revise it and shall resubmit the required number of copies to ENGINEER for review. Note date and content of revision in label or title block and clearly indicate extent of revision. Re-submitting portions of multi-page or multi-drawing submittals will not be allowed. For example, if a Shop Drawing submittal consisting of 10 drawings contains one drawing noted as "–NOT APPROVED," the submittal as a whole is deemed "–NOT APPROVED," and all 10 drawings are required to be re-submitted.

L. Re-submitting rejected portions of a previous submittal shall not be allowed. Every change from a submittal to a re-submittal or from a re-submittal to a subsequent re-submittal shall be identified and flagged on the re-submittal.

M. Fabricating an item shall be commenced only after ENGINEER has reviewed the pertinent submittals and returned copies to CONTRACTOR marked either "APPROVED" or “APPROVED AS NOTED." Corrections indicated on submittals shall be considered as changes necessary to meet the requirements of the Contract Documents, and shall not be taken as changes to the contract requirements.

N. All submittals shall be carefully reviewed by an authorized representative of CONTRACTOR, prior to submission to ENGINEER. Each submittal shall be dated, signed, and certified by CONTRACTOR’S Quality Control Engineer as being correct and in strict conformance with the Contract Documents. ENGINEER will only review submittals which have been so certified by CONTRACTOR. All non-certified submittals will be returned to CONTRACTOR without action taken by ENGINEER, and any delays caused thereby shall be the total responsibility of CONTRACTOR.

O. ENGINEER's review of submittals shall not relieve CONTRACTOR of the entire responsibility for the correctness of details and dimensions. CONTRACTOR shall assume all responsibility and risk for any misfits due to any errors in submittals. CONTRACTOR shall be responsible for the dimensions and the design of adequate connections and details.

1.5 SHOP DRAWINGS

A. Wherever called for in the Contract Documents or where required by ENGINEER, CONTRACTOR shall furnish to ENGINEER for review, five copies plus one reproducible copy , plus an electronic copy in Adobe PDF file format, for each Shop Drawing submittal. The term "Shop Drawings" as used herein shall be understood to include detail design calculations, shop-prepared drawings, fabrication and installation drawings, erection drawings, custom-prepared data such as fabrication and erection/installation (working) drawings of concrete reinforcement, structural steel, miscellaneous metals, structural details, connections, connections to structure or rock, piping layouts and supports, lists, graphs, catalog sheets, data sheets, setting diagrams, actual shopwork manufacturing instructions, custom templates, special wiring diagrams, coordination drawings, individual system or equipment inspection and test reports including performance curves and certifications as applicable to the work, and similar items. Whenever CONTRACTOR is required to submit a design or design calculations as part of a submittal, such calculations shall bear the signature and seal of an engineer registered in the appropriate branch and in the State of Indiana, unless otherwise indicated. Formal procedures for developing and reviewing CONTRACTOR designs shall be followed as specified in Section 01400 – Quality Control.

B. All Shop Drawings shall be carefully reviewed by an authorized representative of CONTRACTOR, prior to submission to ENGINEER. Each sheet of a shop drawing submittal shall be dated, signed, and certified by CONTRACTOR's Quality Control Engineer as being correct and in strict conformance with the Contract Documents.

C. Prepare Project-specific information, drawn accurately to scale. Do not base Shop Drawings on reproductions of the Contract Documents or standard printed data, unless submittal based on ENGINEER's digital data drawing files is otherwise permitted.

1. Certified shop and erection drawings. CONTRACTOR shall submit electronic files of the proposed equipment in the capacity, size, and arrangement as indicated and specified.

   a. Drawings shall include plan views, sectional views, title block, Tag Numbers, serial numbers, Parts List (identifying each component), dimensions, connection sizes and types and all details of all related items. In cases where certain information is proprietary and is omitted, provided a statement indicating that the information is proprietary and is being omitted.

   b. Drawings shall be in conformance with all other requirements as specified in this specification.

2. Preparation: Fully illustrate requirements in the Contract Documents. Include the following information, as applicable:

   a. Identification of products.

   b. Schedules.

   c. Notation of coordination requirements.

   d. Notation of dimensions established by field measurement.

e. Relationship and attachment to adjoining construction clearly indicated.

f. Seal and signature of professional engineer if specified.

1.6 CONTRACTOR'S SCHEDULE

A. CONTRACTOR's CPM Construction Schedule and reports shall be prepared and submitted to ENGINEER in accordance with Section 01311 – CPM Construction Schedule.

1.7 SAMPLES

A. Whenever samples are required in the Contract Documents, CONTRACTOR shall submit not less than 3 samples of each item or material to ENGINEER for acceptance.

1. Submit Samples for review of kind, color, pattern, and texture for a check of these characteristics with other elements and for a comparison of these characteristics between submittal and actual component as delivered and installed.

2. Samples for Initial Selection: Submit manufacturer's color charts consisting of units or sections of units showing the full range of colors, textures, and patterns available.

3. Samples for Verification: Submit full-size units or Samples of size indicated, prepared from same material to be used for the Work, cured and finished in manner specified, and physically identical with material or product proposed for use, and that show full range of color and texture variations expected. Samples include, but are not limited to, the following: partial sections of manufactured or fabricated components; small cuts or containers of materials; complete units of repetitively used materials; swatches showing color, texture, and pattern; color range sets; and components used for independent testing and inspection.

B. Unless otherwise indicated, samples shall be submitted a minimum of 30 days prior to ordering such material. Transmit Samples that contain multiple, related components such as accessories together in one submittal package.

C. Samples shall be individually and indelibly labeled or tagged, indicating thereon all specified physical characteristics and Manufacturer's name. Identification: Attach label on unexposed side of Samples that includes the following:

1. Generic description of Sample.

2. Product name and name of manufacturer.

3. Sample source.

4. Number and title of applicable Specification Section.

5. Specification paragraph number and generic name of each item.

D. For projects where electronic submittals are required, provide corresponding electronic submittal of Sample transmittal, digital image file illustrating Sample characteristics, and identification information for record.

E. Upon receiving acceptance of ENGINEER, one set of the samples will be stamped and dated by ENGINEER and returned to CONTRACTOR, one set of samples will be retained by ENGINEER, and one set of samples shall remain at the Site until completion of the Work for quality-control comparisons throughout the course of construction activity. Sample sets may be used to determine final acceptance of construction associated with each set.

F. Unless indicated otherwise, all colors and textures for items presented in sample submittals shall be from the manufacturer's standard colors and standard materials, products, or equipment lines. If the samples represent non-standard colors, materials, products, or equipment lines and their selection will require an increase in Contract Times or Price, CONTRACTOR shall clearly indicate same on the submittal's transmittal page.

G. Schedule sample submittals such that:

1. Sample submittals for color and texture selection are complete so ENGINEER has 45 days to assemble color panels and select color and texture dependent products and materials without delay to the construction schedule, and

2. After ENGINEER selects colors and textures, CONTRACTOR has sufficient time to provide the products or materials without delay to the construction schedule. The Contract Times will not be extended for CONTRACTOR's failure to allow enough review and approval or selection time, failure to submit all samples requiring color or texture selection, or failure to submit complete or approvable samples.

1.8 PRODUCT SCHEDULE

A. As required in individual Specification Sections, prepare a written summary indicating types of products required for the Work and their intended location. Include the following information in tabular form:

1. Type of product. Include unique identifier for each product indicated in the Contract Documents or assigned by CONTRACTOR if none is indicated.

2. Manufacturer and product name, and model number if applicable.

3. Number and name of room or space.

4. Location within room or space.

1.9 OPERATIONS AND MAINTENANCE MANUAL

A. Submit technical operation and maintenance information for each item of mechanical, electrical and instrumentation equipment in an organized manner in the Technical Manual. It shall be written so it can be used and understood by OWNER's operation and maintenance staff.

B. Submit draft Technical Manual to ENGINEER for review and approval prior to submitting final version. Submit seven (7) identical Technical Manuals to ENGINEER as final version for approval in accordance with the Construction Contract and with Section 01300 – Contractor Submittals. Each set shall have one or more volumes, each of which shall be bound in a standard size, three-ring, loose leaf, vinyl plastic hard cover binder suitable for bookshelf storage. Binder ring size shall not exceed 2.5 inches. A table of contents indicating all equipment in the manuals shall be prepared. Data included in the manuals shall be as described in Section 01350 – Operations and Maintenance Data of these specifications. In addition to hard copies, submit each Technical Manual or each volume of a Technical Manual in electronic Adobe PDF file format. Include electronic bookmarks in the PDF files to facilitate quick and easy navigation to different sections within the electronic file.

C. Manuals shall be submitted in final form to ENGINEER not later than 75 percent of the projected elapsed time between Notice to Proceed and Final Completion. All discrepancies found by ENGINEER shall be corrected within 30 days from the date of written notification by ENGINEER.

D. Incomplete or unacceptable manuals at the 70 percent construction completion point shall constitute sufficient justification to retain the amount noted in Construction Contract Article ~~11.05~~10 from any monies due CONTRACTOR.

1.10 SPARE PARTS LIST

A. CONTRACTOR shall furnish ENGINEER five (5) identical sets of spare parts information plus an electronic copy in Adobe PDF format for all mechanical, electrical, and instrumentation equipment for information upon Substantial Completion. The spare parts list shall include the current list price for each spare part. The spare parts list shall include those spare parts which each manufacturer recommends be maintained by OWNER in inventory. Each manufacturer or supplier shall indicate the name, address, and telephone number for its nearest outlet of spare parts to assist OWNER in ordering. CONTRACTOR shall cross-reference all spare parts lists to the equipment numbers designated in the Contract Documents. The spare parts lists shall be bound in standard size, three-ring, loose-leaf, vinyl plastic hard cover binders suitable for bookshelf storage. Binder ring size shall not exceed 2.5 inches.

1.11 AS-BUILT DRAWINGS

A. As-built drawings shall be maintained and submitted in accordance with the requirements of Construction Contract ~~Articles 18.8 through 18.11~~Article 4 and Section 01050 – Construction Engineering.

B. Submit as-built drawings monthly for update reviews.

C. As-built drawings shall be accessible to OWNER and ENGINEER at all times during the construction period.

D. Final payment will not be acted on until the as-built drawings have been prepared and delivered to OWNER in the format specified in Construction Contract ~~Articles 18.8 through 18.11~~Article 4 and Section 01050 – Construction Engineering.

E. The as-built information submitted by CONTRACTOR will be incorporated by ENGINEER into Project Record Drawings. In preparing the Project Record Drawings, ENGINEER will assume the as-built information submitted by CONTRACTOR is correct, and CONTRACTOR shall be responsible for the accuracy of such information and for any errors or omissions which may appear on the Project Record Drawings as a result.

1.12 PRE-CONSTRUCTION AUDIO-VIDEO

A. Pre-construction video photography shall be performed and submitted in accordance with the requirements of Section 01380 – Preconstruction Audio-Video Documentation.

1.13 WARRANTIES AND GUARANTEES

A. Warranties and Guarantees shall be prepared in accordance with the requirements of the Construction Contract and Section 01740 – Warranties and Guarantees and submitted in accordance with Section 01300 – Contractor Submittals.

1.14 ELECTRICAL SYSTEM TESTS AND SYSTEM DEMONSTRATIONS

A. Comply with requirements specified in Section – 01784 Field Inspection and Acceptance Tests.

B. Comply with requirements specified in Section 01825 – Electrical System Demonstrations.

1.15 LOAD, SEISMIC AND WIND REQUIREMENTS

A. Comply with requirements specified in Section – 01900 Load, Seismic and Wind Requirements.

1.16 CLOSEOUT SUBMITTALS AND MAINTENANCE MATERIAL SUBMITTALS

A. Comply with requirements specified in Section 01980 - Closeout Procedures.

1.17 QUALIFICATION DATA

A. Prepare written information that demonstrates capabilities and experience of firm or person. Include lists of completed projects with project names and addresses, contact information of applicable project engineers and owners, and other information specified.

1.18 WELDING CERTIFICATES

A. Prepare written certification that welding procedures and personnel comply with requirements in the Contract Documents. Submit record of Welding Procedure Specification and Procedure Qualification Record on AWS or equivalent forms. Include names of firms and personnel certified.

1.19 INSTALLER CERTIFICATES

A. Submit written statements on manufacturer's letterhead certifying that Installer complies with requirements in the Contract Documents and, where required, is authorized by manufacturer for this specific Project.

1.20 MANUFACTURER CERTIFICATES

A. Submit written statements on manufacturer's letterhead certifying that manufacturer complies with requirements in the Contract Documents. Include evidence of manufacturing experience where required.

1.21 PRODUCT CERTIFICATES AND MATERIAL CERTIFICATES

A. Submit written statements on manufacturer's letterhead certifying that product or material complies with requirements in the Contract Documents.

1.22 MATERIAL TEST REPORTS

A. Submit reports written by a qualified testing agency, on testing agency's standard form, indicating and interpreting test results of material for compliance with requirements in the Contract Documents.

1.23 PRODUCT TEST REPORTS

A. Submit written reports indicating that current product produced by manufacturer complies with requirements in the Contract Documents. Base reports on evaluation of tests performed by manufacturer and witnessed by a qualified testing agency, or on comprehensive tests performed by a qualified testing agency.

1.24 FIELD TEST REPORTS

A. Submit written reports indicating and interpreting results of field tests performed either during installation of product or after product is installed in its final location, for compliance with requirements in the Contract Documents.

1.25 DESIGN DATA

A. Prepare and submit written and graphic information, including, but not limited to, performance and design criteria, list of applicable codes and regulations, and calculations sealed and signed by CONTRACTOR'S Indiana registered Professional Engineer. Include list of assumptions and other performance and design criteria and a summary of loads. Include load diagrams if applicable. Provide name and version of software, if any, used for calculations. Include page numbers.

B. Submittal of calculations shall not relieve CONTRACTOR and its Indiana Registered Professional Engineer of their responsibility for the design.

1.26 DELEGATED-DESIGN SERVICES

A. Performance and Design Criteria: Where professional design services or certifications by a design professional are specifically required of CONTRACTOR by the Contract Documents, provide products and systems complying with specific performance and design criteria indicated.

1. If criteria indicated are not sufficient to perform services or certification required, submit a written request for additional information to Engineer.

B. Delegated-Design Services Certification: In addition to Shop Drawings, Product Data, Design Data as required by Part 1.30, and other required submittals, submit digitally signed PDF electronic file and three paper copies of certificate (Form 01300-1), signed and sealed by the responsible design professional, for each product and system specifically assigned to CONTRACTOR to be designed or certified by a design professional.

1. Indicate that products and systems comply with performance and design criteria in the Contract Documents. Include list of codes, loads, and other factors used in performing these services.

PART 2 – PRODUCTS (NOT USED)

PART 3 – EXECUTION

3.1 CONTRACTOR'S REVIEW

A. Submittals: Review each submittal and check for coordination with other Work of the Contract and for compliance with the Contract Documents.

B. If a shop drawing shows any deviation from the requirements of the Contract Documents, CONTRACTOR shall make specific mention of the deviations in the Transmittal Form and provide a description of the deviations in a letter attached to the submittal.

C. No portion of the work requiring a shop drawing, sample, or product data shall be started nor shall any materials be fabricated or installed prior to the approval or qualified approval of such item. Fabrication performed, materials purchased or on-site construction accomplished which does not conform to accepted shop drawings and data shall be at CONTRACTOR'S risk. OWNER will not be liable for any expense or delay due to corrections or remedies required to accomplish conformity.

D. Each submittal shall include: Project name and location, submittal number, Specification Section title and number, name of reviewer, date of CONTRACTOR'S approval, and statement certifying that submittal has been reviewed, checked, and approved for compliance with the Contract Documents.

3.2 ENGINEER’S ACTION

A. ENGINEER'S review is for general conformance with the design concept and contract documents. Markings or comments shall not be construed as relieving CONTRACTOR from compliance with the contract plans and specifications or from departures therefrom. CONTRACTOR remains responsible for details and accuracy, for coordinating the work with all other associated work and trades, for selecting fabrication processes, for techniques of assembly, and for performing work in a safe manner.

B. The review of shop drawings, data, and samples will be general. They shall not be construed:

1. as permitting any departure from the Contract requirements;

2. as relieving CONTRACTOR of responsibility for any errors, including details, dimensions, and materials;

3. as approving departures from details furnished by ENGINEER, except as otherwise provided herein.

C. Partial submittals may not be reviewed. ENGINEER will be the only judge as to the completeness of a submittal. Submittals not complete will be returned to CONTRACTOR, and will be considered "Not Approved" until resubmitted.

D. If CONTRACTOR considers any correction indicated on the shop drawings to constitute a change to the Contract Documents, CONTRACTOR shall give written notice thereof to ENGINEER at least seven working days prior to release for manufacture.

E. When the shop drawings have been completed to the satisfaction of ENGINEER, CONTRACTOR shall carry out the construction in accordance therewith and shall make no further changes therein except upon written instructions from ENGINEER.

3.3 CERTIFICATE OF DESIGN/CERTIFICATE OF DELEGATED DESIGN SERVICES

A. If specifically specified in other Sections of these Specifications, CONTRACTOR shall submit the applicable Certificate of Design/Certificate of Delegated Design Services for each item required, Form 01300-1 or Form 01300-2, whichever is applicable, completely filled in and signed and sealed by a professional engineer registered in the State of Indiana.

3.4 CERTIFICATE OF UNIT RESPONSIBILITY

A. If specifically specified in other Sections of these Specifications, the equipment manufacturer shall submit the Certificate of Unit Responsibility for each item required, Form 01300-3, completely filled in and signed and notarized.

3.5 PUMP, MOTOR, AND VFD COORDINATION CERTIFICATE

A. CONTRACTOR shall be responsible for providing Pump, Motor, And VFD Coordination Certificate, Form 01300-4, completely filled in and signed by CONTRACTOR and equipment manufacturers.

3.6 CERTIFICATES OF COMPLIANCE

A. Certificates of Compliance as specified in the specifications shall include and mean certificates, manufacturer's certificates, certifications, certified copies, letters of certification and certificate of materials.

B. CONTRACTOR shall be responsible for providing Certificates of Compliance as specified in the technical specifications. Certificates are required for demonstrating proof of compliance with specification requirements and shall be executed in six (6) copies unless otherwise specified. Each certificate shall be signed by an official authorized to certify on behalf of the manufacturing company and shall contain the name and address of the Supplier, the project name and location, and the quantity and date or dates of shipment or delivery to which the certificates apply. Copies of laboratory test reports submitted with certificates shall contain the name and address of the testing laboratory and the date or dates of the tests to which the report applies. Certification shall not be construed as relieving the Supplier from furnishing satisfactory material, if after tests are performed on selected samples, the material is found not to meet the specific requirements.

3.7 PARTIAL SUBMITTALS LIST

A. Refer to Appendix A of this Section.

B. Where a conflict exists between the Partial Submittals List in Appendix A and other Technical Specifications, the other Technical Specifications shall take precedence.

C. The partial submittals list has been prepared as a convenience to CONTRACTOR and ENGINEER. There are other submittal requirements in the Contract Documents that are not included in this partial submittals list.

D. The partial submittals list is not intended to be all inclusive of all requirements. CONTRACTOR shall be responsible to meet all submittal requirements in the Contract Documents.

Form 01300-1
CERTIFICATE OF DELEGATED DESIGN SERVICES

The undersigned hereby certifies that he/she is a Professional Engineer registered in the state of Indiana and that he/she has been employed by (Name of Contractor) _____ to design _____ in accordance with Specifications Section _____ for the DRTC Pump Station. The undersigned further certifies that he/she has performed similar designs previously and has performed the design of the _____; that said design is in conformance with all applicable local, state, and federal codes, rules, and regulations and professional practice standards; that his/her signature and Professional Engineer (P.E.) Stamp have been affixed to all calculations and drawings used in, and resulting from, the design; and that the use of that stamp signifies the responsibility of the undersigned for that design.

The undersigned hereby certifies that he/she has Professional Liability Insurance with limits of $1,000,000.00 and a Certificate of Insurance is attached.

The undersigned hereby agrees to make all original design drawings and calculations available to OWNER _____ or OWNER's representative within seven (7) days following written request therefore by OWNER.

_____	_____
P.E. Name	CONTRACTOR's Name
_____	_____
Signature	Signature
_____	_____
Title	Title
_____	_____
Address	Address

Form 01300-2
CERTIFICATE OF DESIGN

The undersigned hereby certifies that he/she is a Professional Engineer registered in the state of Indiana and that he/she has been employed by (Name of Contractor) _____ to design _____ in accordance with Specifications Section _____ for the DRTC Pump Station. The undersigned further certifies that he/she has performed similar designs previously and has performed the design of the _____; that said design is in conformance with all applicable local, state, and federal codes, rules, and regulations and professional practice standards; that his/her signature and Professional Engineer (P.E.) Stamp have been affixed to all calculations and drawings used in, and resulting from, the design; and that the use of that stamp signifies the responsibility of the undersigned for that design.

The undersigned hereby certifies that he/she has Professional Liability Insurance with limits of $1,000,000.00 and a Certificate of Insurance is attached.

The undersigned hereby agrees to make all original design drawings and calculations available to OWNER _____ or OWNER's representative within seven (7) days following written request therefore by OWNER.

_____	_____
P.E. Name	CONTRACTOR's Name
_____	_____
Signature	Signature
_____	_____
Title	Title
_____	_____
Address	Address

Form 01300-3
CERTIFICATE OF UNIT RESPONSIBILITY
For Specification Section _____

_____
(Section title)

In accordance with Section 01300, paragraph 3.4 of the Contract Documents, the undersigned manufacturer accepts unit responsibility for all components of equipment furnished under specification Section [_____] and the requirements specified in Section 01900. We hereby certify that these components are compatible and comprise a functional unit suitable for the specified and indicated performance and design requirements.

_____ _____
Notary Public Name of Corporation

_____ _____
Commission expiration date Address

Seal: By: _____
Duly Authorized Official

_____
Legal Title of Official

Date: _____

Form 01300-4
PUMP, MOTOR and VFD COORDINATION CERTIFICATE

OWNER: Project:

Contract No.: Submittal Number:

Pump Tag Numbers	
Pump Service	
Specification Section	
Pump Manufacturer	
Pump Model Number	
Pump Rated Capacity, gpm	
Motor Manufacturer and Model Number	
Motor Enclosure	
VFD Manufacturer and Model Number	

Motor Data:

HP	Full Load RPM	Type	Enclosure	Phase	Hertz	Volts	Amperes		Service Factor	Rotation
							Full Load	Locked Rotor		

GUARANTEED EFFICIENCY			POWER FACTOR			TORQUE AT FULL VOLTAGE		
						Full Load Torque At Full Load Speed (Lb.Ft.)	Locked Starting	Pullout Breakdown
Full Load	¾ Load	½ Load	Full Load	¾ Load	½ Load		Percent of Full Load	

The undersigned hereby CERTIFY that the motor design as furnished by the pump manufacturer and the VFD design as furnished by the VFD will work property together throughout all operation conditions specified in section _____ and as indicated. CONTRACTOR shall assume all responsibility for the proper installation and start-up of the motor and VFD as a complete system to meet the Contract requirements.

Pumps shall not be shipped from the place of manufacture until the completed pump motor-VFD coordination certification has been received and pump and motor submittals have received a code 1. CONTRACTOR shall accommodate, at no additional cost to OWNER, any changes resulting from the coordination of the motor and VFD required to meet the Contract requirements.

CERTIFIED BY: _____

CONTRACTOR:

_____ _____
(Company Name) (Print Name and Title)

_____ _____
(Signature) (Date)

Pump Manufacturer:

(Company Name)	(Print Name and Title)
(Signature)	(Date)

VFD Manufacturer:

(Company Name)	(Print Name and Title)
(Signature)	(Date)

Appendix A – Partial Submittals List

(Refer to 3.7 of this Section)

Section No.	Paragraph No.	Submittal	Submittal Date	Action
~~Construction Contract (CC)~~	~~1.16~~	~~Fully executed Contract~~	~~Within 5 business days upon receipt of Contract from OWNER~~	~~For Record~~
~~Special Conditions (SC)~~	~~4.63~~	~~List of names of manufacturers and installing subcontractors of principle equipment~~	~~Within 10 days of Execution of Contract~~	~~OWNER/ENGINEER Approval~~
~~CC~~	~~4.38~~	~~Site safety program~~	~~Prior to start of Work~~	~~For Information~~
~~CC~~	~~4.41~~	~~HAZCOM program , material data sheets for all hazardous materials~~	~~Prior to start of Work~~	~~For Information~~
~~CC~~	~~4.47~~	~~List of names and telephone numbers of the designated employees for each subcontractor to be contacted in case of emergency during non-working hours~~	~~Prior to start of Work~~	~~For Information~~
~~CC~~	~~18.1~~	~~Substitution Submittal~~	~~As Required~~	~~OWNER/ENGINEER Approval~~
~~CC~~	~~10.1~~	~~Field Order (Exhibit N of CC)~~	~~As Required~~	~~OWNER/ENGINEER Approval~~
~~CC~~	~~8.5~~	~~Preliminary Progress Schedule~~	~~Within10 days of Effective Date of Contract~~	~~OWNER/ENGINEER Approval~~
~~CC~~	~~8.9~~	~~Revised Progress Schedule~~	~~Monthly~~	~~OWNER Approval~~
~~CC~~	~~8.6~~	~~Preliminary Submittal Schedule~~	~~Within 10 days of Effective Date of Contract~~	~~OWNER/ENGINEER Review~~
~~CC~~	~~8.7, 11.7~~	~~Schedule of Values and a letter from Surety indicating Surety's consent on schedule of values~~	~~Within 10 days after Effective Date of Contract and before first pay request~~	~~OWNER/ENGINEER Review~~
~~CC~~	~~9.12~~	~~Responses to OWNER's request on acceleration of Work in lieu of time extension~~	~~Within 3 days after receipt of OWNER's request~~	~~OWNER/ENGINEER Review~~
~~CC~~	~~10.4~~	~~Responses to change order initiated by OWNER/ENGINEER~~	~~Within 5 days after receipt of change order~~	~~OWNER/ENGINEER Review~~
~~CC~~	~~9.3, 10.16~~	~~Written notice for time extension, or increased in Contract price, or claim for additional costs for performing changes to the Work~~	~~Within 10 business days of the event giving rise to the claim or change order~~	~~OWNER/ENGINEER Approval~~
~~CC~~	~~11.9~~	~~CONTRACTOR's document numbers for applicable business tax licenses or sales tax permit~~	~~Within 15 days after execution of Contract~~	~~For Information~~
~~CC~~	~~11.10~~	~~List of subcontractors and material suppliers (Exhibit F of CC)~~	~~Within 15 days after execution of Contract~~	~~OWNER/ENGINEER Approval~~
~~CC~~	~~11.13, SC-11.15~~	~~Payment application (Exhibit G of CC, monthly cash flow projection, and/or other applicable forms)~~	~~Monthly (on or before the 25th day of each month)~~	~~OWNER/ENGINEER Approval~~
~~CC~~	~~11.43~~	~~O & M manuals of equipment installed~~	~~Within 45 days after shop drawing approval~~	~~OWNER/ENGINEER Review~~

Section No.	Paragraph No.	Submittal	Submittal Date	Action
~~CC~~	~~11.45, 11.47.1, 11.47.2~~	~~Final payment application, including all applicable forms~~	~~As Required~~	~~OWNER Approval~~
~~CC~~	~~12.10.3~~	~~Certificate of Insurance~~	~~At least 5 days prior to starting of Work~~	~~For Information~~
~~CC~~	~~13.18~~	~~Written notice of inspection, test, or approval date~~	~~At least 3 days prior to inspection, test, or approval date~~	~~ENGINEER Participation~~
~~CC~~	~~17.2~~	~~Written notification of differing subsurface or physical conditions and recommendations~~	~~No later than 2 business days after becoming aware of the conditions~~	~~OWNER/ENGINEER Approval~~
~~CC~~	~~18.11~~	~~Updated "As-Built" drawings~~	~~Monthly prior to pay request~~	~~OWNER Review~~
~~CC~~	~~17.5~~	~~Written notice of any underground facility not shown on Contract Documents~~	~~No later than 2 business days after becoming aware of the conditions~~	~~OWNER/ENGINEER Review~~
~~CC~~	~~18.34~~	~~Written notice upon receiving subpoena or other validly issued administrative or judicial process demanding confidential information~~	~~Immediately~~	~~For information~~
~~CC~~	~~12.6~~	~~Performance and Payment Bond~~	~~Prior to or at time of execution of Agreement~~	~~OWNER Approval~~
~~CC~~	~~11.34~~	~~Request for Certificate of Substantial Completion~~	~~As Required~~	~~OWNER/ENGINEER Approval~~
~~CC~~	~~11.32~~	~~Request for final inspection and a comprehensive list of items to be completed or corrected prior to final payment~~	~~As Required~~	~~OWNER/ENGINEER final inspection~~
~~CC~~	~~11.37~~	~~A list of unresolved claims~~	~~Within 30 days after Substantial Completion~~	~~OWNER/ENGINEER Approval~~
Construction Contract (CC)	**1.1.1**	**List of subcontractors and material suppliers (Exhibit F of CC)**	**As Required**	**OWNER/ENGINEER Approval**
CC	**2.20**	**Written notice upon receiving subpoena or other validly issued administrative or judicial process demanding confidential information**	**Immediately**	**For information**
CC	**4.14**	**Fully executed Contract**	**Within 5 business days upon receipt of Contract from OWNER**	**For Record**
CC	**4.25**	**Updated "As-Built" drawings**	**Monthly**	**OWNER Review**
CC	**4.31**	**CONTRACTOR's document numbers for applicable business tax licenses or sales tax permit**	**As Required**	**For Information**
CC	**4.48**	**HAZCOM program , material data sheets for all hazardous materials**	**Prior to start of Work**	**For Information**

Section No.	Paragraph No.	Submittal	Submittal Date	Action
CC	4.56	List of names and telephone numbers of the designated employees for each subcontractor to be contacted in case of emergency during non-working hours	Prior to start of Work	For Information
CC	4.69	Substitution Submittal	As Required	OWNER/ENGINEER Approval
CC	6.4	List of names of manufacturers and installing subcontractors of principle equipment	Within 5 days of Contract Award	OWNER/ENGINEER Approval
CC	7.13	Field Order (Exhibit N of CC)	As Required	OWNER/ENGINEER Approval
CC	7.18	Responses to change order initiated by OWNER/ENGINEER	Within 10 days after receipt of change order	OWNER/ENGINEER Review
CC	7.18	Written notice for time extension, or increased in Contract price, or claim for additional costs for performing changes to the Work	Within 10 business days of the event giving rise to the claim or change order	OWNER/ENGINEER Approval
CC	8.4	Revised Progress Schedule	Monthly	OWNER Approval
CC	8.4, SC-12.15	Payment application (Exhibit G of CC, monthly cash flow projection, and/or other applicable forms)	Monthly	OWNER/ENGINEER Approval
CC	8.5.1	Preliminary Progress Schedule	Within 10 days before first pay request	OWNER/ENGINEER Approval
CC	8.5.1	Preliminary Submittal Schedule	Within 10 days before first pay request	OWNER/ENGINEER Review
CC	8.5.2	Schedule of Values and a letter from Surety indicating Surety's consent on schedule of values	Within 10 days before first pay request	OWNER/ENGINEER Review
CC	9.6	Responses to OWNER's request on acceleration of Work in lieu of time extension	Within 3 days after receipt of OWNER's request	OWNER/ENGINEER Review
CC	10.10	Final payment application, including all applicable forms	As Required	OWNER Approval
CC	10.25	Request for Certificate of Substantial Completion	As Required	OWNER/ENGINEER Approval
CC	10.34	Request for final inspection and a comprehensive list of items to be completed or corrected prior to final payment	As Required	OWNER/ENGINEER final inspection
CC	10.37	Unresolved claims	As Required	OWNER/ENGINEER Approval
CC	11.1	Performance and Payment Bond as required by Exhibit D	As Required	OWNER Approval
CC	11.10	Insurance as required by Exhibit D	As Required	For Information
CC	12.3	Site safety program	Prior to start of Work	For Information
CC	12.6	Written notice of inspection, test, or approval date	As Required	ENGINEER Participation

Section No.	Paragraph No.	Submittal	Submittal Date	Action
CC	**16.2**	**Written notification of differing subsurface or physical conditions and recommendations**	**No later than 2 business days after becoming aware of the conditions**	**OWNER/ENGINEER Approval**
CC	**16.6**	**Written notice of any underground facility not shown on Contract Documents**	**No later than 2 business days after becoming aware of the conditions**	**OWNER/ENGINEER Review**
Special Conditions (SC)	**SC-17.4**	**O & M manuals of equipment installed**	**As Required**	**OWNER/ENGINEER Review**
01010	1.7 B	Detailed Outage Plan and Schedule	2 Week prior to outage	ENGINEER Approval
01010	1.7 E	Confirmation of shut down date	2 working days prior to shutdown	For Information
01011	1.9 A	Notification to residents	1 week in advance of construction	For Information
01011	1.9 E	Notification and permission for utility work	15 days before starting construction	For Information
01011	1.10 B	Notice of physical conflict with utility	Immediately	For Information
01011	1.13 A	Notification of minor work relocations	Prior to continuing work	ENGINEER Approval
01011	1.14 C	Written verification of special easements obtained	Prior to performing work	For Information
01011	1.14 D	Written releases from property owners	Prior to final payment	For Information
01050	3.1 G	Surface Control Survey	Prior to shaft construction	For Information
01050	3.1 H	Underground Control Surveys	1 week of survey	For Information
01050	3.1 I	Invert Certification	Substantial Completion	ENGINEER Approval
01050	3.2 B 5	Marked Up As-Built Drawing Prints	Substantial Completion	ENGINEER Approval
01050	3.2 B 7	Full Set of As-Built CAD Drawings in Electronic Format	Every 6 Months After NTP	ENGINEER Approval
01050	3.2 B 8	Final As-Built CAD Drawings	Substantial Completion	ENGINEER Approval
01201	1.4 A	Value Engineering Change Proposals	As required	OWNER Approval
01300	1.1 B 1	Preliminary Schedule of Shop Drawings, Samples, and Proposed Substitutes	30 days of NTP	ENGINEER Review
01300	1.1 B 2	List of Permits and Licenses	30 days of NTP	ENGINEER Review
01300	1.2 A 1	Detailed Lay-Out of Field Office	Preconstruction Conference	ENGINEER Approval
01300	**1.9~~7~~ B**	7 Bound O&M Technical Manuals	75% Completion	ENGINEER Approval
01300	**1.~~8~~ A10 A**	Spare Parts Lists	Substantial Completion	For Information
01300	**1.11~~9~~ A**	As-Built Drawings	Monthly and Substantial Completion	ENGINEER Approval
01300	1.10 A	Pre-construction Audio-Video Recordings	30 days prior to construction	ENGINEER Review

Section No.	Paragraph No.	Submittal	Submittal Date	Action
01311	1.3 B	Primavera Training Certification, Resume, and Project History for Scheduling Consultant	15 days of NTP	ENGINEER Review
01311	1.3 C	Preliminary Project Schedule (PPS)	30 days of NTP	ENGINEER Approval
01311	1.3 D	Preliminary Schedule of Values (SOV)	10 days of effective date of Agreement	ENGINEER Approval
01311	1.3 E	Overall Project Schedule (OPS),	60 days of NTP/update monthly	ENGINEER Approval
01311	1.3 F	Near Term Schedule (NTS)	15 days of NTP/update monthly	ENGINEER Approval
01311	1.3 G	Updated OPS, SOV, and NTS	Monthly with Pay Application	ENGINEER Approval
01311	1.3 H	Updated PPS	Monthly until acceptance of OPS	ENGINEER Approval
01311	3.1 B	Correspondence addressing Work items behind schedule	Within 3 days after meeting	For Information
01311	3.3 B	Time Impact Analysis	Each request	ENGINEER Approval
01311	3.4 A	Recovery Schedule	When directed	ENGINEER Approval
01311	3.6 A	Early Completion Schedule	If required	ENGINEER Approval
01316	1.5 A	Coordination Drawings	Prior to mobilizing each construction site	ENGINEER Approval
01316	1.5 B	Project Personnel List	15 days of construction	For Information
01316	1.6	Electronic Copy for All Submittals	As required	For information
01316	1.6 A	Requests for Interpretation (RFIs)	Immediately	ENGINEER Approval
01316	1.6 E 5	RFI Log	Monthly	Information Only
01320	1.3 A	Daily Field Report	1 working day	ENGINEER Approval
01320	1.4 A	Sample Construction Photographs	15 days of NTP	ENGINEER Approval
01320	1.4 B	Construction Photographs	Monthly	ENGINEER Approval
01350	1.3 B	Directory of Manufacturer's Recommended Preventive Maintenance	75 Percent Construction	ENGINEER Approval
01380	1.2 A	Professional Photographer Qualifications	15 days of NTP	ENGINEER Approval
01380	1.3 A	Preconstruction Audio-Video Recording	30 days prior to construction	ENGINEER Review
01400	1.3 A	Qualification of Quality Control Engineer	15 Days of NTP	ENGINEER Approval
01400	1.3 B	Quality Control Program (QCP)	30 Days of NTP	ENGINEER Approval
01400	1.3 C	Proposed Revisions to QCP	Yearly or when change made	ENGINEER Approval
01400	1.3 D	Design Process Control Procedures	Prior to design	ENGINEER Approval
01400	1.3 E 1	QWP - Underground Excavation Work Plan	60 days prior to start of work	ENGINEER Approval
01400	1.3 E 2	QWP - Water Control Plan	60 days prior to start of work	ENGINEER Approval

Section No.	Paragraph No.	Submittal	Submittal Date	Action
01400	1.3 E 3	QWP - Shoring Geotechnical Instrumentation and Monitoring Plan	60 days prior to start of work	ENGINEER Approval
01400	1.3 E 4	QWP – Instrumentation and Monitoring	60 days prior to start of work	ENGINEER Approval
01400	1.3 E 5	QWP - Concrete Cast in Place Tunnel Linings	60 days prior to start of work	ENGINEER Approval
01400	1.3 E 6	QWP - Concrete Cast in Place Shaft Linings	60 days prior to start of work	ENGINEER Approval
01400	1.3 E 7	QWP – Sealing Pump Room and Shaft Leaks	60 days prior to start of work	ENGINEER Approval
01400	1.3 E 8	QWP – Backfill, Contact, Structure, Stabilization, and Cut-Off Grouting	60 days prior to start of work	ENGINEER Approval
01400	1.3 E 9	QWP – Ancillary Grouting	60 days prior to start of work	ENGINEER Approval
01400	1.3 E 11	QWP - Construction of Main Access Shaft	60 days prior to start of work	ENGINEER Approval
01400	1.3 E 12	QWP - Construction of Equipment Shaft	60 days prior to start of work	ENGINEER Approval
01400	1.3 E 13	QWP - Construction of Pump Room	60 days prior to start of work	ENGINEER Approval
01400	1.3 E 14	QWP - Construction of Main Access Shaft Building	60 days prior to start of work	ENGINEER Approval
01400	1.3 E 15	QWP - Construction of Pump Room Building	60 days prior to start of work	ENGINEER Approval
01400	1.3 E 16	QWP – Construction of Discharge Chamber	60 days prior to start of work	ENGINEER Approval
01400	1.3 E 17	QWP - Construction of the Screen and Grit Facility	60 days prior to start of work	ENGINEER Approval
01400	1.3 E 18	QWP - Construction of Force Main Extension to the Southport AWT Facility	60 days prior to start of work	ENGINEER Approval
01400	1.3 E 19	QWP – Construction of Embankment upon which New Pump Station Building and Associated Facility will be constructed	60 days prior to start of work	ENGINEER Approval
01400	1.3 E 20	QWP – Construction of New Roads and Walkways	60 days prior to start of work	ENGINEER Approval
01400	1.3 E 21	QWP – Construction of New Underground Utilities (water, sewer, gas, telephone, fiber optic, and electric)	60 days prior to start of work	ENGINEER Approval
01400	1.3 E 22	QWP - Shotcrete Shaft Linings	60 days prior to start of work	ENGINEER Approval
01400	1.3 E 23	QWP - Shotcrete In Underground Excavations	60 days prior to start of work	ENGINEER Approval
01400	1.3 E 24	QWP - Shaft Rock Reinforcement	60 days prior to start of work	ENGINEER Approval

Section No.	Paragraph No.	Submittal	Submittal Date	Action
01400	1.3 E 25	QWP – Pump Room and Tunnel Rock Reinforcement	60 days prior to start of work	ENGINEER Approval
01400	1.3 E 26	QWP – Connector Tunnel Line and Grade	60 days prior to start of work	ENGINEER Approval
01400	1.3 E 27	QWP – Pump Room (Pump Cavern) Line and Grade	60 days prior to start of work	ENGINEER Approval
01400	1.3 E 28	QWP – Installation of Pumps, Piping Systems and Appertunances	60 days prior to start of work	ENGINEER Approval
01400	1.3 E 29	QWP - Installation of Screen and of Screenings and Grit Removal Equipment including guide rails in Screen and Grit Shaft for screen rake and grit clamshell bucket	60 days prior to start of work	ENGINEER Approval
01400	1.3 E 30	QWP - Electrical System Installation	60 days prior to start of work	ENGINEER Approval
01400	1.3 E 31	QWP - Instrumentation and Control Installation	60 days prior to start of work	ENGINEER Approval
01400	1.3 E 32	QWP – HVAC Installation	60 days prior to start of work	ENGINEER Approval
01400	1.3 F 1	QWP - Slurry Wall Installation	30 days prior to start of work	ENGINEER Approval
01400	3.4 C	Completed Designs	As required	ENGINEER Approval
01455	1.4 B	Qualifications of testing laboratory	30 days of NTP	ENGINEER Approval
01455	1.6 C	Product Test Reports	As required	For Information
01500	1.3 B 3 c 6	Design of Temporary Power System	Prior to start of work	ENGINEER Approval
01500	1.4 B	Water Flow Monitoring Data - Electronic File	Daily basis	For Information
01520	1.3 A 3	List of Authorized Persons & Visitor Logs	Monthly	For Information
01526	1.3 B	Trench Safety Program	60 days prior to trenching	For Information
01526	1.3 C	Construction and Shop Drawings for Trench Safety System	Prior to start of excavation	For Information
01526	3.2 C	Daily Record of Trench Safety Inspection	Monthly	For Information
01527	1.3 A	Resident Superintendent Qualifications	30 days prior to start of field work	ENGINEER Approval
01527	1.3 B	Safety Officer Qualifications	30 days prior to start of field work	ENGINEER Approval
01527	1.3 C	Health and Safety Plan	30 days prior to start of site work	ENGINEER Approval
01527	1.3 D	Tunnel Ventilation System Design	90 days prior to start of tunnel excavation	ENGINEER Review
01527	1.3 E	Monthly Safety Highlights Report	Monthly	For Information
01527	1.3 F	Records of Probe Drilling Results	Within 24 hours	For Information
01527	1.3 G	Certification of Diesel Powered Mobile Equipment	Prior to placing equipment in tunnel	For Information

Section No.	Paragraph No.	Submittal	Submittal Date	Action
01527	1.3 H	Inspection checklist, safety records, safety inspection reports, and certifications from regulating agencies and insurance companies	Within 2 days of receipt	For Information
01527	1.3 I	Records of CONTRACTOR's Weekly Safety Meeting	Within 2 days	For Information
01527	1.3 J	Weekly Schematic Diagram of Ventilation Flow Rates	Within 1 working day of measurement	For Information
01527	1.3 K	Smoke Tube Observations	Within 1 day of observation	For Information
01527	1.3 L	Records of Ventilation and Air Monitoring	End of month	For Information
01527	1.3 M	Records of Underground Hazard Training	Weekly	For Information
01527	1.3 N	Records of Training for CONTRACTOR's Underground Rescue Team	Within 1 day of completion	For Information
01527	1.3 O	Records of Training to Meet IOSHA Requirements	Within 1 day of completion	For Information
01527	1.3 P	Updated List of Employees who have Completed Training Programs	Monthly	For Information
01527	1.3 Q	Respirable Dust Monitoring Program Records	Within 24 hours of data	For Information
01527	1.3 R	Records from polyurethane foam sampling stations in tunnel	Within 24 hours of data	For Information
01527	1.3 S	Material Safety Data Sheets (MSDS)	Within 90 Days of NTP/Update monthly	For Information
01527	1.3 T	Records of 40 hour training including HAZWOPER training	Within 1 day of completion	For Information
01527	3.11 E	Probe hole drilling results	Daily on the General Shift Report	For Information
01560	3.7 D	Wheel Washing Facilities Design	Within 60 days of NTP	ENGINEER Approval
01570	1.1 C	Traffic Maintenance Plan	Prior to start of work	ENGINEER Approval
01570	1.2 A	Detailed dimensioned Shop Drawing and data for traffic maintenance	Prior to start of work	ENGINEER Approval
01570	1.2 B	Log of Police Services	Weekly	For Information
01570	3.3 C	Temporary Bridges and Trench Crossing Designs	Prior to use	ENGINEER Approval
01570	3.5 F 4	Alternative Traffic Maintenance Plan	2 weeks prior to use	ENGINEER Approval
01570	3.5 F 5	Request for Street Closure	3 weeks prior to closure	ENGINEER Approval
01740	1.5 A	Draft Equipment Warranty	With shop drawing	ENGINEER Review
01740	1.5 B	Products and Work Warranties	Upon completion of terms	ENGINEER Review
01800	1.1 K	Copies of Permits	Upon receipt	Information only
01910	1.5 A	Proposed Methods of Weather Protection	30 days of NTP	ENGINEER Approval
01930	2.2 D 3	Plan Drawing on Sleeves	Prior to installation	ENGINEER Approval

Section No.	Paragraph No.	Submittal	Submittal Date	Action
01930	3.2 B	Equipment Protective Maintenance Schedule	30 days prior to storing	ENGINEER Approval
01940	1.5 A & D	Request for Substitution of Product or Construction Method	Prior to substitution	OWNER Approval
01960	1.3 A 2	Original executed approval and inspection before installation or operation	5 days prior to inspection	For Information
01960	1.3 D	Testing Data and Certificates	As required	ENGINEER Approval
01960	1.4 B 3	Training Material	Upon completion of training	For Information
01960	1.4 E 1	Instructor Qualifications	120 days prior start-up	OWNER Review
01960	1.4 E 2	Training Outline/Lesson Plans	90 days prior start-up	OWNER Review
01960	1.4 E 3	Final Trainee Manuals	60 days prior start-up	OWNER Review
01960	3.1 B,C,D	Equipment Inspection Check List	2 weeks of inspection	OWNER Approval
01960	3.1 G	Manufacturer's Certificates of Proper Installation for installed equipment	5 days of certification	ENGINEER Approval
01960	3.2 B	Equipment Testing Protocol	Prior to testing	For Information
01960	3.2 E	Certificate of Preliminary Test Completion	Prior to request for final inspection	ENGINEERApproval
01970	1.3 B	Itemized Tabulation of Spare Parts to be Provided	Prior to delivery	For Information
01980	1.3 A	Release from Side Agreements and Special Easements	Substantial Completion	For Information
01980	1.3 B	Spare Parts and Special Tools	As required	OWNER use
01980	1.3 C	Final Payment Application	Per Construction Contract	ENGINEER Approval
02015	3.2 I 1	Proof of Satisfactory Compensation to Property Owners	Substantial Completion	For Information
02070	1.1 D	Outage Request Form	Prior to coring	ENGINEER Approval
02070	1.2 A	Cutting and Coring Details	Prior to coring	For Information
02070	1.2 B	Coring Request	Prior to coring	ENGINEER Approval
02075	1.3 A	Detailed Plan for Impacted Soil Removal	Prior to starting work	ENGINEER Approval
02075	1.3 A	Disposal Records	20 days of soil removal	For Information
02075	1.3 A	Revised Construction Schedule	If required	For Information
02075	1.3 B	Schedule of Soil Removal Activities	Prior to commencing	For Information
02075	1.3 C	Transactions and Agreements With Landfill Owner or Operator	Prior to off-site haulage	For Information
02075	1.3 D 1	Weekly Job Progress Reports	Weekly	For Information
02075	1.3 D 2	Transport Manifests, Trip Tickets and Disposal Receipts	5 days of receipt	For Information
02075	1.3 D 3	Signed Waste Disposal Notification	5 days of load	For Information
02075	1.4 A	Emergency Plan	Prior to remediation	ENGINEER Approval

Section No.	Paragraph No.	Submittal	Submittal Date	Action
02125	1.2	Geotextile Fabrics Manufacturer's Product Data	30 days prior to use	For Information
02140	1.5 B	QWP for Water Control	Prior to installation	ENGINEER Approval
02140	1.5 C	Dewatering Permits	As required	For Information
02140	1.5 D 1	Discharge Rates	Within 2 working days	For Information
02140	1.5 D 2	Monitoring Data	As required	For Information
02140	1.5 D 3	Personnel, Subcontractor Dewatering Qualifications	As required	ENGINEER Approval
02140	1.6 A	Report of proposed dewatering activities to IDEM	Prior to installation of dewatering wells	IDNR Approval
02140	1.6 B 7	Copy of baseline groundwater data	Concurrent with IDEM submittal	For Information
02140	1.6 B 9	Plans and details for protecting downstream contracts	Prior to installation of dewatering wells	ENGINEER Approval
02140	3.2 A	Well drilling records	As required	For Information
02140	3.8 C 1	Rule 5 Notice of Intent Documentation	As required	For Information
02140	3.8 C 5	Baseline Water Laboratory Results	As required	For Information
02140	3.8 C 4	Daily Field Monitoring Water Discharge Log	As required	For Information
02150	1.5 A	ERS Plans & Shop Drawing	30 days prior to starting work	ENGINEER Review
02150	1.5 B	Quality Control Submittals, Proof of Experience, and Qualifications	As required	For Information
02150	1.5 C	Necessary Permits	Prior to construction	For Information
02150	3.3 D	Tremie Concrete Sealing Slabs Design	Prior to construction	ENGINEER Review
02150	3.4 D	Shoring Geotechnical Instrumentation & Monitoring Plan	Prior to construction	ENGINEER Review
02200	1.8 A	Sieve Analysis and Plasticity Index for Bedding, Haunching, and Backfill Material	15 days prior to use	ENGINEER Approval
02210	1.2 B	Controlled Low Strength Material Shop Drawings	Prior to use	ENGINEER Approval
02210	1.3 A	Quality Work Plan	60 Days prior to start of work	ENGINEER Approval
02245	1.3 B	Geotextiles Shop Drawings	Prior to use	ENGINEER Approval
02245	1.3 C	Geotextiles Samples	Prior to use	For Information
02245	1.3 D 1	Geotextile Manufacturer Certifications	Prior to use	For Information
02245	1.3 D 2	Field Seam Efficiency Test Results	Prior to use	For Information
02245	3.2 A	Notification of Geotextile Placement and Request for Approval of Underlying Materials	Prior to placement	ENGINEER Approval

Section No.	Paragraph No.	Submittal	Submittal Date	Action
02315	1.4 B	Shop drawings, working drawings and product data for concrete forms, concrete mix design, and Quality Work Plan	60 Days prior to construction	ENGINEER Approval
02335	1.3A	Shop drawings for pipe casing	60 Days prior to construction	ENGINEER Approval
02335	1.3B	Certifications for all pipes and other products specified	60 Days prior to construction	ENGINEER Approval
02340	1.5 A	Redesign of tunnel Initial Support	As required	ENGINEER Approval
02340	1.8 B	Qualifications of Initial Support Designer	Prior to design	ENGINEER Approval
02340	1.8 C	Shop Drawings for tunnel and shaft ground support systems	60 days prior to construction	ENGINEER Approval
02342	1.1 A 3 a 1	Permeation Grouting Plan	Prior to commencing	ENGINEER Approval
02342	1.5 A.1	Quality Work Plan for slurry wall Installation and shaft construction schedules	30 days prior to shaft constr.	ENGINEER Approval
02342	1.5 A.2	Shop Drawings for slurry wall	30 days prior to shaft constr.	ENGINEER Approval
02342	1.5 A.3	Product Data for slurry wall	With shop drawings	ENGINEER Approval
02342	1.5 A.4	CONTRACOR and Personnel Qualifications	Bid Documents	For Information
02342	1.5 A.5	Installation and inspection data	Daily/As required	ENGINEER Review
02342	3.4 A 1 a	Air quality reports	As Required	For Information
02342	3.4 B 1 a 1	Slurry wall surveying data	5 days of slurry wall completion	For Information
02342	3.4 B 3 e	Proposed admixtures for use in bentonite slurry	Prior to use	ENGINEER Approval
02342	3.4 B 5 d	Slurry quality control tests	Immediately	For Information
02342	3.4 D 1	Reports of control tests	Daily	For Information
02342	3.6 C	Inspection reports of watertightness for slurry walls	Within 1 week of inspection	For Information
02344	1.6 A 1	QWP – Shaft Construction	60 days prior to start	ENGINEER Approval
02344	1.6 A 3 c	Shaft shop drawings	60 days prior to start	ENGINEER Approval
02344	1.6 A 3 d	Shaft supervisors qualifications	Prior to construction	Information Only
02344	1.6 A 3 e	Performance reports and test data	As required	Information Only
02344	3.2 B	Alternative Shaft Design	60 days prior to start	ENGINEER Approval
02344	2.2 C	Fiberglass grating details	60 days prior to installation	ENGINEER Approval
02344	3.4 A 1	Shaft surveying data	Upon completion	For Information
02344	3.6 A	Shaft Leak Inspection Report	1 week of inspection	ENGINEER Approval
02345	1.5 A	Rock Reinforcement Element Samples	30 days prior to purchase	ENGINEER Approval

Section No.	Paragraph No.	Submittal	Submittal Date	Action
02345	1.5 B	Manufacturer's recommended installation procedures for Rock Dowels and Rock Bolts	30 days prior to purchase	ENGINEER Approval
02345	1.5 C 1	Certificates that samples for testing are from normal stock	Prior to use	ENGINEER Approval
02345	1.5 C 2	Certified mill reports of spiles, rock bolts, and rock dowels	Prior to use	ENGINEER Approval
02345	1.5 C 3	Manufacturer's certified test results of gel time, shelf life, and working strength	Prior to use	ENGINEER Approval
02345	1.6 A 1	QWP including shop and working drawings of rock reinforcement	60 days prior to start of work	ENGINEER Approval
02345	3.4 A 14	Rock reinforcement pull test results	Within 24 hours of completion of test	For Information
02346	1.6 A	Samples of Permanent Rock Reinforcement Elements	30 days prior to purchase	ENGINEER Approval
02346	1.6 B	Manufacturer's recommended installation procedures for Rock Dowels and Rock Bolts	30 days prior to purchase	ENGINEER Approval
02346	1.7 A	Qualifications for crew installing Permanent Rock Reinforcement and Supervising Foreperson	Bid Document	For Information
02346	1.7 B	Qualifications for Permanent Rock Reinforcement Manufacturer	Bid Document	For Information
02346	1.8 A	Certifications that samples for testing are from normal stock	Prior to use	ENGINEER Approval
02346	1.8 B	Certification that the bars, correction protection, and the associated hardware comply with ASTM and/or other standards	Prior to use	ENGINEER Approval
02346	1.8 C	Certification that representative samples of cement grout have been tested and found to meet the requirements for compressive strength and water-cement ratio	Prior to use	ENGINEER Approval
02346	1.9 A	QWP including shop and working drawings of Permanent Rock Reinforcement	60 days prior to start of work	ENGINEER Approval
02346	1.10 A	As-built information	Within 48 hours of testing	ENGINEER Approval
02346	3.6 H	Pull test results	Within 24 hours of testing	ENGINEER Approval
02350	1.6 B	QWP for Rock Mass Grouting including materials description, grout mix, equipment and operational procedures	60 days prior to grouting	ENGINEER Approval
02350	1.6 D	Rock Mass Grouting Supervisor Qualifications	60 days prior to grouting	ENGINEER Approval
02350	1.6 F	Daily drilling and grouting logs	Daily	For Information

Section No.	Paragraph No.	Submittal	Submittal Date	Action
02360	1.5 B	Description of materials, grout mix, equipment, and operational procedures for the backfill/primary grouting operation	Prior to shipping equipment and 30 days prior to grouting	ENGINEER Approval
02360	1.5 C	Qualifications of grouting supervisor	60 working days prior to jet grouting	ENGINEER Approval
02360	1.5 D	Grout mix design	30 days prior to grouting	ENGINEER Approval
02405	1.1 D	Insurance Certificate	30 days prior to blasting	Information Only
02405	1.9 A	Blasting Consultant and Vibration Specialist Qualification	As Required	ENGINEER Approval
02405	1.9 B	General Blasting Plan	30 days prior to blasting	ENGINEER Approval
02405	1.9 B 13	Proposed locations of overnight magazines	Prior to use	Information Only
02405	1.9 C	Individual Blasting Plan	24 hours prior to drilling	ENGINEER Approval
02405	1.9 D	Blast Reports	End of shift	For Information
02405	1.9 G	Explosive Permits	4 days before any blasting	For Information
02405	1.9 H	ATF Employee Possessor Questionnaire forms or ATF Letter of Clearance for All Employees That Will Possess Explosives	As Required	For Information
02405	1.9 I	Federal, State and Local Codes, Laws, Regulations, and Ordinances Regarding The Storage and Use of Explosive.	14 days prior to blasting	For Information
02405	1.9 J	Proposed Notification Letter	As Required	For Information
02405	1.9 K	Test Blast Plan	30 days prior to blasting	For Information
02405	1.10 E	List of parties notified	As Required	For Information
02405	1.10 F	Copies of letters to Emergency Response Agencies	20 days prior to blasting	For Information
02405	3.3 C	Blasting Supervisor Qualifications	prior to any Work	ENGINEER Approval
02420	1.4 A	QWP Muck Disposal	60 days prior	ENGINEER Approval
02420	1.4 B	Muck Handling and Disposal Facility Design	As Required	ENGINEER Approval
02445	1.3 A 1	Construction Schedules for Sealing Leaks in Shaft	45 days prior to beginning leak-sealing	For Information
02445	1.3 A 2	QWP and shop drawings for leak-sealing	60 days prior to beginning leak-sealing	ENGINEER Approval
02445	1.3 A 2 d	Complete list of leaks to be sealed	7 days prior to leak sealing	For Information
02445	1.3 A 3	Product data for leak sealing	60 days prior	For Information
02445	1.3 A 4	Samples of Grout Sealants	60 days prior	For Information
02445	1.3 A 5	Manufacturer's field representatives and grouting personnel	60 days prior	For Information
02445	1.3 A 6	Warranties	With shop drawings	ENGINEER Approval

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02445	1.3 A 7	Grouting Report	Daily	For Information
02445	1.3 A 8	Manufacturers Test Results	As received	For Information
02445	1.3 A 9	Manufacturer's Certifications	60 days prior	For Information
02460	1.4 A	Quality Work Plan for Instrumentation and Monitoring	60 days prior	ENGINEER Approval
02460	1.4 A 1	Instrumentation Specialists and Surveyor Qualifications	60 days prior	ENGINEER Approval
02460	1.4 A 2	Description of methods and materials	60 days prior	ENGINEER Approval
02460	1.4 A 3	Location and details of benchmarks	60 days prior	ENGINEER Approval
02460	1.4 A 4	Materials and mix proportions for backfilling	60 days prior	ENGINEER Approval
02460	1.4 A 5	Proposed schedule for installing instruments, detailed step-by-step procedures for installation	60 days prior	ENGINEER Approval
02460	1.4 B 1	Reports of reduced monitoring data	4 hours after collection	For Information
02460	1.4 B 2	Field daily drilling records	End of shift	For Information
02460	1.4 B 2	Installation Records	5 days of installation	For Information
02460	1.4 B 3	Results of acceptance testing and initial readings	5 days of testing	For Information
02460	1.3 B 4	Weekly summary report of results	Weekly	For Information
02460	1.3 B 5	Monitoring results on project website	1 work day	For Information
02460	3.1 F	Instruments Survey Horizontal and Vertical Coordinates	As Required	For Information
02460	3.4 G	Observation well hydraulic conductivity data	Within 2 days	For Information
02460	3.5 C	Split spoon soil sample	Within 24 hours	For Information
02460	3.6 E 5 b	Details of casings and traffic covers	Prior to installation	ENGINEER Approval
02460	3.11 G 1	Field survey report of instrumentation data and plots	Within 24 hours	For Information
02460	3.11 G 3	Formal instrumentation report	Monthly	For Information
02460	3.15 D	Action level plan	As required	For Information
02470	1.3 A	Claims Specialist Qualifications	30 days of NTP	ENGINEER Approval
02470	1.3 B	Pre-Construction Inspection Specialist Qualification	30 days of NTP	ENGINEER Approval
02470	1.3 C	Pre-Construction Inspection Reports	30 days prior to blasting or excavation	ENGINEER Approval
02470	3.1 E	Copies of correspondence with the claimant	When made	For Information
02470	3.1 F	Copies of correspondence from property owners denying access	As required	For Information
02510	1.2 A	Shop drawings and data	Prior to start of work	ENGINEER Approval
02510	1.2 B	Test results	As Required	For Information

Section No.	Paragraph No.	Submittal	Submittal Date	Action
02520	1.2 B	Shop drawings	60 days prior to start of work	ENGINEER Approval
02520	1.2 C	Certification of materials conforming to the required standards	60 days prior to start of work	For Information
02520	1.2 D	Installation instructions for pipe hydrants and valves	As required	For Information
02520	1.2 E	Hydrostatic and bacteriological test results	As required	For Information
02529	1.3 A	Well Abandonment Records	5 days of abandonment	ENGINEER Approval
02529	1.3 B	Well Abandonment Records	30 days of abandonment	Indiana Department of Natural Resources
02550	1.4 A	Pipe and pipe fitting Shop Drawings	60 days prior to start of work	ENGINEER Approval
02552	1.4 A	Quality Work Plan for Concrete Box Sewer Installation	60 days Prior to use	ENGINEER Approval
02552	1.4 B	Certification of Line And Grade for Pre-Cast Concrete Box Sewers	Prior to substantial completion	For Information
02552	2.2 A	Precast Box Section Design and Details	60 Days prior to fabrication	ENGINEER Approval
02615	1.3 A 1	Technical specification and product data	60 days prior to start of work	ENGINEER Approval
02615	1.3 A 2	Certified shop and erection drawings	60 days prior to start of work	For Information
02615	1.3 A 3	Certificates showing compliance of material used and shop tests performed	60 days prior to start of work	For Information
02630	1.2 A	Shop drawings and certificates showing compliance of material to the required standards	60 days prior to start of work	ENGINEER Approval
02730	1.4 A	Shop Drawings of Sanitary Laterals	60 days prior to start of work	ENGINEER Approval
02744	1.2 A	Pavement Marking Supplier	Prior to fabrication, shipment or start of work	ENGINEER Approval
02747	1.2 A	Shop Drawings of Roadway Signage	Prior to fabrication, shipment or start of work	ENGINEER Approval
02780	1.5 A	Concrete mixture and manufacturers certifications	Prior to start of work	ENGINEER Approval
02780	1.5 B	Qualifications of subcontractor	Prior to start of work	ENGINEER Approval
02780	1.5 C	QWP including schedules, quality control, and construction procedures	Prior to start of work	ENGINEER Approval
02780	1.5 D	List of subcontractors and material suppliers	Prior to start of work	ENGINEER Approval
02831	1.1 C	Temporary Fencing Details	15 days prior to installation	ENGINEER Approval
02831	1.2 A	Chain Link Fences and Gates, Detailed Dimensioned Shop Drawings, and Data	Prior to fabrication	ENGINEER Approval

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02841	1.2 A	Detailed Dimensioned Shop Drawings and Data for Guardrail	Prior to fabrication	ENGINEER Approval
02841	1.2 B	Guardrail supplier	Prior to fabrication	ENGINEER Approval
02900	1.3 A	Seed, Sod, and Plant Materials Documentation	Prior to installation	ENGINEER Approval
03200	1.4 A	Shop bending diagrams, placing lists, and drawings of reinforcement steel.	Prior to fabrication	ENGINEER Approval
03200	1.4 B	Shop drawings of wall reinforcement in plan and elevation view	Prior to fabrication	ENGINEER Approval
03200	1.4 C	Shop drawings with sizes and locations of all penetrations greater than 12 inches in diameter or for square and rectangular openings, and 12 inches in any direction with the additional reinforcement steel around the openings	Prior to fabrication	ENGINEER Approval
03200	1.4 E	Certifications of mill test reports	Prior to fabrication	For Information
03200	1.4 F	Details of concrete reinforcement steel and concrete inserts	90 days of NTP	ENGINEER Approval
03200	1.4 G	Manufacturer's Instructions and recommendations	As Required	For Information
03200	1.5 A	Reinforcement bars and welded steel wire inspection and test report	Prior to use	ENGINEER Approval
03290	1.5 B 1	Joints In Concrete Shop Drawings	30 days prior to use	ENGINEER Approval
03290	1.5 B 2	Certified test reports from sealant manufacturer	Prior to use	ENGINEER Approval
03290	1.5 B 3	Waterstop Welding Certification	Prior to start of work	For Information
03290	1.5 C	Manufacturer's Waterstops Qualification Sample	30 days prior to use	ENGINEER Approval
03290	1.5 D	Manufacturer's Certificate of Compliance	With shipment	For Information
03290	1.6 D	Prefabricated PVC Waterstop Samples	Prior to use	ENGINEER Approval
03290	1.7 A	5-Year Written Warranty of Entire Sealant Installation	With shop drawings	ENGINEER Approval
03290	3.3 E	Concrete Joint Locations and Details	In QWP	ENGINEER Approval
03300	1.4 A	Cast In Place Concrete Mix Designs	45 days of NTP	ENGINEER Approval
03300	1.4 B 1	Steel Reinforcement Shop Drawings	Prior to fabrication	ENGINEER Approval
03300	1.4 B 2	Formwork Shop Drawings	Prior to fabrication	ENGINEER Approval
03300	1.4 B 3	Joint Placement Drawings	Prior to fabrication	ENGINEER Approval
03300	1.4 B 5	Material Certificates	Prior to fabrication	For Information
03300	1.4 B 6	Manufacturer's Data and Technical Information	Prior to fabrication	For Information
03300	1.6 A	Quality Work Plans	60 days prior to start	ENGINEER Approval
03300	2.1 B 10	Certified Mill Test Reports	When Requested	ENGINEER Approval

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03300	2.8 M	Delivery Tickets	End of Each Shift	For Information
03300	2.8 P	Weigh-Tickets	For Each Batch of Concrete Delivered	For Information
03300	3.2 B 3	Schedule Of Pours	30 days prior to pour	ENGINEER Approval
03315	1.4 B 1	Certified test results, shrinkage, and expansion requirements	In QWP	ENGINEER Approval
03315	1.4 B 2	Manufacturer's literature, instructions, and recommendations	In QWP	ENGINEER Approval
03315	3.2 B 2	Alternate grouting methods	30 days prior to placement	ENGINEER Approval
03323	1.5 F 6	Results of cylinder testing	As Required	For Information
03323	1.5 J 10	Toughness test result of steel fiber reinforced shotcrete	Monthly/Within 1 week	For Information
03323	1.6 A	Shotcrete product data	In QWP	ENGINEER Review
03323	1.6 B	Cement, aggregate, and water documentation	As Required	For Information
03323	1.6 C	Shotcrete engineering properties	In QWP	ENGINEER Approval
03323	1.6 D	Shotcrete mix designs	In QWP	ENGINEER Approval
03323	1.6 E	Test panel results and samples	1 week of testing	ENGINEER Approval
03323	1.6 F	Nozzlemen Qualification Procedure	In QWP	ENGINEER Approval
03323	1.6 H	Shotcrete foreman’s qualifications	In QWP	ENGINEER Approval
03323	1.6 I	Certification of the technician responsible for concrete field testing	In QWP	ENGINEER Approval
03323	1.6 J 1	Material Certificates	Per shipment, prior to use	For Information
03323	1.6 J 2	Alternative Mix Designs	As required	ENGINEER Approval
03323	1.6 J 3	Equipment Calibration Certificates	Quarterly	For Information
03323	1.6 K 1	Quality Work Plans For Laboratory Compatibility Tests	60 days prior to start of work	ENGINEER Approval
03323	1.6 K 2	Material Test Reports	1 week of sample preparation	For Information
03400	1.2 A	Precast Concrete Structures Shop Drawings	60 days prior to installation	ENGINEER Approval
03400	1.2 B	Product Data for Pre-Cast Concrete Structures	60 days prior to manufacturing	ENGINEER Approval
03400	1.2 C	Design Mixes	60 days prior to manufacturing	ENGINEER Approval
03400	1.2 D	Material Certificates	Prior to installation	For Information
03400	2.5 A	Monolithic Pour Details	Prior to use	ENGINEER Approval
03410	1.5 B	Product Data for Plant Precast Structural Concrete Wall	60 days prior to fabrication	ENGINEER Approval
03410	1.5 C	Plant Precast Structural Concrete Wall Design Mixtures	60 days prior to fabrication	ENGINEER Approval
03410	1.5 D	Plant Precast Structural Concrete Wall Shop Drawings	60 days prior to fabrication	ENGINEER Approval

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03410	1.5 E	Precast Structural Concrete Unit Samples	60 days prior to fabrication	ENGINEER Approval
03410	1.5 F	Delegated Design	As required	For Information
03410	1.5 G	Qualification Data for Installer	Prior to start of work	For Information
03410	1.5 H	Welding Certificates	Prior to start of work	For Information
03410	1.5 I	Material Certificates	Prior to start of work	For Information
03410	1.5 J	Material Test Reports for Aggregates	Prior to start of work	For Information
03410	1.5 K	Source Quality Control Reports	Prior to start of work	For Information
03410	1.5 L	Field Quality control and Inspection Reports	Prior to start of work	For Information
03410	3.4 D	Field Test Reports	As required	For Information
03420	1.6 A	Plant Precast Concrete Stairs and Platform Shop Drawings	60 days prior to installation	ENGINEER Approval
03420	1.6 B	Plant Precast Concrete Stairs and Platform Product Data	60 days prior to fabrication	ENGINEER Approval
03420	1.6 C	Plant Precast Concrete Stairs and Platform Design Mixes	60 days prior to fabrication	ENGINEER Approval
03420	1.6 D	Material Certificates	Prior to installation	For Information
03420	1.6 E	Test Reports	As required	For Information
03420	1.7 B	Delegated Design	As required	For Information
03422	1.5 A 1	Precast Concrete Hollow Core Planks Shop Drawings	60 days prior to installation	ENGINEER Approval
03422	1.5 A 5	Precast Concrete Hollow Core Planks Calculations	60 days prior to installation	ENGINEER Approval
03422	1.5 A 6	Precast Concrete Hollow Core Planks Mix Design	60 days prior to installation	ENGINEER Approval
03422	1.5 A 7	Concrete Mix Test Results	Prior to fabrication	For Information
04200	1.6 B	Product Data for Unit Masonry and Accessories	Prior to fabrication	ENGINEER Approval
04200	1.6 C	Qualification for Testing Agency	Prior to fabrication	For Information
04200	1.6 D	Material Certificates	Prior to fabrication	For Information
04200	1.6 E	Unit Masonry and Accessories Mix Design, including Test Reports for Mortar Mixes and Grout Mixes	Prior to fabrication	ENGINEER Approval
04200	1.6 F	Statement of Compressive Strength of Masonry	Prior to fabrication	For Information
04200	1.6 G	Cold Weather and Hot Weather Procedures	Prior to fabrication	For Information
05120	1.5 B	Product Data for Structural Steel	60 days prior to fabrication	ENGINEER Approval
05120	1.5 C	Structural Steel Shop Drawings	60 days prior to fabrication	ENGINEER Approval
05120	1.5 D	Welding Certificates	60 Days prior to fabrication	For Information

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05120	1.5 E 1	Welding procedure	In QWP	ENGINEER approval
05120	1.5 E 2	Qualification test records	In QWP	For Information
05120	1.5 E 3	Field welding equipment	As required	For Information
05120	1.5 E 4	NDE records and visual inspection reports	Upon completion	For Information
05120	1.5 F	Qualification data	Prior to starting work	For Information
05120	1.5 G	Mill Test Reports	Prior to work	For Information
05120	1.6 G 1	Test reports for bolted and welded connections	1 working day	ENGINEER Approval
05210	1.4 A	Steel Joists Shop Drawings	60 days prior to fabrication	ENGINEER Approval
05210	1.4 B	Steel Joists Certification and Calculations	60 days prior to fabrication	ENGINEER Approval
05210	1.4 C	Qualification Test Reports	60 days prior to fabrication	ENGINEER Approval
05210	1.4 D	Surface Preparation Certificates	60 days prior to fabrication	ENGINEER Approval
05300	1.3 A	Steel Deck Shop Drawings	60 days prior to fabrication	ENGINEER Approval
05500	1.5 A	Shop Drawings for metal and fiberglass fabrications	Prior to fabrication	ENGINEER Approval
05500	1.5 B	Metal and fiberglass fabrication product data	Prior to fabrication	ENGINEER Approval
05500	1.5 C 1	Building code organization recommendations regarding safe allowable design loads for concrete anchors	Prior to fabrication	For Information
05500	1.5 C 2	Floor access hatch warranty	Prior to fabrication	For Information
06100	1.4 A	Rough Carpentry Shop Drawings	60 days prior to fabrication	ENGINEER Approval
06100	1.4 B	Rough Carpentry Product Data	60 days prior to fabrication	ENGINEER Approval
06100	1.4 C	Material Certificates	60 days prior to fabrication	For Information
06100	1.4 D	Evaluation Reports for the Wood-Preservative-Treated Wood	60 days prior to fabrication	For Information
07160	1.4 A 1	Bituminous Dampproofing Product Data	60 days prior to start of work	ENGINEER Approval
07160	1.4 A 2	Bituminous Dampproofing Installation Instructions	60 days prior to start of work	For Information
07160	1.4 A 3	Bituminous Dampproofing Material Certificates	60 days prior to start of work	For Information
07210	1.4 A	Building Insulation Shop Drawings and Product Data	60 days prior to installation	ENGINEER Approval
07410	1.4 B	Exterior Metal Wall System Product Data	60 days prior to fabrication	ENGINEER Approval

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07410	1.4 C	Metal Wall Panels Shop Drawings	60 days prior to fabrication	ENGINEER Approval
07410	1.4 D	Wall Panel Samples for Selection	60 days prior to fabrication	ENGINEER Approval
07410	1.4 E	Wall Panel Samples for Verification	60 days prior to fabrication	ENGINEER Approval
07410	1.4 F	Delegated Design	As required	ENGINEER Approval
07410	1.4 G	Coordination Drawings	60 days prior to fabrication	ENGINEER Approval
07410	1.4 H	Qualification Data for Installer, Engineer, and Testing Agency	Prior to fabrication	For Information
07410	1.4 I	Product Test Reports	Prior to fabrication	For Information
07410	1.4 J	Field Quality Control Reports	Prior to fabrication	For Information
07410	1.4 K	Product Warranties	Prior to fabrication	For Information
07410	1.4 L	Maintenance Data	Prior to fabrication	For Information
07533	1.5 B	Thermoplastic Membrane Roofing Product Data	60 days prior to installation	ENGINEER Approval
07533	1.5 C	Thermoplastic Membrane Roofing Shop Drawings	60 days prior to installation	ENGINEER Approval
07533	1.5 D	Samples for Verification	60 days prior to installation	ENGINEER Approval
07533	1.5 E	Qualification Data for Installer and Manufacturer	60 days prior to installation	ENGINEER Approval
07533	1.5 F	Installer Certificates	Prior to installation	For Information
07533	1.5 G	Manufacturer Certificates	Prior to installation	For Information
07533	1.5 I	Product Test Reports	Prior to installation	For Information
07533	1.5 J	Research/Evaluation Reports	Prior to installation	For Information
07533	1.5 K	Maintenance Data	Prior to installation	For Information
07533	1.5 L	Special Warranty Sample	Prior to installation	For Information
07533	1.5 M	Field Quality Control Report	Prior to installation	For Information
07600	1.4 B	Sheet Metal Flashing and Trim Product Data	60 days prior to fabrication	ENGINEER Approval
07600	1.4 C	Sheet Metal Flashing and Trim Shop Drawings	60 days prior to fabrication	ENGINEER Approval
07600	1.4 D	Samples for Selection	60 days prior to fabrication	ENGINEER Approval
07600	1.4 E	Samples for Verification	60 days prior to fabrication	ENGINEER Approval
07600	1.4 F	Qualification Data for fabricator	Prior to fabrication	For Information
07600	1.4 G	Special Warranty Sample	Prior to fabrication	For Information
07600	1.4 H	Maintenance Data	Prior to fabrication	For Information
07710	1.4 B	Manufactured Roof Specialties Product Data	60 days prior to fabrication	ENGINEER Approval

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07710	1.4 C	Manufactured Roof Specialties Shop Drawings	60 days prior to fabrication	ENGINEER Approval
07710	1.4 D	Samples for Selection	60 days prior to fabrication	ENGINEER Approval
07710	1.4 E	Samples for Verification	60 days prior to fabrication	ENGINEER Approval
07710	1.4 F	Product Test Reports	Prior to fabrication	For Information
07710	1.4 G	Maintenance Data	Prior to fabrication	For Information
07710	1.4 H	Special Warranty Sample	Prior to fabrication	For Information
07720	1.4 B	Roof Accessories Product Data	60 days prior to fabrication	ENGINEER Approval
07720	1.4 C	Roof Accessories Shop Drawings	60 days prior to fabrication	ENGINEER Approval
07720	1.4 D	Samples for Selection	60 days prior to fabrication	ENGINEER Approval
07720	1.4 E	Coordination Drawings	Prior to fabrication	For Information
07720	1.4 F	Operation and Maintenance Data	Prior to fabrication	For Information
07720	1.4 G	Special Warranty Sample	Prior to fabrication	For Information
07840	1.3 A 1	Firestopping Product Data	60 days prior to installation	ENGINEER Approval
07840	1.3 A 2	Product Schedule	60 days prior to installation	ENGINEER Approval
07840	1.3 A 3	Qualification Data for Installer	Prior to installation	For Information
07840	1.3 A 4	Installer Certificates	Prior to installation	For Information
07840	1.3 A 5	Product Test Reports	Prior to installation	For Information
07900	1.4 A	Joint Sealants Shop Drawings	60 days prior to installation	ENGINEER Approval
07900	1.4 A 1	Joint Sealants Product Data	60 days prior to installation	ENGINEER Approval
07900	1.4 A 2	Samples for Selection	60 days prior to installation	ENGINEER Approval
07900	1.4 A 3	Samples for Verification	60 days prior to installation	ENGINEER Approval
07900	1.4 A 4	Product Schedule	60 days prior to installation	ENGINEER Approval
07900	1.4 A 5	Qualification Data for Installer and Testing Agency	Prior to installation	For Information
07900	1.4 A 6	Product Certificates	Prior to installation	For Information
07900	1.4 A 7	SWRI Validation Certificates	Prior to installation	For Information
07900	1.4 A 8	Product Test Reports	Prior to installation	For Information
07900	1.4 A 9	Preconstruction Compatibility and Adhesion Test Reports	Prior to installation	For Information
07900	1.4 A 10	Preconstruction Field Adhesion Test Reports	Prior to installation	For Information

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07900	1.4 A 11	Field Adhesion Test Reports	Prior to installation	For Information
07900	1.4 A 12	Special Warranty Samples	Prior to installation	For Information
08110	1.4 B	Steel Doors and Frames Product Data	60 days prior to fabrication	ENGINEER Approval
08110	1.4 C	Steel Doors and Frames Shop Drawings	60 days prior to fabrication	ENGINEER Approval
08110	1.4 D	Samples for Selection	60 days prior to fabrication	ENGINEER Approval
08110	1.4 E	Samples for Verification	60 days prior to fabrication	ENGINEER Approval
08110	1.4 F	Product Schedule	Prior to fabrication	For Information
08110	1.4 G	Product Test Reports	Prior to fabrication	For Information
08130	1.3 B	Stainless Steel Doors and Frames Product Data	60 days prior to fabrication	ENGINEER Approval
08130	1.3 C	Stainless Steel Doors and Frames Shop Drawings	60 days prior to fabrication	ENGINEER Approval
08130	1.3 D	Samples for Verification	60 days prior to fabrication	ENGINEER Approval
08130	1.3 E	Product Schedule	Prior to fabrication	For Information
08130	1.3 F	Product Test Reports	Prior to fabrication	For Information
08330	1.4 A 1	Overhead Coiling Doors Product Data	60 days prior to fabrication	ENGINEER Approval
08330	1.4 A 2	Overhead Coiling Doors Shop Drawings	60 days prior to fabrication	ENGINEER Approval
08330	1.4 B	Samples for Selection	60 days prior to fabrication	ENGINEER Approval
08330	1.4 C	Samples for Verification	60 days prior to fabrication	ENGINEER Approval
08330	1.4 D	Delegated Design	As required	ENGINEER Approval
08330	1.4 E	Qualification Data for Installer	Prior to fabrication	For Information
08330	1.4 F	Seismic Qualification Certificates	Prior to fabrication	For Information
08330	1.4 G	Maintenance Data	Prior to fabrication	For Information
08710	1.3 A 1	Finish Hardware Product Data	60 days prior to fabrication	ENGINEER Approval
08710	1.3 A 2	Finish Hardware Shop Drawings	60 days prior to fabrication	ENGINEER Approval
08710	1.3 A 3	Door Hardware and Keying Schedule	60 days prior to fabrication	ENGINEER Approval
08710	1.3 B	Product Test Reports	Prior to fabrication	For Information
08710	1.3 C	Maintenance Data	Prior to fabrication	For Information
08710	1.3 D	Special Warranty Sample	Prior to fabrication	For Information
08810	1.5 B	Glass and Glazing Shop Drawings and Product Data	60 days prior to fabrication	ENGINEER Approval

Section No.	Paragraph No.	Submittal	Submittal Date	Action
08810	1.5 C	Qualification Data for Testing Agency	Prior to fabrication	For Information
08810	1.5 D	Product Certificates	Prior to fabrication	For Information
08810	1.5 E	Special Warranty Samples	Prior to fabrication	For Information
09650	1.3 A 1	Resilient Flooring Base and Accessories Shop Drawings and Product Data	60 days prior to installation	ENGINEER Approval
09650	1.3 A 2	Samples for Selection	60 days prior to installation	ENGINEER Approval
09650	1.3 A 3	Samples for Verification	60 days prior to installation	ENGINEER Approval
09650	1.3 A 4	Qualification Data for Installer	Prior to installation	For Information
09650	1.3 A 5	Maintenance Data	Prior to installation	For Information
09850	1.4 A	High Performance Coatings Shop Drawings	60 days prior to coating application	ENGINEER Approval
09850	1.4 B	High Performance Coatings Product Data	60 days prior to coating application	ENGINEER Approval
09850	1.4 C	Samples for Selection	60 days prior to coating application	ENGINEER Approval
09850	1.4 D	Manufacturer's Installation Instructions	Prior to coating application	For Information
09940	1.3 A	Shop Painting Shop Drawings	60 days prior to coating application	ENGINEER Approval
09941	1.4 A 1	Field Painting Shop Drawings and Product Data	60 days prior to coating application	ENGINEER Approval
09941	1.4 A 2	Samples	60 days prior to coating application	ENGINEER Approval
09941	1.4 A 3	Certifications and First Coat for coatings applied in factory	Prior to coating application	For Information
09941	1.4 A 3	Certifications showing compliance with local regulation of VOC	Prior to coating application	For Information
09941	1.4 A 3	Coating Schedules	Prior to coating application	For Information
09941	1.8 A	Manufacturer's Instruction and Product Data Sheets for protective coatings	30 days prior to coating application	For Information
09941	2.1 C	List of Coating Products	30 days prior to coating application	For Information
09941	3.10 B	Field Quality Control Report Listing Coat Applied and When Completed	As required	For Information
09961	1.5 A 1	Samples of paint, finishes, and other coating materials	60 days prior to use	ENGINEER Approval
09961	1.5 A 2	Coating Materials List	60 days prior to use	ENGINEER Approval
09961	1.5 A 3	Paint Manufacturer's Information	60 days prior to painting	For Information
09961	1.5 B	Manufacturer's Certification	7 days of completion	For Information

Section No.	Paragraph No.	Submittal	Submittal Date	Action
09961	1.5 C	Paint Applicator's Certificate and Report	7 days of completion	For Information
09961	3.9 C	Coating Material Data Sheet	With shop drawings	For Information
09963	1.2 B	Elastomeric Coatings Product Data	60 days prior to coating application	ENGINEER Approval
09963	1.2 C	Samples for Selection	60 days prior to coating application	ENGINEER Approval
09963	1.2 D	Samples for Verification	60 days prior to coating application	ENGINEER Approval
09963	1.2 E	Product List	60 days prior to coating application	ENGINEER Approval
10200	1.5 A 1	Louvers and Vents Product Data	60 days prior to installation	ENGINEER Approval
10200	1.5 A 2	Louvers and Vents Shop Drawings	60 days prior to installation	ENGINEER Approval
10200	1.5 A 3	Samples for Selection	60 days prior to installation	ENGINEER Approval
10200	1.5 A 4	Samples for Verfication	60 days prior to installation	ENGINEER Approval
10200	1.5 A 5	Delegated Design	As required	ENGINEER Approval
10200	1.5 A 6	Product Test Reports	Prior to installation	For Information
10525	1.3 A 1	Safety First Aid and Fire Fighting Equipment Product Data and Shop Drawings	60 days prior to installation	ENGINEER Approval
10525	1.3 A 4	Manufacturer's Installation Instruction	Prior to installation	For Information
10525	1.3 A 5	Maintenance Data	Prior to installation	For Information
10600	1.5 A	Signage Shop Drawings	60 days prior to installation	ENGINEER Approval
10600	1.5 B	Signage Product Data	60 days prior to installation	ENGINEER Approval
10600	1.5 C	Sample for Selection	60 days prior to installation	ENGINEER Approval
10600	1.5 D	Sample for Verification	60 days prior to installation	ENGINEER Approval
10600	1.5 E	Product Schedule	Prior to installation	For Information
10600	1.5 F	Qualification Data for Installer and Manufacturer	Prior to installation	For Information
10600	1.5 G	Special Warranty Sample	Prior to installation	For Information
10600	1.5 H	Maintenance Data	Prior to installation	For Information
10801	1.3 A	Toilet , Bath and Laundry Accessories Shop Drawings	60 days prior to installation	ENGINEER Approval
10801	1.3 B	Toilet, Bath and Laundry Accessories Product Data	60 days prior to installation	ENGINEER Approval
10801	1.3 C	Special Warranty Sample	Prior to installation	For Information

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10801	1.3 D	Maintenance Data	Prior to installation	For Information
11304	1.3 A	Dry Pit Solids Handling Pumps and Appurtenances Shop Drawings	60 days prior to installation	ENGINEER Approval
11304	1.3 B	Copy of Process, HVAC, Electrical and Instrumentation Contract Drawings and/or Corresponding Addenda with or without Markups	60 days prior to installation	ENGINEER Approval
11304	1.3 C	Copy of Specification and/or Corresponding Addenda with or without Markups	60 days prior to installation	ENGINEER Approval
11304	1.5 G 1 a	Written Statement from Pump, Motor, and VFD Manufacturer stating all Parties have reviewed the Pump System	With shop drawing submittal	For Information
11304	1.5 K	Foundation and Support Calculations and Shop Drawings for Pump and Motor	60 days prior to installation	ENGINEER Approval
11304	1.5 L	Anchor Bolts Calculations and Shop Drawings for Pump and Motor	60 days prior to installation	ENGINEER Approval
11304	1.5 M	Steel Mounting Weldment, Beams and Base Plates Shop Drawings and Calculations for Pump and Motor	60 days prior to installation	ENGINEER Approval
11304	1.5 O	Resonant Frequency or Harmonics Analysis and Calculations for the Combined Motor, Shaft, and Pump Assembly for Pumps with VFDs	60 days prior to installation	ENGINEER Approval
11304	2.3 D	Certificate of Unit Responsibility stating all calculations were based on specified seismic force	60 days prior to installation	For Information
11304	2.5 E 1	Calculations Verifying Lateral and Torsional Critical Speeds for Intermediate Shaft	Prior to installation	For Information
11306	1.3 A	Submersible Solids Handling Pumps and Appurtenances Shop Drawings	60 days prior to installation	ENGINEER Approval
11306	1.3 B	Copy of Process, HVAC, Electrical and Instrumentation Contract Drawings and/or Corresponding Addenda with or without Markups	60 days prior to installation	ENGINEER Approval
11306	1.3 C	Copy of Specification and/or Corresponding Addenda with or without Markups	60 days prior to installation	ENGINEER Approval
11306	1.5 J	Calculations for Anchor Bolts to Anchor Pumps and Motors to Foundation and Concrete Support	60 days prior to installation	ENGINEER Approval
11306	2.3 D	Certificate of Unit Responsibility stating all calculations were based on specified seismic force	60 days prior to installation	For Information
11315	1.3A	Dry Pit Immersible Pump Shop Drawings	60 days prior to installation	ENGINEER Approval

Section No.	Paragraph No.	Submittal	Submittal Date	Action
11315	1.3B	Copy of Process, Mechanical, Electrical and Instrumentation Contract Drawings and/or Corresponding Addenda with or without Markups	60 days prior to installation	ENGINEER Approval
11315	1.3 C	Copy of Specification and/or Corresponding Addenda with or without Markups	60 days prior to installation	ENGINEER Approval
11315	1.3D	Calculations for Anchor Bolts to Anchor Pumps and Motors to Foundation and Concrete Support	60 days prior to installation	ENGINEER Approval
11332	1.3 A	Mechanically Cleaned Bar Screen and Grit Removal System Shop Drawings	60 days prior to installation	ENGINEER Approval
11332	1.3 B	Copy of Process, HVAC, Electrical and Instrumentation Contract Drawings and/or Corresponding Addenda with or without Markups	60 days prior to installation	ENGINEER Approval
11332	1.3 C	Copy of Specification and/or Corresponding Addenda with or without Markups	60 days prior to installation	ENGINEER Approval
11332	2.3 D	Certificate of Unit Responsibility stating all calculations were based on specified seismic force	60 days prior to installation	For Information
13312	1.3 B	Operator Workstations Shop Drawings	60 days prior to installation	ENGINEER Approval
13312	1.3 C	Operator Workstations Product Data	60 days prior to installation	ENGINEER Approval
13312	1.3 E	Test Reports	60 days prior to installation	For Information
13312	1.3 F	Manufacturer's Installation Instructions	60 days prior to installation	For Information
13312	1.4 B	Manufacturer's Field Reports	Prior to project closeout	For Information
13312	1.4 C	Project As-Built Documents	Prior to project closeout	For Information
13312	1.4 E	Equipment Data	Prior to project closeout	For Information
13312	1.4 F	Operation Data	Prior to project closeout	For Information
13312	1.4 G	Maintenance Data	Prior to project closeout	For Information
13312	1.4 H	Instruction Manual	Prior to project closeout	For Information
13380	1.3 B	Transient Voltage Surge Suppression Shop Drawings	60 days prior to installation	ENGINEER Approval
13380	1.3 C	Transient Voltage Surge Suppression Product Data	60 days prior to installation	ENGINEER Approval
13380	1.3 D	Manufacturer's Installation Instructions	60 days prior to installation	For Information
13380	1.3 E	Manufacturer's Certificate	60 days prior to installation	For Information
13380	1.4 B	Project As-Built Documents	Prior to project closeout	For Information
13380	1.4 C	Operation Data	Prior to project closeout	For Information

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13380	1.4 D	Maintenance Data	Prior to project closeout	For Information
13380	1.4 E	Instruction Manuals	Prior to project closeout	For Information
13400	1.5 B	Shop Drawings for Process Instrumentation and Control	60 days prior to ordering	ENGINEER Approval
13400	1.5 C	Test Reports	60 days prior to ordering	ENGINEER Approval
13400	1.5 D	Process Instrumentation and Control Product Data	60 days prior to ordering	ENGINEER Approval
13400	1.5 E	Test Outline and Procedure	60 days prior to ordering	ENGINEER Approval
13400	1.5 F	Spare and Expendable Items	60 days prior to ordering	ENGINEER Approval
13400	1.5 G	Prepare In-Factory Inspection and Testing, and Field Wiring and Testing Sign-Off documents	During course of project	For Information
13400	1.5 H	Operation and Maintenance (O&M) Data	As Required	For Information
13400	1.5 I	As-Built Drawings for process instrumentation and control	As Required	For Information
13400	1.6 F 1	Progress Meeting schedule, Submittal Schedule and Project Activity Schedule	45 days of Contract Time Commencement	For Information
13400	1.6 F 4	Startup Schedule	45 Days of Contract Time Commencement	For Information
13400	1.9 B	Warranty and operating instructions of maintenance data	As Required	For Information
13400	3.8 D 4	Equipment calibration certification	Following startup	For Information
13401	1.3 B	System Schematic Drawings	60 days prior to installation	ENGINEER Approval
13401	1.3 C	Instrumentation Equipment Specifications, Dimension Drawings, Wiring and Piping Diagrams	60 days prior to installation	ENGINEER Approval
13415	1.3 B	Doppler Area-Velocity Flow Meter Shop Drawings	60 days prior to installation	ENGINEER Approval
13415	1.3 C	Doppler Area-Velocity Flow Meter Product Data	60 days prior to installation	ENGINEER Approval
13415	1.4 B	Manufacturer's Field Reports	Prior to project closeout	For Information
13415	1.4 C	Project As-Built Documents	Prior to project closeout	For Information
13415	1.4 D	Operation Data	Prior to project closeout	For Information
13415	1.4 E	Maintenance Data	Prior to project closeout	For Information
13415	1.4 F	Instruction Manuals	Prior to project closeout	For Information
13415	3.3 C	Manufacturer's Certification of Flow Meter Installation	Upon completion of installation and testings	For Information
13426	1.3 B	Transmitter and Transducer Shop Drawings	60 days prior to installation	ENGINEER Approval
13426	1.3 C	Transmitter and Transducer Product Data	60 days prior to installation	ENGINEER Approval

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13426	1.3 D	Manufacturer's Certificates	Upon completion of installation and testings	For Information
13426	1.3 E	Manufacturer's Field Reports	Prior to project closeout	For Information
13428	1.3 B	Bubbler Level Measuring System Shop Drawings	60 days prior to installation	ENGINEER Approval
13428	1.3 C	Bubbler Level Measuring System Product Data	60 days prior to installation	ENGINEER Approval
13428	1.3 D	Bubbler Level Measuring System Mounting Details	60 days prior to installation	ENGINEER Approval
13428	1.3 E	Test Reports	As required	For Information
13428	1.3 F	Manufacturer's Installation Instruction	60 days prior to installation	For Information
13428	1.3 G	Manufacturer's Certificates	Upon completion of installation and testings	For Information
13428	1.4 B	Manufacturer's Field Reports	Prior to project closeout	For Information
13428	1.4 C	Project As-Built Documents	Prior to project closeout	For Information
13428	1.4 D	Operation Data	Prior to project closeout	For Information
13428	1.4 E	Maintenance Data	Prior to project closeout	For Information
13428	1.4 F	Instruction Manuals	Prior to project closeout	For Information
13430	1.3 B	Pressure Transmitters Shop Drawings	60 days prior to installation	ENGINEER Approval
13430	1.3 C	Pressure Transmitters Product Data	60 days prior to installation	ENGINEER Approval
13430	1.3 D	Test Reports	As Required	For Information
13430	1.3 E	Manufacturer's Installation Instruction	60 days prior to installation	For Information
13430	1.3 F	Manufacturer's Certificates	Upon completion of installation and testings	For Information
13430	1.4 B	Manufacturer's Field Reports	Prior to project closeout	For Information
13430	1.4 C	Project As-Built Documents	Prior to project closeout	For Information
13430	1.4 D	Operation Data	Prior to project closeout	For Information
13430	1.4 E	Maintenance Data	Prior to project closeout	For Information
13430	1.4 F	Instruction Manuals	Prior to project closeout	For Information
13435	1.3 B	Temperature Transmitters Shop Drawings	60 days prior to installation	ENGINEER Approval
13435	1.3 C	Temperature Transmitter Product Data	60 days prior to installation	ENGINEER Approval
13435	1.3 D	Test Reports	As Required	For Information
13435	1.3 E	Manufacturer's Installation Instructions	60 days prior to installation	For Information
13435	1.3 F	Manufacturer's Certificates	Upon completion of installation and testings	For Information
13435	1.4 B	Manufacturer's Field Reports	Prior to project closeout	For Information

Section No.	Paragraph No.	Submittal	Submittal Date	Action
13435	1.4 C	Project As-Built Documents	Prior to project closeout	For Information
13435	1.4 D	Operation Data	Prior to project closeout	For Information
13435	1.4 E	Maintenance Data	Prior to project closeout	For Information
13435	1.4 F	Instruction Manuals	Prior to project closeout	For Information
13436	1.3 B	Door Switch Shop Drawings	60 days prior to installation	ENGINEER Approval
13436	1.3 C	Door Switch Product Data	60 days prior to installation	ENGINEER Approval
13436	1.3 D	Manufacturer's Installation Instructions	60 days prior to installation	For Information
13436	1.3 E	Manufacturer's Certificates	Upon completion of installation and testings	For Information
13436	1.4 B	Manufacturer's Field Reports	Prior to project closeout	For Information
13436	1.4 C	Project As-Built Documents	Prior to project closeout	For Information
13436	1.4 D	Operation Data	Prior to project closeout	For Information
13436	1.4 E	Maintenance Data	Prior to project closeout	For Information
13450	1.4 C	Modular Programmable Logic Controllers (PLC) Shop Drawings	60 days prior to installation	ENGINEER Approval
13450	1.4 E	Modular Programmable Logic Controllers (PLC) Product Data	60 days prior to installation	ENGINEER Approval
13450	1.4 F	Test Reports	As Required	For Information
13450	1.4 G	Manufacturer's Field Reports	Prior to project closeout	For Information
13450	1.4 H	Manufacturer's Installation Instructions	60 days prior to installation	For Information
13450	1.4 I	Manufacturer's Certificates	Upon completion of installation and testings	For Information
13450	1.5 B	Project As-Built Documents	Prior to project closeout	For Information
13450	1.5 E	Operation and Maintenance Data	Prior to project closeout	For Information
13450	1.5 F	System Configuration	Prior to project closeout	For Information
13451	1.2 A	Brick PLC Product Data	60 days prior to installation	ENGINEER Approval
13453	1.3 B	Operator Interface Unit Product Data	60 days prior to installation	ENGINEER Approval
13453	1.3 C	Detailed Bill of Materials	60 days prior to installation	ENGINEER Approval
13454	1.2 B	Operator Interface Unit Product Data	60 days prior to installation	ENGINEER Approval
13454	1.2 C	Detailed Bill of Materials	60 days prior to installation	ENGINEER Approval
13455	1.3 A 1	Ethernet Network Equipment Product Data	60 days prior to installation	ENGINEER Approval
13455	1.3 A 2	Ethernet Network Equipment Shop Drawings	60 days prior to installation	ENGINEER Approval

Section No.	Paragraph No.	Submittal	Submittal Date	Action
13455	3.6 A	Fiber Optic Cable Test Results	5 working days upon completion of test	For OWNER Inspection
13491	2.9 B	Software and Configuration Manuals	Prior to project closeout	For Record
13492	3.2 G 3.3 B 5	In-factory Inspection and Testing Sign-Off Documents	Prior to project closeout	For Record
13495	2.3 A	As-Built Documentation for Process Control System	Prior to substantial completion	ENGINEER Approval
13495	3.2	Paper copies of O&M data	30 days of shop drawing approval	ENGINEER Approval
13495	3.3	Electronic copy of O&M data	30 days of approval of paper copy	ENGINEER Approval
13495	3.4	Complete O&M data - paper copy	30 days after shop drawing approval	For Information
13650	1.4 A	Stainless Steel Dome Cover Shop Drawings	60 days prior to installation	ENGINEER Approval
13750	1.3 B	CCTV System Shop Drawings	60 days prior to installation	ENGINEER Approval
13750	1.3 C	CCTV Service Manuals	Prior to project closeout	ENGINEER Approval
13850	1.4 B	Fire Detection and Alarm Shop Drawings	60 days prior to installation	ENGINEER Approval
13850	1.4 C	Fire Protection and Alarm Product Data	60 days prior to installation	ENGINEER Approval
13850	1.4 D	Test Reports	60 days prior to installation	ENGINEER Approval
13850	1.4 E	Manufacturer's Field Reports	Prior to project closeout	For Information
13850	1.4 F	Manufacturer's Installation Instructions	60 days prior to installation	For Information
13850	1.4 G	Manufacturer's Certificates	Upon completion of installation and testings	For Information
13850	1.5 B	Project As-Built Documents	Prior to project closeout	For Information
13850	1.5 C	Operation Data	Prior to project closeout	For Information
13850	1.5 D	Maintenance Data	Prior to project closeout	For Information
14215	1.4 B	Electric Traction Elevators Product Data	60 days prior to installation	ENGINEER Approval
14215	1.4 C	Electric Traction Elevators Shop Drawings	60 days prior to installation	ENGINEER Approval
14215	1.4 D	Samples for Selection	60 days prior to installation	ENGINEER Approval
14215	1.4 E	Samples for Verification	60 days prior to installation	ENGINEER Approval
14215	1.4 F	Manufacturer Certificates	60 days prior to installation	For Information
14215	1.4 G	Qualification Data for Installer	60 days prior to installation	For Information
14215	1.4 H	Operation and Maintenance Data	60 days prior to installation	For Information

Section No.	Paragraph No.	Submittal	Submittal Date	Action
14215	1.4 I	Inspection and Acceptance Certificates and Operating Permit	As required	For Information
14215	1.4 J	Special Warranty Sample	As required	For Information
14215	1.4 K	Continuing Maintenance Proposal	As required	For Information
14215	3.1 A	Written Report by Installer	Prior to installation	For Information
14370	1.3 A	Bridge Crane, Guide Beam and Appurtenances Shop Drawings	60 days prior to installation	ENGINEER Approval
14370	1.3 B	Copy of Process, Electrical and Instrumentation Contract Drawings and/or Corresponding Addenda with or without Markups	60 days prior to installation	ENGINEER Approval
14370	1.3 C	Copy of Specification and/or Corresponding Addenda with or without Markups	60 days prior to installation	ENGINEER Approval
14370	1.3 D	Calculations, Drawings, and Certificates of Design for the Guide Beam and Related Appurtenances	60 days prior to installation	ENGINEER Approval
14370	2.4 D	Certificate of Unit Responsibility stating all calculations were based on specified seismic force	60 days prior to installation	For Information
15056	1.3 A	Pipe Support Drawings with Calculations and Certificate of Design	60 days prior to installation	ENGINEER Approval
15056	1.3 B	Material Certificates	60 days prior to installation	ENGINEER Approval
15056	1.3 C	Copy of Process and Structural Contract Drawings and/or Corresponding Addenda with or without Markups	60 days prior to installation	ENGINEER Approval
15056	1.3 D	Copy of Specification and/or Corresponding Addenda with or without Markups	60 days prior to installation	ENGINEER Approval
15056	1.4 B	Manufacturer's Certification	60 days prior to installation	For Information
15072	1.3 A	Steel Pipe and Fittings Shop Drawings	60 days prior to installation	ENGINEER Approval
15072	1.3 B	Manufacturer's Certification	60 days prior to installation	ENGINEER Approval
15072	1.3 C	Copy of Process and Structural Contract Drawings and/or Corresponding Addenda with or without Markups	60 days prior to installation	ENGINEER Approval
15072	1.3 D	Copy of Specification and/or Corresponding Addenda with or without Markups	60 days prior to installation	ENGINEER Approval
15075	1.3 A	Identification of Equipment Piping Ducts and Valves Product Data and Shop Drawings, Samples and Valve Schedules	60 days prior to installation	ENGINEER Approval

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15081	1.3 A	HVAC Insulation Product Data, Certificates and Licenses for Installer	60 days prior to installation	ENGINEER Approval
15082	1.3 A	Plumbing Insulation Product Data, Certificates and Licenses for Installer	60 days prior to installation	ENGINEER Approval
15101	1.3 A	Process Valves and Appurtenances Shop Drawings and Product Data	60 days prior to installation	ENGINEER Approval
15101	1.3 B	Copy of Process and Structural Contract Drawings and/or Corresponding Addenda with or without Markups	60 days prior to installation	ENGINEER Approval
15101	1.3 C	Copy of Specification and/or Corresponding Addenda with or without Markups	60 days prior to installation	ENGINEER Approval
15103	1.4 A	Slide Gates Shop Drawings and Product Data	60 days prior to installation	ENGINEER Approval
15103	1.4 B	Copy of Mechanical, Structural, Electrical and Instrumentation Contract Drawings and/or Corresponding Addenda with or without Markups	60 days prior to installation	ENGINEER Approval
15103	1.4 C	Copy of Specification and/or Corresponding Addenda with or without Markups	60 days prior to installation	ENGINEER Approval
15108	1.3 A	Automatic Pump Check Valves and Appurtenances Shop Drawings and Product Data	60 days prior to installation	ENGINEER Approval
15108	1.3 B	Copy of Specification and/or Corresponding Addenda with or without Markups	60 days prior to installation	ENGINEER Approval
15108	1.3 C	Copy of Process and Structural Contract Drawings and/or Corresponding Addenda with or without Markups	60 days prior to installation	ENGINEER Approval
15109	1.3 A	Electric Motor Actuators and Appurtenances Shop Drawings and Product Data	60 days prior to installation	ENGINEER Approval
15109	1.3 B	Copy of Process, Electrical and Instrumentation Contract Drawings and/or Corresponding Addenda with or without Markups	60 days prior to installation	ENGINEER Approval
15109	1.3 C	Copy of Specification and/or Corresponding Addenda with or without Markups	60 days prior to installation	ENGINEER Approval
15109	2.2 A	Motor Test Results	Prior to installation	For review
15112	1.3 A	Stop Logs and Appurtenances Shop Drawings		
15112	1.3 B	Copy of Process and Structural Contract Drawings and/or Corresponding Addenda with or without Markups	60 days prior to installation	ENGINEER Approval

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15112	1.3 C	Copy of Specification and/or Corresponding Addenda with or without Markups	60 days prior to installation	ENGINEER Approval
15195	1.3 A	Natural Gas Piping Systems Shop Drawings and Product Data	60 days prior to installation	ENGINEER Approval
15195	1.4 A 1	Qualifications of Installer	Prior to installation	For Information
15195	1.4 A 2	Qualifications of Welders	Prior to installation	For Information
15195	1.4 B	Qualifications of Construction Supervisor	Prior to installation	For Information
15195	1.10 E	As-Built Drawings	Upon completion of work	For Acceptance
15370	1.3 A	Process Piping and Appurtenances Shop Drawings and Product Data		
15370	1.3 B	Copy of Process, Electrical and Instrumentation Contract Drawings and/or Corresponding Addenda with or without Markups	60 days prior to installation	ENGINEER Approval
15370	1.3 C	Copy of Specification and/or Corresponding Addenda with or without Markups	60 days prior to installation	ENGINEER Approval
15410	1.4 A	Plumbing Systems Shop Drawings and Product Data	60 days prior to installation	ENGINEER Approval
15410	1.4 E	Qualifications of Installer	Prior to installation	For Information
15410	1.4 F	Qualifications of Construction Supervisor	Prior to installation	For Information
15410	1.8 H	Coordination Drawings	Prior to installation	For Acceptance
15410	3.2 B	Test Procedures and Reports	Prior to tests	For Approval
15410	3.2 C	Test Reports for Backflow Preventer	5 days after test	For Approval
15806	1.3 A	Heating Ventilating and Air Conditioning Shop Drawings and Product Data	60 days prior to installation	ENGINEER Approval
15806	1.4 D	Alternate Equipment and Arrangement	As required	ENGINEER Approval
15806	1.4 E	Qualifications of Installers and Welders	Prior to installation	For Information
15806	1.4 F	Qualifications of Construction Supervisor	Prior to installation	For Information
15806	1.6 A	Manufacturer's Specifications	60 days prior to installation	ENGINEER Approval
15806	1.7 H	Coordination Drawings	Prior to installation	For Acceptance
15806	1.12 E	As-Built Drawings	Upon completion of work	For Acceptance
15806	2.18 A	Vent Piping System Shop Drawings	60 days prior to installation	ENGINEER Approval
15806	2.40 D	Test Results of System Flush-out Tests	Following installation	For Information
15806	2.40 F	Letter Agreement between Pump Manufacturer and Water Treatment Subcontractor	Prior to equipment acceptance	For Information

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15806	3.5 F 4	Field Acceptance Test Plans for each Equipment	Within 120 calendar days after award of contract	For Information
15806	3.5 F 6	Field Acceptance Test Results	Within 14 calendar days after acceptance tests	For Acceptance
15900	1.4 A	HVAC Control Systems Shop Drawings and Product Data	60 days prior to installation	ENGINEER Approval
15900	1.4 A 6	Certifications	60 days prior to installation	For Information
15900	1.4 A 7	As Built Drawings	Upon completion of work	ENGINEER Approval
15900	1.5 D	Alternate Equipment and Arrangement	As required	ENGINEER Approval
15900	1.5 K	Calibration Adjustment and Commissioning Reports	Upon completion	For Information
15900	1.5 L	Operation and Maintenance Manuals	Prior to project closeout	ENGINEER Approval
15900	1.5 M	Control Contractor's Qualifications	Prior to installation	For Information
15900	1.5 N 1; 3.6 D	Performance Verification Testing Plan	Prior to test	For Acceptance
15900	1.5 H 1; 3.6 D	PVT Report	Upon completion of test	For Acceptance
15900	1.5 H 1; 3.7	Training Documentation	30 days before training	For Acceptance
15900	1.5 H 1	Closeout Submittal	Upon completion of work	For Acceptance
15900	1.7 A	Manufacturer's Specifications	60 days prior to installation	ENGINEER Approval
15900	1.12 D	As-Built Drawings	Upon completion of work	ENGINEER Approval
15900	3.5 A	Operation Manuals	Within 1 month after PVT acceptance	ENGINEER Approval
15900	3.10	Agreement of Programmed Maintenance	Upon project acceptance	OWNER Acceptance
15950	1.4 B; 1.5 A	HVAC Testing Adjusting and Balancing Work Schedule	Prior to start of work	For Acceptance
15950	1.6 A	Written Report on Design Deficiencies, if any	As required	ENGINEER Approval
15950	1.6 B	Pre-Field TAB Report	Prior to testing	For Acceptance
15950	1.7 A; 3.2 D; 3.2 F	Pre-Final DALT Report and Certified Final DALT Report	Upon completion of tests	For Acceptance
15950	1.7 B; 3.3 F	Pre-Final TAB Report and Certified TAB Reports	Upon completion of tests	For Acceptance
16050	1.2 A	Electrical Materials Product Data	60 days prior to order	ENGINEER Approval
16050	1.2 B	Electrical Materials Shop Drawings	60 days prior to order	ENGINEER Approval
16070	1.7 B	Supporting Devices Shop Drawing	60 days prior to order	ENGINEER Approval
16070	1.7 C	Supporting Devices Product Data	60 days prior to order	ENGINEER Approval
16070	1.7 D	Firestopping Schedule	60 days prior to order	ENGINEER Approval

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16070	1.7 E	Design Data	60 days prior to order	ENGINEER Approval
16070	1.7 F	Manufacturer's Installation Instruction	60 days prior to order	ENGINEER Approval
16070	1.7 G	Manufacturer's Certificate	60 days prior to order	ENGINEER Approval
16075	1.3 A	As-Built Drawings	Prior to substantial completion	For Information
16075	1.3 B	Maintenance Data	Prior to substantial completion	For Information
16110	1.1 D	Proposed Deviations for Raceway and Boxes for Electrical Systems	Prior to installation	ENGINEER Approval
16110	1.3 A	Raceway and Boxes for Electrical Systems Shop Drawings and Product Data	60 days prior to installation	ENGINEER Approval
16120	1.3 A	Electrical Wires and Cables Shop Drawings and Product Data	60 days prior to installation	ENGINEER Approval
16120	3.6 A	Field Test Results	Upon completion of testing	For Information
16124	1.3 A 1	Medium Voltage Cable Test Reports	Prior to shipping	ENGINEER Approval
16124	1.3 A 2	Medium Voltage Cable Catalogue Data	Prior to shipping	ENGINEER Approval
16133	1.3 A	Cable Trays for Electrical Systems Shop Drawings and Product Data	60 days prior to installation	ENGINEER Approval
16140	1.3 A	Wiring Devices Shop Drawings and Product Data	60 days prior to installation	ENGINEER Approval
16151	1.3 A	Medium Voltage Motors Shop Drawings	60 days prior to installation	ENGINEER Approval
16151	2.8 A	Certified Tests	Upon completion of testing	For Information
16160	1.3 A	Panelboards Shop Drawings and Product Data	60 days prior to installation	ENGINEER Approval
16220	1.3 A	Electric Motors Shop Drawings	60 days prior to installation	ENGINEER Approval
16220	1.3 A 3	Coordination Certificates for Pump, Motor, and VFD	Prior to installation	For Information
16220	2.3 O; 3.1 D	Certified Motor Shop Test Results	Prior to installation	For Information
16260	1.3 A	Variable Frequency Motor Controllers Shop Drawings and Product Data	60 days prior to installation	ENGINEER Approval
16260	3.4 C	Field Test Results	Upon completion of tests	For Information
16261	1.3	Static Uninterruptible Power Supplies Shop Drawings and Product Data	60 days prior to installation	ENGINEER Approval
16261	1.4	Operation and Maintenance Data	Prior to project closeout	For Information
16272	1.3	Pad-Mounted Transformers Shop Drawings and Product Data	60 days prior to installation	ENGINEER Approval

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16320	1.3 A	Dry-Type Transformers Shop Drawings and Product Data	60 days prior to installation	ENGINEER Approval
16320	2.3 A	Shop Test Results	Prior to shipping	For Information
16342	1.3 A 1	Medium Voltage Circuit Breaker Switchgear Shop Drawings and Product Data	60 days prior to installation	ENGINEER Approval
16342	1.3 A 2	System Protection Device Coordination Study	60 days prior to installation	ENGINEER Approval
16342	3.2 B	Signed Statement Stating the Equipment has been properly installed	Upon completion of installation	For Information
16344	1.4	Medium Voltage Bus Distribution System Shop Drawings	60 days prior to installation	ENGINEER Approval
16346	1.3	Medium Voltage Motor Variable Frequency Drive Shop Drawings	60 days prior to installation	ENGINEER Approval
16346	1.4	Medium Voltage Motor Variable Frequency Drive As-Built Document	Prior to closeout	For Information
16346	1.4 E, F	Medium Voltage Motor Variable Frequency Drive Operation and Maintenance Manual	Prior to closeout	For Information
16361	1.3 A	Low Voltage Switchgear shop Drawings and Product Data	60 days prior to installation	ENGINEER Approval
16363	1.3 A	Secondary Unit Substations Shop Drawings and Product Data	60 days prior to installation	ENGINEER Approval
16363	1.3 B	Components of Secondary Substation	60 days prior to installation	ENGINEER Approval
16363	1.3 E	Operation and Maintenance Data	Upon completion of installation	ENGINEER Approval
16400	1.3 A	Transient Voltage Surge Suppression Shop Drawings and Product Data	60 days prior to installation	ENGINEER Approval
16400	2.4 C	Certified Documentation of all Factory Tests	Prior to installation	For Informatiion
16402	1.3 A 1	Underground Ducts and Raceways for Electrical Systems Shop Drawings and Product Data	60 days prior to installation	ENGINEER Approval
16402	1.3 A 2	As-Built Drawings	Upon completion of work	For Information
16441	1.3 A	Switchboards Shop Drawings	60 days prior to installation	ENGINEER Approval
16441	1.3 B	Switchboards Product Data	60 days prior to installation	ENGINEER Approval
16450	1.3 A	Grounding and Bonding for Electrical Systems Shop Drawings and Product Data	60 days prior to installation	ENGINEER Approval
16500	1.3 A	Interior Lighting Shop Drawings and Product Data	60 days prior to installation	ENGINEER Approval
16500	1.4 B	Exterior Lighting Product Data	60 days prior to installation	ENGINEER Approval

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16500	1.4 C	Exterior Lighting Shop Drawings	60 days prior to installation	ENGINEER Approval
16500	1.4 D	Test Results	60 days prior to installation	ENGINEER Approval
16500	1.4 E	Operation and Maintenance Data	Upon completion of work	ENGINEER Approval
16710	1.4 B	Communication Circuits Shop Drawings	60 days prior to installation	ENGINEER Approval
16710	1.4 C	Communication Circuits Product Data	60 days prior to installation	ENGINEER Approval
16710	1.4 D	Test Results	60 days prior to installation	ENGINEER Approval
16710	1.5 B	As-Built Drawings	Upon completion of work	For Information
16920	1.3 A	Motor Control Centers Shop Drawings and Product Data	60 days prior to installation	ENGINEER Approval
16920	2.2 L	Fuse Switches and Size	Prior to installation	For Review
16990	1.3 A 1	Short Circuit and Protective Device Coordination Study	60 days prior to installation	ENGINEER Approval
16990	1.3 A 2	Voltage Drop Motor Starting Study	60 days prior to installation	ENGINEER Approval
16990	1.3 A 4	Voltage and Current Total Harmonic Analysis Study	60 days prior to installation	ENGINEER Approval
16990	1.3 A 6	Qualifications of Testing Agencies	60 days prior to installation	ENGINEER Approval
16990	1.4 A	Qualification of Specialty Firm	60 days prior to installation	ENGINEER Approval

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