NELSON

ADDENDUM 6

Minneapolis, MN

Date: 01/23/2026

Project Name: Coushatta Education Building

Project Number: 24.0002607.000

This Addendum 6 becomes as fully a part of the first issued documents as if originally issued therewith or originally contained herein.

This Addendum embraces additions to deductions from all changes and substitutions in, or clarifications and emphasis on part of requirements of the drawings and specifications, pertaining to ALL TRADES herewith mentioned for the completion of the PROJECT.

PROJECT MANUAL

00 04 10 – Bid Proposal Form

1. Update the bid security to reflect 5% in lieu of the previous stated 10%.

Louisiana Public Work Form

1. Add revised LA Public Work Form with updated information. To be filled out and included along with 00 04 10 Bid Proposal Form.

23 81 26 – Split System Air Conditioners

1. Add to 2.01.A Manufacturers: 9. Samsung

23 34 00 - HVAC Fans

1. Add to 2.4.A Manufacturers: 8. Valent

27 41 16 – Audio Visual System

1. Add Section to the Project Manual in its entirety.

28 20 00 – Electronic Surveillance

1. Add Section to the Project Manual in its entirety.

DRAWINGS

Sheet C1.01 – Existing Conditions & Demolition Plan

1. Update keynote #7 to be Not Used.
2. Update the amount of existing asphalt to be demolished at Keynote 2 and See asterisked 2 note for saw cut line.
3. Update to include asterisked keynote 3 for saw cut line.

Sheet C2.01 – Layout Plan

1. Update 1/C2.01 plan to include dashed line and plan note indicating Limits of Construction.

*Remaining Civil Sheets provided only for purposes of a complete updated set of civil drawings. Revisions for Addendum 6 only as indicated above.

E100 – Site Plan Electrical

1. See updated keynote #2 which includes EV Charger make and model language from previous Addendum issuance.

E700 – One-Line Riser Diagram

1. Update 2/E700 One-Line Riser Diagram EV information as indicated.

E900 – Schedules Electrical

1. Update Lighting Fixture Schedule for B2 Lighting Fixture to be 3G Lighting as indicated on sheet.
2. Update Panelboard EV voltage and Trip information as indicated on sheet.

OTHER

Request for Information Questions and Responses:

Question	Response
For the road project previously completed at Coushatta they mentioned using material from the pit on the reservation and bringing spoils across the road on the reservation as well. Was that mentioned at all? I have searched the literature and cannot find anything on it.	We cannot confirm ahead of bid if there is enough qualifying material to recommend this. We can revisit at pre-construction if this is a viable option.
Corner Guards – Could you clarify what size to quote? On Page A4.01 – CG-1 Calls for 9' and spec section says 12' Could you verify that other than temporary irrigation is required? If full-service irrigation system, we would need a few more days past deadline to submit	Drawing holds with 9-foot height. Irrigation is temporary for plant establishment purposes.

END OF ADDENDUM

SECTION 00 0410

BID PROPOSAL FORM

To: Kristian Poncho

Secretary-Treasurer

Coushatta Tribe of Louisiana

Having examined all bidding requirements, general conditions, specifications and drawings entitled **COUSHATTA TRIBE – EDUCATION BUILDING,** Coushatta Tribe of Louisiana, Elton, Louisiana, dated 12/5/25, and addenda similarly entitled and numbered, _____, _____, _____, _____, _____, _____, as prepared by Nelco Architecture, Inc.; QK4, Inc., Civil Engineering; Dana Brown & Associates, Landscape Architect; Marais Consultants, Structural Engineer; Windward Engineering, MEPFA Engineering; and Moynan Consulting, LLC, Food Service Designers, and having visited the site and examined all conditions affecting the work, the undersigned agrees to furnish and pay for all labor, materials, and equipment for the following Construction Contract as required by the afore-mentioned documents for the following proposals:

Stipulated Sum Base Bid for General Construction_____

_____Dollars, ($_____.____)

Unit prices shall be shown in words and figures for each item listed in this proposal, and tin the event of discrepancy, the words shall control. Unit price is an amount proposed by Bidders and stated on the Bid Form as a price per unit of measurement for materials or services. The Unit price is to included all costs of material, labor, overhead, profit, taxes and insurance for the completely installed unit.

Unit Price 1 - EV Charging Stalls QTY: UNIT: UNIT BID PRICE: $_____

State the unit price amount to provide EV Charging Spaces as a complete installed system with charger and as indicated on E100 Site Plan Electrical, and all associated demolition, to provide the wiring and Dual EV Chargers. The EV charger shall be ChargePoint model CP6021X-80A-L7. The parking lot is existing and boring is the means to provide the utility line to the new chargers.

Unit Price 2 - Seal Coat Parking Lot QTY: UNIT: UNIT BID PRICE: $_____

State the unit price amount to seal coat the existing 32-stall parking lot and drive adjacent south to the new building within one year of construction indicated on C2.01 Layout Plan, and including all necessary restriping.

Unit Price 3 - Replace ADA stalls as Concrete QTY: UNIT: UNIT BID PRICE: $_____ __

State the unit price amount to cut and remove existing asphalt ADA parking stalls (2 thus) and associated accessibility aisle and replace with concrete surface for ADA parking stalls (2 thus) and associated accessible aisle, see Sheet C1.01. Include all new concrete pavement, subgrade, and necessary striping and signage as indicated on C2.01, C3.01, C6.02, 2/AS1.01, 3/AS1.01, and 6/AS1.01 and provide tie in with new accessible curb cut and adjacent sidewalk as indicated on 4/AS1.01. See detail 1/C6.01 for concrete parking pavement typical section and 2/C6.01 for sidewalk typical section.

BIDDER has familiarized themselves with the nature and extent of the Contract Documents including Work, site, locality, and all local conditions and Laws and Regulations that in any manner may affect cost, progress, performance or furnishing of the Work.

BIDDER is familiar with all laws and regulations that may affect cost, progress, and performance of the work, including BABAA requirements. The recipient must comply with the provisions of the Build America, Buy America Act (the "Act"). Pub. L. No. 117-58, §§ 70901-52, enacted on November 15, 2021.

BIDDER has given the Architect and its consultants written notice of all conflicts, errors, or discrepancies that it has discovered in the Contract Documents and the written resolution by the Architect is acceptable to BIDDER.

NOTE: This BID FORM Shall be submitted in DUPLICATE.

SIGNED:

_____, a (Sole Proprietorship) (Partnership) (Corporation).
FIRM NAME (strike through two)

_____,

Street Address

_____,

City, State, Zip Code Address

_____, _____,

Signed By, **Title**

_____, _____,

Signed By, **Title**

_____, _____,

Signed By, **Title**

_____, _____,

Signed By, **Title**

_____, _____,

Witnessed By, **Title**

1. Sole Proprietorship: Signature of Sole Proprietor in the presence of a witness who will also sign. Insert the words “Sole Proprietor” under the signature. Affix seal.
2. Partnership: Signature of all partners in the presence of a witness who will also sign. Insert the word “Partner” under each signature. Affix seal to each signature.
3. Corporation: Signature of a duly authorized signing officer(s) in their normal signatures. Insert the officer’s capacity in which the signing officer acts, under each signature. Affix the corporate seal. If the bid is signed by officials other than the president and the secretary of the company, or the president/secretary/treasurer of the company, a copy of the by-law resolution of their board of director’s authorizing them to do so, must be submitted with the Bid Form in the bid envelope.

The Following items are a condition of this Bid:

1. Bid Security in the form of five percent Bid Bond (Enclose in Bid Security envelope).
2. Copy of Louisiana Contractor’s license or Certificate of Renewal (Enclose in Bid Security envelop).

END OF BID PROPOSAL FORM

LOUISIANA UNIFORM PUBLIC WORK BID FORM

TO: Kristian Poncho
Secretary- Treasurer
Coushatta Tribe of Louisiana

BID FOR: Coushatta Tribe Education Building

The undersigned bidder hereby declares and represents that she/he: a) has carefully examined and understands the Bidding Documents, b) has not received, relied on, or based his bid on any verbal instructions contrary to the Bidding Documents or any addenda, c) has personally inspected and is familiar with the project site, and hereby proposes to provide all labor, materials, tools, appliances and facilities as required to perform, in a workmanlike manner, all work and services for the construction and completion of the referenced project, all in strict accordance with the Bidding Documents prepared by: Nelco Architecture Inc., QK4, Inc., Civil Engineering; Dana Brown & Associates, Landscape Architect; Marais Consultants, Structural Engineer; Windward Engineering, MEPFA Engineering; and Moynan Consulting, LLC, Food Service Designers and dated: 12/05/2025

Bidders must acknowledge all addenda. The Bidder acknowledges receipt of the following **ADDENDA:** (Enter the number the Designer has assigned to each of the addenda that the Bidder is acknowledging)

_____ .

TOTAL BASE BID: For all work required by the Bidding Documents (including any and all unit prices designated "Base Bid" * but not alternates) the sum of:

_____Dollars ($ _____)

ALTERNATES: None

NAME OF BIDDER: _____

ADDRESS OF BIDDER: _____

_____

LOUISIANA CONTRACTOR'S LICENSE NUMBER: _____

NAME OF AUTHORIZED SIGNATORY OF BIDDER: _____

TITLE OF AUTHORIZED SIGNATORY OF BIDDER: _____

SIGNATURE OF AUTHORIZED SIGNATORY OF BIDDER **: _____

DATE: _____

THE FOLLOWING ITEMS ARE TO BE INCLUDED WITH THE SUBMISSION OF THIS LOUISIANA UNIFORM PUBLIC WORK BID FORM:

* The Unit Price Form shall be used if the contract includes unit prices. Otherwise it is not required and need not be included with the form. The number of unit prices that may be included is not limited and additional sheets may be included if needed.

**** A CORPORATE RESOLUTION OR WRITTEN EVIDENCE** of the authority of the person signing the bid for the public work as prescribed by LA R.S. 38:2212(B)(5).

BID SECURITY in the form of a 5% bid bond, certified check or cashier's check as prescribed by LA R.S. 38:2218(A) attached to and made a part of this bid.

LOUISIANA UNIFORM PUBLIC WORK BID FORM
UNIT PRICE FORM

TO: Kristian Poncho
Secretary- Treasurer
Coushatta Tribe of Louisiana

BID FOR: Coushatta Tribe Education Building

UNIT PRICES: This form shall be used for any and all work required by the Bidding Documents and described as unit prices. Amounts shall be stated in figures and only in figures.

DESCRIPTION: EV Charging Stalls	❑ Base Bid or ❑ Alt.# ___			
REF. NO. 1	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION *(Quantity times Unit Price)*

DESCRIPTION: Seal Coat Parking Lot	❑ Base Bid or ❑ Alt.# ___			
REF. NO. 2	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION *(Quantity times Unit Price)*

DESCRIPTION: Replace ADA stalls as Concrete	❑ Base Bid or ❑ Alt.# ___			
REF. NO. 3	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION *(Quantity times Unit Price)*

Wording for "DESCRIPTION" is to be provided by the Owner in Project Manual Section 00 0410 Bid Proposal Form.
All quantities are estimated. The contractor will be paid based upon actual quantities as verified by the Owner.

SECTION 27 4116

INTEGRATED AUDIO-VISUAL SYSTEMS

PART 1 - GENERAL

1.01 DESCRIPTION

A. General: Provide turnkey audiovisual systems, to include equipment and materials, whether specifically mentioned herein or not, to ensure complete and operating systems.

B. The requirements described in this section include the following:

1. References
2. Submittals
3. Project Management and Coordination
4. Delivery, Storage, and Handling
5. Scheduling
6. Warranty
7. Maintenance
8. Project Closeout and Record Documents

C. Refer to Bidding Requirements, Contract Forms, Conditions of Contract, and Division 1, General Requirements. Provisions listed or specified therein apply to work under this section.

D. The audio visual contractor must coordinate their work with others for a successful project. When working under a General Contractor, the contractor is responsible for coordinating with the scope leads for the following scopes:

1. Division 1 – General
2. Division 11 - Equipment
3. Division 26 – Electrical
4. Division 27 – Communications
    a. Section 27 10 00 Structured Cabling

1.02 REFERENCES

A. Comply with the reference requirements of Section 27 10 00.

B. General

1. Codes, standards, and industry manuals/guidelines listed by reference, including revisions by issuing authority, form a part of this specification section to extent indicated. Consider such codes and/or standards a part of this Specification as though fully repeated herein.
2. Standards listed are identified by issuing authority, authority abbreviation, designation number, title or other designation established by issuing authority. Standards subsequently referenced herein are referred to by issuing authority abbreviation and standard designation.
3. References to codes, standards, specifications and recommendations of technical societies, trade organizations and governmental agencies shall indicate the use of the latest editions of such publications adopted and published prior to the submittal of the bid unless otherwise specifically stated.

C. Codes: Perform Work and furnish materials and equipment under Division 27 in accordance with applicable requirements of the latest edition of governing codes, rules and regulations including but not limited to the following minimum standards, whether statutory or not:

1. National Fire Protection Agency (NFPA)
2. NFPA 70, “National Electrical Code” (NEC)
3. NFPA 75, “Protection of Information Technology Equipment”
4. International Code Council
5. International Building Code (2009)
6. International Fire Code (2009)
7. ICC Performance Code (2009)
8. Other national, state, and local binding building and fire codes

D. In addition to the references (codes, standards, etc.) listed in Section 27 10 00, comply with the latest edition of the following applicable specifications and standards except as otherwise shown or specified:

E. Perform work in accordance with the applicable requirements of governing codes, rules and regulations including the following minimum standards, whether statutory or not:

1. FCC Federal Communications Commission

2. City, and other local codes and requirements
3. UL Underwriters Laboratories
4. ASTM American Society for Testing Materials
5. NEMA National Electrical Manufacturers Association
6. ANSI American National Standards Institute
7. ETL Electrical Testing Laboratories
8. SMPTE Society of Motion Picture and Television Engineers
9. EIA Electronic Industries Association
10. ISO International Standards Organization
11. Sound Systems Engineering, 2nd Ed., Davis and Davis, Howard W. Sams Co., 1987

F. Products and systems shall comply with the following standards:
1. ANSI/InfoComm 1M-2011: Audio Coverage Uniformity in Enclosed Listener Areas
2. NFPA 262: Standard Method of Test for Flame Travel and Smoke of Wires and Cables for Use in Air-Handling Spaces
3. UL 813: Commercial Audio Equipment
4. UL 1419: Professional use Video and Audio Equipment
5. UL 1480: Speakers for Fire Alarm, Emergency, and Commercial and Professional Use
6. UL 1492: Audio-Video Products and Accessories
7. UL 60065-1:Audio, Video and Similar Electronic Apparatus

1.03 SUBMITTALS

A. Contractor Licensing Requirements
1. Contractor shall obtain, possess and maintain at all times all required local, state, and federal licenses, insurances, and permits necessary for the lawful execution of the work. Contractor is responsible for all permit fees, and all permit fees are to be included in contractor's bid.

B. Bid Submittal
1. Provide bid submittals in accordance with project Bidding Requirements, in addition to any additional requirements dictated in this section.
2. Subcontract Information:

A. Identify subcontractors and their responsibilities and qualifications in the bid submission.

C. Key Personnel:

1. Provide certification information for the Project Manager, Field Installation Supervisor and other key personnel who will be assigned to the project.
2. Indicate educational, factory and industry certifications for involved personnel.
3. Include a list of all staff that will be dedicated to the project along with their resumes and/or listing of technical qualifications.

D. Provide a list of any company-held certifications or designations.

E. Schedule of Implementation:

1. Site Visit: Make a site visit before submission of bid. Include date of site visit with bid return. Coordinate site visit arrangements with the General Contractor.
2. Submit a scheduling plan with the bid return indicating the various pertinent terminal dates after award of contract for completion of design, pre installation work, on site installation work, and testing and acceptance.
3. Obtain projected dates when the relevant areas will be available for the on site installation.

F. Pre-construction Submittals

1. Contractor shall provide all submittals, substitution requests and all other pertinent pre-installation project information with bid information.
   A. Any bids received without all submittal information may result in contractor disqualification.
2. Product Data: Submit electronic product information for components specified herein prior to the purchase and installation of equipment. Any information submitted with multiple products on the same sheet, the contractor shall clearly mark or highlight proposed products.

1.04 PROJECT MANAGEMENT AND COORDINATION

A. Once awarded the contractor is responsible for the below:

1. Contractor will provide Certificates of Insurance as required by GC and all other parties.

2. Contractor will provide a project manager as single point of contact for project.
3. Contractor will attend all weekly meetings in-person or by phone.
4. Contractor will perform an initial walkthrough with the Client, GC, Project Manager, and/or EC and provide any feedback, changes, or discrepancies to CSP. Contractor is responsible for further onsite coordination as needed to ensure installation meets CSP and client expectations.
5. Contractor will provide an initial project schedule and updated project schedules as requested.

B. Provide a project manager for the duration of the project to coordinate this Work with other trades. Coordination services, procedures and documentation responsibility include, but are not limited to, the items listed in this section.

C. Prepare and maintain a shop drawing review log indicating the following information:
1. The shop drawing number and a brief description of the system/material
2. The date of the review
3. The name of the individual performing the review
4. An indication whether follow-up coordination is required.

1.05 DRAWINGS

A. Layout: Follow the general layout shown on the AV/Technology Drawings except where other Work may conflict with these drawings.

B. Accuracy: Drawings for the Work within this Division are essentially diagrammatic within the constraints of the symbology applied.

C. The Drawings do not fully represent the entire installation for the audiovisual systems. In particular, the functional/single-line drawings indicate the design intent.

D. Complete the details necessary for detailed system design and document this work in shop drawings.

1.06 DELIVERY, STORAGE, AND HANDLING

A. Comply with Delivery, Storage and Handling requirements of Section 27 10 00. In addition, comply with the following requirements.

B. Delivery

1. Deliver products to the site when protected storage space is available.
2. Coordinate materials delivery with the installation schedule to minimize storage time at jobsite. Deliver materials in manufacturer's original, unopened, undamaged packaging and containers with identification labels (name of the manufacturer, product name and number, type, grade, UL classification, etc.) intact.
3. Immediately replace equipment damaged during shipping at no cost to the Owner, so as not to impact the construction schedule.

C. Storage and Protection: Store materials in spaces consistent with manufacturers' environmental requirements.

D. Handling:

1. Handle materials and equipment in accordance with manufacturers' requirements.
2. Do not install damaged materials and equipment. Replace damaged equipment at no cost to the Owner.

1.07 WARRANTY

A. Warrant the system for a minimum of one year from the date of system acceptance by the Owner. Honor component warranties per manufacturer's terms if greater than one year. Provide quarterly site visits to check and adjust equipment and restore systems to acceptable performance.

B. Activate all manufacturers' equipment warranties in the Owner's name to commence on the date of acceptance. In the case of Contractor modified equipment, the manufacturer's warranty is typically voided. In such cases, provide the Owner with a warranty equivalent to that of the original manufacturer.

PART 2 - PRODUCTS

2.01 GENERAL REQUIREMENTS

A. The following sections specifically list the acceptable equipment types and items for this project.

B. Owner/Consultant will have final determination of acceptability of all proposed equipment and must approve submitted equipment prior to purchase or installation

C. Proposed equivalent items must be approved in writing by the Owner/Consultant prior to submitting a bid. Proposed equivalent items must meet or exceed these specifications and the specifications of the specified item.

D. In the event a manufacturer's specified product or part number has changed or is no longer available, Contractor shall substitute the appropriate equivalent manufacturer's part number.

E. In the event of a discrepancy between the specifications and the drawings, the greater quantity and /or better quality will be furnished.

F. For listed products with no part number specified, Contractor shall provide a product that meets the performance requirements of these specifications, industry standard practices and intended application.

G. All wiring, equipment and installation materials shall be new and of the highest quality.

H. Labels on all wiring, materials and equipment must indicate a nationally recognized testing laboratory.

I. All new equipment shall be received, stored, and staged at the Contractor's facility until delivered and installed. Contractor shall store all materials and equipment in accordance with manufacturers' instructions in a weather-tight, secure enclosure. All equipment shall be protected from dust, debris and environmental contamination. Contractor shall be responsible for safety and security of all Contractor furnished equipment and OFE until project close-out.

2.02 AUDIOVISUAL DISTRIBUTION AND CONTROL

A. Unless otherwise noted all equipment is to be contractor provided along with turn-key AV distribution and control for each room indicated on the drawings.

B. Signal Flow Diagrams on the Drawings include expected main components. Provide additional components, accessories and associated programming as needed to provide a fully functional Audiovisual System for each Room Type that operates as intended for all specified components.

C. Functionally complete audiovisual system shall be provided in accordance with the Contract Documents. Any labor, documentation, services, materials, or equipment that may be inferred from the Contract Documents or from prevailing custom or trade usage as being required to produce the indicated result shall be provided whether specifically called for, at no additional cost to Owner.

1. ACTIVITY / CRAFT ROOMS 26, 27

a. The Activity / Craft rooms shall each have a 55” Samsung commercial display on a Chief cart. The cart will have a 20’ power cable and Avarro HDMI cable to connect it to an owner furnished laptop. These carts can also be connected to the HDMI Aux Out ports in the divisible classroom, see combined rooms 28-29.

2. COMPUTER LAB ROOM 15
   a. The computer lab will use a Projector (Optoma 7000 Lumen 1.2-1.92 Throw) and 110” Draper screen (Needs extra 1ft black) for presentation. A Barco Clickshare C-10 will allow an owner furnished laptop to present wirelessly. The Clickshare will live next to the projector in a ceiling vault (Panduit PZICEA 5 RU ceiling vault w/ junction box). The projector will be controlled using the projector remote. Audio will play over the projector speakers.
3. STUDIO ROOM 14
   a. The Studio will have a 55” Commercial Samsung display that users can connect to using either a wired HDMI wall plate below the display or using a Barco Clickshare C-10. Audio will play over the display speakers, The display will be controlled using the Samsung remote.
4. EDUCATIONAL ASSISTANCE ROOM 3
   a. The Educational Assistance Room will have a 75” Commercial Samsung display. There is a Barco C-10 for wireless presentation and a Yealink A40 Microsoft Teams Room for video conferencing. The videoconferencing bar is not intended to capture the entire room, just the area immediately in front of the display.
5. CAFÉ RM 16
   a. The Café will have a 65” Samsung Consumer display for displaying news, weather, or other informational sources. The audio will be played over the Samsung display’s speakers. The display will be controlled using the Samsung remote. Any digital signage will be played from a removable, owner furnished thumb drive.
6. DIVISIBLE CLASSROOM 28-29
   a. The divisible classroom shall be able to operate as two divided spaces or one joined space. The space will have two primary projectors (Optoma 7000 Lumen 1.2-1.92 Throw) which displays images on dual 110” screens (Draper Projection Screen, 110"-Needs extra 1ft black). Two HDMI (Avarro) Out wall plates will

enable the display carts from rooms 26 and 27 to be used as auxiliary displays if desired, showing a duplicate of the main image. When joined, all four video end points will display the same image. Each room will be capable of video conferencing using the Microsoft Teams Room platform. Yealink MCore 5 Windows PCs host the MTRoW application for each room. Room control is provided by a QSC Core 8 flex utilizing the videoconferencing touch panel “flip” screen. Yealink UVC 86 cameras are used to capture the presenter. A third, audience facing, UVC 86 is available to capture the classroom on one side and during joined sessions. Video is routed over Visual Innovations encoders and decoders. Presenter audio is captured with Shure handheld microphones (MXW2/SM58). Audience input can be captured with the Shure 920 ceiling microphone (Shure 920 Ceiling Array Microphone Sq, white) in each space (These microphones should be individually mutable in the control software). Wireless presentation is possible using a Barco Clickshare (Wireless VC - Clickshare CX-20 Gen2) in each room. Audio is played over 16 speakers (Sonance Ceiling Speaker 6"-PS-C63RT 45131), 8 in each room. All equipment is housed in an 18U rack (MSTR ER18) located in the AV closet, room 31.`

2.03 EXECUTION

A. PUNCH

1. Adjust, balance, and align equipment for optimum quality and to meet the manufacturers’ published specifications.
2. Perform the test procedure provided with this specification and return the completed form no less than one week prior to the initial punch walk.
3. Install 1/8" diameter vinyl "map dots" as indicators for nominal operating positions of rotary, slider, or switch controls available for operator adjustment. Provide multiple indicators, adequately distinguished, for controls having more than one nominal operating position.

B. CABELING REQUIREMENTS

1. General Requirements

a. Contractor shall coordinate with Owner/End User for labeling standards and format and all cabling and connectivity infrastructure shall be labeled with machine printed labels according to Owner/End User specifications.

b. Provide 3/8” to 1/2” high permanent labels on the back of each piece of equipment. Label should be white with black lettering. Label adhesive must be permanent.

c. Mark cables, regardless of length, with permanent, non handwritten number or letter cable markers. There shall be no unmarked cables in the system.

C. OWNER TRAINING

D. Contractor shall provide full system training to all customer-designated employees. Training shall include no less than (1) 2-hour session for each room with active equipment.

E. Arrange with the equipment manufacturer for such instruction, at no additional cost, in the event qualified instructors are not available on staff for certain sophisticated equipment.

F. Schedule the first training after the systems are operational. Provide a minimum of 8 hours of training (total) on the systems included in this specification.

2.04 CLEANUP AND REPAIR

A. Upon completion of the work, remove refuse and rubbish from and about the premises, and shall leave the relevant areas and equipment clean and in an operational state. Repair damage caused to the premises by the installation activities, at no cost to the Owner.

2.05 PROTECTION OF WORK

A. During the installation, and up to the date of final acceptance, protect finished and unfinished work against damage and loss. In the event of such damage or loss, replace or repair such work at no cost to the Owner.

2.06 PROJECT CLOSE-OUT AND DOCUMENTATION

A. Contractor must provide the documentation below within 30 days of project closeout in digital format:

1. As-built elevation drawings and schematic diagram detail drawings are required for all rooms/areas

2. Proof of manufacturer equipment warranty registration
3. Product Manuals
4. System Operation Instructions for users
5. Copies of all device programming codes
6. Equipment info sheet including model number, serial number, location, etc. of each device.

END OF SECTION

SECTION 28 2000

ELECTRONIC SURVEILLANCE

PART 1 - PART 1 GENERAL

1.01 SECTION INCLUDES

A. This section specifies a complete electronic surveillance system including IP-based video cameras, video management software, network recording infrastructure, and associated hardware and software.

B. System integration and compatibility with Tribe's existing site(s) surveillance infrastructure is a primary requirement. All proposed equipment shall be compatible with and capable of seamless integration into the Owner's existing surveillance ecosystem.

C. Included items:

1. IP network video cameras (fixed, PTZ, thermal)
2. Video management software and systems
3. Network video recorders and storage devices
4. Cabling, conduit, and interconnection hardware
5. Camera mounts, brackets, and installation hardware
6. Power distribution and backup power considerations
7. Network infrastructure and bandwidth coordination
8. Integration interfaces and protocols

1.02 RELATED SECTIONS

A. DIVISION 01

B. Section 27 10 00 – Structured Cabling

C. Section 28 10 00 – Access Control

1.03 REFERENCES

A. ANSI/ASIS TVPA.1 – ASIS International. American National Standard for Physical Video Surveillance System for the Protection of Facilities and Personnel.

B. NFPA 72 – National Fire Protection Association. National Fire Alarm and Signaling Code (for integrated alarm/video event correlation where applicable).

C. BICSI ANSI/BICSI 007-2020 – Information Communication Technology Design and Implementation Practices for Intelligent Buildings and Premises.

D. IEC 62368-1 – Audio/video, information and communication technology equipment – Safety requirements.

E. ONVIF (Open Network Video Interface Forum) – Profile S, T, G, and M standards for IP camera interoperability.

F. IP Rating Standards (IEC 60529) – Environmental protection classification for camera enclosures.

G. NIST Cybersecurity Framework – For encryption, access control, and data protection protocols.

1.04 SUBMITTALS

A. Submit under provisions of DIVISION 01.

B. Proposal:

1. Bids will not be accepted without all of the documents below submitted correctly and by the above specified deadline

2. Standard proposal on company letterhead, identifying Avigilon basis-of-design components

C. Equipment submittal package including:

1. Avigilon camera model datasheets with image samples

2. Avigilon Unity Video software datasheets and system requirements

3. Network video recorder specifications

4. Storage capacity calculations and retention policy recommendations
5. Cable, connectors, and mounting hardware specifications
6. Quality assurance and testing plan
7. Project schedule with key milestones for procurement, installation, testing and commissioning

D. Factory Test Reports:

1. Manufacturer's certified test data for all cameras verifying resolution, frame rate, dynamic range, and low-light performance
2. Proof of ONVIF compliance certification

E. Installation & Commissioning Documentation:

1. As-built camera placement drawings with coordinates and coverage maps
2. Network wiring and equipment interconnection diagrams
3. IP addressing and VLAN documentation
4. User training materials and system operation manual
5. Maintenance and warranty documentation

F.

1.05 SYSTEM DESCRIPTION

A. Basis of Design Manufacturer: Avigilon Corporation (a Motorola Solutions Company).

B. VMS Platform: Avigilon Unity Video on-premise management software.

C. Camera Series: Avigilon H5A series (including fixed box, turret, and dome configurations) and H4 Pro series for high-resolution applications; PTZ cameras with 30x zoom; thermal imaging models where specified.

D. Key Technologies:

1. High Definition Stream Management (HDSM™) technology with H.264 and H.265 compression
2. LightCatcher™ technology for superior low-light performance
3. Integrated AI video analytics (object detection, classification, visible firearm detection, audio analytics)
4. ONVIF compliance for third-party device integration
5. Secure architecture with FIPS 140-2 support, integrated TPMs, and Secure Boot

1.06 EXISTING SITE(S) COORDINATION REQUIREMENTS

A. Pre-Design Survey: Prior to final design, Contractor shall conduct a documented survey of all existing Tribe surveillance systems across all site(s), including:

1. Existing VMS software and server infrastructure
2. Current network bandwidth allocation and available capacity
3. Existing camera resolutions, frame rates, and recording retention policies\

B. Design Coordination with Owner's IT and Security Teams: The Contractor shall coordinate design with Owner's IT department and security management to ensure:

1. Network topology and bandwidth requirements are reviewed and approved
2. IP address ranges and VLAN assignments align with existing infrastructure
3. Storage capacity planning accounts for new and existing cameras across all sites
4. Cybersecurity policies and encryption requirements are understood and incorporated
5. User access controls and role-based permissions align with existing organizational structure

C. Integration Path & Phasing: The design shall clearly define:

1. Migration path for consolidating multi-site camera feeds into a unified Avigilon platform (if applicable)
2. Backward compatibility with any existing non-Avigilon cameras via ONVIF conformance

3. Failover and redundancy requirements if cameras span multiple geographic locations

4. Timeline and sequence for system cutover, testing, and commissioning

D. Furnish Existing System Documentation: Owner shall provide to Contractor:

1. Network diagrams and IP addressing schemes

2. Existing camera specifications and placement drawings

3. Current VMS server specifications and software versions

4. List of any third-party integrations or alarm system connections

5. Network bandwidth and storage utilization reports

1.07 QUALITY ASSURANCE

A. Designer Qualifications: The lead designer shall hold current:

1. Video Security Systems Designer Level II certification from NICET, OR

2. Certified Security Professional (CSP) or equivalent, OR

3. RCDD (Registered Communications Distribution Designer) from BICSI with security systems specialization

B. Installer Qualifications: Installation shall be performed by factory-trained and certified Avigilon integrators with demonstrated experience on multi-site deployments and integration projects.

C. System Testing & Commissioning:

1. Factory acceptance testing (FAT) prior to shipment

2. Site acceptance testing (SAT) upon installation, including:

a. Camera image quality verification (resolution, frame rate, dynamic range)

b. VMS software functionality and alarm event logging

c. Network connectivity and bandwidth verification

d. Integration testing with existing access control and alarm systems

e. Redundancy and failover testing

f. Cybersecurity posture verification (encryption, credentials, firewall rules)

3. User acceptance testing (UAT) with Owner's security team

1.08 WARRANTY

A. Equipment Warranty: Avigilon cameras and recording appliances shall be covered by manufacturer's standard 5-year limited warranty against manufacturing defects.

B. Software Warranty: Avigilon Unity Video software shall be covered by a 1-year warranty from the date of installation, with optional extended support and maintenance contracts available.

C. Labor and Integration: Contractor shall warrant all installation labor and system integration work for a period of 1 year from date of substantial completion, including any remedial work required due to design or installation defects.

D. At Closeout: Provide to Owner an executed copy of:

1. Manufacturer's standard limited warranty documentation

2. Software support and update terms

3. Third-party hardware warranties (network switches, storage devices, uninterruptible power supplies)

4. Maintenance and support contact information

PART 1 - PRODUCTS

2.01 ACCESS CONTROL SYSTEM

A. Avigilon H5A Series – Standard Fixed Cameras

1. Basis of Design Models:

a. H5A Compact Turret (2 MP, 4 MP, 6 MP, 8 MP) – 1/2.8-inch CMOS sensor, H.264/H.265 HDSM SmartCodec, IP67 weather rating, IK10 vandal resistance

b. H5A Box Camera (2 MP, 4 MP, 6 MP) – Flexible lens mount (EF series), 0.005 lux sensitivity with integrated IR, suitable for wide-angle and telephoto applications

c. H5A Dome Camera (4 MP, 6 MP, 8 MP) – Compact low-profile design, IP66/67 rating, suitable for indoor and semi-outdoor mounting

2. Key Specifications:

a. Resolution: 2 to 8 megapixel options with 16:9 aspect ratio

b. Dynamic Range: 120–144 dB true dynamic range

c. Frame Rate: 2 MP at 50/60 fps; 4–6 MP at 50/60 fps; 8 MP at 25/30 fps (scalable)

d. Compression: H.264 and H.265 HDSM SmartCodec with Motion JPEG fallback

e. Low-Light Performance: LightCatcher™ technology provides 0.005 lux minimum sensitivity; integrated IR illumination available

f. Lens Options: 2.8–3.0 mm (wide), 4.2–4.6 mm (standard), 8–12 mm (telephoto); remote focus and zoom capable

g. Power: Power-over-Ethernet (PoE 802.3at), 24 VAC, or 12 VDC

h. Power Consumption: 5–10 W depending on model and configuration

i. Environmental Rating: IP67 (dome/turret), IP66 (box), IK10 impact rating; operating range –10°C to +50°C

j. Network: Gigabit Ethernet, IPv4/IPv6, HTTPS, NTP, RTSP, RTCP, RTP, DNS, DHCP, Zeroconf

k. Analytics: Integrated AI video analytics including motion detection, person/vehicle classification, loitering, and area intrusion

B. Avigilon H4 Pro Series – High-Resolution Cameras

1. Basis of Design Model:

a. H4 Pro (30 MP / 7K) – Progressive scan CMOS, EF-mount lens compatibility, 70 dB dynamic range, 8 fps at full resolution

2. Key Specifications:

    a. Resolution: 7360 × 4128 pixels (30 MP / 7K); outputs high-detail imagery suitable for wide area coverage or long-range identification

    b. Sensitivity: 0.005 lux in color mode; 0 lux (IR equipped) in monochrome mode

    c. Dynamic Range: 70 dB true WDR

    d. Frame Rate: Up to 8 images per second at full resolution

    e. Compression: H.264 and Motion JPEG; H.265 variants available for bandwidth-constrained networks

    f. Lens Mount: EF mount allowing selection from wide-angle to ultra-telephoto lenses per site requirements

    g. Power: PoE (High Power 802.3bt), 24 VAC, or 12 VDC

    h. Power Consumption: Up to 13 W

    i. Environmental Rating: IP66/67, IK10, –10°C to +50°C operating range

    j. On-board Storage: SD card slot for edge storage and failover recording

    k. Network: IPv4/IPv6, HTTPS, ONVIF Profile S, T, G, M; integrates with Avigilon Unity Video and third-party ONVIF-compliant VMS platforms

C. Avigilon PTZ Cameras – Pan-Tilt-Zoom

1. Basis of Design Model:

    a. Avigilon PTZ Camera (4 MP, 30x zoom) – Motorized pan-tilt-zoom with 360-degree continuous rotation, auto-tracking, 4 MP native resolution

2. Key Specifications:

    a. Resolution: 4 MP (2688 × 1520 pixels)

    b. Zoom: 30x optical zoom with remote pan, tilt, focus, and iris control

    c. Pan/Tilt: 360-degree continuous pan; 0–90-degree tilt range

d. Auto-Tracking: Integrated video analytics for automatic object tracking across pan/tilt range

e. Frame Rate: 30 fps at 4 MP

f. Power: High-power PoE (802.3bt) or 24 VAC

g. Environmental Rating: IP66, IK10, suitable for perimeter and large-area coverage

h. Network: Gigabit Ethernet with ONVIF compliance

i. Presets & Patrols: Software-configurable patrol patterns and preset positions

D. Avigilon Thermal Cameras – Infrared Thermal Imaging

1. Basis of Design Model:

a. Avigilon H5A Thermal Camera – Long-wavelength infrared (LWIR) thermal sensor, uncooled microbolometer array, AI-based object detection and classification

2. Key Specifications:

a. Sensor Type: Uncooled microbolometer thermal array

b. Thermal Sensitivity (NETD): <60 mK (millikelvin) thermal noise equivalent difference

c. Resolution: 160 × 120 or 320 × 240 thermal pixels depending on model

d. Temperature Range: –40°C to +550°C (adjustable per application)

e. Frame Rate: 9 Hz or 30 Hz depending on model

f. Analytics: AI-based detection and classification of people, vehicles, and anomalies in complete darkness, fog, and smoke

g. Power: PoE or 24 VAC

h. Environmental Rating: IP67, IK10, –30°C to +60°C operating range

i. Network: Gigabit Ethernet, ONVIF compliance

j. Use Cases: Perimeter intrusion detection, unattended area monitoring, fire detection (temperature anomaly identification)

2.02 VIDEO MANAGEMENT SOFTWARE – AVIGILON UNITY VIDEO

A. VMS Platform: Avigilon Unity Video on-premise software (basis of design).

B. Edition Selection: To be determined based on site scope; minimum of Standard Edition supporting:

1. Up to 75 cameras per server
2. Up to 10,000 cameras per multi-server deployment
3. 51 configurable rules and event triggers
4. Collaborative investigations and clip-link sharing
5. HDSM technology support for bandwidth optimization
6. Third-party IP camera and encoder support via ONVIF

C. Key Features:

1. Centralized Multi-Site Management: Central configuration and user administration across all Tribe site(s); role-based access control with Active Directory integration
2. Video Search and Playback: Intelligent motion search, appearance search, thumbnail preview, event-based search with bookmarking and export
3. Alarm Integration: Event correlation with intrusion detection systems (Division 28 31 00) and access control events (Division 28 13 00)
4. Video Analytics: Native and third-party AI analytics including motion detection, loitering, crowd detection, visible firearm detection, and audio event detection
5. Recording and Storage: Redundant recording paths, failover server support, tiered storage (SSD/HDD), continuous real-time polling to central server
6. Notifications and Escalation: Real-time alerts via email, SMS, and in-app notifications with configurable escalation rules

7. Evidence Management: Secure export of clips and images with audit trail; chain-of-custody documentation for legal proceedings

8. Cybersecurity: HTTPS encryption, FIPS 140-2 compliance, integrated TPM support, secure credential management, firewall rule compatibility

D. System Requirements:

1. Minimum Server (Standard Edition): Windows Server 2016 or 2022 (64-bit); Intel Quad-core CPU (2.0 GHz); 8 GB DDR4 RAM; NVIDIA Quadro P620 video card or equivalent

2. Recommended Server (Enterprise Edition): Windows Server 2022 (64-bit); Intel 8th-gen Xeon or higher; 16–32 GB RAM; high-performance storage (RAID 10 SSD/HDD hybrid)

3. Network: Gigabit Ethernet minimum; dual redundant network paths for failover; adequate bandwidth per camera stream (see Section 2.05)

4. Storage: TBD based on total camera count, resolution, frame rate, and retention policy (typically 10–30 TB for 50+ cameras with 30-day retention)

2.03 NETWORK VIDEO RECORDERS AND STORAGE DEVICES

A. Avigilon Recording Appliances: Manufacturer-supplied or approved third-party NVR appliances with the following minimum performance:

1. Recorded throughput: 256–400 Mbps depending on model
2. Support for up to 120 cameras per appliance (expandable via federation)
3. Redundant disk arrays (RAID 5 or RAID 6) with hot-swap drives
4. Battery-backed write cache for power failure protection
5. Automated failover to secondary NVR if primary system goes offline

B. Storage Architecture:

1. Primary NVR configured for continuous recording with all cameras at full resolution and frame rate
2. Secondary (warm standby) NVR in standby mode, automatically activated upon primary failure
3. Network-attached storage (NAS) for archival and long-term retention (optional)
4. Local edge storage (SD cards) on H4 Pro cameras for offline fallback recording

2.04 CABLING AND INTERCONNECTION

A. Network Cabling:

1. Cat6A unshielded twisted pair (UTP) or shielded twisted pair (STP) cabling per TIA-568C or TIA-568B standards
2. All cabling runs in conduit (metal or PVC) with proper grounding per Division 27
3. PoE-compatible patch cables: Cat6 or Cat6A; maximum run length 100 meters per IEEE 802.3at/bt

B. Power Cabling:

1. Where PoE is insufficient (thermal cameras, PTZ cameras, outdoor cameras in harsh environments), provide 24 VAC or 12 VDC supplemental power per NEC Article 725 (Class 2/Class 3 circuits)
2. All power supplies shall be Underwriters Laboratory (UL) listed and mounted in accessible enclosures
3. Circuit breakers and overcurrent protection per electrical code

C. Connectors and Patch Panels:

1. RJ-45 connectors for all Gigabit Ethernet connections
2. Modular patch panels in server room and distribution closets
3. Proper labeling per Division 27 and additional identification per Section 1.04 and 1.06

2.05 CAMERA PLACEMENT AND COVERAGE

A. General Principles:

1. Coordinate camera placement with Owner's security and IT teams to ensure coverage of high-value assets, entry/exit points, parking areas, and common areas
2. Avoid mounting cameras in locations that create privacy concerns or conflict with organizational policies
3. Design for natural lighting where possible; use supplemental IR illumination for low-light areas

B. Typical Coverage Zones (to be customized per site(s)):

1. Main entrances/exits: 4 MP or higher fixed turret or dome, mounted at 2.4–2.7 m height, 3–5 m coverage depth, near lighting
2. Vehicle gates and parking: 6–8 MP fixed box or turret with wide-angle lens; 1–2 PTZ cameras for extended coverage

3. Perimeter: 8 MP box cameras with wide-angle lenses; thermal cameras for after-hours intrusion detection
4. Interior corridors: 4–6 MP fixed dome or turret; 2.7 mm or 4.2 mm lens for general corridor width
5. High-value asset areas: 8 MP or H4 Pro (30 MP) for detailed identification; positioned to capture faces or vehicle license plates as required

C. Installation Requirements:

1. Mount cameras securely with vandal-resistant hardware
2. Ensure cables are protected from weather, rodents, and physical damage
3. Test all cameras for image clarity and coverage before final sign-off

END OF SECTION

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C M Y K

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INDEX OF SHEETS

UTILITY NOTE

THE LOCATION OF UNDERGROUND UTILITIES SHOWN ARE BASED ON OBSERVED EVIDENCE AND AVAILABLE PLANS. LACKING EXCAVATION, THE EXACT LOCATION OF UNDERGROUND FEATURES CANNOT BE ACCURATELY, COMPLETELY, AND RELIABLY DEPICTED. OTHER UTILITIES MAY EXIST AND NOT BE SHOWN HEREON.

DATUM INFO

THE BEARING DATUM FOR THIS TOPOGRAPHY IS BASED ON NAD 83, LAMBERT, LOUISIANA, SOUTH ZONE, US SURVEY FEET. VERTICAL DATUM IS NAVD88.

ADJACENT PROJECT NOTE

ROADWAY AND PARKING INFRASTRUCTURE SHOWN ADJACENT TO BUILDING SITE HEREIN ARE PART OF A SEPARATE PROJECT. FOR PROJECT DETAILS AND PLANS PLEASE CONTACT THE DESIGN ENGINEER BELOW:

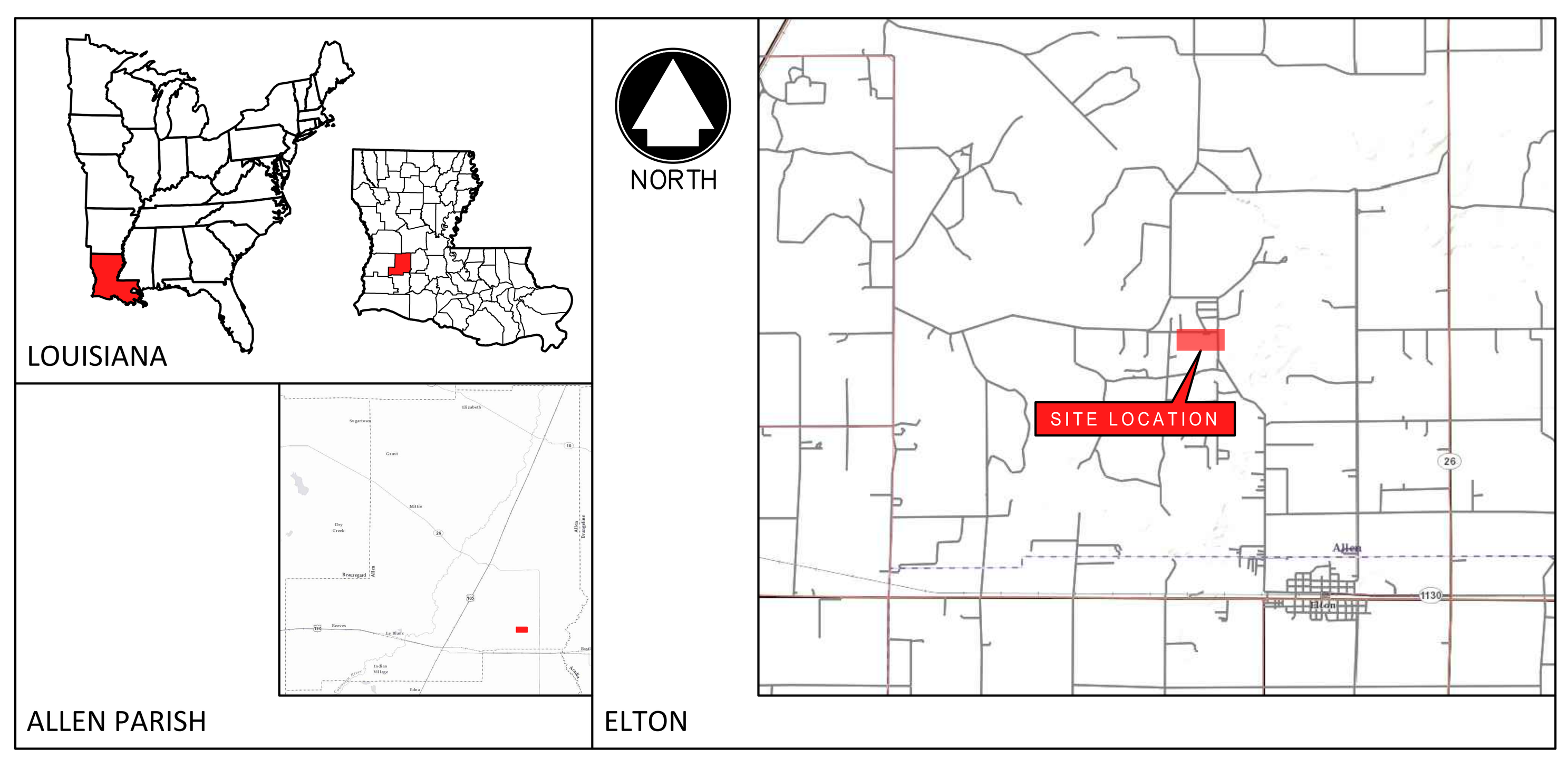
QK4, INC.
MASON MEREDITH
MMEREDITH@QK4.COM
(502)773-3900

COUSHATTA TRIBE OF LOUISIANA

SITE CONSTRUCTION PLANS

COUSHATTA EDUCATION BUILDING

1940 CC Bel Road
Elton, LA 70532



LOCATION MAP
NO SCALE

Louisiana 811

BEFORE YOU DIG

THE CONTRACTOR IS INSTRUCTED TO CALL 1-800-272-3020 TO REACH LOUISIANA 811, THE ONE-CALL SYSTEM FOR INFORMATION ON THE LOCATION OF EXISTING UNDERGROUND UTILITIES. THE CALL IS TO BE PLACED A MINIMUM OF TWO (2) AND NO MORE THAN TEN (10) BUSINESS DAYS PRIOR TO EXCAVATION. THE CONTRACTOR SHOULD BE AWARE THAT OWNERS OF UNDERGROUND FACILITIES ARE NOT REQUIRED TO BE MEMBERS OF THE LOUISIANA 811 ONE-CALL BEFORE-U-DIG (BUD) SERVICE. THE CONTRACTOR MUST COORDINATE EXCAVATION WITH THE UTILITY OWNERS, INCLUDING THOSE WHO DO NOT SUBSCRIBE TO LOUISIANA 811. IT MAY BE NECESSARY FOR THE CONTRACTOR TO CONTACT THE COUNTY COURT CLERK TO DETERMINE WHICH UTILITY COMPANIES HAVE FACILITIES IN THE AREA.

1/30/2025 2:11:35 PM Autodesk Docs://Coushatta Education Building/ARCH-Coushatta.rvt

1 CIVIL COVER
C0.01 NO SCALE

GENERAL NOTES

1. CONTRACTOR SHALL KEEP ALL SURROUNDING PUBLIC ROADWAYS AND DRAINAGE SYSTEMS FREE FROM DIRT, MUD, AND CONSTRUCTION DEBRIS AT ALL TIMES AND SHALL PROVIDE ALL NECESSARY EROSION PREVENTION AND SEDIMENT CONTROL (EPSC) BMPS. ALL BMPS SHALL BE INSTALLED PER LOCAL AND STATE STANDARDS PRIOR TO ANY SITE CONSTRUCTION ACTIVITY.
2. CONTRACTOR SHALL VISIT THE SITE AND VERIFY EXISTING CONDITIONS ARE CONSISTENT WITH THE EXISTING CONDITIONS DEPICTED ON THE CONSTRUCTION PLANS PRIOR TO SUBMITTING BIDS. DISCREPANCIES ARE TO BE REPORTED TO THE OWNER'S ENGINEER PRIOR TO STARTING CONSTRUCTION. COMMENCEMENT OF CONSTRUCTION SHALL INDICATE THAT THE CONTRACTOR ACCEPTS THE ACTUAL SITE CONDITIONS AS MATCHING THE EXISTING CONDITIONS DEPICTED ON THE CONSTRUCTION PLANS.
3. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL ORDINANCES, REGULATIONS, AND REQUIREMENTS NECESSARY TO COMPLETE THE WORK; THIS INCLUDES PROVISIONS FOR MAINTENANCE OF TRAFFIC, CONSTRUCTION, AND THE OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA).
4. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY LABOR, MATERIAL, EQUIPMENT, TOOLS, AND SERVICES REQUIRED TO COMPLETE CONSTRUCTION AND MATERIAL TESTING FOR THE WORK. ALL WORK SHALL BE PERFORMED IN A SAFE AND REASONABLE WORKING MANNER IN ACCORDANCE WITH THE BEST PRACTICES AND PROCEDURES.
5. CONTRACTOR SHALL VERIFY ELEVATIONS OF ALL EXISTING CATCH BASINS, STORM PIPES, ETC. WITHIN PROJECT LIMITS. CONTRACTOR SHALL REPORT ANY DISCREPANCIES TO OWNER'S ENGINEER IMMEDIATELY.
6. CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR OF ANY ITEMS DAMAGED DURING CONSTRUCTION, INCLUDING PLANT MATERIAL NOT DESIGNATED FOR REMOVAL.
7. ALL EARTHWORK, INCLUDING ROCK REMOVAL WORK, IS BEING SPECIFIED AS UNCLASSIFIED. CONTRACTOR TO ASSUME ALL COSTS FOR ANY REQUIRED ROCK REMOVAL AND FOR ANY REQUIRED SOIL IMPORT OR EXPORT. CONTRACTOR SHALL ACKNOWLEDGE THAT THIS SCOPE OF WORK IS INCLUDED IN THEIR SUBMITTED BID.
8. LIMITS OF CONSTRUCTION AND CONTRACTOR STAGING AREAS SHALL BE LIMITED TO AREAS DESIGNATED BY THE OWNER.
9. DIMENSIONS PROVIDED HEREIN ARE TO FACILITATE THE BIDDING PROCESS AND ARE NOT INTENDED TO BE SUFFICIENT DETAIL FOR CONSTRUCTION LAYOUT. LAYOUT INFORMATION SHALL BE PROVIDED TO THE SELECTED CONTRACTOR AFTER THEY INDICATE THEIR PREFERRED FORMAT (COORDINATES, STATION/OFFSET, AUTOCAD DIGITAL FILE, ETC.).
10. ALL UTILITIES SHOWN ON THESE PLANS ARE APPROXIMATE. INDIVIDUAL SERVICE LINES ARE NOT SHOWN. THE CONTRACTOR OR SUBCONTRACTOR SHALL NOTIFY THE UTILITY PROTECTION CENTER "LOUISIANA 811" (TOLL FREE PHONE NO. 1-800-272-3020) FORTY-EIGHT (48) HOURS IN ADVANCE OF ANY CONSTRUCTION ON THIS PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR BECOMING FAMILIAR WITH ALL UTILITY REQUIREMENTS SET FORTH ON THE PLANS AND IN THE TECHNICAL SPECIFICATIONS AND SPECIAL PROVISIONS.
11. IF ANY UTILITY LINES ARE ENCOUNTERED DURING CONSTRUCTION, EXTREME CAUTION SHOULD BE EXERCISED AND THE UTILITY COMPANY NOTIFIED IMMEDIATELY. ANY DAMAGES SHALL BE REPAIRED IMMEDIATELY AT THE DIRECTION OF THE UTILITY COMPANY, INCLUDING TEMPORARY AND PERMANENT WORK, AT NO ADDITIONAL EXPENSE TO OWNER/DEVELOPER.
12. ALL UNSUITABLE MATERIAL, INCLUDING CONSTRUCTION DEBRIS, EXCESS CONSTRUCTION MATERIAL, CONCRETE WASHOUT MATERIAL, AND OTHER DISCARDED MATERIAL, SHALL BE REMOVED AND PROPERLY DISPOSED OF AND NOT USED AS EMBANKMENT.
13. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY CONTROL POINT, SURVEY, LAYOUT, AND CONSTRUCTION STAKING FOR CONSTRUCTION PURPOSES.
14. THE CONTRACTOR, WHEN WORKING ADJACENT TO AN EXISTING TRAVELED WAY, SHALL NOT PERFORM ANY WORK WITHOUT THE PROPER ADVANCE WARNING AND SPEED LIMIT SIGNS, BARRICADES, SAFETY DEVICES, ETC., AS REQUIRED FOR THE PROTECTION OF THE TRAVELING PUBLIC AND THE CONTRACTOR'S PERSONNEL.
15. THE CONTRACTOR SHALL AT ALL TIMES KEEP THE TRAVELING PUBLIC PROTECTED FROM THEIR EQUIPMENT AND STORED MATERIALS.
16. ANY AREAS DISTURBED BY THE CONTRACTOR OUTSIDE THE CONSTRUCTION LIMITS SHALL BE RESTORED TO THEIR ORIGINAL CONDITION AS DIRECTED AND APPROVED BY THE ENGINEER AND OWNER/DEVELOPER. THE COST OF THESE REPAIRS SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
17. AREAS REQUIRING TEMPORARY SEEDING FOR EROSION CONTROL AND OTHER AREAS REQUIRING TEMPORARY PROTECTION SHALL BE DESIGNATED BY THE ENGINEER DURING CONSTRUCTION. THE RATE OF APPLICATION FOR TEMPORARY SEEDING SHALL BE AS FOLLOWS:
    - SEED (PERENNIAL RYE GRASS) 2.5 LBS./1,000 S.F.
    - FERTILIZER (10-10-10) 12 LBS./1,000 S.F.
    - STRAW MULCH 3 TONS/AC.
    - BITUMINOUS MATERIAL 300 GAL./AC.
18. CRUSHED STONE SHALL BE PLACED AND COMPACTED IN SEPARATE COURSES.
19. A MINIMUM OF TWELVE (12) INCHES OF COVER OVER ALL CULVERT PIPES IS REQUIRED. A MINIMUM OF SIX (6) INCHES OF CONCRETE ENCASEMENT FOR ANY PIPE WITH REDUCED COVER IS REQUIRED.
20. BACKFILL AROUND DRAINAGE STRUCTURES AND TRENCH BACKFILL BELOW THE MIDPOINT OF PIPE CULVERTS SHALL BE #57 STONE. BACKFILL ABOVE THE MIDPOINT SHALL BE OF ACCEPTABLE MATERIALS AND COMPACTED TO EMBANKMENT REQUIREMENTS.
21. CONTRACTOR SHALL GUARANTEE AGAINST DEFECTS IN MATERIALS AND WORKMANSHIP FOR ONE (1) YEAR FROM DATE OF COMPLETION.
22. AT COMPLETION, REMOVE RUBBISH, DEBRIS, EQUIPMENT, AND EXCESS MATERIAL FROM SITE. CLEAN ADJOINING SURFACES WHICH WERE SOILED BY ASPHALT CONCRETE PAVEMENT WORK.
23. ALL EMBANKMENT BACKFILL AND SUBGRADE MATERIALS SHALL BE CONSTRUCTED AND COMPACTED TO 95% OF MAXIMUM DENSITY AND PLUS 2 OR MINUS 4 PERCENT OF THE OPTIMUM MOISTURE CONTENT. SEE GEOTECHNICAL REPORT.
24. CONTRACTOR SHALL UTILIZE A REGISTERED GEOTECHNICAL ENGINEER TO TEST, VERIFY, AND REPORT TO PROVIDE SATISFACTORY ASSURANCE OF EMBANKMENT AND PAVEMENT STABILITY. ALL EMBANKMENT SECTIONS IN EXCESS OF FOUR (4) FEET IN DEPTH SHOULD BE TESTED AT ONE (1) FOOT LAYERS.
25. ANY UNSUITABLE SOILS AND OTHER MATERIALS ENCOUNTERED DURING CONSTRUCTION SHALL BE REMOVED TO THE DEPTH AND WIDTH SPECIFIED BY THE GEOTECHNICAL ENGINEER. THE EXCAVATION WILL BE BACKFILLED WITH SELECTED MATERIALS AND PLACED IN ACCORDANCE WITH EMBANKMENT SPECIFICATIONS.
26. SITE EMBANKMENT SHALL BE CONSTRUCTED IN ACCORDANCE WITH LaDOTD STANDARD SPECIFICATIONS, LATEST EDITION.

NELSON
Nelco Architecture, Inc.

100 S. Independence Mall West
Suite 500
Philadelphia, PA 19106
Phone: (215) 925-6562

WWW.NELSONWORLDWIDE.COM

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FULL CIRCLE INDIGENOUS PLANNING + DESIGN
219 SE MAIN STREET, #101
616-819-8968

ARCHITECT OF RECORD
NELSON WORLDWIDE
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SLIDELL, LA 70460
985-205-1161

MEPF ENGINEERING
WINDWARD
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MARAIS CONSULTANTS
1813 BARONNE ST.
NEW ORLEANS, LA 70113
504.350.2644

LANDSCAPE ARCHITECTURE
DANA BROWN & ASSOCIATES
1836 VALENCE STREET
NEW ORLEANS, LA 70115
504.345.2639

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QK4, INC.
9920 CORPORATE CAMPUS DRIVE
SUITE 1200
LOUISVILLE, KY 40223
502.585.2222

FOOD SERVICE
MOYNAN CONSULTING, LLC
101 KRAMER CT
MANDEVILLE, LA 70471
985.674.5710

COUSHATTA TRIBE OF LOUISIANA

COUSHATTA TRIBE OF LOUISIANA

CTLA - EDUCATION BUILDING

1940 CC BEL ROAD
ELTON, LA 70532

Issue:	No:	Date:
BID SET		2025.12.05
BID ADDENDUM 5	5	2026.01.21
BID ADDENDUM 6	6	2026.01.23

COVER SHEET

STATE OF LOUISIANA
MASON MEREDITH
License No. 50170
PROFESSIONAL ENGINEER
IN
CIVIL ENGINEERING

ENGINEER
LIC#: 50170

Proj #: 24.0002607.000 Reviewed By:

C0.01

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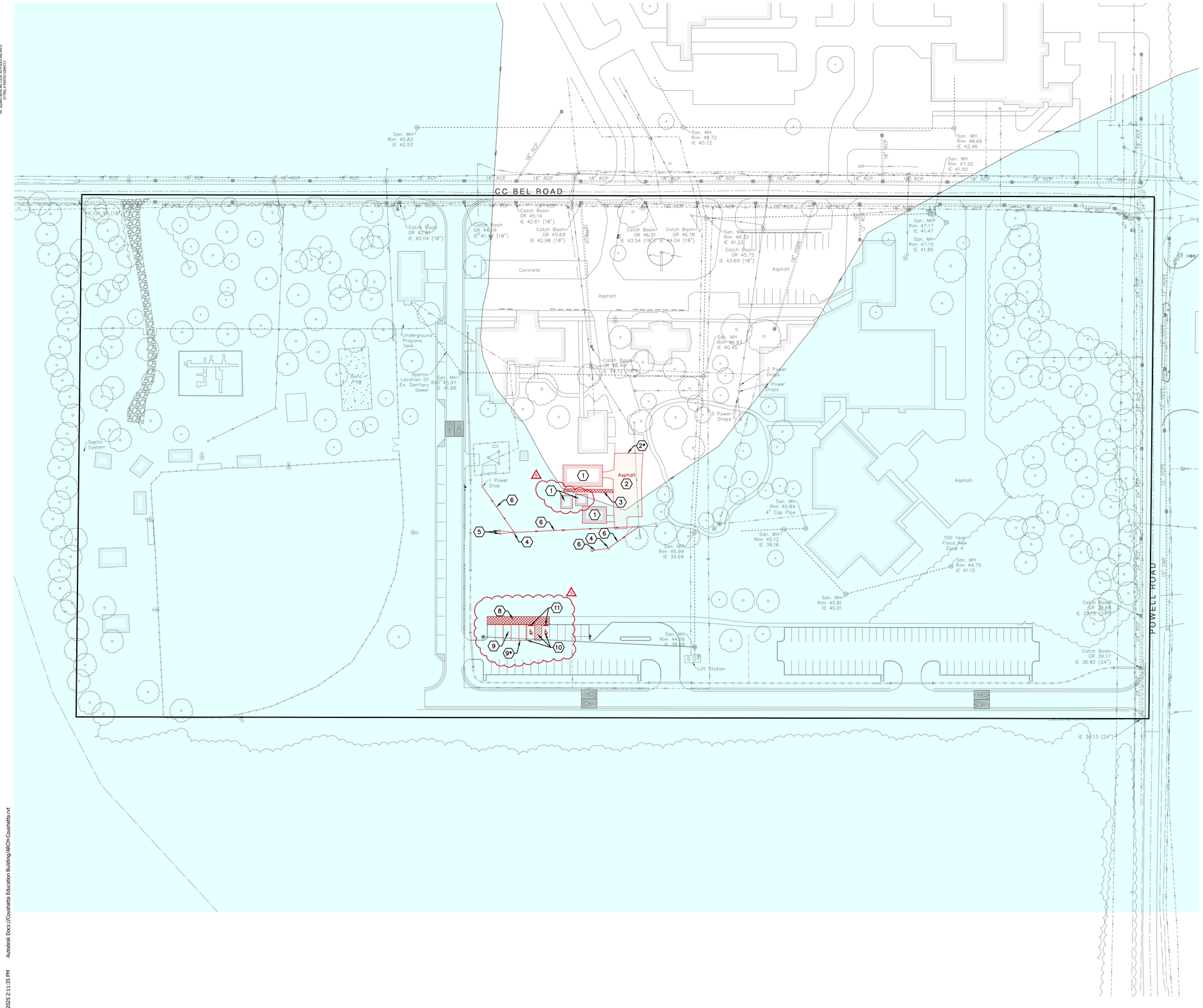

1 C1.01 CIVIL EXISTING CONDITIONS& DEMOLITION PLAN
1" = 50'-0"

LEGEND- SITE PLANS

- PROPERTY LINE
- FEMA — FEMA FLOOD PLAIN
- —610— MAJOR CONTOUR
- —611— MINOR CONTOUR
- TREE
- OHE — OVERHEAD ELECTRIC LINE
- UGE — UNDERGROUND ELECTRIC
- UGT — UNDERGROUND TELEPHONE
- UGF — UNDERGROUND FIBER
- ELECTRIC MANHOLE
- ELECTRIC UTILITY POLE
- ELECTRIC POLE W/TRANSFORMER
- ELECTRIC LIGHT POLE
- ELECTRIC LIGHT POLE
- ELECTRIC GUY WIRE ANCHOR
- 3/4"W — WATER LINE
- 3"W — WATER LINE
- 6"W — WATER LINE
- 8"W — WATER LINE
- WATER FIRE HYDRANT
- WATER METER
- WATER VALVE
- SANITARY SEWER PIPE
- FM — SANITARY SEWER FORCE MAIN
- SAN. SEWER MANHOLE
- STREAM
- STORM CATCH BASIN
- TELEPHONE PEDESTAL
- X—X—X— FENCE
- TREELINE
- BUILDING
- ROADWAY CENTERLINE
- EDGE OF GRAVEL
- 100-YEAR FLOOD ZONE
- CONCRETE PAVEMENT
- GRAVEL PAVEMENT
- ASPHALT PAVEMENT (TO BE REMOVED)
- CONCRETE SIDEWALK (TO BE REMOVED)
- SAW CUT LINE

FLOODPLAIN NOTE

THIS SITE IS LOCATED WITHIN SPECIAL FLOOD HAZARD AREA 'ZONE A' ACCORDING TO FEMA FIRM PANEL 22003C0425D DATED 3/17/2011. THIS ZONE IS CLASSIFIED AS FLOODPLAIN WITHOUT SPECIFIC BASE FLOOD ELEVATION.

HYDRAULIC & HYDROLOGIC FLOODPLAIN MODELING OF THE SURROUNDING AREA PERFORMED BY QK4 YIELDED A 100-YR BASE FLOOD ELEVATION OF 43.00.

GENERAL NOTES- SITE PLANS

A. USE CAUTION WHEN COMPLETING DEMOLITION IN AREA OF EXISTING PAVEMENT AND CURBING SO AS NOT TO DISTURB OR DAMAGE EXISTING UNDERGROUND UTILITIES.

B. ANY UNEXPECTED FILLS OR UNDERGROUND FACILITIES THAT ARE ENCOUNTERED SHALL BE REMOVED AND THE EXCAVATION THOROUGHLY CLEANED PRIOR TO BACKFILL PLACEMENT AND/OR CONSTRUCTION.

C. PRIOR TO DISCONNECTING AND/OR REMOVING ANY EXISTING UTILITY APPURTENANCE, CONTRACTOR SHALL COORDINATE WITH OWNER & UTILITY COMPANY REGARDING APPROPRIATE DISCONNECTION PRACTICES.

D. CONTRACTOR SHALL VERIFY GRATE ELEVATIONS OF ALL EXISTING CATCH BASINS, STORM PIPES, ETC. WITHIN PROJECT LIMITS. CONTRACTOR SHALL REPORT ANY DISCREPANCIES TO OWNER'S ENGINEER IMMEDIATELY.

E. CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR OF ANY ITEMS DAMAGED DURING CONSTRUCTION, INCLUDING PLANT MATERIAL NOT DESIGNATED FOR REMOVAL.

F. ALL UTILITIES SHALL BE INSTALLED IN ACCORDANCE WITH LOCAL UTILITY STANDARDS, LOCAL CODES, AND STATE CODES. GENERAL CONTRACTOR TO BE RESPONSIBLE FOR ALL FEES ASSOCIATED WITH NEW UTILITY SERVICE, INCLUDING WATER, FIRE, IRRIGATION, ELECTRIC, CABLE, TELEPHONE, ETC.

G. IF ANY DISCREPANCIES ARE FOUND BETWEEN CIVIL SHEETS, CONTRACTOR SHALL NOTIFY THE OWNER IMMEDIATELY FOR DIRECTION.

H. USE CAUTION WHEN COMPLETING DEMOLITION IN AREA OF EXISTING PAVEMENT AND CURBING SO AS NOT TO DISTURB OR DAMAGE EXISTING UNDERGROUND UTILITIES.

UTILITY NOTE

THE LOCATION OF UNDERGROUND UTILITIES SHOWN ARE BASED ON OBSERVED EVIDENCE AND AVAILABLE SURVEY. LACKING EXCAVATION, THE EXACT LOCATION OF UNDERGROUND FEATURES CANNOT BE ACCURATELY, COMPLETELY, AND RELIABLY DEPICTED. OTHER UTILITIES MAY EXIST AND NOT BE SHOWN HEREON. CONTRACTOR SHALL NOTIFY OWNER IMMEDIATELY UPON DISCOVERY OF ANY UTILITY NOT SHOWN.

(#) KEYED NOTES:

1. DEMOLISH EXISTING BUILDING STRUCTURE AND ASSOCIATED FOUNDATIONS AND SLABS. DISCONNECT ALL UTILITY SERVICE CONNECTIONS IN ACCORDANCE WITH UTILITY PROVIDER PROCEDURE. BACKFILL ANY EXCAVATED AREA IN ACCORDANCE WITH EMBANKMENT STANDARDS NOTED IN GEOTECHNICAL REPORT AND ENSURE POSITIVE DRAINAGE ACROSS AREA.
2. SAW CUT AND REMOVE EXISTING ASPHALT PAVEMENT AND ROCK SUBBASE MATERIALS. REMOVE EXISTING SUBGRADE TO A DEPTH NECESSARY TO ACCOMMODATE PROPOSED PAVEMENT SECTION. BACKFILL ANY EXCAVATED AREA IN ACCORDANCE WITH EMBANKMENT STANDARDS AND ENSURE POSITIVE DRAINAGE ACROSS AREA.
   * SAW CUT EXISTING PAVEMENT ALONG THIS LINE.
3. SAW CUT AND REMOVE EXISTING CONCRETE WALK & ROCK SUBBASE MATERIALS. BACKFILL ANY EXCAVATED AREA IN ACCORDANCE WITH EMBANKMENT STANDARDS AND ENSURE POSITIVE DRAINAGE ACROSS AREA.
   * SAW CUT EXISTING SIDEWALK ALONG THIS LINE.
4. REMOVE EXISTING UTILITY POLE.
5. REMOVE EXISTING GUY WIRE AND ANCHOR.
6. REMOVE EXISTING OVERHEAD ELECTRIC SERVICE. COORDINATE WITH ELECTRIC UTILITY REGARDING ABANDONMENT PROCEDURE.
7. NOT USED.
8. SAW CUT AND REMOVE EXISTING CONCRETE WALK AND CURB TO APPROXIMATE LIMITS SHOWN. INSTALL NEW INTEGRAL CONCRETE WALK AND CURB PER LAYOUT AND GRADING SHEETS.
9. SAW CUT AND REMOVE EXISTING ASPHALT PAVEMENT TO APPROXIMATE LIMITS SHOWN TO ACCOMMODATE NEW CONCRETE PAVEMENT. SEE LAYOUT SHEET C2.01 FOR DETAIL.
   *SAW CUT EXISTING PAVEMENT ALONG THIS LINE
10. REMOVE EXISTING PARKING STRIPING TO ACCOMMODATE NEW PARKING CONFIGURATION. SEE LAYOUT SHEET C2.01 FOR DETAIL.
11. REMOVE EXISTING WHEEL STOP AND RE-LOCATE PER LAYOUT SHEET C2.01.

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EXISTING CONDITIONS & DEMOLITION PLAN

STATE OF LOUISIANA
MASON MEREDITH
License No. 50170
PROFESSIONAL ENGINEER
IN
CIVIL ENGINEERING

ENGINEER
LIC#: 50170

Proj #: 24.0002607.000 Reviewed By:

C1.01

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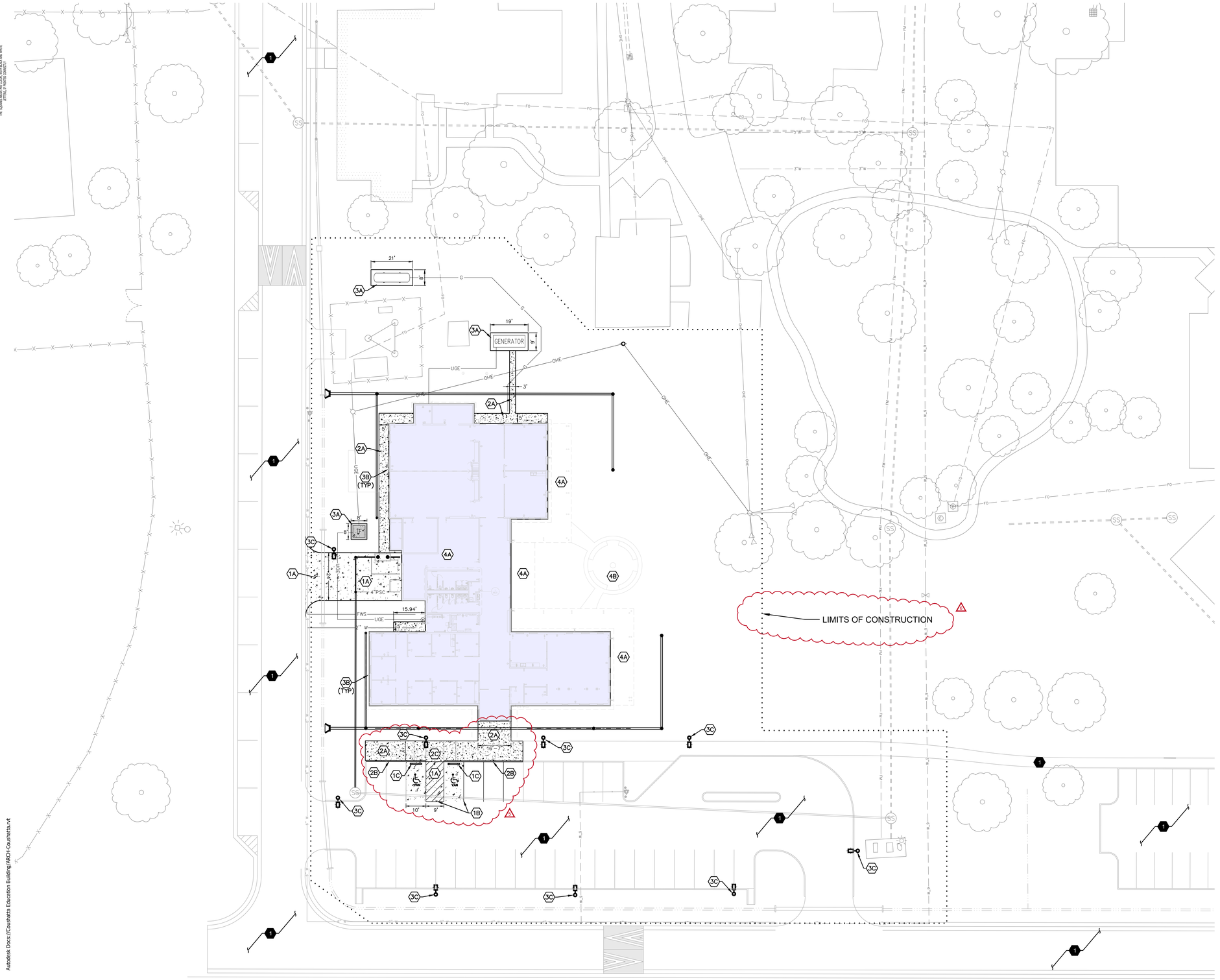

GENERAL NOTES- SITE PLANS

A. USE CAUTION WHEN COMPLETING DEMOLITION IN AREA OF EXISTING PAVEMENT AND CURBING SO AS NOT TO DISTURB OR DAMAGE EXISTING UNDERGROUND UTILITIES.

B. ANY UNEXPECTED FILLS OR UNDERGROUND FACILITIES THAT ARE ENCOUNTERED SHALL BE REMOVED AND THE EXCAVATION THOROUGHLY CLEANED PRIOR TO BACKFILL PLACEMENT AND/OR CONSTRUCTION.

C. PRIOR TO DISCONNECTING AND/OR REMOVING ANY EXISTING UTILITY APPURTENANCE, CONTRACTOR SHALL COORDINATE WITH OWNER & UTILITY COMPANY REGARDING APPROPRIATE DISCONNECTION PRACTICES.

D. CONTRACTOR SHALL VERIFY GRATE ELEVATIONS OF ALL EXISTING CATCH BASINS, STORM PIPES, ETC. WITHIN PROJECT LIMITS. CONTRACTOR SHALL REPORT ANY DISCREPANCIES TO OWNER'S ENGINEER IMMEDIATELY.

E. CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR OF ANY ITEMS DAMAGED DURING CONSTRUCTION, INCLUDING PLANT MATERIAL NOT DESIGNATED FOR REMOVAL.

F. ALL UTILITIES SHALL BE INSTALLED IN ACCORDANCE WITH LOCAL UTILITY STANDARDS, LOCAL CODES, AND STATE CODES. GENERAL CONTRACTOR TO BE RESPONSIBLE FOR ALL FEES ASSOCIATED WITH NEW UTILITY SERVICE, INCLUDING WATER, FIRE, IRRIGATION, ELECTRIC, CABLE, TELEPHONE, ETC.

G. IF ANY DISCREPANCIES ARE FOUND BETWEEN CIVIL SHEETS, CONTRACTOR SHALL NOTIFY THE OWNER IMMEDIATELY FOR DIRECTION.

H. USE CAUTION WHEN COMPLETING DEMOLITION IN AREA OF EXISTING PAVEMENT AND CURBING SO AS NOT TO DISTURB OR DAMAGE EXISTING UNDERGROUND UTILITIES.

UTILITY NOTE

THE LOCATION OF UNDERGROUND UTILITIES SHOWN ARE BASED ON OBSERVED EVIDENCE AND AVAILABLE SURVEY. LACKING EXCAVATION, THE EXACT LOCATION OF UNDERGROUND FEATURES CANNOT BE ACCURATELY, COMPLETELY, AND RELIABLY DEPICTED. OTHER UTILITIES MAY EXIST AND NOT BE SHOWN HEREON. CONTRACTOR SHALL NOTIFY OWNER IMMEDIATELY UPON DISCOVERY OF ANY UTILITY NOT SHOWN.

(#) KEYNOTES:

1. ROADWAY CONSTRUCTION:
   - 1.A. INSTALL CONCRETE PAVEMENT SECTION WHERE INDICATED BY HATCH PATTERN. SEE DETAIL 1, SHEET C6.02.
   - 1.B. RE-PAINT PARKING STRIPING TO ACCOMMODATE NEW PARKING LAYOUT. SEE DETAIL 4, SHEET C6.02.
   - 1.C. INSTALL CONCRETE WHEEL STOP PER DETAIL 5, SHEET C6.02.
2. SIDEWALK CONSTRUCTION:
   - 2.A. CONSTRUCT CONCRETE SIDEWALK @ 2.0% MAX. CROSS SLOPE WHERE INDICATED BY HATCH PATTERN AND TO DIMENSIONS SHOWN. SEE DETAIL 3, SHEET C6.01.
   - 2.B. CONSTRUCT CONCRETE CURB AND SIDEWALK PER DETAILS 1 & 2, SHEET C6.02.
   - 2.C. CONSTRUCT HANDICAP RAMP IN LOCATION SHOWN. SEE DETAIL 3, SHEET C6.02.
3. UTILITIES:
   - 3.A. INSTALL CONCRETE UTILITY EQUIPMENT PAD PER DIMENSIONS SHOWN.
   - 3.B. INSTALL DOWNSPOUT BOOT AND CONNECT TO ADJACENT STORM HEADER PIPE PER DETAIL 5, SHEET C6.01.
   - 3.C. INSTALL LIGHT POLE AND BASE IN APPROXIMATE LOCATION SHOWN. SEE ELECTRICAL PLANS FOR DETAILS. CONDUIT AND WIRING SHALL BE INSTALLED VIA DIRECTIONAL DRILLING BENEATH EXISTING PAVEMENT WHEN FEASIBLE.
4. MISCELLANEOUS STRUCTURES
   - 4.A. PROPOSED BUILDING AND COVERED PATIO. SEE ARCHITECTURAL PLANS.
   - 4.B. PROPOSED LANDSCAPE ELEMENT. SEE LANDSCAPING PLANS.

KEYNOTES: (NOT INCLUDED IN THIS CONTRACT)

1. ROADWAY/PARKING/SIDEWALK INFRASTRUCTURE NOT INCLUDED IN AS PART OF THIS CONTRACT. NOTED ITEMS WILL BE IN PLACE PRIOR TO CONSTRUCTION.

PAVEMENT LEGEND

- (1A) CONCRETE PAVEMENT SECTION
  7" CLASS A 4000 PSI CONCRETE PAVEMENT
  4" DGA (No. 610 LIMESTONE)
  COMPACTED SUBGRADE
- (2A) STANDARD DUTY CONCRETE SIDEWALK SECTION
  4" CLASS A 3500 PSI CONCRETE PAVEMENT
  4" DGA (No. 610 LIMESTONE)
  COMPACTED SUBGRADE
- (3A) CONCRETE UTILITY EQUIPMENT PAD SECTION
  8" CLASS A 4000 PSI CONCRETE
  4" DGA (No. 610 LIMESTONE)
  COMPACTED SUBGRADE

PAVEMENT NOTES:

- ALL MATERIALS AND INSTALLATION SHOULD MEET THE CURRENT LaDOTD STANDARD SPECIFICATIONS FOR ROADS & BRIDGES (LSSRB)
- GRADED AGGREGATE BASE SHOULD BE COMPACTED TO A MINIMUM OF 98% OF THE MATERIAL'S MODIFIED PROCTOR (ASTM D-1557, METHOD C) MAXIMUM DRY DENSITY
- WHERE BASE COURSE THICKNESS EXCEEDS 6 INCHES, THE MATERIAL SHOULD BE PLACED AND COMPACTED IN TWO OR MORE LIFTS OF EQUAL THICKNESS
- PROPER JOINT SPACING WILL BE REQUIRED FOR PCC PAVEMENT TO PREVENT EXCESSIVE SLAB CURLING AND SHRINKAGE CRACKING. JOINTS SHOULD BE SEALED TO PREVENT ENTRY OF FOREIGN MATERIAL AND DOWELED WHERE NECESSARY FOR LOAD TRANSFER.
- CONCRETE FOR RIGID PAVEMENTS SHOULD HAVE A MIN. 28-DAY COMPRESSIVE STRENGTH OF 4,000 PSI, AND BE PLACED WITH A MAXIMUM SLUMP OF 4 INCHES.

1 C2.01 CIVIL LAYOUT PLAN
1" = 20'-0"

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LAYOUT PLAN

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ENGINEER
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Proj #: 24.0002607.000 Reviewed By:

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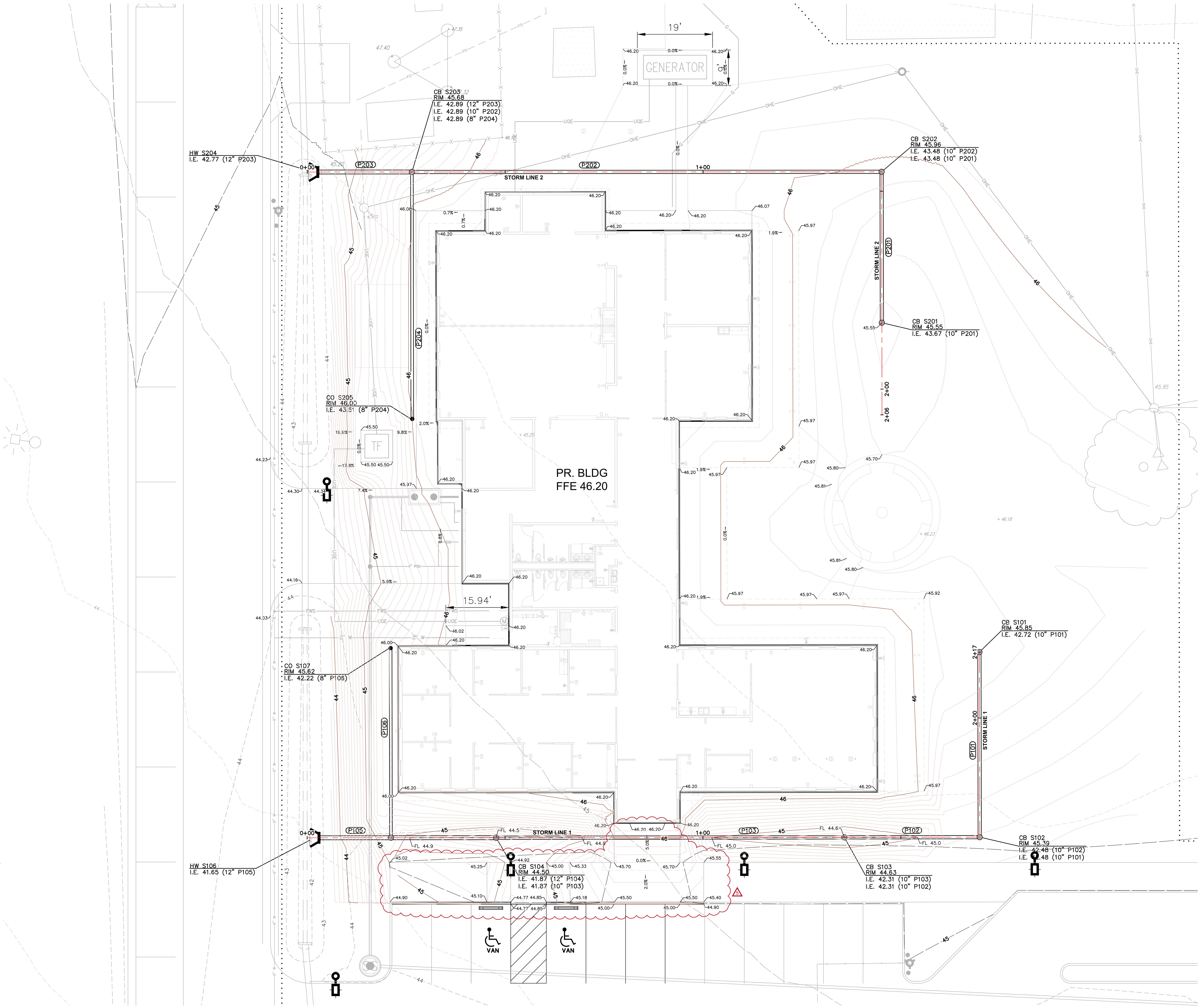

1 / C3.01 CIVIL GRADING & DRAINAGE PLAN
1" = 10'-0"

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GRADING & DRAINAGE NOTES

A. CONTRACTOR SHALL PERFORM FINAL GRADING OPERATIONS WITHIN PAVED AREAS, BUILDING PAD AND SURROUNDING GRASS AREAS AS NECESSARY TO FACILITATE FINISH GRADES AND SPOT ELEVATIONS INDICATED ON PLANS.

B. ALL GRADES MUST PROVIDE EFFECTIVE DRAINAGE AWAY FROM THE BUILDING DURING AND AFTER CONSTRUCTION AND SHOULD BE MAINTAINED THROUGHOUT THE LIFE OF THE STRUCTURE.

C. CONTRACTOR SHALL PERFORM EARTHWORK OPERATIONS AND PREPARE THE BUILDING PAD AND PAVEMENT AREAS IN STRICT ADHERENCE TO THE RECOMMENDATIONS OF THE LATEST GEOTECHNICAL REPORT. COORDINATE GRADING OPERATIONS WITH NOTES IN THE GEOTECHNICAL REPORT.

D. EXISTING GRADE TIE-IN POINTS SHOWN HEREIN ARE ASSUMED BASED ON TOPOGRAPHIC SURVEY DATA AND MAY VARY BASED ON EXACT FIELD CONDITIONS. PROPOSED GRADING SHALL TIE INTO EXISTING GRADE AT A MINIMUM 5% SLOPE AND SHALL ENSURE EFFECTIVE DRAINAGE TOWARD NEARBY STORMWATER DRAINAGE INFRASTRUCTURE.

E. CONTRACTOR SHALL VERIFY ALL CRITICAL INVERT ELEVATIONS OF EXISTING STORM PIPES, ETC. WITHIN PROJECT LIMITS. CONTRACTOR SHALL REPORT ANY DISCREPANCIES TO THE ENGINEER IMMEDIATELY.

F. CONTRACTOR SHALL PROOF ROLL ALL PAVED AREAS AND WITHIN THE BUILDING FOOTPRINT PRIOR TO PLACING STONE AND/OR PAVEMENT. ANY SOFT AREAS SHALL BE REPORTED TO THE GEOTECHNICAL ENGINEER IMMEDIATELY.

G. BACKFILL AROUND DRAINAGE STRUCTURES AND TRENCH BACKFILL BELOW THE MIDPOINT OF PIPE CULVERTS SHALL BE #57 STONE. BACKFILL ABOVE THE MIDPOINT SHALL BE OF ACCEPTABLE MATERIALS AND COMPACTED TO EMBANKMENT REQUIREMENTS.

H. TOPSOIL SHALL BE STOCKPILED AND PRESERVED FROM EROSION OR DISPERSAL BOTH DURING AND AFTER SITE GRADING OPERATIONS.

I. WHERE CONSTRUCTION OR LAND DISTURBANCE ACTIVITY WILL OR HAS TEMPORARILY CEASED ON ANY PORTION OF THE SITE, TEMPORARY SITE STABILIZATION MEASURES SHALL BE REQUIRED AS SOON AS PRACTICAL, BUT NO LATER THAN 14 CALENDAR DAYS AFTER THE ACTIVITY HAS CEASED.

J. PERMANENT STABILIZATION MEASURES SHALL BE IMPLEMENTED IN ACCORDANCE WITH THE LANDSCAPE PLANS.

STRUCTURE SCHEDULE

NAME	TYPE	RIM/TW EL.	I.E. IN	I.E. OUT
S101	15" Nyloplast Drain Basin	45.85'	(P101) 42.72	
S102	15" Nyloplast Drain Basin	45.39'	(P102) 42.48	(P101) 42.48
S103	15" Nyloplast Drain Basin	44.63'	(P103) 42.31	(P102) 42.31
S104	15" Nyloplast Drain Basin	44.50'	(P104) 41.87	(P103) 41.87
S105	15" Nyloplast Drain Basin	45.18'	(P105) 41.74	(P104) 41.74 (P106) 41.74
S106	Concrete Winged Headwall	43.04'		(P105) 41.65
S107	6" PVC Cleanout	45.62'	(P106) 42.22	
S201	15" Nyloplast Drain Basin	45.55'	(P201) 43.67	
S202	15" Nyloplast Drain Basin	45.96'	(P202) 43.48	(P201) 43.48
S203	15" Nyloplast Drain Basin	45.68'	(P203) 42.89	(P202) 42.89 (P204) 42.89
S204	Concrete Winged Headwall	44.37'		(P203) 42.77
S205	6" PVC Cleanout	46.00'	(P204) 43.51	

PIPE SCHEDULE

NAME	SIZE	TYPE	LENGTH	SLOPE
P101	10"	Corrugated HDPE Pipe	46.75'	−0.50%
P102	10"	Corrugated HDPE Pipe	34.19'	−0.50%
P103	10"	Corrugated HDPE Pipe	87.98'	−0.50%
P104	12"	Corrugated HDPE Pipe	26.55'	−0.50%
P105	12"	Corrugated HDPE Pipe	17.85'	−0.50%
P106	8"	Corrugated HDPE Pipe	47.92'	−1.00%
P201	10"	Corrugated HDPE Pipe	38.13'	−0.50%
P202	10"	Corrugated HDPE Pipe	118.66'	−0.50%
P203	12"	Corrugated HDPE Pipe	23.44'	−0.50%
P204	8"	Corrugated HDPE Pipe	62.39'	−1.00%

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GRADING & DRAINAGE PLAN

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ENGINEER
LIC#: 50170

TRUE NORTH
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Proj #: 24.0002607.000 Reviewed By:

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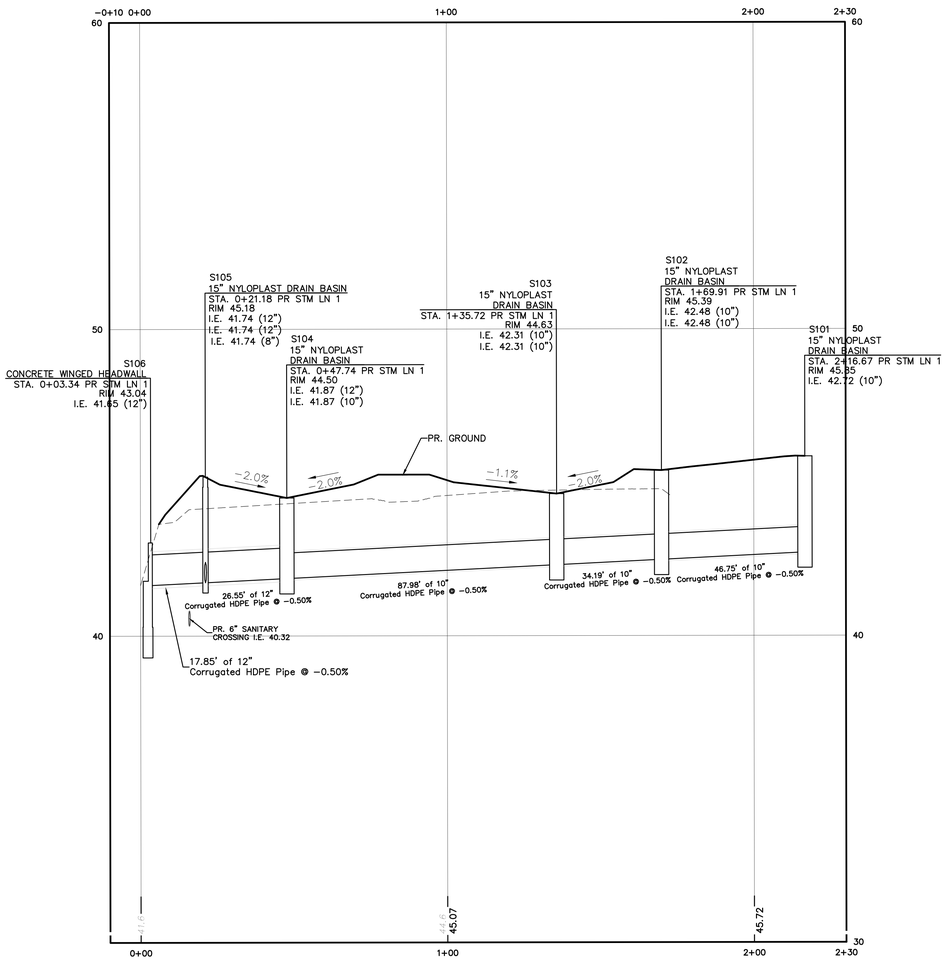

PR STM LN 1 PROFILE
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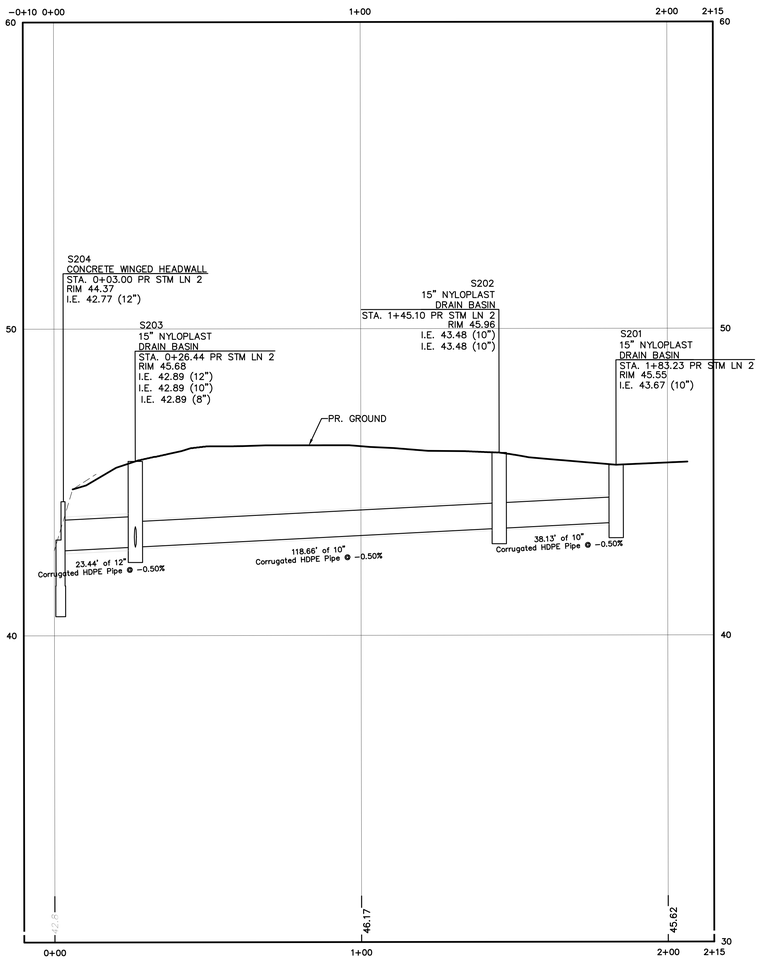

PR STM LN 2 PROFILE
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STRUCTURE SCHEDULE

NAME	TYPE	RIM/TW EL.	I.E. IN	I.E. OUT
S101	15" Nyloplast Drain Basin	45.85'	(P101) 42.72	
S102	15" Nyloplast Drain Basin	45.39'	(P102) 42.48	(P101) 42.48
S103	15" Nyloplast Drain Basin	44.63'	(P103) 42.31	(P102) 42.31
S104	15" Nyloplast Drain Basin	44.50'	(P104) 41.87	(P103) 41.87
S105	15" Nyloplast Drain Basin	45.18'	(P105) 41.74	(P104) 41.74 (P106) 41.74
S106	Concrete Winged Headwall	43.04'		(P105) 41.65
S107	6" PVC Cleanout	45.62'	(P106) 42.22	
S201	15" Nyloplast Drain Basin	45.55'	(P201) 43.67	
S202	15" Nyloplast Drain Basin	45.96'	(P202) 43.48	(P201) 43.48
S203	15" Nyloplast Drain Basin	45.68'	(P203) 42.89	(P202) 42.89 (P204) 42.89
S204	Concrete Winged Headwall	44.37'		(P203) 42.77
S205	6" PVC Cleanout	46.00'	(P204) 43.51	

PIPE SCHEDULE

NAME	SIZE	TYPE	LENGTH	SLOPE
P101	10"	Corrugated HDPE Pipe	46.75'	-0.50%
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P103	10"	Corrugated HDPE Pipe	87.98'	-0.50%
P104	12"	Corrugated HDPE Pipe	26.55'	-0.50%
P105	12"	Corrugated HDPE Pipe	17.85'	-0.50%
P106	8"	Corrugated HDPE Pipe	47.92'	-1.00%
P201	10"	Corrugated HDPE Pipe	38.13'	-0.50%
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985.674.5710

COUSHATTA TRIBE OF LOUISIANA

CTLA - EDUCATION BUILDING

1940 CC BEL ROAD
ELTON, LA 70532

Issue:	No:	Date:
BID SET		2025.12.05
BID ADDENDUM 5	5	2026.01.21
BID ADDENDUM 6	6	2026.01.23

DRAINAGE PROFILES

STATE OF LOUISIANA
MASON MEREDITH
License No. 50170
PROFESSIONAL ENGINEER
IN
CIVIL ENGINEERING

ENGINEER
LIC#: 50170

Proj #: 24.0002607.000 Reviewed By:

C3.02

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TRUE NORTH PROJECT NORTH

1 C3.01 CIVIL GRADING & DRAINAGE PLAN
1" = 10'-0"

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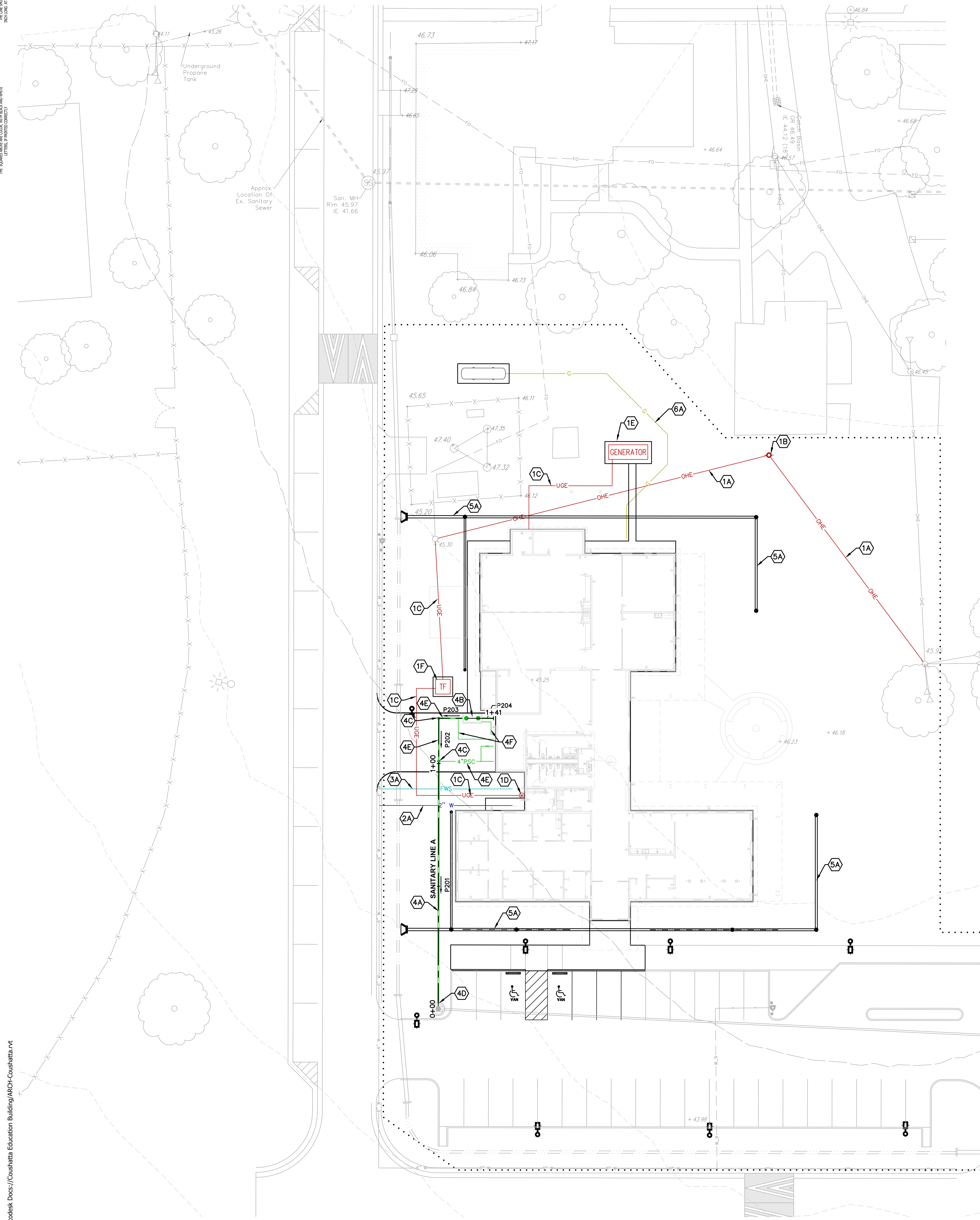
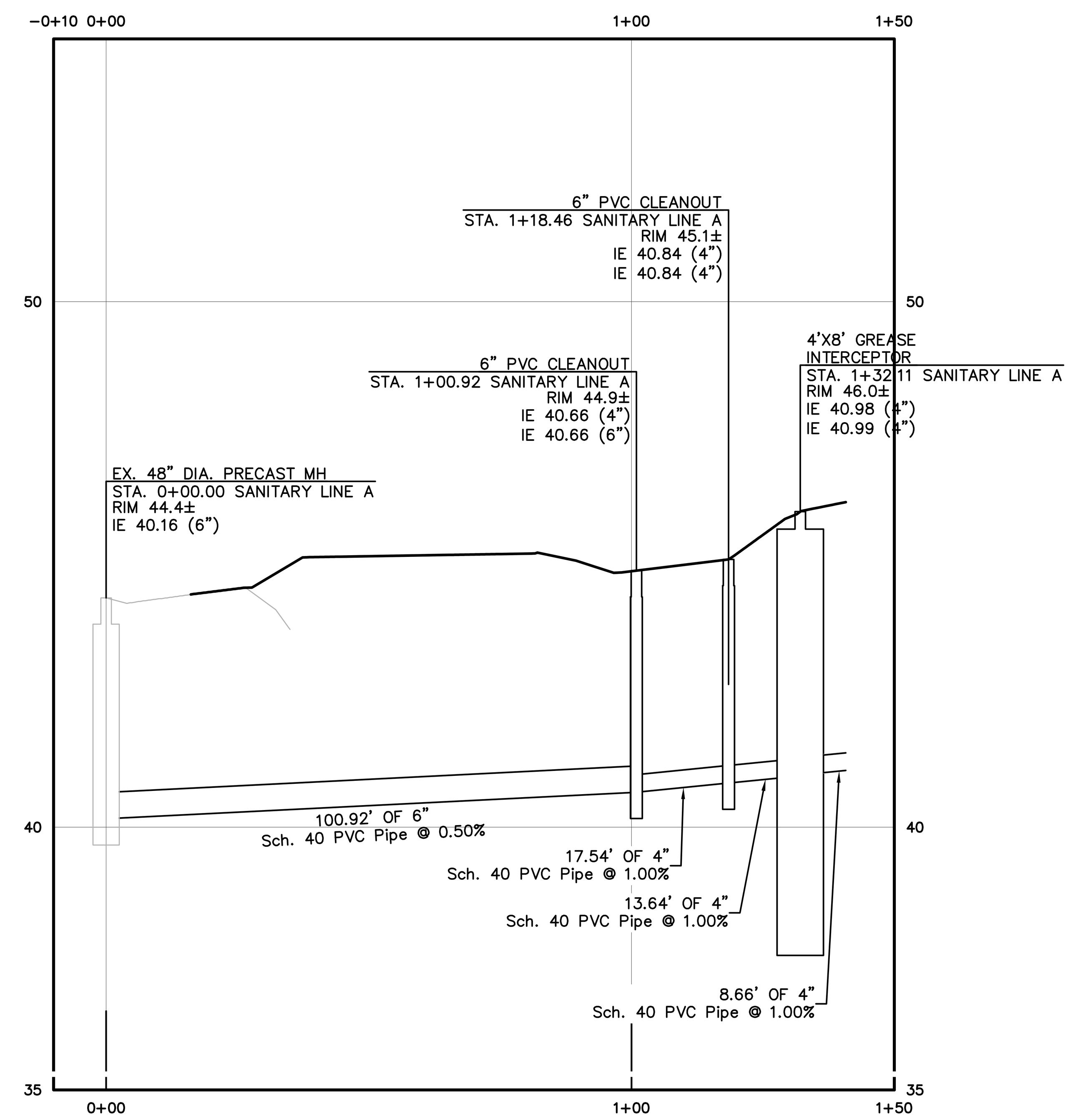
THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT PLOT SCALE ORIGINAL PAGE SIZE

THE SQUARES ABOVE ARE COLOR, WITH BLACK AND WHITE LEVELS, IF PRINTED CORRECTLY



1 | C2.01 CIVIL LAYOUT PLAN
1" = 20'-0"



SANITARY LINE A PROFILE
1"=20' H 1"=2' V

GENERAL NOTES- SITE PLANS

A. USE CAUTION WHEN COMPLETING DEMOLITION IN AREA OF EXISTING PAVEMENT AND CURBING SO AS NOT TO DISTURB OR DAMAGE EXISTING UNDERGROUND UTILITIES.

B. ANY UNEXPECTED FILLS OR UNDERGROUND FACILITIES THAT ARE ENCOUNTERED SHALL BE REMOVED AND THE EXCAVATION THOROUGHLY CLEANED PRIOR TO BACKFILL PLACEMENT AND/OR CONSTRUCTION.

C. PRIOR TO DISCONNECTING AND/OR REMOVING ANY EXISTING UTILITY APPURTENANCE, CONTRACTOR SHALL COORDINATE WITH OWNER & UTILITY COMPANY REGARDING APPROPRIATE DISCONNECTION PRACTICES.

D. CONTRACTOR SHALL VERIFY GRATE ELEVATIONS OF ALL EXISTING CATCH BASINS, STORM PIPES, ETC. WITHIN PROJECT LIMITS. CONTRACTOR SHALL REPORT ANY DISCREPANCIES TO OWNER'S ENGINEER IMMEDIATELY.

E. CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR OF ANY ITEMS DAMAGED DURING CONSTRUCTION, INCLUDING PLANT MATERIAL NOT DESIGNATED FOR REMOVAL.

F. ALL UTILITIES SHALL BE INSTALLED IN ACCORDANCE WITH LOCAL UTILITY STANDARDS, LOCAL CODES, AND STATE CODES. GENERAL CONTRACTOR TO BE RESPONSIBLE FOR ALL FEES ASSOCIATED WITH NEW UTILITY SERVICE, INCLUDING WATER, FIRE, IRRIGATION, ELECTRIC, CABLE, TELEPHONE, ETC.

G. IF ANY DISCREPANCIES ARE FOUND BETWEEN CIVIL SHEETS, CONTRACTOR SHALL NOTIFY THE OWNER IMMEDIATELY FOR DIRECTION.

H. USE CAUTION WHEN COMPLETING DEMOLITION IN AREA OF EXISTING PAVEMENT AND CURBING SO AS NOT TO DISTURB OR DAMAGE EXISTING UNDERGROUND UTILITIES.

UTILITY NOTE

THE LOCATION OF UNDERGROUND UTILITIES SHOWN ARE BASED ON OBSERVED EVIDENCE AND AVAILABLE SURVEY. LACKING EXCAVATION, THE EXACT LOCATION OF UNDERGROUND FEATURES CANNOT BE ACCURATELY, COMPLETELY, AND RELIABLY DEPICTED. OTHER UTILITIES MAY EXIST AND NOT BE SHOWN HEREON. CONTRACTOR SHALL NOTIFY OWNER IMMEDIATELY UPON DISCOVERY OF ANY UTILITY NOT SHOWN.

KEYNOTES:

1. ELECTRIC:
   - 1.A. INSTALL OVERHEAD ELECTRIC SERVICE. COORDINATE WITH ELECTRIC UTILITY FOR INSTALLATION PROCEDURE.
   - 1.B. INSTALL NEW ELECTRIC POLE FOR OVERHEAD SERVICE ROUTING. COORDINATE WITH ELECTRIC UTILITY FOR INSTALLATION PROCEDURE.
   - 1.C. INSTALL UNDERGROUND ELECTRIC SERVICE. SEE ELECTRICAL PLANS FOR DETAIL.
   - 1.D. INSTALL ELECTRIC UTILITY METER AND C. T. CABINET. SEE ELECTRICAL PLANS FOR DETAIL.
   - 1.E. INSTALL CONCRETE EQUIPMENT PAD AND BACKUP GENERATOR. SEE ELECTRICAL PLANS AND DETAIL 3, SHEET C6.1.
   - 1.F. INSTALL PAD-MOUNTED TRANSFORMER IN APPROXIMATE LOCATION SHOWN. SEE ELECTRICAL PLANS FOR DETAIL.
2. DOMESTIC WATER:
   - 2.A. INSTALL 2" DOMESTIC WATER SERVICE LINE IN APPROXIMATE LOCATION SHOWN. SEE PLUMBING PLANS FOR BUILDING CONNECTION DETAILS.
3. FIRE SERVICE:
   - 3.A. INSTALL FIRE WATER SERVICE LINE. SEE PLUMBING PLANS FOR SIZE AND BUILDING CONNECTION DETAILS.
4. SANITARY SEWER:
   - 4.A. INSTALL 6" SCH. 40 PVC SANITARY SEWER PIPE. SEE SANITARY PIPE SCHEDULE FOR DETAIL. REFER TO PLUMBING PLANS FOR BUILDING CONNECTION DETAILS.
   - 4.B. INSTALL GREASE INTERCEPTOR IN APPROXIMATE LOCATION SHOWN. SEE PLUMBING PLANS FOR DETAIL.
   - 4.C. INSTALL 6" SANITARY SEWER CLEANOUT PER DETAIL 4, SHEET C6.01.
   - 4.D. TIE INTO EXISTING SANITARY MANHOLE UTILIZING EXISTING PIPE STUB.
   - 4.E. INSTALL 4" SCH. 40 PVC SANITARY SEWER PIPE. SEE SANITARY PIPE SCHEDULE FOR DETAIL. REFER TO PLUMBING PLANS FOR BUILDING CONNECTION DETAILS.
   - 4.F. INSTALL 3" SANITARY VENT LINES. REFER TO PLUMBING PLANS FOR DETAIL.
5. STORM SEWER:
   - 5.A. INSTALL STORM DRAINAGE INFRASTRUCTURE WHERE INDICATED. SEE DRAINAGE PLAN, SHEET C3.01.
6. PROPANE GAS:
   - 6.A. INSTALL 3/4" PROPANE GAS SERVICE IN APPROXIMATE LOCATION SHOWN FROM BUILDING TO PROPOSED TANK LOCATION. REFER TO M.E.P. PLANS FOR EXACT LOCATION OF BUILDING ENTRY.

SANITARY STRUCTURE SCHEDULE

NAME	TYPE	RIM/TW EL.	I.E. IN	I.E. OUT
EX. MH SS101	Ex. 48" Dia. Precast MH	44.36'	(P201) 40.16	
SS201	6" PVC Cleanout	44.88'	(P202) 40.66	(P201) 40.66
SS202	6" PVC Cleanout	45.09'	(P203) 40.84	(P202) 40.84
SS203	4'x8' Grease Interceptor	46.00'	(P204) 40.99	(P203) 40.98

SANITARY PIPE SCHEDULE

NAME	SIZE	TYPE	LENGTH	SLOPE
P201	6"	Sch. 40 PVC Pipe	100.92'	0.50%
P202	4"	Sch. 40 PVC Pipe	17.54'	1.00%
P203	4"	Sch. 40 PVC Pipe	13.64'	1.00%
P204	4"	Sch. 40 PVC Pipe	8.66'	1.00%

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UTILITY PLAN

STATE OF LOUISIANA
MASON MEREDITH
License No. 50170
PROFESSIONAL ENGINEER IN CIVIL ENGINEERING

ENGINEER
LIC#: 50170

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Proj #: 24.0002607.000 Reviewed By:

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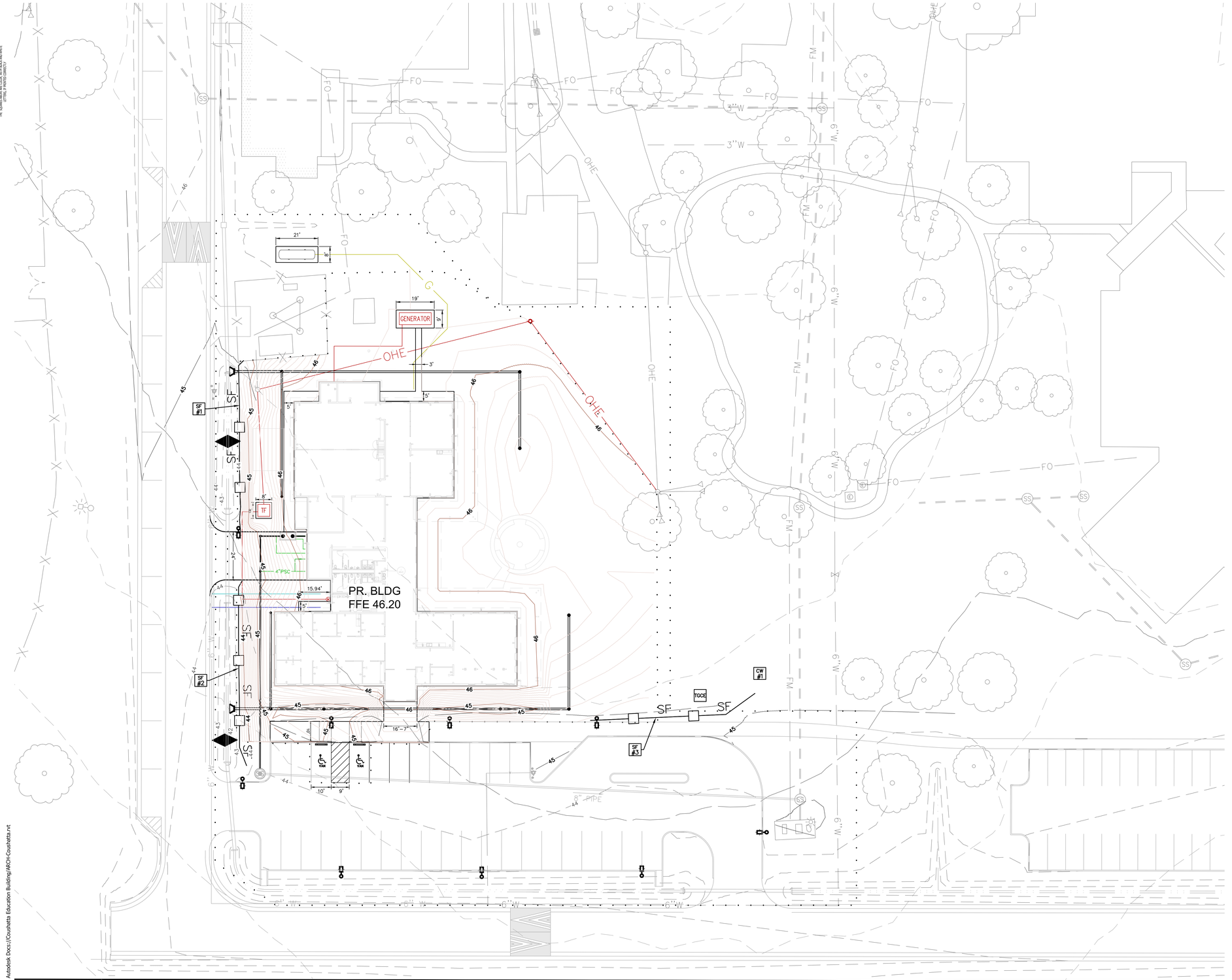

A1 CIVIL EPSC PLAN
C5.01 1" = 50'-0"

GENERAL NOTES- EPSC

THE APPROVED EROSION PREVENTION AND SEDIMENT CONTROL (EPSC) PLAN SHALL BE IMPLEMENTED PRIOR TO ANY LAND-DISTURBING ACTIVITY ON THE CONSTRUCTION SITE. ANY MODIFICATIONS TO THE APPROVED EPSC PLAN MUST BE REVIEWED AND APPROVED BY ENGINEER & OWNER. EPSC BMPS SHALL BE INSTALLED PER THE PLAN AND BEST PRACTICES STANDARDS.

THE EROSION PREVENTION AND SEDIMENT CONTROL DEVICES SHOWN ON THIS PLAN SET ARE INTENDED TO BE THE MINIMUM CONTROL MEASURES. ADDITIONAL EPSC DEVICES MAY NEED TO BE INSTALLED AS NECESSARY BY THE CONTRACTOR TO PREVENT EROSION AND SEDIMENTATION.

ALL ROADSIDE SWALES/DITCHES AND IMMEDIATE CONTRIBUTING DRAINAGE TO THEM MUST BE STABILIZED AS THE SWALES/DITCHES ARE BEING CONSTRUCTED TO AVOID SEDIMENT RUNOFF ONTO ADJOINING PROPERTIES.

TIE BACK DISTANCES ON SILT FENCE ARE TO BE ADEQUATE LENGTH TO ALLOW FOR A MINIMUM OF 2 FEET OF STORAGE.

ACTIONS MUST BE TAKEN TO MINIMIZE THE TRACKING OF MUD AND SOIL FROM CONSTRUCTION AREAS ONTO PUBLIC ROADWAYS. SOIL TRACKED ONTO THE ROADWAY SHALL BE REMOVED DAILY.

SOIL STOCKPILES SHALL BE LOCATED AS SHOWN ON PLAN. STOCKPILES SHALL BE SEEDED, MULCHED, AND ADEQUATELY CONTAINED THROUGH THE USE OF SILT FENCE.

AT THE END OF EACH WORK DAY, THE SITE SHALL BE CLEANED OF SEDIMENT DEBRIS. DISTURBED AREAS SHALL HAVE SILT CONTROL INSTALLED OR BE STABILIZED SO THAT SEDIMENT WILL NOT GET OFF SITE OR INTO THE STORM SYSTEM DURING A RAIN EVENT.

WHERE CONSTRUCTION OR LAND DISTURBANCE ACTIVITY WILL OR HAS TEMPORARILY CEASED ON ANY PORTION OF A SITE, TEMPORARY SITE STABILIZATION MEASURES SHALL BE REQUIRED AS SOON AS PRACTICABLE, BUT NO LATER THAN 14 CALENDAR DAYS AFTER THE ACTIVITY HAS CEASED.

SEDIMENT-LADEN GROUNDWATER ENCOUNTERED DURING TRENCHING, BORING, OR OTHER EXCAVATION ACTIVITIES SHALL BE PUMPED TO A SEDIMENT TRAPPING DEVICE PRIOR TO BEING DISCHARGED INTO A STREAM, POOL, SWALE, OR CATCH BASIN.

FLOODPLAIN NOTE

THIS SITE IS LOCATED WITHIN THE 100 YEAR FLOODPLAIN PER FEMA PANEL 22003C0425D, DATED 3/17/2011

EPSC BMP's MAINTENANCE NOTE

EROSION AND SEDIMENT CONTROLS SHALL BE INSPECTED EVERY SEVEN DAYS AND AFTER EVERY RAINFALL EVENT THAT EQUALS OR EXCEEDS 1/2" OF PRECIPITATION.

SWPPP LEGEND

SBIP #1	STONE BAG INLET PROTECTION
SF #1	SILT FENCE (SEE DETAIL 6, SHEET 6.01)
TGCE	TEMPORARY GRAVEL CONSTRUCTION ENTRANCE/EXIT
CW #1	CONCRETE WASHOUT AREA
	STONE BAG CHECK DAM SEE DETAIL 7, SHEET 6.01)
. . . .	LIMITS OF DISTURBANCE (0.96 AC)

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Issue:	No:	Date:
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EROSION CONTROL PLAN

STATE OF LOUISIANA
MASON MEREDITH
License No. 50170
PROFESSIONAL ENGINEER
IN
CIVIL ENGINEERING

ENGINEER
LIC#: 50170

Proj #: 24.0002607.000 Reviewed By:

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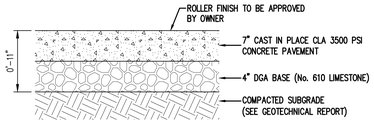
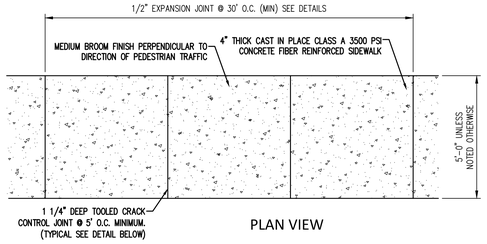
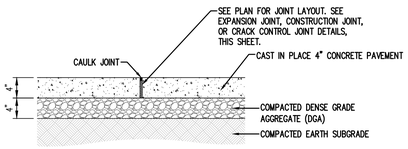


CONCRETE PAVEMENT
DETAIL 1
SCALE: NONE



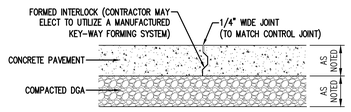
PLAN VIEW



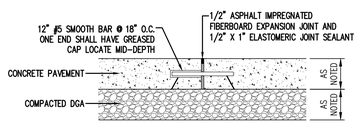
SECTION VIEW

NOTE:
PROVIDE JOINTS AS SHOWN IF INDICATED ON PLAN.

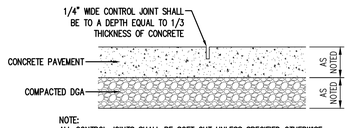
CONCRETE SIDEWALK
DETAIL 2
SCALE: NONE



CONSTRUCTION JOINT
DETAIL 2A
SCALE: NONE

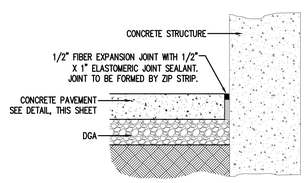


EXPANSION JOINT
DETAIL 2B
SCALE: NONE

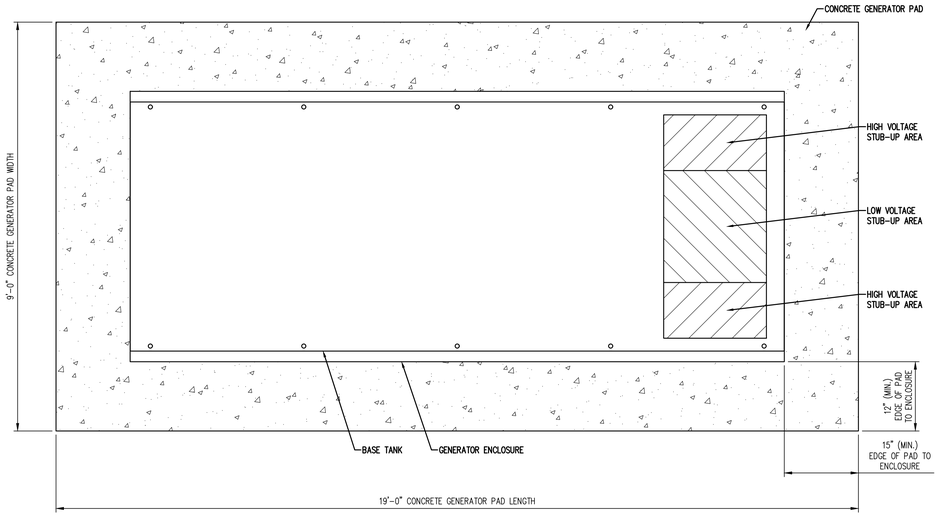


NOTE:
ALL CONTROL JOINTS SHALL BE SOFT CUT UNLESS SPECIFIED OTHERWISE.

CRACK CONTROL JOINT
DETAIL 2C
SCALE: NONE

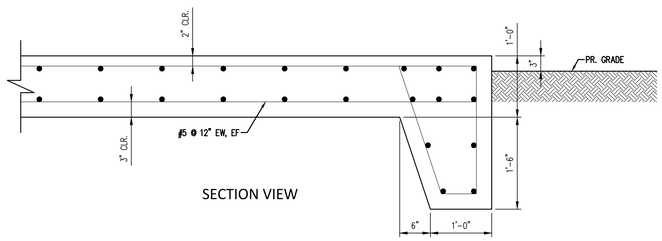


CONCRETE PAVMENT AT STRUCTURE
DETAIL 2D
SCALE: NONE



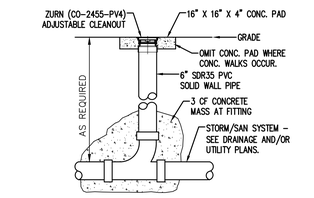
PLAN VIEW

NOTES:
1. CONFIRM PAD DIMENSIONS WITH GENERATOR MANUFACTURER SPECIFICATIONS AND REQUIREMENTS.

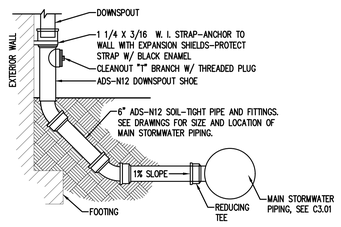


SECTION VIEW

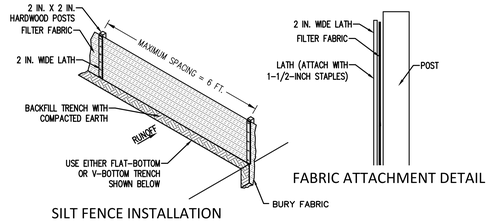
CONCRETE GENERATOR PAD
DETAIL 3
SCALE: NONE



CLEANOUT
DETAIL 4
SCALE: NONE

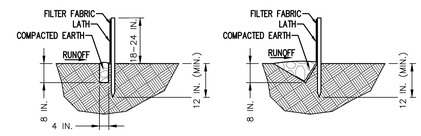


DOWNSPOUT BOOT
DETAIL 5
SCALE: NONE



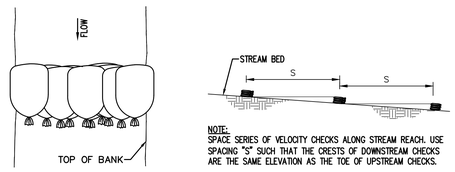
FABRIC ATTACHMENT DETAIL

SILT FENCE INSTALLATION



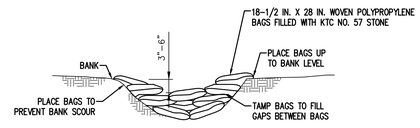
FLAT-BOTTOM TRENCH SECTION V-SHAPED TRENCH SECTION

SILT FENCE
DETAIL 6
SCALE: NONE



NOTE:
SPACE SERIES OF VELOCITY CHECKS ALONG STREAM REACH. USE SPACING "S" SUCH THAT THE CRESTS OF DOWNSTREAM CHECKS ARE THE SAME ELEVATION AS THE TOE OF UPSTREAM CHECKS.

TYPICAL PLAN



TYPICAL CROSS SECTION

STONE BAG CHECK DAM
DETAIL 7
SCALE: NONE

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MISC. DETAILS

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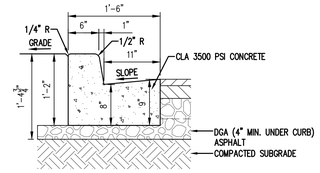
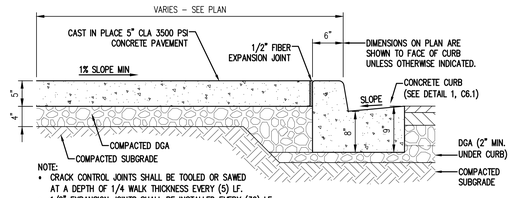


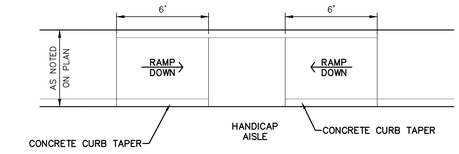
NOTE: DIMENSION ON PLAN SHOWN TO FACE OF CURB (7" FROM BACK EDGE) UNLESS OTHERWISE INDICATED.

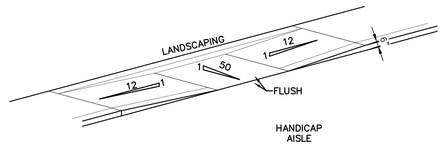
18" CONCRETE CURB AND GUTTER
DETAIL
SCALE: NONE
1



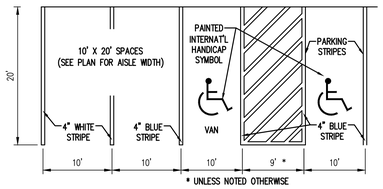
NOTE:
- CRACK CONTROL JOINTS SHALL BE TOOLED OR SAWED AT A DEPTH OF 1/4 WALK THICKNESS EVERY (5) LF.
- 1/2" EXPANSION JOINTS SHALL BE INSTALLED EVERY (30) LF.
- SIDEWALK SURFACE SHALL HAVE MEDIUM BROOM FINISH

CONCRETE CURB AND WALK
DETAIL
SCALE: NONE
2



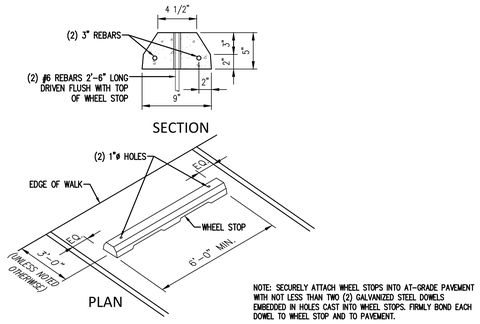


CONCRETE HANDICAP RAMP
DETAIL
SCALE: NONE
3



* UNLESS NOTED OTHERWISE

TYPICAL PARKING LAYOUT
DETAIL
SCALE: NONE
4



NOTE: SECURELY ATTACH WHEEL STOPS INTO AT-GRADE PAVEMENT WITH NOT LESS THAN TWO (2) GALVANIZED STEEL DOWELS EMBEDDED IN HOLES CAST INTO WHEEL STOPS. FIRMLY BOND EACH DOWEL TO WHEEL STOP AND TO PAVEMENT.

PRECAST CONCRETE WHEEL STOP
DETAIL
SCALE: NONE
5

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COUSHATTA TRIBE OF LOUISIANA

COUSHATTA TRIBE OF LOUISIANA

CTLA - EDUCATION BUILDING

1940 CC BEL ROAD
ELTON, LA 70532

Issue:	No:	Date:
BID SET		2025.12.05
BID ADDENDUM 5	5	2026.01.21
BID ADDENDUM 6	6	2026.01.23

MISC. DETAILS

STATE OF LOUISIANA
MASON MEREDITH
License No. 50170
PROFESSIONAL ENGINEER
IN
CIVIL ENGINEERING

ENGINEER
LIC#: 50170

Proj #: 24.0002607.000 Reviewed By:

C6.02

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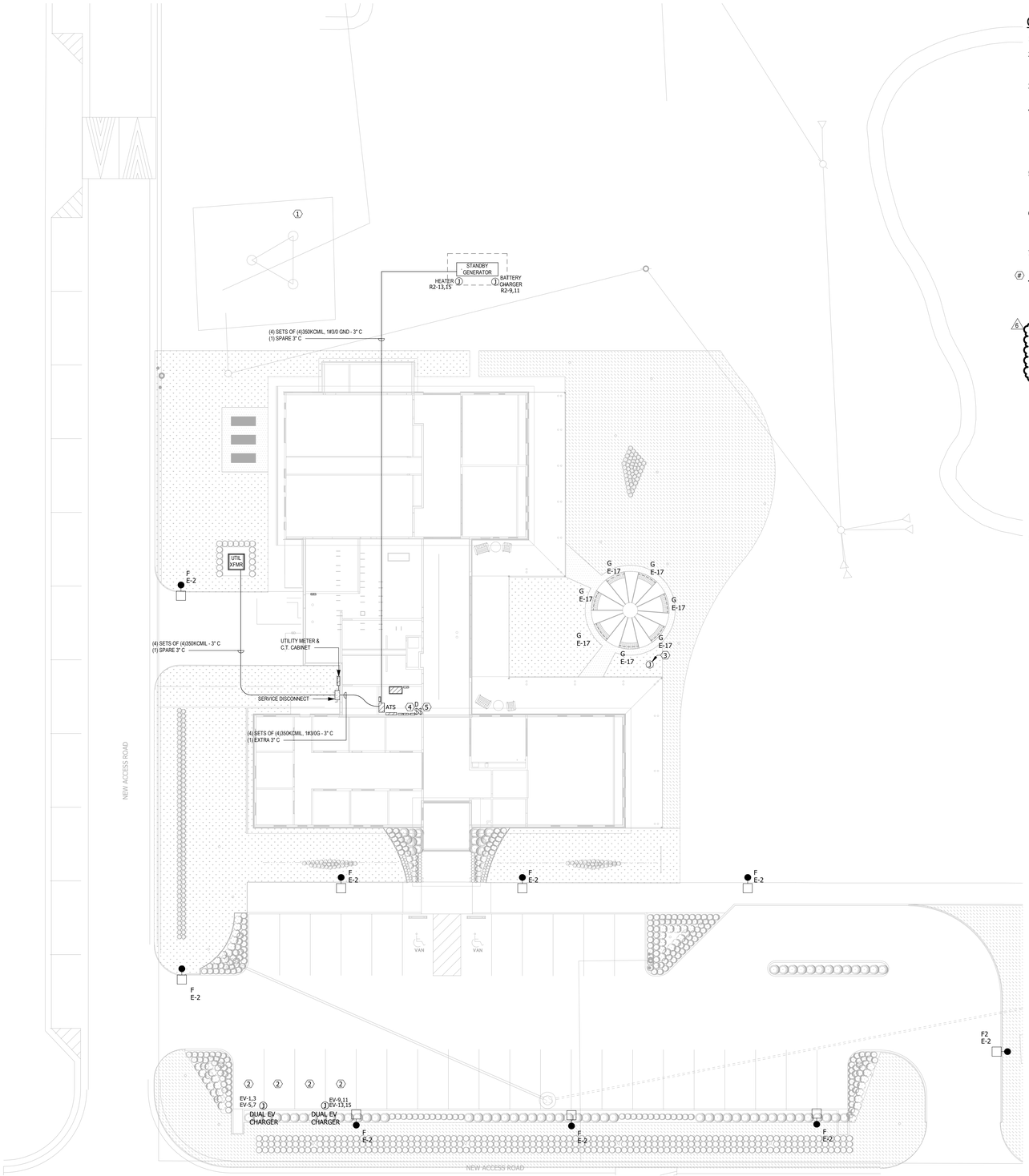
THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG IF PRINTED ORIGINAL PAGE SIZE

THE SQUARES ABOVE ARE SOLID WITH BLACK AND WHITE LETTERS, IF PRINTED CORRECTLY



1 E100 SITE PLAN - ELECTRICAL
1/16" = 1'-0"

GENERAL NOTES:

1. REFER TO DRAWING E800 FOR CONDUIT PENETRATION DETAILS.
2. ALL CONDUIT PENETRATIONS THROUGH EXTERIOR WALLS MUST BE SEALED, SLEEVED, AND PROPERLY SUPPORTED ON EACH SIDE OF THE WALL.
3. ALL OUTLET LOCATIONS SHOWN IN PLAN ARE APPROXIMATE. FINAL LOCATIONS TO BE DETERMINED IN FIELD WITH OWNER.
4. ACCESS TO AND CLEARANCES AROUND ELECTRICAL EQUIPMENT SHALL CONFORM TO THE REQUIREMENTS OF THE NEC. CONSULT ENGINEER WHERE SPACE APPEARS TO BE INADEQUATE DUE TO ARCHITECTURAL CHANGES, EQUIPMENT LAYOUT CHANGES, OR FIELD CONDITIONS. DO NOT COVER, OBSCURE, OR BLOCK ACCESS TO EQUIPMENT, DATA PLATES, ACCESS PANELS, OR MAINTENANCE AREAS WITH THE ELECTRICAL WORK.
5. THIS DRAWING SHOWS EQUIPMENT LOCATIONS ONLY. COORDINATE CONDUIT ROUTE IN FIELD WITH OTHER TRADES, EQUIPMENT, AND OWNER. VERIFY EXACT LOCATION AND MOUNTING HEIGHTS WITH OWNER & ARCHITECT PRIOR TO INSTALLATION.
6. COORDINATE EXACT LOCATION FOR UTILITY TRANSFORMER, METER, AND C.T. CABINET WITH UTILITY REQUIREMENTS PRIOR TO INSTALLATION. ENSURE UTILITY TRANSFORMER LOCATION HAS A MINIMUM 10'-0" SEPARATION FROM THE BUILDING EXTERIOR.
7. COORDINATE EXACT LOCATION FOR STANDBY GENERATOR WITH SITE REQUIREMENTS, ARCHITECT, AND OWNER.

(#) KEYNOTES:

1. EXISTING ANTENNA (APPROXIMATELY 100' TALL). INSTALL GROUND LOOP AROUND THE NEW BUILDING PER NEC. CONNECT NEW GROUND LOOP TO THE EXISTING GROUND LOOP PER NEC FOR THE EXISTING ANTENNA TOWER.
2. ELECTRIC VEHICLE CHARGING SPACES. PROVIDE (2) LEVEL 2 DUAL CHARGERS AS SHOWN ON PLAN. EV CHARGER BRAND AND MODEL TO BE CHARGEPOINT CP6021X-80A-L7. IN ADDITION TO POWER CONDUIT, PROVIDE (1) 1" DATA CONDUIT PER CHARGER. THIS WILL BE A UNIT PRICE ITEM: PROVIDE A COST PER LINEAR FOOT FOR TRENCHING AS WELL AS A UNIT PRICE FOR THE EV CHARGERS THEMSELVES. (6)
3. PROVIDE INGRADE DIRECT BURIAL JUNCTION BOX, QTL Q-VAULT-T-BK-LR, AND POWER SUPPLY, QTL Q-SET-eLED+0-10V-100W-UNV-24VDC-0-10V-N/A, OR EQUAL, FOR POWER AND CONTROL CONNECTION FOR FIXTURE TYPE "G". COORDINATE WITH LANDSCAPING FOR EXACT LOCATION. CONNECT TO EACH TYPE "G" LOCATION VIA UNDERGROUND WIRING AND CONDUIT AND STUB UP ALONG THE INSIDE EDGE OF ONE LEG OF EACH BENCH. PROVIDE PHOTOCELL AND TIMECLOCK FOR CONTROL OF TYPE "G". TYPE "G" LIGHTS TO COME ON AT ASTRONOMICAL SUNSET FOR THE LOCATION AND OFF AT MIDNIGHT. LOCATE PHOTOCELL ACCORDING TO MANUFACTURER'S INSTRUCTIONS. LOCATE TIMECLOCK WITHIN ELECTRICAL ROOM AND COORDINATION WITH OTHER EQUIPMENT IN THE SPACE FOR FINAL LOCATION. PROVIDE 0-10V DIMMING SWITCH FOR LIGHT LEVEL ADJUSTMENT ADJACENT TO TIMECLOCK. LABEL LIGHT SWITCH PLATE COVER "CIRCLE SEATING".
4. SWITCH TO SERVE AS MANUAL OVERRIDE FOR CIRCUIT E-17, SITE UNDERBENCH LINEAR LIGHT FIXTURES.
5. SWITCH TO SERVE AS MANUAL OVERRIDE FOR CIRCUIT E-2, SITE POLE LIGHT FIXTURES.

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COUSHATTA TRIBE OF LOUISIANA

COUSHATTA TRIBE OF LOUISIANA

COUSHATTA TRIBE - EDUCATION BUILDING

1950 CC BEL RD
ELTON, LA 70532

Issue:	No:	Date:
BID SET		2025.12.05
BID ADDENDUM 6	6	2026.01.23

SITE PLAN - ELECTRICAL

STATE OF LOUISIANA
JENNIFER N. FORNER
License No. 0048415
PROFESSIONAL ENGINEER
IN
ELECTRICAL ENGINEERING

01/23/2026

Proj #: 24.0002607.000 Reviewed By: JNF

E100

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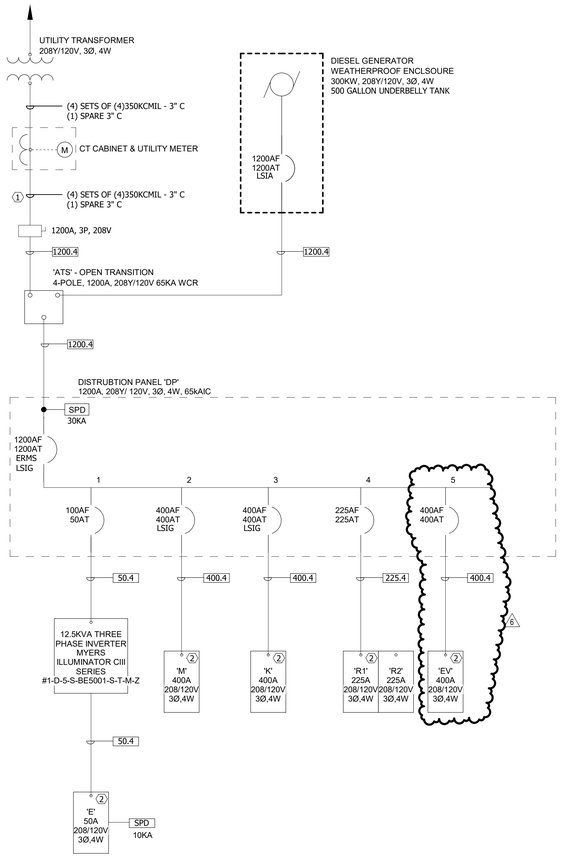
TRUE & PROJECT NORTH

1/23/2026 2:36:36 PM Autodesk Docs://Coushatta Education Building/24.0002607.080 Coushatta Education Building MEP_R24.rvt



2 E700 ONE-LINE RISER DIAGRAM
NOT TO SCALE

FEEDER SCHEDULE 600V MAX.

TAG	DESCRIPTION		TAG	DESCRIPTION
20.3	(3)#12, #12G - 3/4"C		300.3	(3)350KCMIL, #4G - 2 1/2"C
20.4	(4)#12, #12G - 3/4"C		300.4	(4)350KCMIL, #4G - 3"C
30.3	(3)#10, #10G - 3/4"C		400.3	(3)500KCMIL, #3G - 3"C
30.4	(3)#10, #10G - 3/4"C		400.4	(4)500KCMIL, #3G - 3"C
40.3	(3)#8, #10G - 3/4"C		400.5	(5)500KCMIL, #3G - 3 1/2"C (200% NEUTRAL)
40.4	(4)#8, #10G - 3/4"C		500.3	(2) SETS OF(3)250KCMIL, #2G - 2 1/2"C
50.3	(3)#6, #10G - 3/4"C		500.4	(2) SETS OF(4)250KCMIL, #2G - 2 1/2"C
50.4	(4)#6, #10G - 3/4"C		600.3	(2) SETS OF(3)350KCMIL, #1G - 2 1/2"C
60.3	(3)#4, #10G - 1"C		600.4	(2) SETS OF(4)350KCMIL, #1G - 3"C
60.4	(4)#4, #10G - 1 1/4"C		800.3	(2) SETS OF(3)500KCMIL, #1/0G - 3"C
70.3	(3)#4, #8G - 1"C		800.4	(2) SETS OF(4)500KCMIL, #1/0G - 3 1/2"C
70.4	(4)#4, #8G - 1 1/4"C		900.3	(2) SETS OF(3)350KCMIL, #2/0G - 2 1/2"C
80.3	(3)#3, #8G - 1 1/4"C		900.4	(2) SETS OF(4)350KCMIL, #2/0G - 3"C
80.4	(4)#3, #8G - 1 1/4"C		1000.3	(3) SETS OF(3)400KCMIL, #2/0G - 2 1/2"C
90.3	(3)#2, #8G - 1 1/4"C		1000.4	(3) SETS OF(4)400KCMIL, #2/0G - 3"C
90.4	(4)#2, #8G - 1 1/4"C		1200.3	(4) SETS OF(3)350KCMIL, #3/0G - 2 1/2"C
100.3	(3)#2, #8G - 1 1/4"C		1200.4	(4) SETS OF(4)350KCMIL, #3/0G - 3"C
100.4	(4)#2, #8G - 1 1/4"C		1600.3	(5) SETS OF(3)500KCMIL, #4/0G - 3"C
125.3	(3)#1, #6G - 1 1/4"C		1600.4	(5) SETS OF(4)500KCMIL, #4/0G - 3 1/2"C
125.4	(4)#1, #6G - 1 1/4"C		2000.3	(6) SETS OF(3)500KCMIL, (1)250KCMILG - 3"C
150.3	(3)#1/0, #6G - 1 1/2"C		2000.4	(6) SETS OF(4)500KCMIL, (1)250KCMILG - 3 1/2"C
150.4	(4)#1/0, #6G - 1 1/2"C		2500.3	(7) SETS OF(3)500KCMIL, (1)350KCMILG - 3"C
175.3	(3)#2/0, #6G - 2"C		2500.4	(7) SETS OF(4)500KCMIL, (1)350KCMILG - 3 1/2"C
175.4	(4)#2/0, #6G - 2"C		3000.3	(8) SETS OF(3)500KCMIL, (1)400KCMILG - 3"C
200.3	(3)#3/0, #6G - 2"C		3000.4	(8) SETS OF(4)500KCMIL, (1)400KCMILG - 3 1/2"C
200.4	(4)#3/0, #6G - 2"C		4000.3	(11) SETS OF(3)500KCMIL, (1)500KCMILG - 3"C
225.3	(3)#4/0, #4G - 2"C		4000.4	(11) SETS OF(4)500KCMIL, (1)500KCMILG - 3 1/2"C
225.4	(4)#4/0, #4G - 2"C		SE	XXX
250.3	(3)250KCMIL, #4G - 2 1/2"C		SCHED	SEE TRANSFORMER SCHEDULE
250.4	(4)250KCMIL, #4G - 2 1/2"C			

NOTE: THIS TABLE IS BASED ON TYPE THWN INSULATION, COPPER CONDUCTORS IN ELECTRICAL METALLIC TUBING. CONTRACTOR SHALL MAKE ADJUSTMENT BASED ON NEC REQUIRMENTS IF DIFFERENT MATERIALS ARE UTILIZED. MC CABLE IS NOT ALLOWED.

RISER DIAGRAM GENERAL NOTES:

1. ALUMINUM CONDUCTORS MAY BE SUBSTITUTED FOR COPPER CONDUCTORS FOR FEEDERS 125 AMPS & LARGER. ALUMINUM CONDUCTORS SHALL NOT BE USED WHERE EXPRESSLY FORBIDDEN BY LOCAL ELECTRICAL INSPECTIONS DEPARTMENT. UTILITY COMPANY OR THE PLAN REVIEW BOARD OF JURISDICTION. ELECTRICAL CONTRACTOR TO COORDINATE ALL CHANGES IN SIZE & QUANTITY OF PARALLEL CONDUITS FOR ANY/ALL ALUMINUM FEEDER CHANGES.
2. REFER TO DETAILS FOR SERVICE GROUNDING & BONDING.
3. ALL FLOOR-MOUNTED EQUIPMENT SHALL BE INSTALLED ON A 4" CONCRETE HOUSEKEEPING PAD, UNLESS OTHERWISE NOTED.
4. MAXIMUM DISTANCE THE SECONDARY CONDUCTORS CAN BE RUN PRIOR TO OVERCURRENT PROTECTION IS 10 FEET.
5. ALL CIRCUIT BREAKERS GREATER THAN 250A SHALL BE PROVIDED WITH ADJUSTABLE TRIP SETTINGS.
6. PROVIDE A SHORT CIRCUIT-STUDY, SELECTIVE COORDINATION STUDY AND ARC FLASH ANALYSIS FOR EACH ELECTRICAL SERVICE AND INFRASTRUCTURE. ADJUST TRIP SETTINGS ON CIRCUIT BREAKERS & MODIFY SHORT CIRCUIT RATINGS OF ELECTRICAL EQUIPMENT PER THE RESULTS. OVERCURRENT PROTECTIVE DEVICES SHALL BE SELECTIVELY COORDINATED FOR DISTRIBUTION SYSTEMS SERVING EMERGENCY AND STANDBY LOADS, AS WELL AS THOSE SERVING MULTIPLE ELEVATORS, FOR FAULTS WITH DURATIONS AT 0.01 SECONDS. ALL OTHER LOADS SHALL BE COORDINATED TO 0.1 SECONDS.
7. COORDINATE REQUIREMENTS OF NEC ARTICLE 240.87 WITH OVER CURRENT DEVICES INSTALLED IN CIRCUIT BREAKERS RATED OR ADJUSTABLE AT 1200A AND HIGHER.
8. COORDINATE REQUIREMENTS OF NEC ARTICLE 230.95. GROUND FAULT PROTECTION OF EQUIPMENT SHALL BE PROVIDED FOR SOLIDLY GROUNDED WYE ELECTRIC SERVICES OF MORE THAN 150 VOLTS TO GROUND BUT NOT EXCEEDING 1000 VOLTS PHASE-TO-PHASE FOR EACH SERVICE DISCONNECT RATED 1000 AMPERES OR MORE.
9. REFER TO PANEL SCHEDULES ON SHEETS E900 FOR ADDITIONAL INFORMATION.

KEYED NOTES:

1. ALL INCOMING UTILITY FEEDERS SHALL BE ROUTED OUTSIDE THE BUILDING OR ENCASED IN CONCRETE TO PROVIDE 2 HOUR PROTECTION. FINAL ROUTING TO BE DETERMINED DURING THE BIM COORDINATION PROCESS. COORDINATE WITH OTHER TRADES PRIOR TO COMMENCING WORK.
2. PROVIDE METER AT PANEL FOR ENERGY SUB-METERING REQUIRED IN ACCORDANCE WITH TABLE C405.12.2 AS FOUND IN THE 2021 INTERNATIONAL ENERGY CONSERVATION CODE. SYSTEM METERING SHALL COMPLY WITH C405.12.3, C405.12.4, AND C405.12.5.

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COUSHATTA TRIBE - EDUCATION BUILDING

1950 CC BEL RD
ELTON, LA 70532

Issue:	No:	Date:
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BID ADDENDUM 6	6	2026.01.23

ONE-LINE RISER DIAGRAM

STATE OF LOUISIANA
JENNIFER N. FORNER
License No. 0048415
PROFESSIONAL ENGINEER
IN
ELECTRICAL ENGINEERING
01/23/2026

Proj #: 24.0002607.000 Reviewed By: JNF

E700

NOT RELEASED FOR CONSTRUCTION

Panelboard: R1

Panel ID:
Location: ELECTRICAL 17
Supply: DP
Mounting: Surface
Enclosure: NEMA 1

Voltage: 208 V, 3Ø, 4W
Bus Rating: 225 A
Neutral: 100%
Feed-Thru Lugs: Yes
Features & Modifications: -

Mains Type: MLO
Mains Rating: 225 A
Mains FN/Note: -
SCCR: 25 kA

Ckt	Description	Trip (A)	Poles	FN/Note	Phase A Load (VA)		Phase B Load (VA)		Phase C Load (VA)		FN/Note	Poles	Trip (A)	Description	Ckt
1	DOOR OPENERS - 1-VESTIBULE	20	1		480	1080						1	20	MOTORIZED SHADES - 15-COMP LAB	2
3	DEDICATED QUAD - 14-STUDIO	20	1				360	720				1	20	MOTOR SHADES - 28/29-CLASSROOM	4
5	DEDICATED QUAD - 14-STUDIO	20	1						360	1920		1	20	MICROWAVE - 16-BREAK ROOM	6
7	MAINTENANCE RECEPTS - ROOF	20	1		540	1200						1	20	RECEPTS - 15-COMPUTER LAB	8
9	RECEPTS - 4-ADMIN	20	1				900	500			G	1	20	FRIDGE - 16-CAFE	10
11	RECEPTS - 5/6-OFFICES	20	1						1080	1000		1	20	COUNTER RECEPT - 16-CAFE	12
13	RECEPTS - 7/8-OFFICES	20	1		1080	1000						1	20	COUNTER RECEPT - 16-CAFE	14
15	RECEPTS - 9/10-OFFICES	20	1				1080	540				1	20	RECEPTS - 17/18-MEP/ELECTRICAL	16
17	RECEPTS - 11/12-OFFICES	20	1						900	500		1	20	TELECOM/IT - 17-ELECTRICAL	18
19	COPIER - 11-SCHOOL SUPPLIES ROOM	20	2		1000	500						1	20	FACP - 17-ELECTRICAL	20
21							1000	720				1	20	RECEPTS - 20/21/22-JANITOR/RR	22
23	RECEPTS - EXTERIOR WEST	20	1						720	900		1	20	RECEPT - 23/25-KITCHEN/HALL	24
25	RECEPTS - EXTERIOR SOUTHEAST	20	1		900	900						1	20	RECEPTS - 27-CRAFT ROOM	26
27	RECEPTS - EXTERIOR NORTHEAST	20	1				1080	720				1	20	RECEPTS - 26-ACTIVITY ROOM	28
29	COMPUTERS - 15-COMPUTER LAB	20	1						500	720		1	20	RECEPTS - 28/32-CLASS/STORAGE	30
31	COMPUTERS - 15-COMPUTER LAB	20	1		500	1080						1	20	RECEPTS - 29/30/31-CLASS/STORAGE	32
33	COMPUTERS - 15-COMPUTER LAB	20	1				500	500				1	20	AV EQUIPMENT - 31-AV CLOSET	34
35	COMPUTERS - 15-COMPUTER LAB	20	1						500	1000		1	20	AV EQUIPMENT - 31-AV CLOSET	36
37	RECEPTS - 14/15-STUDY/COMP LAB	20	1		900	1920						1	20	OPERABLE PARTITION - 28/29-CLASS	38
39	PROJECTOR - 15-COMPUTER LAB	20	1				500	500				1	20	PODIUM - 28-CLASSROOM	40
41	PROJ SCREEN - 15/COMP LAB	20	1						500	500		1	20	PODIUM - 29-CLASSROOM	42
				Connected Load:	18 kVA		14 kVA		17 kVA		(Includes load connected via feed-thru lugs.)				
				Connected Current:	153 A		118 A		141 A						

Load Classification	Connected	Factor	Demand
Motor	6827 VA	107.03%	7307 VA
Receptacle - General	15500 VA	82.26%	12750 VA
Receptacle - Dedicated	19500 VA	100.00%	19500 VA
Electric Heat	4000 VA	100.00%	4000 VA
Power	2800 VA	100.00%	2800 VA

Panel Totals	
Connected Load:	49 kVA
Connected Current:	135 A
Demand Load:	46 kVA
Demand Current:	129 A

Notes:

Panelboard: R2

Location: ELECTRICAL 17
Supply: R1
Mounting: Surface
Enclosure: NEMA 1

Voltage: 208 V, 3Ø, 4W
Bus Rating: 225 A
Neutral: 100%
Feed-Thru Lugs: No
Features & Modifications: -

Mains Type: MLO
Mains Rating: 225 A
Mains FN/Note: -
SCCR: 25 kA

Ckt	Description	Trip (A)	Poles	FN/Note	Phase A Load (VA)		Phase B Load (VA)		Phase C Load (VA)		FN/Note	Poles	Trip (A)	Description	Ckt
1	PROJECTOR - 28-CLASS	20	1		500										2
3	PROJECTOR SCREEN - 28-CLASS	20	1				500								4
5	PROJECTOR - 29-CLASS	20	1						500						6
7	PROJECTOR SCREEN - 29-CLASS	20	1		500										8
9	GENERATOR BATTERY CHARGER	20	2				400	0				1	20	Spare	10
11									400	0		1	20	Spare	12
13	GENERATOR BLOCK HEATER	25	2		2000	0						1	20	Spare	14
15							2000	0				1	20	Spare	16
17	MICROWAVE - 16-BREAKROOM	20	1						1920	0		1	20	Spare	18
19	DISHWASHER - 16-BREAKROOM	20	1		1400	0						1	20	Spare	20
21	ICE MAKER - 16-BREAKROOM	20	1				500	0				1	20	Spare	22
23	COFFEE - 16-BREAKROOM	20	1						1920	0		1	20	Spare	24
25	WATER FOUNTAIN - 19-HALLWAY	20	1		500	0						1	20	Spare	26
27	MTR COUNTER DOOR - 23-KITCHEN	20	1				1127	0				1	20	Spare	28
29	RECEPT + TV - 3-ED ASSISTANCE	20	1						660	0		1	20	Spare	30
31						0						1	20	Spare	32
33								0				1	20	Spare	34
35										0		1	20	Spare	36
37						0						1	20	Spare	38
39								0				1	20	Spare	40
41										0		1	20	Spare	42
				Connected Load:	5 kVA		5 kVA		5 kVA						
				Connected Current:	41 A		38 A		45 A						

Load Classification	Connected	Factor	Demand
Motor	2127 VA	113.25%	2409 VA
Receptacle - General	360 VA	100.00%	360 VA
Receptacle - Dedicated	6540 VA	100.00%	6540 VA
Electric Heat	4000 VA	100.00%	4000 VA
Power	1800 VA	100.00%	1800 VA

Panel Totals	
Connected Load:	15 kVA
Connected Current:	41 A
Demand Load:	15 kVA
Demand Current:	42 A

Notes:

ELECTRICAL DEVICES POWERING MECHANICAL/PLUMBING EQUIPMENT

EQUIPMENT	PANEL	CIRCUIT	LOAD	VOLT	PHASE	FLA	MCA	MOCP	CONNECTION DEVICE	FRAME SIZE	PHASE CONDUCTORS	GROUND CONDUCTOR	CONDUIT SIZE
CU/HP-01	M	1,3	3510 VA	208 V	1	16.9	21.2	30	NON-FUSED DISCONNECT	30	2 #10	1 #10	3/4"
CU/HP-02	M	5,7	2330 VA	208 V	1	11.2	14	20	NON-FUSED DISCONNECT	30	2 #12	1 #12	3/4"
CU/HP-03	M	9,11	3510 VA	208 V	1	16.9	21.2	30	NON-FUSED DISCONNECT	30	2 #10	1 #10	3/4"
CU/HP-04	M	13,15	1690 VA	208 V	1	8.2	10.3	15	NON-FUSED DISCONNECT	30	2 #12	1 #12	3/4"
CU/HP-05	M	17,19	3510 VA	208 V	1	16.9	21.2	30	NON-FUSED DISCONNECT	30	2 #10	1 #10	3/4"
CU/HP-06	M	21,23	3162 VA	208 V	1	15.3	19.1	25	NON-FUSED DISCONNECT	30	2 #12	1 #10	3/4"
CU/HP-07	M	25,27	4160 VA	208 V	1	20	25	30	NON-FUSED DISCONNECT	30	2 #10	1 #10	3/4"
CU/HP-08	M	29,31	3510 VA	208 V	1	16.9	21.2	30	NON-FUSED DISCONNECT	30	2 #10	1 #10	3/4"
CU/HP-09	M	33,35	2829 VA	208 V	1	13.6	17	30	NON-FUSED DISCONNECT	30	2 #12	1 #10	3/4"
CU/HP-10	M	37,39	2330 VA	208 V	1	11.2	14	20	NON-FUSED DISCONNECT	30	2 #12	1 #12	3/4"
CU/HP-11	M	2,4	2330 VA	208 V	1	11.2	14	20	NON-FUSED DISCONNECT	30	2 #12	1 #12	3/4"
CU/HP-12	M	6,8	3162 VA	208 V	1	15.3	19.1	25	NON-FUSED DISCONNECT	30	2 #12	1 #10	3/4"
DCP-1	M	20	28 VA	120 V	1	0.3	0.4	20	MOTOR SWITCH	30	2 #12	1 #12	3/4"
EF-01	'K'	31,33,35	2340 VA	208 V	3	6.5	8.2	20	NON-FUSED DISCONNECT	30	3 #12	1 #12	3/4"
EF-02	M	24	120 VA	120 V	1	1	1.25	20	MOTOR SWITCH	30	2 #12	1 #12	3/4"
ERV-01	M	10,12	583 VA	208 V	1	2.8	3.5	15	NON-FUSED DISCONNECT	30	2 #12	1 #12	3/4"
EUH-01	M	41	1000 VA	120 V	1	8.3	10.4	20	INTEGRAL DISCONNECT	30	2 #12	1 #12	3/4"
EUH-02	M	26	500 VA	120 V	1	4.2	5.2	20	INTEGRAL DISCONNECT	30	2 #12	1 #12	3/4"
KCU-01	'K'	1,3,5	10368 VA	208 V	3	28.8	35	35	NON-FUSED DISCONNECT	60	3 #8	1 #10	3/4"
KCU-02	'K'	11,13,15	5400 VA	208 V	3	15	18.8	20	NON-FUSED DISCONNECT	30	3 #12	1 #12	3/4"
KEF-01	'K'	25,27,29	2700 VA	208 V	3	7.5	9.4	20	NON-FUSED DISCONNECT	30	3 #12	1 #12	3/4"
MUA-01	M	14,16,18	67000 VA	208 V	3	186.1	195	200	NON-FUSED DISCONNECT	200	3 #3/0	1 #6	2"
WCU/WHP-01	M	28,30	1997 VA	208 V	1	9.6	12	20	NON-FUSED DISCONNECT	30	2 #12	1 #12	3/4"
WCU/WHP-02	M	32,34	1997 VA	208 V	1	9.6	12	20	NON-FUSED DISCONNECT	30	2 #12	1 #12	3/4"
WH-1	M	22	408 VA	120 V	1	3.4	4.3	20	INTEGRAL DISCONNECT	30	2 #12	1 #12	3/4"

BRANCH CIRCUIT SCHEDULE

OCP	CIRCUIT	DISTANCE		OCP	CIRCUIT	DISTANCE
20/1	(2)#12, #12G - 3/4"C	55		70/1	(2)#4, #8G - 1"C	126
20/2	(2)#12, #12G - 3/4"C	97		70/2	(2)#4, #8G - 1"C	173
20/2N	(3)#12, #12G - 3/4"C	97		70/2N	(3)#4, #8G - 1"C	173
20/3	(3)#12, #12G - 3/4"C	112		70/3	(3)#4, #8G - 1"C	253
20/3N	(4)#12, #12G - 3/4"C	112		70/3N	(4)#4, #8G - 1 1/4"C	253
30/1	(2)#10, #10G - 3/4"C	59		80/1	(2)#4, #8G - 1"C	139
30/2	(2)#10, #10G - 3/4"C	64		80/2	(2)#4, #8G - 1"C	191
30/2N	(3)#10, #10G - 3/4"C	64		80/2N	(3)#4, #8G - 1"C	191
30/3	(3)#10, #10G - 3/4"C	119		80/3	(3)#4, #8G - 1"C	280
30/3N	(4)#10, #10G - 3/4"C	119		80/3N	(4)#4, #8G - 1 1/4"C	280
40/1	(2)#8, #10G - 3/4"C	71		90/1	(2)#3, #8G - 1 1/4"C	156
40/2	(2)#8, #10G - 3/4"C	77		90/2	(2)#3, #8G - 1 1/4"C	215
40/2N	(3)#8, #10G - 3/4"C	77		90/2N	(3)#3, #8G - 1 1/4"C	215
40/3	(3)#8, #10G - 3/4"C	143		90/3	(3)#3, #8G - 1 1/4"C	312
40/3N	(4)#8, #10G -1"C	143		90/3N	(4)#3, #8G - 1 1/4"C	312
50/1	(2)#8, #10G - 3/4"C	88		100/1	(2)#3, #8G - 1 1/4"C	177
50/2	(2)#8, #10G - 3/4"C	99		100/2	(2)#3, #8G - 1 1/4"C	243
50/2N	(3)#8, #10G - 3/4"C	99		100/2N	(3)#3, #8G - 1 1/4"C	243
50/3	(3)#8, #10G - 3/4"C	176		100/3	(3)#3, #8G - 1 1/4"C	354
50/3N	(4)#8, #10G - 1"C	176		100/3N	(4)#3, #8G - 1 1/4"C	354
60/1	(2)#6, #10G - 3/4"C	116				
60/2	(2)#6, #10G - 3/4"C	127				
60/2N	(3)#6, #10G - 1"C	127				
60/3	(3)#6, #10G - 1"C	233				
60/3N	(4)#6, #10G - 1"C	233				

BREAKER FUNCTION SCHEDULE

#	FOR ANY NUMBER, SEE PANEL SCHEDULE FOOTER NOTE
A	ARC-FAULT INTERRUPTER (AFCI) PROTECTION
AR	ARC ENERGY REDUCTION MAINTENANCE SWITCH
D	DEMOLISHED CIRCUIT (NOW SPARE OR SPACE) {FORMER CIRCUIT IN BRACKETS}
E	EXISTING-TO-REMAIN CIRCUIT
EM	PROVIDE IDENTIFICATION PER NEC 700.12(I)(2)(4)
G	GROUND-FAULT CIRCUIT INTERRUPTER (GFCI) PROTECTION (5 MA)
GE	GROUND-FAULT PROTECTION FOR EQUIPMENT (30 MA)
GF	ADJUSTABLE GROUND-FAULT PROTECTION FOR EQUIPMENT
H	BREAKER HASP TO PREVENT UNINTENTIONAL OPENING
L	LOCKABLE OPEN ACCORDING TO NEC 110.25
LSI	LONG-TIME, SHORT-TIME, INSTANTANEOUS ADJUSTMENT
LSIG	LONG-TIME, SHORT-TIME, INSTANTANEOUS AND GROUND-FAULT ADJUSTMENTS
N	NEW CIRCUIT (IN EXISTING PANEL, PREVIOUSLY SPARE OR SPACE)
NB	NEW BREAKER TO REPLACE EXISTING BREAKER OR SPACE (NEW TRIP RATING SHOWN)
NR	NEW CIRCUIT TO REPLACE EXISTING CIRCUIT {FORMER CIRCUIT IN BRACKETS}
R	RELOCATED CIRCUIT
S	SWITCH-RATED PER NEC 240.83(D)

NOTES:
1. ALL BRANCH CIRCUITS ARE COPPER.
2. VOLTAGE DROP IS BASED ON 3% FOR BRANCH CIRCUITS.
3. FOR OCPS NOT LISTED, USE NEXT LARGER SIZE.
4. 'N' DENOTES A NEUTRAL LINE.
5. ALL DISTANCES ARE CALCULATED AT 120/208V. FOR 277/480V, DOUBLE VALUES FOR AN ESTIMATED DISTANCE.

Panelboard: M

Location: ELECTRICAL 17
Supply: DP
Mounting: Surface
Enclosure: NEMA 1

Voltage: 208 V, 3Ø, 4W
Bus Rating: 400 A
Neutral: 100%
Feed-Thru Lugs: No
Features & Modifications: -

Mains Type: MLO
Mains Rating: 400 A
Mains FN/Note: -
SCCR: 25 kA

Ckt	Description	Trip (A)	Poles	FN/Note	Phase A Load (VA)		Phase B Load (VA)		Phase C Load (VA)		FN/Note	Poles	Trip (A)	Description	Ckt
1	CU/HP-01	30	2		1755	1165						2	20	CU/HP-11	2
3							1755	1165							4
5	CU/HP-02	20	2						1165	1581		2	25	CU/HP-12	6
7					1165	1581									8
9	CU/HP-03	30	2				1755	292				2	15	ERV-01	10
11									1755	292					12
13	CU/HP-04	15	2		845	22333						3	200	MUA-01	14
15							845	22333							16
17	CU/HP-05	30	2						1755	22333					18
19					1755	28						1	20	DCP-01	20
21	CU/HP-06	25	2				1581	408				1	20	WH-1 IGNITER	22
23									1581	120		1	20	EF-02	24
25	CU/HP-07	30	2		2080	500					L	1	20	EUH-02	26
27							2080	999				2	20	WCU/WHP-01	28
29	CU/HP-08	30	2						1755	999					30
31					1755	999						2	20	WCU/WHP-02	32
33	CU/HP-09	30	2				1415	999							34
35									1415						36
37	CU-/HP-10	20	2		1165										38
39							1165								40
41	EUH-01	20	1	L					1000						42
				Connected Load:	37 kVA		37 kVA		36 kVA						
				Connected Current:	311 A		308 A		298 A						

Load Classification	Connected	Factor	Demand
Motor	148 VA	120.27%	178 VA
Receptacle - Dedicated	408 VA	100.00%	408 VA
HVAC	109110 VA	100.00%	109110 VA

Panel Totals	
Connected Load:	110 kVA
Connected Current:	304 A
Demand Load:	110 kVA
Demand Current:	304 A

Notes:

Panelboard: 'K'

Location: KITCHEN 23
Supply: DP
Mounting: Surface
Enclosure: NEMA 4X

Voltage: 208 V, 3Ø, 4W
Bus Rating: 400 A
Neutral: 100%
Feed-Thru Lugs: No
Features & Modifications: -

Mains Type: MCB
Mains Rating: 400 A
Mains FN/Note:
SCCR: 25 kA

Ckt	Description	Trip (A)	Poles	FN/Note	A		B		C		FN/Note	Poles	Trip (A)	Description	Ckt
1	KE1 - FREEZER CONDENSING UNIT (KCU-01)	35	3		3456	--						1	--	SHUNT TRIP	2
3							3456	408			G	1	20	KE13.1 - GAS RANGE	4
5									3456	--		1	--	SHUNT TRIP	6
7	KE1.1 - FREEZER COILS, FANS, AND DEROST HEATER	20	2		1051	3600						3	35	KE14 - ELECTRIC COMBI-OVEN - LOWER	8
9							1051	3600							10
11	KE1.2 - COOLER CONDENSING UNIT (KCU-02)	20	3						1800	3600					12
13					1800	--						1	--	SHUNT TRIP	14
15							1800	3600				3	35	KE14.1 - ELECTRIC COMBI-OVEN - UPPER	16
17	KE1.3 - COOLER COILS AND FANS	20	1						108	3600					18
19	KE1.4 - LIGHTS, DOOR, PVT HTRS	20	1		1800	3600									20
21	KE7 - UNDERCOUNTER WAREWASHER	40	2	G			3536	2400			G	1	20	KE15 - WORK TABLE FLOOR POWER	22
23									3536	2400	G	1	20	KE15.1 - WORK TABLE FLOOR POWER	24
25	KE10 - EXHAUST FAN (KEF-01)	20	3		900	936					G	1	20	KE18 - COLD FOOD COUNTER	26
27							900	1259			G	2	20	KE19 - HOT FOOD COUNTER	28
29									900	1259					30
31	KE10.1 - SUPPLY FAN (EF-01)	20	3		780	2196					G	1	25	KE20 - HEAT/HUMIDITY CABINET	32
33							780	456			G	1	20	KE21 - REACH IN FRIDGE	34
35									780	780	G	1	20	KE22 - REACH IN FREEZER	36
37	KE10.2 - HOOD LIGHTS/CONTROLS	20	1		2400	1155						2	20	KE23 - ICE MAKER	38
39	SHUNT TRIP	--	1				--	1155							40
41	KE11 - ELECTRIC DEEP FRYER	50	3	G					4667	1920		1	20	CONVENIENCE RECEPTACLE	42
43					4667	1920						1	20	CONVENIENCE RECEPTACLE	44
45							4667	1920				1	20	CONVENIENCE RECEPTACLE	46
47	SHUNT TRIP	--	1						--	1920		1	20	CONVENIENCE RECEPTACLE	48
49	KE11.1 - ELECTRIC DEEP FRYER	50	3	G	4667	--						1	--	SHUNT TRIP	50
51							4667	1920				1	20	CONVENIENCE RECEPTACLE	52
53									4667						54
55	SHUNT TRIP	--	1		--										56
57	KE13 - GAS RANGE	20	1	G			408								58
59															60
				Connected Load:	35 kVA		38 kVA		35 kVA						
				Connected Current:	291 A		317 A		296 A						

Load Classification	Connected	Factor	Demand
Motor	5040 VA	113.39%	5715 VA
Receptacle - General	9600 VA	100.00%	9600 VA
Kitchen Equipment	86459 VA	65.00%	56198 VA
Power	7200 VA	100.00%	7200 VA

Panel Totals	
Connected Load:	108 kVA
Connected Current:	301 A
Demand Load:	79 kVA
Demand Current:	218 A

Notes:

Panelboard: DP

Location: ELECTRICAL 17
Supply:
Mounting: Surface
Enclosure: NEMA 1

Voltage: 208 V, 3Ø, 4W
Bus Rating: 1200 A
Neutral: 100%
Feed-Thru Lugs: No
Features & Modifications: -

Mains Type: MCB
Mains Rating: 1200 A
Mains FN/Note: -
SCCR: 65 kA

Ckt	Description	Trip (A)	Poles	FN/Note	Phase A Load (VA)		Phase B Load (VA)		Phase C Load (VA)		FN/Note	Poles	Trip (A)	Description	Ckt
1	'E'	60	3		3759										2
3							2255								4
5									2018						6
7	'M'	400	3		37126										8
9							36790								10
11									35750						12
13	'K'	400	3		34926										14
15							37981								16
17									35392						18
19	'R1'	225	3		17980										20
21							14147								22
23									16500						24
25	'EV'	400	3		24960										26
27							24960								28
29									16640						30
			6	Connected Load:	119 kVA		116 kVA		106 kVA						
				Connected Current:	1002 A		980 A		886 A						

Load Classification	Connected	Factor	Demand
Motor	12015 VA	105.62%	12690 VA
Lighting - Interior	7258 VA	125.00%	9073 VA
Receptacle - General	25100 VA	69.92%	17550 VA
Receptacle - Dedicated	19908 VA	100.00%	19908 VA
HVAC	109110 VA	100.00%	109110 VA
Electric Heat	4000 VA	100.00%	4000 VA
Kitchen Equipment	86459 VA	65.00%	56198 VA
EV Charger	66560 VA	125.00%	83200 VA
Power	10000 VA	100.00%	10000 VA
Lighting	774 VA	100.00%	774 VA

Panel Totals	
Connected Load:	341 kVA
Connected Current:	947 A
Demand Load:	323 kVA
Demand Current:	895 A

Notes:

Panelboard: E

Location: ELECTRICAL 17
Supply: DP
Mounting: Surface
Enclosure: NEMA 1

Voltage: 208 V, 3Ø, 4W
Bus Rating: 100 A
Neutral: 100%
Feed-Thru Lugs: No
Features & Modifications: -

Mains Type: MLO
Mains Rating: 50 A
Mains FN/Note: -
SCCR: 25 kA

Ckt	Description	Trip (A)	Poles	FN/Note	Phase A Load (VA)		Phase B Load (VA)		Phase C Load (VA)		FN/Note	Poles	Trip (A)	Description	Ckt
1	LIGHTING - OFFICE AREA	20	1		1179	774					1	1	20	LIGHTING - PARKING LOT	2
3	LIGHTING - CORRIDOR GENERAL	20	1				751	0				1	20	Spare	4
5	LIGHTING - EXTERIOR	20	1	1					528	0		1	20	Spare	6
7	LIGHTING - KITCHEN, RESTROOMS	20	1		1097	0						1	20	Spare	8
9	LIGHTING - COMPUTER LAB AREA	20	1				904	0				1	20	Spare	10
11	LIGHTING - CLASSROOMS	20	1						1418						12
13	LIGHTING - CRAFT/ACTIVITY ROOM	20	1		709										14
15	LIGHTING - CORRIDOR TRACK	20	1				600								16
17	LIGHTING - EXT CIRCLE SEATING	20	1	1					72						18
				Connected Load:	4 kVA		2 kVA		2 kVA						
				Connected Current:	32 A		19 A		17 A						

Load Classification	Connected	Factor	Demand
Lighting - Interior	7258 VA	125.00%	9073 VA
Lighting	774 VA	100.00%	774 VA

Panel Totals	
Connected Load:	8 kVA
Connected Current:	22 A
Demand Load:	10 kVA
Demand Current:	27 A

Notes: 1) CONTROL CIRCUIT VIA PHOTOCELL AND TIMECLOCK, WHICH OPERATE ON A DAWN/DUSK CYCLE. MANUAL OVERRIDE FOR THIS CIRCUIT LOCATED IN ELECTRICAL ROOM.

Panelboard: EV

Location: ELECTRICAL 17
Supply: DP
Mounting: Surface
Enclosure: NEMA 1

6

Voltage: 208 V, 3Ø, 4W
Bus Rating: 400 A
Neutral: 100%
Feed-Thru Lugs: No
Features & Modifications: -

Mains Type: MLO
Mains Rating: 400 A
Mains FN/Note: -
SCCR: 25 kA

Ckt	Description	Trip (A)	Poles	FN/Note	Phase A Load (VA)		Phase B Load (VA)		Phase C Load (VA)		FN/Note	Poles	Trip (A)	Description	Ckt
1	EV CHARGER	100	2		8320										2
3							8320								4
5	EV CHARGER	100	2						8320						6
7					8320										8
9	EV CHARGER	100	2				8320								10
11									8320						12
13	EV CHARGER	100	2		8320										14
15							8320								16
17															18
		6		Connected Load:	25 kVA		25 kVA		17 kVA						
				Connected Current:	219 A		219 A		139 A						

Load Classification	Connected	Factor	Demand
EV Charger	66560 VA	125.00%	83200 VA

Panel Totals	
Connected Load:	67 kVA
Connected Current:	185 A
Demand Load:	83 kVA
Demand Current:	231 A

Notes:

LIGHTING FIXTURE SCHEDULE

TAG	MANUFACTURER	MODEL NUMBER	DESCRIPTION	LAMP	CCT	MOUNTING	CONTROL	VOLTAGE	WATTS	WFT
A	LITHONIA	STAK-2X4-5000LM-80CRI-35K-COL-MIN10-ZT-120	2X4 LED TROFFER	Integral LED	3500 K	LAY-IN	LED DRIVER, 0-10V DIMMING, 10%	120 V	42 W	
A1	LITHONIA	CPX 2X4 5000LM 80 35K SWL MVOLT	2X4 LED TROFFER, KITCHEN	Integral LED	3500 K	LAY-IN	LED DRIVER, 0-10V DIMMING, 10%	120 V	40 W	
B	LEDRA	NU6-RD-SW-25LM-35K-80-HE60-TRIM-BEZEL-NC-120-DIM10	6" RECESSED DOWNLIGHT	Integral LED	3500 K	RECESSED	LED DRIVER, 0-10V DIMMING, 1%	120 V	20 W	
B1	LEDRA	NU6-RD-SW-20LM-30K-80-HE60-TRIM-BEZEL-NC-120-DIM10	6" DOWNLIGHT - EXTERIOR	Integral LED	3000 K	RECESSED	LED DRIVER, 0-10V DIMMING, 1%	120 V	16 W	
B2	3G LIGHTING	3G-PDL33RF-11H-20-H95-35K-60D-UNV-DIM-FINISH-CN-CABLE-CXX-SF	3" DOWNLIGHT CYLINDER 11" HEIGHT	Integral LED	3500 K	PENDANT	LED DRIVER, 0-10V DIMMING, 1%	120 V	19 W	
C	LITHONIA	ZL1N L48 3000LM FST MVOLT 40K 80CRI	4' STRIP	Integral LED	4000 K	SUSPENDED	LED DRIVER	120 V	25 W	
D	LITHONIA	WDGE2LED-P2-30K-90CRI-VFX-MVOLT-SRM	WALL PACK	Integral LED	3000 K	SURFACE WALL HORIZONTAL	LED DRIVER	120 V	10 W	
E	LEDRA	LX-PRO-SW-15LM-30K-90-50D-DL-BK-MTG-PENDANT-120-DIM10	TRACK LIGHTING WITH HEADS	Integral LED	3500 K	CEILING SURFACE	LED DRIVER, 0-10V DIMMING, 1%	120 V	540 W	68 W
F	STRUCTURA	LINW-M4400-L30-4-C-UNV-ST-MS/L3-STD-ST-16-X-X-XXX-A16-STD	POLE MOUNTED FULL CUTOFF AREA LIGHT	Integral LED	3000 K	POLE	LED DRIVER, 0-10V DIMMING, 10%	120 V	86 W	
F2	STRUCTURA	LINW-M4400-L30-2-C-UNV-ST-MS/L3-STD-ST-16-X-X-XXX-A16-STD	POLE MOUNTED FULL CUTOFF AREA LIGHT	Integral LED	3000 K	POLE	LED DRIVER, 0-10V DIMMING, 10%	120 V	86 W	
G	QTL	KURV-BK-SW-BN-SB-BK-16'-WET-30-1.5-ENC/TL-XX-XX-BK-XX-O	EXTERIOR FLEXIBLE LINEAR STRIP	Integral LED	3000 K	SURFACE	LED DRIVER, 0-10V	120 V	<varies>	2 W
H	LUMENWERX	V3PERS-XX-SW-XXCRI-XXXLMF-35K-LENGTH-120V	LINEAR WALL WASH	Integral LED	3500 K	WALL	LED DRIVER, 0-10V 1% DIMMABLE	120 V	<varies>	6 W
X1	LITHONIA	EDGR 1 RMR	EXIT SIGN, EDGE-LIT, 1-SIDED, MIRRORED BACKING	Integral LED	0 K	CEILING	--	120 V	5 W	
X2	LITHONIA	EDGR 2 RMR	EXIT SIGN, EDGE-LIT, 2-SIDED, MIRRORED BACKING	Integral LED	0 K	CEILING	--	120 V	5 W	

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LUMINAIRE SELECTION, LAYOUT, CALCULATIONS, AND DESIGN BY OTHERS (EXCEPT FOR SITE LIGHTING FIXTURES F, F2, AND G. LUMINAIRES SHOWN ON THIS SHEET ARE FOR COORDINATION PURPOSES, CIRCUITING, AND CONTROL. THE ENGINEER OF RECORD (EOR) STAMPING AND SIGNING THIS DOCUMENT WAS NOT RESPONSIBLE FOR THE LIGHTING DESIGN CONTAINED WITHIN THIS SET OF DOCUMENTS.

LIGHTING PACKAGE AND PHOTOMETRICS DEVELOPED BY LIGHTING ASSOCIATES, INC. CONTACT LIZ VANHEES, (404) 293-8651, LVANHEES@LIGHTINGASSOCIATES.COM.

SEQUENCE OF OPERATIONS

VESTIBULE (1), LOBBY/PRE-FUNCTION (2), HALLWAYS (19,25)	LIGHTS SHALL TURN ON TO 100% OUTPUT UPON ACTIVATION OF OCCUPANCY SENSOR. LIGHTS SHALL DIM TO 20% OUTPUT AFTER 20 MINUTES OF VACANCY.
EDUCATIONAL ASSISTANCE (3), ADMIN/RECEPTION (4), OFFICES (5,6,7,8,9,10,12), COPY SCHOOL SUPPLIES (11), COATS (13), STUDY (14), BREAK ROOM (16), JANITOR (20), KITCHEN (23), STORAGE (30,32), AV CLOSET (31)	LIGHTS SHALL TURN ON VIA MANUAL ACTIVATION OF WALL SWITCH. LIGHTS SHALL TURN OFF AUTOMATICALLY AFTER 20 MINUTES OF VACANCY.
WOMEN'S (21), MEN'S (22)	LIGHTS SHALL TURN ON AND OFF AUTOMATICALLY VIA OCCUPANCY SENSOR. PROVIDE 20 MINUTE TIMEOUT FOR OCCUPANCY SENSOR.
COMPUTER LAB (15), CRAFT ROOMS (26,27), CLASSROOMS (28,29)	LIGHTS SHALL TURN ON VIA MANUAL ACTIVATION OF WALL SWITCH. LIGHTS SHALL TURN OF AUTOMATICALLY AFTER 20 MINUTES OF VACANCY. LIGHTS SHALL MANUALL DIM PER ZONE VIA WALL SWITCH(ES). LIGHTS SHALL ALSO BE CONTROLLED BY DAYLIGHT SENSORS IF REQUIRED, AS DICTATED ON PLANS. PROVIDE QUANTITY OF WALL SWITCHES AS REQUIRED FOR INDEPENDENT CONTROL OF ALL ZONES AS IDENTIFIED ON PLANS.
ELECTRICAL (17), MEP (18)	LIGHTS SHALL TURN ON AND OFF VIA LINE VOLTAGE WALL SWITCH. LIGHTS SHALL NOT BE CONTROLLED VIA OCCUPANCY SENSOR FOR SAFETY.

LIGHTING CONTROL SEQUENCE OF OPERATIONS GENERAL NOTES:

1. ADJUST DAYLIGHT RESPONSIVE CONTROLS TO MEET REQUIREMENTS OF 2021 INTERNATIONAL ENERGY CONSERVATION CODE (IECC), SECTION C405.2.4.

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COUSHATTA TRIBE OF LOUISIANA

COUSHATTA TRIBE - EDUCATION BUILDING

1950 CC BEL RD
ELTON, LA 70532

Issue:	No:	Date:
BID SET		2025.12.05
BID ADDENDUM 6	6	2026.01.23

SCHEDULES - ELECTRICAL

JENNIFER N. FORNER
License No. 0048415
01/23/2026

Proj #: 24.0002607.000 Reviewed By: JNF

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