



PROJECT MANUAL

FOR

**MEDAL OF HONOR PARK
SITE AND LIGHTING IMPROVEMENTS**
1711 Hillcrest Road
Mobile, Alabama 36609
PR-001-23

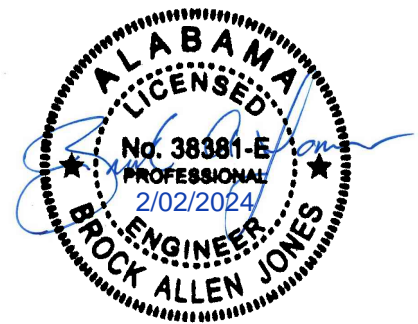
March 25, 2024

Kimley-Horn and Associates, Inc.
11 North Water Street, Suite 9290
Mobile, Alabama 36602

and

City of Mobile
Architectural Engineering Department
205 Government Street
P.O. Box 1827
Mobile, Alabama 36633

Bid Date: April 24, 2024



INDEX TO DOCUMENTS

SECTION	DOCUMENT NAME
DIVISION 0	BIDDING AND CONTRACT REQUIREMENTS
Section 00100	Invitation to Bid
Section 00200	Instructions to Bidders – AIA Documents A701
Section 00300	Supplementary Instructions to Bidders
Section 00400	Bid Form Sales Tax Form C-3A Office of Supplier Diversity Subcontracting and Major Supplier Plan
Section 00500	Standard form of Agreement Between Owner and Contractor – AIA Documents A101 (with Owner’s modifications)
Section 00600	Bonds, Certificates and Affidavits Performance Bond (Owner’s modified form) Labor and Material Payment Bond (Owner’s modified form) E-Verify Documentation (Sample) Application and Certificate for Payment – AIA Document G702 (Medal of Honor Park) and AIA Document G703 with DBE Utilization Report Certificate of Substantial Completion – AIA Document G704 Contractor’s Affidavit of Payment of Debts and Claims – AIA Document G706 Contractor’s Affidavit of Release of Liens – AIA document G706A Consent of Surety to Final Payment – AIA Document G707 Request for Taxpayer Identification Number and Certification, W-9 Form, and City of Mobile Vendor Information Form Construction Best Management Practices Plan Performance Bond
Section 00700	General Conditions of the Contract for Construction – AIA Documents A201 (with Owner’s modifications)
DIVISION 1	GENERAL REQUIREMENTS
Section 01010	Summary of Work
Section 01210	Allowances
Section 01220	Unit Prices
Section 01230	Alternative Bid Items
Section 01310	Project Management & Coordination
Section 01320	Construction Progress Documentation
Section 01330	Submittal Procedures
Section 01600	Product Requirements
Section 01635	Substitution Procedures
Section 01700	Execution Requirements
Section 01710	Closeout Procedures
Section 017823	Operation and Maintenance Data
Section 017839	Project Record Documents
DIVISION 2	SITWORK
Section 02230	Site Clearing
Section 02300	Earthwork
Section 02462	Pickleball Court Surfacing
Section 02513	Asphaltic Concrete Paving
Section 02751	Cement Concrete Pavement
Section 02764	Pavement Joint Sealants

Section 02821 Chain Link Fences and Gates
Section 024100 Site Demolition

DIVISION 3 CONCRETE

Section 033000 Cast in Place Concrete

DIVISION 4 MASONRY (NOT USED)
DIVISION 5 METALS (NOT USED)
DIVISION 6 WOOD AND PLASTIC (NOT USED)
DIVISION 7 THERMAL AND MOISTURE PROTECTION (NOT USED)
DIVISION 8 DOORS AND WINDOWS (NOT USED)
DIVISION 9 FINISHES (NOT USED)
DIVISION 10 SPECIALTIES (NOT USED)
DIVISION 11 EQUIPMENT (NOT USED)
DIVISION 12 FURNISHINGS (NOT USED)
DIVISION 13 SPECIAL CONSTRUCTION (NOT USED)

DIVISION 32 EXTERIOR IMPROVEMENTS

Section 329100 Playing Field Construction
Section 329113 Soil Preparation
Section 329200 Playing Field Sodding

SECTION 00100
INVITATION TO BID

You are invited to submit a sealed bid for construction of the following facility:

PROJECT NAME: Medal of Honor Park – Site and Lighting Improvements
PROJECT LOCATION: 1711 Hillcrest Road, Mobile, Alabama 36609
PROJECT NUMBER: PR-001-23

1 BID DATE:

- A. Sealed Bids will be received and clocked in until **2:15 PM local time, Wednesday, the 24th day of April, 2024**. Bidders shall insert sealed Bids into a receptacle, marked “City of Mobile Bids”, located in the elevator lobby outside the office of the City Clerk Office, 9th Floor South Tower, Government Plaza, 205 Government Street, Mobile, Alabama 36602.
- B. All Bids not clocked in at the City Clerk’s Office prior to the time specified, or Bids received after the specified time, will be automatically rejected and returned immediately, unopened.
- C. Bids will be publicly opened and read at 2:30 PM local time, in the Atrium Lobby of Government Plaza.

2 SPECIFICATIONS AND DRAWINGS:

- A. Specifications and Drawings are on file and may be examined and obtained from the following location: <https://www.cityofmobile.org/bids/>
- B. Bidders shall use complete sets of Bid Documents in preparing their bid. Neither the Owner nor Architect/Engineer assumes responsibility for errors or misinterpretations resulting from the use of incomplete sets of Bid Documents.
- C. **Addenda will be issued via the City of Mobile bid website.**
- D. This is a tax exempt project and shall be certified by the requirements of the Alabama Department of Revenue. Bidders shall NOT include sales and use taxes with their bid amounts. Bidders shall complete the Sales Tax Form C-3A and include it as an attachment to their Bid Form (see Section 00400).
- E. Product Substitutions must be pre-approved before the bid (see Section 01635 for requirements).

3 BID SURETY: Required on Bids \$10,000.00 or more

- A. A Cashier’s Check drawn on a bank registered to do business in the State of Alabama and which is a member of the Federal Deposit Insurance Corporation, or a Bid Bond payable to Owner, City of Mobile, in the amount of 5% of the Base Bid, but in no event more than \$10,000.00 is required to accompany Bid.
- B. Bid Bond must be issued by a Surety licensed to do business in the State of Alabama. Bidder shall require the attorney in fact who executes the required bonds on behalf of the surety to affix to the bond a certified and current copy of the power of attorney.
- C. No Bid may be modified, withdrawn, or canceled for a period of sixty (60) days after the time designated above for receipt of bids.

D. The City of Mobile will have sixty (60) days from the bid opening date to award contract.

4 SURETY QUALIFICATIONS:

- A. A Surety authorized to do business in the State of Alabama must issue Bonds.
- B. If the Base Bid is \$50,000 or more, the Surety must have a minimum rating of A/Class VI as reported by the latest issue of Best Key Rating Guide Property-Casualty published by Alfred M. Best Company, Inc.

5 IRREGULARITIES AND REJECTION:

- A. The City of Mobile reserves the right to waive irregularities in the Bid and in Bidding, and to reject any or all Bids.

6 BIDDER QUALIFICATIONS:

- A. Bids for Work costing \$50,000 or more must be licensed pursuant to current Alabama law and of classifications compliant with the State of Alabama Licensing Board for General Contractors. Note that if the contract amount is \$10,000 or greater, both a Performance Bond and a Labor and Material Payment Bond shall be required. **Before Bidding, Contractor shall verify their license classification of their General Contractors license with the State of Alabama Licensing Board for General Contractors to verify classification is acceptable to perform 51% of the Scope of Work.**
- B. In case of a joint venture of two or more Contractors, the amount for the bid shall be within the maximum bid limitations as set by the State of Alabama Licensing Board for General Contractors of at least one of the partners to the joint venture.

7 NON-RESIDENT CONTRACTORS:

- A. Except for contracts funded in whole or part with funds received from a federal agency, preference shall be given to resident Contractors on the same basis as the nonresident Contractor's state awards contracts to Alabama Contractors bidding in similar circumstances.
- B. Nonresident Bidders shall, prior to submitting a bid, be registered with the Alabama Secretary of State and the Alabama Department of Revenue. Provide the Secretary of State Business "Entity ID Number" on the Bid Form in the space provided.

8 PRE-BID CONFERENCE:

- A. A Pre-Bid Conference shall be held on **April 3, 2024, at Medal of Honor Park Amphitheater, at 2:00 PM local time.** The conference will include a presentation of the site locations. Bidders are not required to participate in the Pre-Bid Conference, but it is recommended to visit the sites prior to submitting a Bid and include all costs associated with the project in their Bids.
- B. Minutes of this conference will be made as an Addendum for the project.

9 BID SUBMITTAL:

- A. Bids must be submitted on copies of the Bid Forms furnished in the bidding documents.
- B. Bid, with Bid Security, Sales Tax Form C-3A, City of Mobile Subcontracting and Major Supplier Plan and other supporting data specified, shall be contained in a sealed, opaque envelope, approximately 9x12 inches or larger and be marked on the outside

with the words "**SEALED BIDS FOR MEDAL OF HONOR PARK – SITE AND LIGHTING IMPROVEMENTS - PR-001-23**".

- C. The Bid envelope shall be clearly addressed to the Owner as indicated on the Bid Form and include the bid date, the name, address and State License number and classification of the Bidder issued by the State of Alabama Licensing Board for General Contractors.
- D. All Bids of \$50,000 or more must include the bidder's State of Alabama General Contractor's License information written on the outside of the bid envelope. Any bid submitted without such license information may be rejected and returned to the bidder unopened.
- E. In addition, in large letters on both front and back of envelope, write the following: **DO NOT OPEN UNTIL TWO-THIRTY PM, APRIL 24, 2024.**
- F. For a bid to be valid it shall be delivered at designated location prior to time and date for receipt of Bids indicated in INVITATION TO BID, or prior to any extension thereof issued to Bidders. After that time no Bid will be received or withdrawn.
- G. When sent by mail, preferably special delivery, express service, or registered mail, the sealed Bid, marked as indicated above, shall be enclosed in another envelope for mailing such that the exterior mailing container or envelope may be opened without revealing the contents of the Bid. It is the Contractors responsibility to assure delivery of the bid to the City Clerk's Office prior the time and date established.

10 EQUAL OPPORTUNITY:

- A. The City of Mobile, Alabama is an Equal Opportunity Employer and requires that all Contractors comply with the Equal Employment Opportunity laws and the provisions of the Bid Documents in this regard.
- B. The City of Mobile also encourages and supports the utilization of Minority Business Enterprises on these and all other publicly solicited Bids, and shall be in compliance with the City of Mobile's Minority Utilization Plan as adopted by the City Council.
- C. Contractor shall provide an appropriately completed copy of the "City of Mobile Subcontracting and Major Supplier Plan" in the envelope with their Bid Form. Form shall document DBE Subcontractors participating in the project and, should the total % of DBE participation not meet the 15% minimum, all efforts to obtain DBE Subcontractors shall be documented on or attached to the DBE Form when submitted. During construction, contractors are required to submit a "DBE Utilization Report" with every Pay Application.
- D. Contractors should contact the City of Mobile, Supplier Diversity Manager for assistance with DBE Subcontractor information and any questions regarding the DBE Compliance Forms. Contact Archnique Kidd at 251-208-7967.
- E. A Directory of DBE Vendors can be found at the following location:
<https://workwith.cityofmobile.org/>

11 ADDITIONAL BIDDING PROCEDURES:

- A. Refer to the complete information in the Bid Documents prior to submitting a bid. Additional Bidding Procedure information is contained therein, particularly in the specification Section 00200 “Instructions to Bidders - AIA Document A701” and in the specification Section 00300 “Supplementary Instructions to Bidders”.

12 STATE OF ALABAMA IMMIGRATION ACT

“The State of Alabama, under the Beason-Hammon Alabama Taxpayer and Citizen Protection Act, Act No. 2011-535, Alabama Code Section 31-13-1, et. Seq., requires:

- A. That the Contractor shall be enrolled in the E-Verify Program, shall participate in that Program during the performance of the contract, and shall verify the immigration status of every employee who is required to be verified, according to the applicable federal rules and regulations; and
- B. That it will attach to the contract the company's documentation of enrollment in E-Verify.
- C. The subcontractor must also enroll in the E-Verify Program prior to performing any work on the contract and shall attach to its sworn affidavit documentation establishing that the subcontractor is enrolled in the E-Verify Program.

13 PUBLIC CONTRACTS WITH ENTITIES ENGAGING IN CERTAIN BOYCOTT ACTIVITIES

- A. By signing this contract, Contractor further represents and agrees that it is not currently engaged in, nor will it engage in, any boycott of a person or entity based in or doing business with a jurisdiction with which the State of Alabama can enjoy open trade.

END OF SECTION 00100

SECTION 00200
INSTRUCTIONS TO BIDDERS

PART 1 – GENERAL

A. This section includes the INSTRUCTIONS TO BIDDERS, AIA Document A701 to be utilized with the Owner's most recent modifications and which shall be used in conjunction with the entire Bid Documents and Section 00300 SUPPLEMENTARY INSTRUCTIONS TO BIDDERS for this project.



AIA® Document A701® – 2018

Instructions to Bidders

for the following Project:
(Name, location, and detailed description)

Medal Of Honor Park - Site And Lighting Improvements
1711 Hillcrest Road
Mobile, Alabama 36609
PR-001-23

THE OWNER:
(Name, legal status, address, and other information)

City of Mobile
PO Box 1827
Mobile, Alabama 36633-1827

THE ARCHITECT:
(Name, legal status, address, and other information)

Kimley-Horn and Associates, Inc.
11 North Water Street, Suite 9290
Mobile, Alabama 36602

TABLE OF ARTICLES

- 1 **DEFINITIONS**
- 2 **BIDDER’S REPRESENTATIONS**
- 3 **BIDDING DOCUMENTS**
- 4 **BIDDING PROCEDURES**
- 5 **CONSIDERATION OF BIDS**
- 6 **POST-BID INFORMATION**
- 7 **PERFORMANCE BOND AND PAYMENT BOND**
- 8 **FORM OF AGREEMENT BETWEEN OWNER AND CONTRACTOR**
- 9 **NONDISCRIMINATION**
- 10 **USE OF DOMESTIC PRODUCTS**
- 11 **PREFERENCE TO RESIDENT CONTRACTORS**
- 12 **PRE-BID REQUIREMENTS**
- 13 **POST-BID REQUIREMENTS**

ADDITIONS AND DELETIONS:

The author of this document has added information needed for its completion. The author may also have revised the text of the original AIA standard form. An *Additions and Deletions Report* that notes added information as well as revisions to the standard form text is available from the author and should be reviewed. A vertical line in the left margin of this document indicates where the author has added necessary information and where the author has added to or deleted from the original AIA text.

This document has important legal consequences. Consultation with an attorney is encouraged with respect to its completion or modification.

FEDERAL, STATE, AND LOCAL LAWS MAY IMPOSE REQUIREMENTS ON PUBLIC PROCUREMENT CONTRACTS. CONSULT LOCAL AUTHORITIES OR AN ATTORNEY TO VERIFY REQUIREMENTS APPLICABLE TO THIS PROCUREMENT BEFORE COMPLETING THIS FORM.

It is intended that AIA Document G612™–2017, Owner’s Instructions to the Architect, Parts A and B will be completed prior to using this document.

ARTICLE 1 DEFINITIONS

§ 1.1 Bidding Documents include the Bidding Requirements and the Proposed Contract Documents. The Bidding Requirements consist of the advertisement or invitation to bid, Instructions to Bidders, supplementary instructions to bidders, the bid form, and any other bidding forms. The Proposed Contract Documents consist of the unexecuted form of Agreement between the Owner and Contractor and that Agreement's Exhibits, Conditions of the Contract (General, Supplementary and other Conditions), Drawings, Specifications, all Addenda, and all other documents enumerated in Article 8 of these Instructions.

§ 1.2 Definitions set forth in the General Conditions of the Contract for Construction, or in other Proposed Contract Documents apply to the Bidding Documents.

§ 1.3 Addenda are written or graphic instruments issued by the Architect, which, by additions, deletions, clarifications, or corrections, modify or interpret the Bidding Documents.

§ 1.4 A Bid is a complete and properly executed proposal to do the Work for the sums stipulated therein, submitted in accordance with the Bidding Documents.

§ 1.5 The Base Bid is the sum stated in the Bid for which the Bidder offers to perform the Work described in the Bidding Documents, to which Work may be added or deleted by sums stated in Alternate Bids.

§ 1.6 An Alternate Bid (or Alternate) is an amount stated in the Bid to be added to or deducted from, or that does not change, the Base Bid if the corresponding change in the Work, as described in the Bidding Documents, is accepted.

§ 1.7 A Unit Price is an amount stated in the Bid as a price per unit of measurement for materials, equipment, or services, or a portion of the Work, as described in the Bidding Documents.

§ 1.8 A Bidder is a person or entity who submits a Bid and who meets the requirements set forth in the Bidding Documents. A Bidder must be licensed by the State Licensing Board for General Contractors if the amount for the Contract exceeds the amount established by said Board.

§ 1.9 A Sub-bidder is a person or entity who submits a bid to a Bidder for materials, equipment, or labor for a portion of the Work. A Sub-bidder performing Work must be licensed by the State Licensing Board for General Contractors if the Sub-bidders' contract amount exceeds that established by said Board.

1.10 A non-resident Bidder or Sub-bidder is one who

- a. Is neither organized nor existing under the laws of the State of Alabama
- b. nor maintains its principal place of business in the State of Alabama.

A non-resident contractor who has maintained a permanent branch office within the State of Alabama for at least five (5) continuous years shall not thereafter be deemed to be a non-resident contractor so long as such contractor continues to maintain a branch office within Alabama.

ARTICLE 2 BIDDER'S REPRESENTATIONS

§ 2.1 By submitting a Bid, the Bidder represents that:

- .1 the Bidder has read and understands the Bidding Documents;
- .2 the Bidder understands how the Bidding Documents relate to other portions of the Project, if any, being bid concurrently or presently under construction;
- .3 the Bid complies with the Bidding Documents;
- .4 the Bidder has visited the site, become familiar with local conditions under which the Work is to be performed, and has correlated the Bidder's observations with the requirements of the Proposed Contract Documents;
- .5 the Bid is based upon the materials, equipment, and systems required by the Bidding Documents without exception; and
- .6 the Bidder has read and understands the provisions for liquidated damages, if any, set forth in the form of Agreement between the Owner and Contractor.

§ 2.2 The Bidder is licensed by the State Licensing Board for General Contractors and the amount Bid does not exceed the Bid Limit stipulated in the Bidder's License and by the City of Mobile.

§ 2.3 Each and every Contractor belonging to or comprising a part of any entity that is bidding as a joint venture or association involving two or more contractors is licensed by the State Licensing Board for General Contractors and that the amount Bid does not exceed the Bid limit stipulated in at least one of their licenses.

§ 2.4 Any non-resident Bidder is authorized by the Secretary of State of Alabama and is registered with Alabama Department of Revenue to transact business in Alabama.

§ 2.5 Joint Ventures or Associations of Contractors, whether the same are Bidders or Subcontractors of Bidders, will remain in existence until all insurance and warranty requirements for the Project have been fulfilled.

ARTICLE 3 BIDDING DOCUMENTS

§ 3.1 Distribution

§ 3.1.1 Bidders shall obtain complete Bidding Documents, as indicated below, from the issuing office designated in the advertisement or invitation to bid, for the deposit sum, if any, stated therein.

(Paragraphs deleted)

§ 3.1.2 Any required deposit shall be refunded to Bidders who submit a bona fide Bid and return the paper Bidding Documents in good condition within ten days after receipt of Bids. The cost to replace missing or damaged paper documents will be deducted from the deposit. A Bidder receiving a Contract award may retain the paper Bidding Documents, and the Bidder's deposit will be refunded.

§ 3.1.3 Bidding Documents will not be issued directly to Sub-bidders unless specifically offered in the advertisement or invitation to bid, or in supplementary instructions to bidders.

§ 3.1.4 Bidders shall use complete Bidding Documents in preparing Bids. Neither the Owner nor Architect assumes responsibility for errors or misinterpretations resulting from the use of incomplete Bidding Documents.

§ 3.1.5 The Bidding Documents will be available for the sole purpose of obtaining Bids on the Work. No license or grant of use is conferred by distribution of the Bidding Documents.

§ 3.2 Modification or Interpretation of Bidding Documents

§ 3.2.1 The Bidder shall carefully study the Bidding Documents, shall examine the site and local conditions, and shall notify the Architect of errors, inconsistencies, or ambiguities discovered and request clarification or interpretation pursuant to Section 3.2.2.

§ 3.2.2 Requests for clarification or interpretation of the Bidding Documents shall be submitted by the Bidder in writing and shall be received by the Architect at least five (5) calendar days prior to the date for receipt of Bids.

(Paragraphs deleted)

§ 3.2.3 Modifications and interpretations of the Bidding Documents shall be made by Addendum. Modifications and interpretations of the Bidding Documents made in any other manner shall not be binding, and Bidders shall not rely upon them.

§ 3.2.4 The Contract Drawings and Specifications are intended to cooperate and agree, but should conflicts or difference be found to exist between the requirements within either and clarification has not been obtained in accordance with the above procedure prior to Bidding, then the most costly and/or restrictive interpretation by the decision of the Architectural Engineering Department Director will be final.

§ 3.3 Substitutions

§ 3.3.1 The materials, products, and equipment described in the Bidding Documents establish a standard of required function, dimension, appearance, and quality to be met by any proposed substitution.

§ 3.3.2 Substitution Process

§ 3.3.2.1 Written requests for substitutions shall be received by the Architect at least fifteen (15) calendar days prior to the date for receipt of Bids. Requests shall be submitted in the same manner as that established for submitting clarifications and interpretations in Section 3.2.2.

§ 3.3.2.2 Bidders shall submit substitution requests on a Substitution Request Form if one is provided in the Bidding Documents.

§ 3.3.2.3 If a Substitution Request Form is not provided, requests shall include (1) the name of the material or equipment specified in the Bidding Documents; (2) the reason for the requested substitution; (3) a complete description of the proposed substitution including the name of the material or equipment proposed as the substitute, performance and test data, and relevant drawings; and (4) any other information necessary for an evaluation. The request shall include a statement setting forth changes in other materials, equipment, or other portions of the Work, including changes in the work of other contracts or the impact on any Project Certifications (such as LEED), that will result from incorporation of the proposed substitution.

§ 3.3.3 The burden of proof of the merit of the proposed substitution is upon the proposer. The Architect's decision of approval or disapproval of a proposed substitution shall be final.

§ 3.3.4 If the Architect approves a proposed substitution prior to receipt of Bids, such approval shall be set forth in an Addendum. Approvals made in any other manner shall not be binding, and Bidders shall not rely upon them.

§ 3.3.5 No substitutions will be considered after the Contract award unless specifically provided for in the Contract Documents.

§ 3.3.6 See Division One Section "Substitution Procedures", if included in Specification.

§ 3.4 Addenda

§ 3.4.1 Addenda will be transmitted to Bidders known by the issuing office to have received complete Bidding Documents.

(Paragraphs deleted)

§ 3.4.2 Addenda will be available where Bidding Documents are on file.

§ 3.4.3 Addenda will be issued no later than two (2) days prior to the date for receipt of Bids, except an Addendum withdrawing the request for Bids or one which includes postponement of the date for receipt of Bids.

§ 3.4.4 Prior to submitting a Bid, each Bidder shall ascertain that the Bidder has received all Addenda issued, and the Bidder shall acknowledge their receipt in the Bid.

ARTICLE 4 BIDDING PROCEDURES

§ 4.1 Preparation of Bids

§ 4.1.1 Bids shall be submitted on the forms included with or identified in the Bidding Documents. No bid will be considered unless made out and submitted on a copy of the Bid Form, Section 00410. Additional Bid Forms will be furnished to prospective Bidders upon request.

§ 4.1.2 All blanks on the bid form shall be legibly executed. Paper bid forms shall be executed in a non-erasable medium.

§ 4.1.3 Sums shall be expressed in both words and numbers, unless noted otherwise on the bid form. In case of discrepancy, the amount entered in words shall govern.

§ 4.1.4 Edits to entries made on paper bid forms must be initialed by the signer of the Bid.

§ 4.1.5 All requested Alternates shall be bid. If no change in the Base Bid is required, enter "No Change" or as required by the bid form.

Unit Prices: Supply requested Unit Prices where shown on the Bid Form, Such Unit Prices shall be used to adjust the Contract Amount where the quantities shown on the Drawings and/or Specifications do not reflect amounts required for

completion of the work. Where Completion of the Work requires quantities in excess of those shown on the drawings and specifications, unit prices shall be used to compute an extra payment to the Contractor. Where completion of work required quantities less than those on the Drawings and/or specifications, unit prices shall be used to compute a credit to the Owner.

Contingency Allowance: As shown on the Bid Form, Contractor shall add the amount of the contingency allowance to the Base Bid to derive the Total Bid. The contingency allowance shall cover cost of material, labor, overhead, profit and other expenses for complete installation of items of additional work as required for a complete functional project. The contingency allowance shall be used to fund unforeseen conditions not covered in the construction documents and shall be subject to the provisions of change orders. Upon the completion of work any unused portion of the contingency allowance shall be credited to the Owner by change order.

§ 4.1.6 Where two or more Bids for designated portions of the Work have been requested, the Bidder may, without forfeiture of the bid security, state the Bidder's refusal to accept award of less than the combination of Bids stipulated by the Bidder. The Bidder shall neither make additional stipulations on the bid form nor qualify the Bid in any other manner.

§ 4.1.7 Each copy of the Bid shall state the legal name and legal status of the Bidder. As part of the documentation submitted with the Bid, the Bidder shall provide evidence of its legal authority to perform the Work in the jurisdiction where the Project is located. Each copy of the Bid shall be signed by the person or persons legally authorized to bind the Bidder to a contract. A Bid by a corporation shall further name the state of incorporation and have the corporate seal affixed. A Bid submitted by an agent shall have a current power of attorney attached, certifying the agent's authority to bind the Bidder.

§ 4.1.8 A Bidder shall incur all costs associated with the preparation of its Bid.

§ 4.2 Bid Security

§ 4.2.1 Each Bid shall be accompanied by the following bid security if so required in the Bidding Documents:
(Insert the form and amount of bid security.)

The Bidder shall provide a Bid Security in the form of a cashier's check drawn on a bank registered to do business in the State of Alabama and which is a member of the Federal Deposit Insurance Corporation, or a Bid Bond. Bid Security is required for bids exceeding \$10,000.00. Bid Security shall be in the amount of 5% of the TOTAL BID, but in no event more than \$10,000.00.

§ 4.2.2 The Bidder pledges to enter into a Contract with the Owner on the terms stated in the Bid and shall, if required, furnish bonds covering the faithful performance of the Contract and payment of all obligations arising thereunder. Should the Bidder refuse to enter into such Contract or fail to furnish such bonds if required, the amount of the bid security shall be forfeited to the Owner as liquidated damages, not as a penalty.

§ 4.2.3 If a surety bond is required as bid security, it shall be written on AIA Document A310™, Bid Bond, unless otherwise provided in the Bidding Documents. The attorney-in-fact who executes the bond on behalf of the surety shall affix to the bond a certified and current copy of an acceptable power of attorney. The Bidder shall provide surety bonds from a company or companies lawfully authorized to issue surety bonds in the jurisdiction where the Project is located.

§ 4.2.4 The Owner will have the right to retain the bid security of Bidders to whom an award is being considered until (a) the Contract has been executed and bonds, if required, have been furnished; (b) the specified time has elapsed so that Bids may be withdrawn; or (c) all Bids have been rejected.

§ 4.2.5 Bonds must be issued by a Surety authorized to do business in the State of Alabama. A Performance Bond and a Labor and Material Payment Bond are required for projects exceeding \$10,000.00. If the project cost is \$50,000.00 or more, the Surety must have a minimum rating of A/Class VI as reported by the latest issue of Best's Key Rating Guide Property-Casualty published by Alfred M. Best Company, Inc.

§ 4.3 Submission of Bids

§ 4.3.1 A Bidder shall submit its Bid as indicated below:

(Indicate how, such as by website, host site/platform, paper copy, or other method Bidders shall submit their Bid.)

Submission of Bid shall be as stated in Section 00100, Invitation to Bid, Paragraph 9, titled "Bid Submittal".

(Paragraph deleted)

§ 4.3.3 Bids shall be submitted by the date and time and at the place indicated in the invitation to bid. Bids submitted after the date and time for receipt of Bids, or at an incorrect place, will not be accepted and will be returned unopened.

§ 4.3.4 The Bidder shall assume full responsibility for timely delivery at the location designated for receipt of Bids.

§ 4.3.5 A Bid submitted by any method other than as provided in this Section 4.3 will not be accepted.

§ 4.4 Modification or Withdrawal of Bid

§ 4.4.1 Prior to the date and time designated for receipt of Bids, a Bidder may submit a new Bid to replace a Bid previously submitted, or withdraw its Bid entirely, by notice to the party designated to receive the Bids. Such notice shall be received and duly recorded by the receiving party on or before the date and time set for receipt of Bids. The receiving party shall verify that replaced or withdrawn Bids are removed from the other submitted Bids and not considered. Notice of submission of a replacement Bid or withdrawal of a Bid shall be worded so as not to reveal the amount of the original Bid.

§ 4.4.2 Withdrawn Bids may be resubmitted up to the date and time designated for the receipt of Bids in the same format as that established in Section 4.3, provided they fully conform with these Instructions to Bidders. Bid security, if required, shall be in an amount sufficient for the Bid as resubmitted.

(Paragraphs deleted)

ARTICLE 5 CONSIDERATION OF BIDS

§ 5.1 Opening of Bids

If stipulated in an advertisement or invitation to bid, or when otherwise required by law, Bids properly identified and received within the specified time limits will be publicly opened and read aloud. A summary of the Bids may be made available to Bidders.

§ 5.2 Rejection of Bids

Unless otherwise prohibited by law, the Owner shall have the right to reject any or all Bids.

§ 5.3 Acceptance of Bid (Award)

§ 5.3.1 It is the intent of the Owner to award a Contract to the lowest responsive and responsible Bidder, provided the Bid has been submitted in accordance with the requirements of the Bidding Documents and does not exceed the funds available. Unless otherwise prohibited by law, the Owner shall have the right to waive informalities and irregularities in a Bid received and to accept the Bid which, in the Owner's judgment, is in the Owner's best interests.

§ 5.3.2 The Owner shall accept Alternates in the order listed on the Bid Form to determine the lowest responsive and responsible Bidder on the basis of the sum of the Base Bid and Alternates accepted.

ARTICLE 6 POST-BID INFORMATION

§ 6.1 Contractor's Qualification Statement

Bidders to whom award of a Contract is under consideration shall submit to the Architect, upon request and within the timeframe specified by the Architect, a properly executed AIA Document A305™, Contractor's Qualification Statement, unless such a Statement has been previously required and submitted for this Bid.

(Paragraphs deleted)

§ 6.3 Submittals

§ 6.3.1 After notification of selection for the award of the Contract, the Bidder shall, within three (3) calendar days or as stipulated in the Bidding Documents, submit in writing to the Owner through the Architect:

- .1 a designation of the Work to be performed with the Bidder's own forces;
- .2 names of the principal products and systems proposed for the Work and the manufacturers and suppliers of each; and

- .3 names of persons or entities (including those who are to furnish materials or equipment fabricated to a special design) proposed for the principal portions of the Work.
- .4 The name of the Project Superintendent and Project Manager together with the resume of qualifications of each;
- .5 Nonresident Contractor shall submit a letter from an attorney as required by Subparagraph 11.1.2 below and;
- .6 Engineering Firm or Testing Laboratory for testing as specified.

§ 6.3.2 The Bidder will be required to establish to the satisfaction of the Architect and Owner the reliability and responsibility of the persons or entities proposed to furnish and perform the Work described in the Bidding Documents.

§ 6.3.3 Prior to the execution of the Contract, the Architect will notify the Bidder if either the Owner or Architect, after due investigation, has reasonable objection to a person or entity proposed by the Bidder. If the Owner or Architect has reasonable objection to a proposed person or entity, the Bidder may, at the Bidder's option, withdraw the Bid or submit an acceptable substitute person or entity. The Bidder may also submit any required adjustment in the Base Bid or Alternate Bid to account for the difference in cost occasioned by such substitution. The Owner may accept the adjusted bid price or disqualify the Bidder. In the event of either withdrawal or disqualification, bid security will not be forfeited.

§ 6.3.4 Persons and entities proposed by the Bidder and to whom the Owner and Architect have made no reasonable objection must be used on the Work for which they were proposed and shall not be changed except with the written consent of the Owner and Architect.

§ 6.3.5 The Contractor shall, within ten (10) calendar days of receiving Contract Forms for signature, furnish to the Owner the following items, along with the signed contract, or the Bid Security will be forfeited automatically without further delay:

- .1 A Signed Construction Contract;
- .2 Performance Bond and Labor and Material Payment Bond (originals) on all Bids over \$10,000.00;
- .3 Certificate of Insurance and copy of Builder's Risk Policy (original), as identified in the specifications;
- .4 Schedule of Values; and
- .5 Federal Immigration Law Compliance: E-Verify enrollment documentation.

§ 6.3.6 The Bid Check or Bond of the three (3) lowest Bidders will not be returned until after the Construction Contract is executed.

ARTICLE 7 PERFORMANCE BOND AND PAYMENT BOND

§ 7.1 Bond Requirements

§ 7.1.1 If stipulated in the Bidding Documents, the Bidder shall furnish bonds covering the faithful performance of the Contract and payment of all obligations arising thereunder.

§ 7.1.2 If the furnishing of such bonds is stipulated in the Bidding Documents, the cost shall be included in the Bid. If the furnishing of such bonds is required after receipt of bids and before execution of the Contract, the cost of such bonds shall be added to the Bid in determining the Contract Sum.

§ 7.1.3 The Bidder shall provide surety bonds from a company or companies lawfully authorized to issue surety bonds in the jurisdiction where the Project is located.

§ 7.1.4 Unless otherwise indicated below, the Penal Sum of the Payment and Performance Bonds shall be the amount of the Contract Sum.

§ 7.1.4 A Surety authorized to do business in the State of Alabama shall issue Performance Bond and Labor and Material Payment Bond, as required by the Contract Documents. If the project cost is \$50,000.00 or more, the Surety must have a minimum rating of A/Class VI as reported by the latest issue of Best's Key Rating Guide Property-Casualty, published by Alfred M. Best Company, Inc.

§ 7.2 Time of Delivery and Form of Bonds

§ 7.2.1 The Bidder shall deliver the required bonds to the Owner not later than ten (10) calendar days from receiving the Construction Contract forms for signature.

§ 7.2.2 The bonds shall be written on City's Performance Bond and Labor and Material Payment Bond forms.

§ 7.2.3 The bonds shall be dated on or after the date of the Contract.

§ 7.2.4 The Bidder shall require the attorney-in-fact who executes the required bonds on behalf of the surety to affix to the bond a certified and current copy of the power of attorney.

ARTICLE 8 FORM OF AGREEMENT BETWEEN OWNER AND CONTRACTOR

Unless otherwise required in the Bidding Documents, the Agreement for the Work will be written on AIA Document A101, Standard Form of Agreement Between Owner and Contractor Where the Basis of Payment Is a Stipulated Sum.

§ 8.1.1 AIA Document A101, Standard Form of Agreement Between Owner and Contractor where the Basis of Payment is a stipulated sum will be edited electronically and include the standard signatures as required by the City of Mobile.

ARTICLE 9 NONDISCRIMINATION

§ 9.1.1 Contractor shall comply with all Federal, State and local laws concerning nondiscrimination, including but not limited to City of Mobile Ordinance No. 14-034 which requires, *inter alia*, that all contractors performing work for the City of Mobile not discriminate on the basis of race, creed, color, national origin or disability, require that all subcontractors they engage do the same, and make every reasonable effort to assure that fifteen percent of the work performed under contract be awarded to socially and economically disadvantaged individuals and business entities. Contractor shall provide a completed copy of the City of Mobile Subcontracting and Major Supplier Plan with the Bid Form, for bids of \$250,000.00 or greater.

ARTICLE 10 USE OF DOMESTIC PRODUCTS

§ 10.1.1 Section 39-3-1 Code of Alabama provides that the Contractor agrees, in the execution of this contract, to use material supplies and products manufactured, mined, processed or otherwise produced in the United States or its territories, if available at reasonable prices, and that breach of this agreement by the Contractor shall result in the assessment of liquidated damages in an amount not less than \$500 nor more than 20 percent of the gross amount of the contract price.

§ 10.1.2 Section 39-3-4, Code of Alabama provides that the Contractor for a municipal construction project, financed by the State of Alabama or any political subdivision thereof, is required to use steel produced within the United States. If the Contractor violates the requirement to use domestic steel, this contract will automatically be revoked and the contractor shall not be entitled to any set-off or recoupment for labor or materials used up to the time of revocation.

ARTICLE 11 PREFERENCE TO RESIDENT CONTRACTORS

§ 11.1.1 Except for contracts funded in whole or in part with funds received from a federal agency, preference shall be given to Alabama resident contractors, and a nonresident bidder domiciled in a state having laws granting preference to local contractors shall be awarded the contracts only on the same basis as a the nonresident bidder's state awards contracts to Alabama contractors bidding under similar circumstances. In the letting of public contracts in which any state, county or municipal funds are utilized, resident contractors in Alabama, be they corporations, individuals or partnerships, are to be granted preference over nonresidents in awarding of contracts in the same manner and to the same extent as provided by the laws of the state of domicile of the nonresident.

§ 11.1.2 A successful nonresident bidder shall include in his post bid submittals a written opinion of an attorney at law licensed to practice law in such nonresident bidders' state of domicile, as to the preferences, if any or none, granted by the law of that state to its own business entities whose principal places of business are in that state in the letting of any or all public contracts.

ARTICLE 12 PRE-BID REQUIREMENTS

§ 12.1 STATE OF ALABAMA CONTRACTORS LICENSE

§ 12.1.1 If the Project total bid amount is \$50,000 or more, a license issued by the State of Alabama Licensing Board for General Contractors is required prior to submitting a bid and the licensed classification and bid limits must cover the type

of work in this project. See Invitation to Bid, Section 6 "Bidder Qualifications".

§ 12.2 A NONRESIDENT BIDDER

§ 12.2.1 Every bidder shall be registered with the Department of Revenue and with the Alabama Secretary of the State prior to bidding. The Secretary of State's "Business Entity ID" registration number shall be included on the bid form.

ARTICLE 13 POST-BID REQUIREMENTS

§ 13.1 CITY CONTRACTOR'S LICENSE

13.1.1 A City of Mobile Contractors License is required and must be current before the Contractor signs the Contract. Contractor must qualify and post \$10,000.00 Surety Bond with the Land Use/Code Administration Department before a Contractors License will be issued by the Revenue Department. Information on the City Contractors License may be obtained by writing or calling:

Land Use/Code Administration
P. O. Box 1827
Mobile, Alabama 36633-1827
Phone: 251.208.7421

Revenue Department
P. O. Box 1827
Mobile, Alabama 36633-1827
251.208.7461

13.2 E-VERIFY DOCUMENTATION

§ 13.2.1 The Contractor agrees that it shall comply with all of the requirements of the State of Alabama Immigration Law (Act. No. 2011-535 as amended by Act. No. 2012-491, Alabama Code (1975) Section 31-13-1, et. Seq., See Section 31-13-9), and the provisions of said Law, including all penalties for violation thereof, are incorporated therein.

13.3 PUBLIC CONTRACTS WITH ENTITIES ENGAGING IN CERTAIN BOYCOTT ACTIVITIES

§ 13.3 The Contractor represents and agrees that it is not currently engaged in, nor will engage in, any boycott of a person or entity based in or doing business with a jurisdiction with which the State of Alabama can enjoy open trade.

(Table deleted)(Paragraphs deleted)(Paragraphs deleted)

SECTION 00300
SUPPLEMENTARY INSTRUCTIONS TO BIDDERS

**THE ATTENTION OF ALL BIDDERS IS CALLED TO THE FOLLOWING
INSTRUCTIONS AND CONDITIONS:**

1. BIDDING DOCUMENTS:

- A. Bidders may obtain complete sets of Bid Documents and Specifications (Project Manual) from the Department of Architectural Engineering as listed in the Invitation to Bid.
- B. Bidders shall use the complete set of documents in preparing their bid. Neither the City of Mobile nor the Engineer (Architect) assume responsibility for errors or misinterpretations resulting from use of an incomplete set of documents.

2. INTERPRETATION OF BID DOCUMENTS:

- A. Bidders shall carefully study and compare the Bidding Documents and compare various components of the Bidding Documents with each other, shall examine the site and local conditions and shall at once report to the Project Manager any errors, inconsistencies or ambiguities discovered.
- B. Bidders requiring clarification or interpretation of the Bidding Documents shall make a written request to the Project Manager by 3:00 PM at least five (5) calendar days prior to the date for receipt of Bids. E-mail requests are required and should be addressed to brock.jones@kimley-horn.com.
- C. Interpretations, corrections and changes to the Bidding Documents will be made by a formal, written Addendum. Interpretations, corrections and changes to the Bidding Documents made in any other manner will not be binding, and Bidders shall not rely on them.
- D. Any discrepancy not resolved prior to Bidding shall be bid by the Contractor to provide for the most costly and/or restrictive interpretation of the documents.

3. BIDDING PROCEDURES:

- A. No Bid will be considered unless made out and submitted on a copy of the Bid Form as set forth by the Bid Documents.
- B. All blanks on the Bid Form shall be legibly executed in a non-erasable medium.
- C. Sums shall be expressed in both words and figures. In case of discrepancy, the amount written in words shall govern.
- D. Interlineations, alterations and erasures must be initialed by the signer of the Bid.
- E. All requested Alternates, Unit Prices and Allowances shall be bid as indicated on the Bid Form and the Bid Documents.
- F. Addenda shall be considered as a part of the Bid Documents and those issued prior to the opening of Bids shall be acknowledged on the Bid Form and any adjustment in cost shall be included in the Contract Sum.

4. BID SECURITY:

- A. A Cashier's Check drawn on a bank registered to do business in the state of Alabama and which is a member of the Federal Deposit Insurance Corporation or Bid Bond payable to Owner, City of Mobile, in the amount of 5% of the Base Bid, but in no event more than \$10,000.00, must accompany bid. By submitting a Bid Security, the Bidder pledges to enter into a Contract with the City of Mobile on the terms stated in the Bid, and will, if required, furnish bonds covering faithful performance of the Contract and required insurance certificate. Should the Bidder refuse to enter into such Contract or fail to furnish such bonds or insurance or any other required document, the amount of the Bid security shall be forfeited to the Owner as liquidated damages, not as a penalty.
- B. Bid Bond shall be valid for a minimum of sixty (60) days from the date of the Bid. The Owner reserves the right to retain the security of all Bidders until the successful Bidder enters into the Contract or until (60) days after Bid opening, whichever is sooner.
- C. Bonds must be issued by a Surety licensed to do business in the State of Alabama. If the project cost is more than \$50,000.00 the Surety must have a minimum rating of A/Class VI as reported by the latest issue of Best's Key Rating Guide Property-Casualty published by Alfred M. Best Company, Inc.
- D. Power of Attorney is required for all Bonds.
- E. The Surety company shall be required to execute AIA Document G-707, "Consent of Surety to Final Payment" prior to Final Payment of retainage being made to the Contractor.

5. EXAMINATION OF DOCUMENTS AND SITE WORK:

- A. Before submitting a Bid, Bidders should carefully examine the Bid Documents, visit the site of the Work, including attendance at the Pre-Bid conference, fully inform themselves as to existing conditions and limitations, and include in the Bid a sum to cover the cost of all items included in the Contract and necessary to perform the Work. The submission of a Bid will be considered as conclusive evidence that the Bidder has made such examination.

6. SUBMISSION OF BIDS:

- A. Bid, with Bid Security, Sales Tax Form C-3A, City of Mobile Subcontracting & Major Supplier Plan and other supporting data specified, shall be contained in a sealed, opaque envelope, approximately 9x12 inches or larger and be marked on the outside with the words "SEALED BID FOR MEDAL OF HONOR PARK – SITE AND LIGHTING IMPROVEMENTS – PR-001-23", the Bid Date, and Contractor's name, address, and City of Mobile Business License number. And, if bidding in an amount \$50,000 or greater, the State of Alabama General Contractor's License number and classification of the Bidder issued by the State of Alabama Licensing Board for General Contractors shall be written on the envelope.

- B. Bids shall be deposited at the designated location prior to the time and date for receipt of Bids. Bids received after the time and date specified in the Invitation to Bid, or as modified by Addendum, will not be considered. Late Bids will be returned to the Bidder unopened.
 - C. The Bidder shall assume full responsibility for timely delivery at the location designated for receipt of Bids.
 - D. Oral, telephonic, facsimile or other electronically transmitted bids will not be considered.
7. MODIFICATION OR WITHDRAWAL OF BIDS:
- A. A Bid may not be modified, withdrawn, or canceled by the Bidder for a period of sixty (60) days following the time and date designated for receipt of bids, and each Bidder so agrees in submitting a Bid.
8. CONSIDERATION AND AWARD OF BIDS:
- A. At the discretion of the City, the properly identified Bids received on time will be publicly opened and will be read aloud.
 - B. The City shall have the right to reject any and all Bids. A Bid not accompanied by a required Bid security or a Bid which is in any way incomplete or irregular is subject to rejection.
 - C. It is the intent of the City to award a Contract to the lowest qualified Bidder provided the Bid has been submitted in accordance with the requirements of the Bidding Documents and does not exceed the funds available. The City shall have the right to waive informalities and irregularities in a Bid received and to accept the Bid which, in the City's judgment, is in the City's best interest.
 - D. The award shall be based on the lowest Total Bid for the Base Bid and any allowances, plus any alternates and/or options that may be accepted, as listed on the Bid Form.
9. PROOF OF COMPETENCY OF BIDDER:
- A. Bidders may be required to furnish evidence satisfactory to the City of Mobile that they have sufficient means and experience in the types of work called for to assure the completion of the Contract in a satisfactory manner.
10. SIGNING OF CONTRACT:
- A. The Standard Agreement between the City of Mobile and the Contractor, included herein, shall serve as the Agreement between the City and the Contractor.
 - B. The Bidder to whom the Contract is awarded shall, within ten (10) calendar days of receiving the Contract Forms, properly execute and deliver to the Owner, the following items with the signed Agreement:
 - 1) Performance Bond and Labor and Material Payment Bond (originals);
 - 2) Certificate of Insurance (original) with endorsements to City of Mobile;
 - 3) Evidence of enrollment in the E-Verify program.
 - 4) Other documentation as required by the Contract Documents.

- C. Failure or refusal to sign the Agreement or to provide Certificates of Insurance in a form satisfactory to the City of Mobile, E-Verify verification, or other required documentation, shall subject the Bidder to immediate forfeiture of Bid Security.
- D. On all documents: City of Mobile Business License, the Alabama Secretary of State Business Identity, the Alabama Secretary of State Certificate of Authority (out of state contractors), E-verify documentation, and ACORD Insurance Form, the Contractor's name shall be EXACTLY the same.

11. NONDISCRIMINATION:

- A. Contractor shall comply with all Federal, State and local laws concerning nondiscrimination, including but not limited to City of Mobile Ordinance No. 14-034 which requires, inter alia, that all contractors performing work for the City of Mobile not discriminate on the basis of race, creed, color, national origin or disability, require that all subcontractors they engage do the same, and make every reasonable effort to assure that fifteen percent of the work performed under contract be awarded to socially and economically disadvantaged individuals and business entities.

12. AMERICANS WITH DISABILITIES ACT (ADA):

- A. Bidders shall comply with the provisions of the Americans with Disabilities Act (ADA) of 1990 which prohibits discrimination against individuals with disabilities.

13. USE OF DOMESTIC PRODUCTS:

- A. Section 39-3-1, Alabama Code, 1975, provides that the Contractor agree, in the execution of this Contract, to use materials, supplies and products manufactured, mined, processed or otherwise produced in the United States or its territories, if available at reasonable prices, and that breach of this Agreement by the Contractor shall result in the assessment of liquidated damages in an amount not less than \$500.00 nor more than twenty (20) percent of gross amount of the Contract Price.

14. NON-RESIDENT (OUT OF STATE) CONTRACTORS:

- A. Preference to Resident Contractors: Section 39-3-5, Code of Alabama, 1975, provides that a non-resident (out of State) bidder domiciled in a state which grants a preference to local Contractors is to be awarded a public contract on the same basis as the non-resident bidder's state awards contracts to Alabama bidders. Alabama bidders are given a preference to the same extent that a non-resident bidder receives a preference in his home state. A non-resident bidder must include with any written bid documents a written opinion of an attorney licensed to practice in the non-resident bidder's state declaring what preferences, if any, exists in the non-resident's state.
- B. Certificate of Authority: All non-resident (out of State) corporations must register with the Secretary of State and obtain a Certificate of Authority before doing business in the State of Alabama. Out of state Bidders should register and secure the required Certificate before submitting a Bid. The account number shall be included on the Bid Form.

15. ALABAMA IMMIGRATION ACT:

- A. The State of Alabama Immigration Law (Act No. 2011-535 as amended by Act No. 2012-491), requires that Contractors not violate federal immigration law or

knowingly employ, hire for employment, or continue to employ an unauthorized alien within the State of Alabama. In addition, Contractors are required to enroll in the federal E-Verify program and submit verification of enrollment to the City of Mobile within ten (10) days of receiving the contract forms (see Section 00600).

16. CITY OF MOBILE BUSINESS LICENSE:

- A. A City of Mobile Business License is required and must be current at time of contract award and throughout contract period.

17. CITY OF MOBILE CONTRACTOR'S BUSINESS LICENSE:

- A. A City of Mobile Contractor's Business License is required and must be current at time of contract award and throughout contract period.

- B. Contractor must qualify and post a \$10,000 surety bond with the Land Use/Code Administration Department before a Contractor's Business License will be issued by the Revenue Department. Information on the City Contractor's License may be obtained by writing or calling:

Land Use/Code Administration
P.O. Box 1827
Mobile, Alabama 36633-1827
Phone: 251-208-7421

Revenue Department
P.O. Box 1827
Mobile, Alabama 36633-1827
Phone: 251-208-7461

18. CITY OF MOBILE BUILDING PERMIT:

- A. A City of Mobile Building Permit is required and shall be obtained from the Land Use/Code Administration Department, but at no cost to the Contractor.
- B. Contractor is responsible for ensuring that all inspections are successfully performed in accordance with City of Mobile regulations.

19. CONSTRUCTION SCHEDULE AND ACCESS:

- A. The project shall be completed within two-hundred and forty (240) calendar days from the date indicated by the Notice to Proceed.
- B. The PARK will remain in use throughout the Construction period and the Contractor is directed to coordinate all areas of work and scheduling of work with the Owner. Within five days of the bid opening, the Apparent Low Bidder Contractor shall meet with the Owner to discuss Owner scheduling and priorities. Apparent Low Bidder shall then provide a proposed schedule within 5 calendar days of the initial meeting for Owner review and approval.
- C. Contractor shall have access to Medal of Honor Park as approved by the Owner, but typically **Monday through Friday from 6:00 A.M. to 6:00 P.M.** Contractor is directed to coordinate all areas of work and scheduling with the Owner. After hours and weekend work will require prior approval of the City of Mobile.
- D. The Contractor may be allowed additional construction days due to inclement conditions ("rain days") only as such are appropriately documented and are in excess of the NOAA/National Weather Service average (previous 5 years) for the given month. A "rain day" is defined as more than a "trace" (0.10") of rain falling

within a given 24 hour period. The Contractor shall provide documentation and formally request any "rain days" they feel are legitimately due. Documentation shall be submitted to the Project Manager, in writing, within ten (10) calendar days of the rain event.

20. SITE CONSIDERATIONS:

- A. It is the Contractor's responsibility to carefully remove and store any items not permanently installed within the work areas. It is recommended that the Contractor photograph, videotape or in some manner document any features to be removed and their condition, prior to removal.
- B. Noise and strong smells shall be isolated or kept to a minimum when adjacent portions of the site are occupied.
- C. Contractor shall be responsible to leave the work area and adjacent site clear of equipment and debris, etc. at the end of each work day. All final cleaning is the responsibility of the Contractor and shall be executed prior to acceptance for reuse of any portion of the site.
- D. A dumpster and lay down area for Contractor materials and staging may be located at the site and located per the direction of the Owner. The Contractor is responsible for the removal of the dumpster, any storage containers and any security fencing, temporary erosion control (BMPs), etc. as soon as practical after their use by the Contractor or the work is complete.

21. SALES AND USE TAX EXEMPTION:

- A. As per the State of Alabama ACT 2013-205, the Alabama Department of Revenue (ADOR) has been granted the authority to issue a "Certificate of Exemption from Sales and Use Tax for Governmental Entities" on construction projects. Therefore, this project shall qualify for State of Alabama Sales and Use Tax Exemptions under this ACT. It is the responsibility of the Bidder to confirm the potential tax exempt status of their bid with the ADOR and include any such savings in their bid, as well as accounting for same on their bid form attachment Sales Tax Form C-3A.
- B. The full text of ACT 2013-205 is available on the State of Alabama Building Commission web-site at www.bc.alabama.gov.

22. SUBMISSION OF LIEN WAIVERS AND DBE COMPLIANCE, UTILIZATION REPORTS:

- A. At each monthly Application for Payment submitted to the owner, the Contractor shall provide completed "City of Mobile DBE Compliance, Utilization Reports" and lien waivers, including those from Subcontractors and material suppliers.

23. NOTICE OF COMPLETION:

- A. For Contracts \$50,000 or greater:

Contractor shall provide proof of publication of Advertisement of Completion for four consecutive weeks in a local newspaper, as required in the Title 39, Section 39-1-1, Subsection (f), of the Code of Alabama. This Advertisement shall not begin until the Project has been accepted by the City of Mobile.

- B. Notice of Completion advertisement shall read as follows:

STATE OF ALABAMA

COUNTY OF MOBILE

NOTICE OF COMPLETION

In accordance with Chapter 1, Title 39, Code of Alabama, 1975, NOTICE IS HEREBY given that (COMPANY NAME) has completed the contract for City of Mobile, Medal of Honor Park – Site and Lighting Improvements, PR-001-23, 1711 Hillcrest Road, Mobile, Alabama 36609. All persons having any claims for labor, material or otherwise in connection with this project should immediately notify the Architectural Engineering Department, City of Mobile, P.O. Box 1827, Mobile, Alabama 36633-1827.

- C. Advertisement shall not begin until the Project has been accepted by the City of Mobile as Substantially Complete.

24. CONTRACTOR WARRANTY AND CERTIFICATION:

- A. Upon completion of the contract, the Contractor shall certify under oath that all bills have been paid in full.
- B. Contractor shall provide a one year Labor and Materials Warranty on company letterhead in addition to other warranties required by the Bid Documents.

25. LIQUIDATED DAMAGES

- A. A time charge equal to Two Hundred Fifty Dollars (\$250.00) per calendar day will be made against the Contractor for the entire period that any part of the Work remains uncompleted, or any required closeout documents are not acceptably submitted, for more than thirty (30) calendar days after the time specified for the Substantial Completion for the Work, the amount of which shall be deducted by the owner, and shall be retained by the Owner out of monies otherwise due the Contractor in the final payment, not as a penalty, but as liquidated damages sustained.

END OF SECTION 00300

SECTION 00400
BID FORM

Copies of the following Bid Forms shall be used. Bids submitted on alternate forms may be rejected. Fill in all blank spaces with an appropriate entry. Bid Form must be signed by an officer of the company and notarized.

TO: City of Mobile, 205 Government St., P.O. Box 1827, Mobile, AL, 36633

REF: PROJECT NO.: PR-001-23
PROJECT NAME: Medal of Honor Park – Site and Lighting Improvements
PROJECT LOCATION: 1711 Hillcrest Road, Mobile, Alabama, 36609

In compliance with the Bid Documents and having carefully and thoroughly examined said documents for the subject Work prepared by the City of Mobile, Architectural Engineering Department and Kimley-Horn and Associates, Inc., dated March 25, 2024; and all Addendum (a) Number(s) _____, dated _____, 2024 (**CAUTION:** before submitting any bid it is the Bidder's responsibility to check with the Architectural Engineering Department for all Addenda or special instructions that may impact the Bid) thereto, receipt of which is hereby acknowledged, the premises and all conditions affecting the Work prior to making this Proposal, the Undersigned Bidder, hereby

COMPANY NAME: _____

ADDRESS: _____ **PHONE** _____

ALABAMA GENERAL CONTRACTOR LICENSE NO. _____

CITY OF MOBILE BUSINESS LICENSE NO. _____

SECRETARY OF STATE OF ALABAMA BUSINESS IDENTITY NO. _____

SECRETARY OF STATE OF ALABAMA ACCOUNT NO. _____

(Note: Secretary of State Account Number shall be filled in only by non-resident bidders)

(Check one) A Corporation A Partnership An Individual Doing Business

hereby proposes to furnish all labor, materials, tools, equipment, and supplies and to sustain all the expenses incurred in performing the Work on the above captioned Project in accordance with the terms of the Contract Documents, and all applicable laws and regulations for the sum listed below. The initial term of the Contract shall extend for two hundred forty (240) calendar days from the date of the Notice to Proceed.

BASE BID ITEMS					
ITEM	DESCRIPTION	ESTIMATED QUANTITY		UNIT PRICE	BID AMOUNT
1	MOBILIZATION	1	LS		
2	DEMOLITION	1	LS		
3	SILT FENCE	2,525	LF		
4	EROSION CONTROL PRODUCT, (WATTLES)	28	EA		
5	CLEARING AND GRUBBING	1	LS		
6	UNCLASSIFIED EXCAVATION	275	CY (TBM)		
7	BORROW EXCAVATION	1,750	CY (TBM)		
8	6" CRUSHED AGGREGATE BASE COURSE	800	SY		
9	CONCRETE SIDEWALK, 4" THICK	1,800	SY		
10	CONCRETE STAIR	1	EA		
11	TRUNCATED DOMES	22	EA		
12	PAVEWAY SYSTEMS CROSSWALKS	1	LS		
13	COMBINATION CURB & GUTTER, TYPE M-1	550	LF		
14	6" CONCRETE CURB, TYPE A	4,400	LF		
15	PLANING EXISTING PAVEMENT (APPROXIMATELY 0.00" THRU 2.0" THICK)	2,350	SY		
16	424-A 165 LB/SY SUPERPAVE BITUMINOUS CONCRETE WEARING SURFACE LAYER 1/2" MAX. AGG. SIZE MIX, ESAL RANGE B	360	TN		
17	424-B 220 LB/SY SUPERPAVE BITUMINOUS CONCRETE BINDER LAYER 3/8" MAX. AGG. SIZE MIX, ESAL RANGE B	100	TN		
18	MICRO-SURFACING SEAL COAT, TYPE II	21,250	SY		
19	SOLID WHITE, CLASS 2, TYPE A TRAFFIC STRIPE (5" WIDE)	9,100	LF		
20	SOLID BLUE, CLASS 2, TYPE A TRAFFIC STRIPE (5" WIDE)	450	LF		
21	SOLID YELLOW, CLASS 2 TYPE A TRAFFIC STRIPE (5"WIDE)	250	LF		
22	PAVEMENT MARKINGS (STOP BAR AND CROSSWALK STRIPING)	1,125	SF		
23	HANDICAP PAVEMENT MARKINGS	2,250	SF		
24	SINGLE WING S-INLET	2	EA		
25	18" RCP	32	LF		
26	TOPSOIL	3,100	CY		
27	SOLID SODDING (TIFWAY 419 BERMUDA)	14,900	SY		
28	SEEDING	1	AC		
29	ROADWAY SIGNAGE	1	LS		
30	LANDSCAPE	1	LS		
31	IRRIGATION	1	LS		
32	TRAFFIC CONTROL	1	LS		
33	ELECTRICAL (LIGHTING INSTALLATION)	1	LS		
34	CONCRETE FLUME WITH TREAD PLATE COVER	4	EA		
35	CONTINGENCY	1	LS	\$ 50,000	\$ 50,000
TOTAL BASE BID AMOUNT:					

ADDITIVE BID ITEMS					
ITEM	DESCRIPTION	ESTIMATED QUANTITY		UNIT PRICE	BID AMOUNT
A-1	AMPHITHEATER IMPROVEMENTS				
A-1.1	SILT FENCE (AMPITHEATER)	725	LF		
A-1.2	EROSION CONTROL PRODUCT, (WATTLES)	3	EA		
A-1.3	UNCLASSIFIED EXCAVATION	575	CY (TBM)		
A-1.4	BORROW EXCAVATION	200	CY (TBM)		
A-1.5	CONCRETE SIDEWALK, 4" THICK	170	SY		
A-1.6	TOPSOIL	630	CY		
A-1.7	SOLID SOD (TIFWAY 419 BERMUDA)	5,400	SY		
A-1.8	ADA ARCHITECTURAL IMPROVEMENTS	1	LS		
A-1.9	IRRIGATION	1	LS		
A-1.10	ELECTRICAL	1	LS		
A-1 TOTAL ADDITIVE BID AMOUNT:					
A-2	SOFTBALL FIELD DRAINAGE AND LANDSCAPE IMPROVEMENTS				
A-2.1	SILT FENCE	150	LF		
A-2.2	EROSION CONTROL PRODUCT, (WATTLES)	11	EA		
A-2.3	DRAINAGE IMPROVEMENTS	1	LS		
A-2.4	CONCRETE SIDEWALK	50	SY		
A-2.5	CONCRETE STAIR	1	EA		
A-2.6	TOPSOIL, 4" DEPTH	70	CY		
A-2.7	SOLID SOD, (TIFWAY 419 BERMUDA)	400	SY		
A-2.8	LANDSCAPE	1	LS		
A-2 TOTAL ADDITIVE BID AMOUNT:					
A-3	PICKLEBALL COURT	1	LS		
A-3 TOTAL ADDITIVE BID AMOUNT:					
A-4	TENNIS COURT FENCING IMPROVEMENTS	1	LS		
A-4 TOTAL ADDITIVE BID AMOUNT:					

(Note: In case of error in the extension of prices, the unit price will govern). **Bids shall be provided in whole dollar amount with no cents.**

PARK SITE AND LIGHTING IMPROVEMENTS CONTINGENCY ALLOWANCE:
\$50,000.00 lump sum Contingency Allowance shall be included in the Total Base Bid for work related to unforeseen conditions as approved by the Owner.

BID SECURITY: The undersigned Bidder agrees that the attached Bid Security, as a Cashier's Check drawn on a bank registered to do business in the State of Alabama and which is a member of the Federal Deposit Insurance Corporation, or a Bid Bond, made payable to the City of Mobile, in the amount of 5% of the bid amount, but in no event more than \$10,000, as the proper measure of liquidated damages which the City will sustain by the failure of the undersigned to execute the Contract. Said Bid Security shall become the property of the City of Mobile as liquidated damages as specified in the Contract Documents.

AMERICANS WITH DISABILITIES ACT (ADA): The undersigned Bidder agrees to fully comply with all requirements of the Americans with Disabilities Act of 1990 and the Amendment Act.

NONDISCRIMINATION: Contractor shall comply with all Federal, State and local laws concerning nondiscrimination, including but not limited to City of Mobile Ordinance No. 14-034 which requires, *inter alia*, that all contractors performing work for the City of Mobile not discriminate on the basis of race, creed, color, national origin or disability, require that all subcontractors they engage do the same, and make every reasonable effort to assure that fifteen percent of the work performed under contract be awarded to socially and economically disadvantaged individuals and business entities.

SIGNATURE: If the undersigned Bidder is incorporated, the entire legal title of the company followed by "a corporation" should be used. If Bidder is an individual, then that individual's full legal name followed by doing business as (d/b/a) and name of firm, if any, should be used. If Bidder is a partnership, then full name of each partner should be listed followed by "d/b/a" and name of firm, if any.

Ensure that name and exact arrangement thereof is the same on all forms submitted with this Bid. If a word is abbreviated in the official company name, such as "Co.", then use that abbreviation. If not abbreviated in the official name, spell out.

Bidder agrees not to revoke or withdraw this Bid until sixty (60) calendar days following the time and date for receipt of bids. If notified in writing of the acceptance of this Bid within this time period, Bidder agrees to execute a Contract based on this Bid on the proscribed form within ten (10) calendar days of said notification and to furnish Performance Bond and Materials and Payment Bond as specified.

COMPANY NAME: _____
(Printed or Typed)

BY: _____
(Signature of Company Officer)

COMPANY OFFICER: _____
(Printed or Typed)

TITLE _____ **DATE** _____, 2024
(Printed or Typed)

Sworn to and subscribed before me this _____ day of _____ 2024

Notary Public

- Attachments: 1. Bid Security, with Power of Attorney
2. Secretary of State Authorization (Out of state bidders only)
3. Sales Tax Form C-3A
4. Supplier Diversity Subcontracting & Major Supplier Plan

END OF SECTION 00400

**ACCOUNTING OF SALES TAX
ATTACHMENT TO BID FORM SECTION 00400
SALES TAX FORM C-3A**

To: City of Mobile

Date: _____

Name of Project: MEDAL OF HONOR PARK – SITE AND LIGHTING IMPROVEMENTS
Project Number: PR-001-23

SALES TAX ACCOUNTING

Pursuant to Act 2013-205, Section 1(g) the Contractor accounts for the sales tax NOT included in the bid proposal form as follows:

ESTIMATED SALES TAX AMOUNT

PARK SITE & LIGHTING IMPROVEMENTS BASE BID: \$ _____

ADD ALT. #1: AMPHITHEATER IMPROVEMENTS \$ _____

**ADD ALT. #2: SOFTBALL FIELD DRAINAGE AND
LANDSCAPE IMPROVEMENTS** \$ _____

ADD ALT. #3: PICKLEBALL COURT \$ _____

ADD ALT. #4: TENNIS COURT FENCING \$ _____

Failure to provide an accounting of sales tax shall render the bid non-responsive. Other than determining responsiveness, sales tax accounting shall not affect the bid pricing nor be considered in the determination of the lowest responsible and responsive bidder.

Legal Name of Bidder _____

Mailing Address _____

*By (Legal Signature) _____

*Name (type or print) _____ (Seal)

*Title _____

Telephone Number _____



OFFICE OF SUPPLIER DIVERSITY
CITY OF MOBILE
Subcontracting and Major Supplier Plan

Contact Office of Supplier Diversity for
questions on completing this form.
Via email: Archnique.kidd@cityofmobile.org
251.208.7967
205 Government Street, 5th Floor

Bidders and Proposers – Please complete and submit these forms as required by your City of Mobile Bid or Proposal Specification.

If you are submitting a proposal in response to a Request for Qualifications, Request for Proposal, or other solicitation (“Solicitations”) issued by the City of Mobile, the bid specification may require you to utilize disadvantaged business enterprise (“DBE”) subcontractors and suppliers. If DBE participation is required, you must complete and submit these forms with your proposal. If required, failure to submit this form will render your bid non-responsive. NOTE: To satisfy participation requirements for a federally funded project, you must utilize DBEs certified through the Alabama Unified Certification Program.

If DBE participation is required, and you fail to satisfy the participation requirement, you must show that you made a good faith effort to include such participation; you will be required to submit DBE Compliance Form 2 and include additional information if needed. When so required, failure to address adequately the good faith effort factors on Form 2 will render your bid or proposal non-responsive. The “good faith effort” factors on Form 2 are not intended to be a mandatory, exhaustive, or exclusive.

You are encouraged to work with the City of Mobile Supplier Diversity Manager when preparing this form. Please consult with the City Supplier Diversity Manager for a list of eligible DBEs. The “good faith effort” factors on **Form 2** are not intended to be mandatory, exhaustive, or exclusive; they are a tool to help you, and the City of Mobile, determine whether you made efforts which, by their scope, intensity, and appropriateness to the objective, would reasonably be expected to fulfill the participation requirement.

About “**DBEs**”: Disadvantaged business enterprise or DBE means a for-profit small business concern (1) That is at least 51 percent owned by one or more individuals who are both socially and economically disadvantaged or, in the case of a corporation, in which 51 percent of the stock is owned by one or more such individuals; and (2) whose management and daily business operations are controlled by one or more of the socially and economically disadvantaged individuals who own it.

About “**Good Faith**” **Effort**: Good faith efforts means efforts to achieve a DBE goal or other requirement of this part which, by their scope, intensity, and appropriateness to the objective, can reasonably be expected to fulfill the program requirement. The City of Mobile expects contractors holding large contracts to recruit and engage DBEs to be a part of their team.

Failure to submit this form, when so required by the bid or proposal specification, will render your bid non-responsive.



OFFICE OF SUPPLIER DIVERSITY
CITY OF MOBILE
Subcontracting and Major Supplier Plan

Contact Office of Supplier Diversity for
questions on completing this form.
Via email: Archnique.kidd@cityofmobile.org
251.208.7967
205 Government Street, 5th Floor

FORM 1: Background and Plan

Section I. Information about your company

Company	
Address	
Telephone	
E-Mail	

RFP/RFQ Solicitation Number	
Project Description	
Is your company a DBE company?	Yes <input type="checkbox"/> No <input type="checkbox"/>
Work force demographics	Male _____ Female _____ Minority _____ Non-minority _____ SDVO _____ Total #of Employees _____

Subcontractor/Major Supplier Plan submitted by:

Printed Name: _____

Signature: _____ Date: _____

Title: _____

The following employee will be designated as the **DBE Liaison** for all communication regarding DBE participation including documentation for DBE participation and maintenance of records of Good Faith Efforts for this contract award:

Name: _____ Title: _____

Email: _____ Phone: _____



OFFICE OF SUPPLIER DIVERSITY
CITY OF MOBILE
 Subcontracting and Major Supplier Plan

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 Via email: Archnique.kidd@cityofmobile.org
 251.208.7967
 205 Government Street, 5th Floor

FORM 1: Background and Plan (Cont'd)

Section II. Subcontractors/Major Vendors Supplier Plan submitted by:

Please Print Company _____ Your Bid/Proposal Amount \$ _____ Date: _____
 _____/_____/_____ Description _____
 Name of Bidder/Proposer: _____

I intend to use the following subcontractors: (Attach additional pages if necessary)

Subcontractor or Major Supplier	Phone	Scope of Work to be performed	\$\$ Value to be Performed	% Of Your Bid Amount	DBE?	Official Verification Only



OFFICE OF SUPPLIER DIVERSITY
CITY OF MOBILE
 Subcontracting and Major Supplier Plan

Form 2: Good Faith Effort Documentation

Name of Bidder: _____

Contact Person: _____ Phone _____ Email _____

Please complete this form if you are unable to identify DBE subcontractors or suppliers to reach 15% of the value of your bid.

YES <input type="checkbox"/>	NO <input type="checkbox"/>	Did you do these suggested areas for DBE recruitment and engagement
		PRE-BID MEETING(S): The bidder attended all pre-bid meetings scheduled by the City to inform DBEs of contracting and subcontracting opportunities.
		CMDBE/ALDOT DBE LIST(S): The bidder utilized the Office of Supplier Diversity's list or lists of certified through the Alabama Department of Transportation UCP DBE Listing
		SMALL CONTRACT(S): The bidder selected specific portions of the work to be performed by DBEs in order to increase the likelihood of meeting the DBE goals (including breaking down contracts into smaller units to facilitate DBE participation). Consider support services, including insurance, accounting, temporary labor, and transportation, landscaping, and janitorial as potential areas for DBE use.
		FOLLOW-UP: The bidder followed-up initial indications of interest by DBEs by contacting those DBEs to determine with certainty if they remained interested in bidding.
		GOOD FAITH NEGOTIATIONS: The bidder negotiated in good faith with interested DBEs and did not reject DBEs as unqualified without sound business reasons based on a thorough investigation of their capabilities. Bidders are not expected to engage unqualified subcontractors or subcontractors whose pricing, after negotiation, remains excessive or unreasonable. (Please document qualification deficiencies or unreasonable pricing if it prevented your engagement of specific DBE subcontractors.)
		ADVERTISEMENT: The bidder advertised in general circulation and/or trade association publications concerning subcontracting opportunities and allowed DBEs reasonable time to respond.
		INTERNET ADVERTISING: The bidder advertised DBE and/or subcontracting opportunities in the newspaper or other internet portals that are accessible to DBEs and/or potential subcontractors.



OFFICE OF SUPPLIER DIVERSITY
CITY OF MOBILE
Subcontracting and Major Supplier Plan

		INFORMATION: The bidder provided interested DBEs with adequate information about the plans, specifications and requirements of the subcontract.
		WRITTEN NOTICE(S): The bidder/proposer took the necessary steps to provide written notice in a manner reasonably calculated to inform DBEs of subcontracting opportunities and allowed sufficient time for them to participate effectively.
		COMMUNITY RESOURCES: The bidder/proposer used the services of available community organizations, small and/or disadvantaged business assistance offices and other organizations that provided assistance in the recruitment and placement of DBE firms.

CONTRACT RECORDS:

The bidder/proposer has maintained the following records for each DBE that has bid on the subcontracting opportunity:

1. Name, address, email address and telephone number
2. A description of information provided by the bidder/proposer or subcontractor; and
3. A statement of whether an agreement was reached, and if not, why not, including any reasons for concluding that the DBE was unqualified to perform the job.

Section 2(B)

_____ There are not ways to break out 15% of the value of this contract for subcontractors / suppliers. Provide further detail in Section 2(c) if the inability to break-out 15% of the value of the contract was the reason, or a reason, you could not meet the participation requirements.

_____ Could not find sufficient DBEs to provide subcontracting or supplier services.

_____ DBEs were available but did not have sufficient qualifications or experience to meet the needs of this contract.

Please indicate additional efforts you have taken to recruit and engage DBEs. _____

SECTION 00500
AGREEMENT BETWEEN OWNER AND CONTRACTOR
FOR A STIPULATED SUM

PART 1 - GENERAL

1.1 SUMMARY

- A. This Section includes the AGREEMENT BETWEEN OWNER AND CONTRACTOR FOR A STIPULATED SUM, AIA DOCUMENT A101 to be utilized with the Owner's most recent modifications and which shall be used in conjunction with the entire Bid Documents.



AIA® Document A101® – 2017

Standard Form of Agreement Between Owner and Contractor where the basis of payment is a Stipulated Sum

AGREEMENT made as of the day of in the year
(In words, indicate day, month and year.)

BETWEEN the Owner:
(Name, legal status, address and other information)

City of Mobile
P.O. Box 1827
Mobile, Alabama 36633-1827

and the Contractor:
(Name, legal status, address and other information)

City of Mobile Business License Number:
Secretary of State Registration Number:

for the following Project:
(Name, location and detailed description)

Medal Of Honor Park - Site And Lighting Improvements
1711 Hillcrest Road
Mobile, Alabama 36609
PR-001-23

Medal of Honor Park Site and Lighting improvements includes, but is not limited to, roadway & parking realignment, sports field grading and stabilization, amphitheater grading and stabilization, amphitheater ADA improvements, landscaping, irrigation, and drainage improvements

The Architect:
(Name, legal status, address and other information)

Kimley-Horn and Associates, Inc.
11 North Water Street, Suite 9290
Mobile, Alabama 36602

Architectural Engineering Department
P.O. Box 1827
Mobile, Alabama 36633-182702

The Owner and Contractor agree as follows.

ADDITIONS AND DELETIONS:

The author of this document has added information needed for its completion. The author may also have revised the text of the original AIA standard form. An *Additions and Deletions Report* that notes added information as well as revisions to the standard form text is available from the author and should be reviewed. A vertical line in the left margin of this document indicates where the author has added necessary information and where the author has added to or deleted from the original AIA text.

This document has important legal consequences. Consultation with an attorney is encouraged with respect to its completion or modification.

The parties should complete A101®–2017, Exhibit A, Insurance and Bonds, contemporaneously with this Agreement. AIA Document A201®–2017, General Conditions of the Contract for Construction, is adopted in this document by reference. Do not use with other general conditions unless this document is modified.

Init.

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User Notes:

(845838671)

TABLE OF ARTICLES

1	THE CONTRACT DOCUMENTS
2	THE WORK OF THIS CONTRACT
3	DATE OF COMMENCEMENT AND SUBSTANTIAL COMPLETION
4	CONTRACT SUM
5	PAYMENTS
6	DISPUTE RESOLUTION
7	TERMINATION OR SUSPENSION
8	MISCELLANEOUS PROVISIONS
9	ENUMERATION OF CONTRACT DOCUMENTS, INSURANCE AND BONDS

ARTICLE 1 THE CONTRACT DOCUMENTS

The Contract Documents consist of this Agreement, Conditions of the Contract (General, Supplementary, and other Conditions), Drawings, Specifications, Addenda issued prior to execution of this Agreement, other documents listed in this Agreement, and Modifications issued after execution of this Agreement, all of which form the Contract, and are as fully a part of the Contract as if attached to this Agreement or repeated herein. The Contract represents the entire and integrated agreement between the parties hereto and supersedes prior negotiations, representations, or agreements, either written or oral. An enumeration of the Contract Documents, other than a Modification, appears in Article 9.

ARTICLE 2 THE WORK OF THIS CONTRACT

The Contractor shall fully execute the Work described in the Contract Documents, except as specifically indicated in the Contract Documents to be the responsibility of others.

ARTICLE 3 DATE OF COMMENCEMENT AND SUBSTANTIAL COMPLETION

§ 3.1 The date of commencement of the Work shall be:

(Check one of the following boxes.)

A date set forth in a notice to proceed issued by the Owner.
(Paragraphs deleted)

§ 3.2 The Contract Time shall be measured from the date of commencement of the Work.

§ 3.3 Substantial Completion

§ 3.3.1 Subject to adjustments of the Contract Time as provided in the Contract Documents, the Contractor shall achieve Substantial Completion of the entire Work:

(Check one of the following boxes and complete the necessary information.)

Not later than Two Hundred Forty (240) calendar days from the date of the Notice to Proceed for commencement of the Work.

§ 3.3.2 If the Contractor fails to achieve Substantial Completion as provided in this Section 3.3, liquidated damages, if any, shall be assessed as set forth in Section 4.5.

(Table deleted)

(Paragraph deleted)

ARTICLE 4 CONTRACT SUM

§ 4.1 The Owner shall pay the Contractor the Contract Sum in current funds for the Contractor’s performance of the Contract. The Contract Sum shall be and 00/100 (\$), subject to additions and deductions as provided in the Contract Documents.

Base Bid:

Contingency Allowance: \$50,000.00

Total Bid:

Alternate 1 Amphitheater Improvements :

Alternate 2 Softball Field Drainage And Landscape Improvements :

Alternate 3 Pickleball Court:

Alternate 4 Tennis Court Fencing Improvements :

Total Contract Sum:

§ 4.2 Alternates

§ 4.2.1 Alternates, if any, included in the Contract Sum:

Item	Price
Alternate 1 Amphitheater Improvements	
Alternate 2 Softball Field Drainage And Landscape Improvements	
Alternate 3 Pickleball Court	
Alternate 4 Tennis Court Fencing Improvements	

(Table deleted)

(Paragraphs deleted)

§ 4.3 Allowances, if any, included in the Contract Sum:

(Identify each allowance.)

Contingency Allowance: Fifty Thousand and 00/100 (\$50,000.00)

- A. Contingency Allowance shall cover cost of material, labor, overhead, profit and other expenses for complete installation of items of additional work as required for a complete, functional project.
- B. Contingency Allowance shall be used for unforeseen conditions not covered in the construction documents.
- C. All extra work under this section must be authorized by the Owner, in writing, prior to materials or *(Table deleted)* undertaking work.
- D. Upon completion of the Work, the unused portion of the Allowance shall be credited back to the Owner in the form of a Change Order.
- E. Allowances are subject to the same provision of AIA 201 Article 7.3.7.

§ 4.4 Unit prices, if any:

(Identify the item and state the unit price and quantity limitations, if any, to which the unit price will be applicable.)

Item	Units and Limitations	Price per Unit (\$0.00)
MOBILIZATION	1 LS	
DEMOLITION	1 LS	
SILT FENCE	2,525 LF	
EROSION CONTROL PRODUCT, (WATTLES)	28 EA	
CLEARING AND GRUBBING	1 LS	
UNCLASSIFIED EXCAVATION	275 CY (TBM)	
BORROW EXCAVATION	1,750 CY (TBM)	
6" CRUSHED AGGREGATE BASE COURSE	800 SY	

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User Notes:

CONCRETE SIDEWALK, 4" THICK	
CONCRETE STAIR	1,800 SY
TRUNCATED DOMES	1 EA
PAVEWAY SYSTEMS CROSSWALKS	22 EA
COMBINATION CURB & GUTTER, TYPE M-1	1 LS 550 LF
6" CONCRETE CURB, TYPE A	
PLANING EXISTING PAVEMENT (APPROXIMATELY 0.00" THRU 2.0" THICK)	4,400 LF 2,350 SY
424-A 165 LB/SY SUPERPAVE BITUMINOUS CONCRETE WEARING SURFACE LAYER 1/2" MAX. AGG. SIZE MIX, ESAL RANGE B	360 TN
424-B 220 LB/SY SUPERPAVE BITUMINOUS CONCRETE BINDER LAYER 3/8" MAX. AGG. SIZE MIX, ESAL RANGE B	100 TN
MICRO-SURFACING SEAL COAT, TYPE II SOLID WHITE, CLASS 2, TYPE A TRAFFIC STRIPE (5" WIDE)	21,250 SY
SOLID BLUE, CLASS 2, TYPE A TRAFFIC STRIPE (5" WIDE)	9,100 LF
SOLID YELLOW, CLASS 2 TYPE A TRAFFIC STRIPE (5"WIDE)	450 LF
PAVEMENT MARKINGS (STOP BAR AND CROSSWALK STRIPING)	250 LF
HANDICAP PAVEMENT MARKINGS SINGLE WING S-INLET	1,125 SF
18" RCP	2,250 SF
TOPSOIL	2 EA
SOLID SODDING (TIFWAY 419 BERMUDA)	32 LF 3,100 CY
SEEDING	14,900 SY
ROADWAY SIGNAGE	
LANDSCAPE	1 AC
IRRIGATION	1 LS
TRAFFIC CONTROL	1 LS
ELECTRICAL (LIGHTING INSTALLATION)	1 LS
CONCRETE FLUME WITH TREAD PLATE COVER	1 LS 4 EA
A-1 AMPHITHEATER IMPROVEMENTS	
A-1.1 SILT FENCE (AMPITHEATER)	
A-1.2 EROSION CONTROL PRODUCT, (WATTLES)	725 LF
A-1.3 UNCLASSIFIED EXCAVATION	3 EA
A-1.4 BORROW EXCAVATION	
A-1.5 CONCRETE SIDEWALK	575 CY (TBM)
A-1.6 TOPSOIL	200 CY (TBM)
A-1.7 SOLID SOD (TIFWAY 419 BERMUDA)	4" THICK 170 SY 630 CY
A-1.8 ADA ARCHITECTURAL IMPROVEMENTS	5,400 SY
A-1.9 IRRIGATION	1 LS
A-1.10 ELECTRICAL	

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A-2 SOFTBALL FIELD DRAINAGE AND LANDSCAPE IMPROVEMENTS	1 LS
A-2.1 SILT FENCE	1 LS
A-2.2 EROSION CONTROL PRODUCT, (WATTLES)	150 LF
A-2.3 DRAINAGE IMPROVEMENTS	11 EA
A-2.4 CONCRETE SIDEWALK	
A-2.5 CONCRETE STAIR	1 LS
A-2.6 TOPSOIL, 4" DEPTH	50 SY
A-2.7 SOLID SOD, (TIFWAY 419 BERMUDA)	1 EA 70 CY
A-2.8 LANDSCAPE	400 SY
A-3 PICKLEBALL COURT	
A-4 TENNIS COURT FENCING IMPROVEMENTS	1 LS 1 LS 1 LS

§ 4.5 Liquidated damages:

(Insert terms and conditions for liquidated damages, if any.)

A time charge equal to Two Hundred Fifty and 00/100 Dollars (\$250.00) per calendar day will be made against the Contractor for the entire period that any part of the Work remains uncompleted or any required closeouts documents are not acceptably submitted for more than thirty (30) days after the date specified for the substantial Completion of the Work, the amount of which shall be deducted by the owner, and shall be retained by the Owner out of monies otherwise due the Contractor in the final payment, not as a penalty, but as liquidated damages sustained.

(Paragraphs deleted)

ARTICLE 5 PAYMENTS

§ 5.1 Progress Payments

§ 5.1.1 Based upon Applications for Payment submitted to the Architect by the Contractor and Certificates for Payment issued by the Architect, the Owner shall make progress payments on account of the Contract Sum to the Contractor as provided below and elsewhere in the Contract Documents.

§ 5.1.2 The period covered by each Application for Payment shall be one calendar month ending on the 25th of the month.

§ 5.1.3 Provided that an Application for Payment in acceptable format is received by the Architect not later than the first 1st day of a month, the Owner shall make payment of the amount certified to the Contractor not later than the tenth 10th day of the following month. If an Application for Payment in acceptable format is received by the Architect after the application date fixed above, payment of the amount certified shall be made by the Owner not later than Forty (40) days after the Architect receives the Application for Payment.

(Federal, state or local laws may require payment within a certain period of time.)

§ 5.1.4 Each Application for Payment shall be based on the most recent schedule of values submitted by the Contractor in accordance with the Contract Documents. The schedule of values shall allocate the entire Contract Sum among the various portions of the Work. The schedule of values shall be prepared in such form, and supported by such data to substantiate its accuracy, as the Architect may require. This accepted schedule of values shall be used as a basis for reviewing the Contractor's Applications for Payment.

§ 5.1.5 Applications for Payment shall show the percentage of completion of each portion of the Work as of the end of the period covered by the Application for Payment.

§ 5.1.6 In accordance with AIA Document A201, General Conditions of the Contract for Construction (including Owner's then current Modifications), and subject to other provisions of the Contract Documents, the amount of each progress payment shall be computed as follows:

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§ 5.1.6.1 The amount of each progress payment shall first include:

- .1 That portion of the Contract Sum properly allocable to completed Work;
- .2 That portion of the Contract Sum properly allocable to materials and equipment delivered and suitably stored at the site for subsequent incorporation in the completed construction, or, if approved in advance by the Owner, suitably stored off the site at a location agreed upon in writing and insured as specified.
- .3 Completed work shall be determined by multiplying the percentage completion of each portion of the Work by the share of the Contract Sum allocated to that portion of the Work in the schedule of values.

§ 5.1.6.2 The amount of each progress payment shall then be reduced by:

- .1 The aggregate of any amounts previously paid by the Owner;
- .2 The amount, if any, for Work that remains uncorrected and for which the Architect has previously withheld a Certificate for Payment as provided in Article 9 of AIA Document A201–2017;
- .3 Any amount for which the Contractor does not intend to pay a Subcontractor or material supplier, unless the Work has been performed by others the Contractor intends to pay;
- .4 For Work performed or defects discovered since the last payment application, any amount for which the Architect may withhold payment, or nullify a Certificate of Payment in whole or in part, as provided in Article 9 of AIA Document A201–2017; and
- .5 Retainage withheld pursuant to Section 5.1.7.

§ 5.1.6.3 Any Progress Payment shall include partial release of liens for material and labor for previous application for payment amount approved and paid. The DBE Utilization Report shall be included with the pay application.

§ 5.1.7 Retainage

§ 5.1.7.1 For each progress payment made prior to Substantial Completion of the Work, the Owner may withhold the following amount, as retainage, from the payment otherwise due:

(Insert a percentage or amount to be withheld as retainage from each Application for Payment. The amount of retainage may be limited by governing law.)

Five percent (5%) of the first fifty percent (50%) of the completed work and after fifty percent (50%) completion has been accomplished, no further retainage shall be held from the original Contract Sum. Increases in the contract sum by Change Order shall also be subject to retainage.

§ 5.1.7.1.1 The following items are not subject to retainage:

(Insert any items not subject to the withholding of retainage, such as general conditions, insurance, etc.)

N/A

§ 5.1.7.2

(Paragraphs deleted)

Except as set forth in this Section 5.1.7.3, upon Substantial Completion of the Work, the Contractor may submit an Application for Payment that includes the retainage withheld from prior Applications for Payment pursuant to this Section 5.1.7. The Application for Payment submitted at Substantial Completion shall not include retainage as follows:

(Insert any other conditions for release of retainage upon Substantial Completion.)

The net amount of the Retainage shall be equal to two and one half percent (2.5%) of total Contract Sum, as increased or decreased by Change Order.

(Paragraphs deleted)

§ 5.1.8 If final completion of the Work is materially delayed through no fault of the Contractor, the Owner shall pay the Contractor any additional amounts in accordance with Article 9 of AIA Document A201–2017.

§ 5.1.9 Except with the Owner’s prior approval, the Contractor shall not make advance payments to suppliers for materials or equipment which have not been delivered and stored at the site.

§ 5.2 Final Payment

§ 5.2.1 Final monthly progress payment, constituting the entire unpaid balance of the Contract Sum, less retainage, shall be made by the Owner to the Contractor when

- .1 the Contractor has fully performed the Contract except for the Contractor’s responsibility to correct Work as provided in Article 12 of AIA Document A201 (including Owner’s then-current modifications which may be obtained from the Owner or, alternatively, a copy of which is incorporated in the Project Manual and incorporated by reference herein as a part thereof), and to satisfy other requirements, if any, which extend beyond final payment; and
- .2 a Certificate of Substantial Completion has been issued by the Architect/Owner and the project accepted.

§ 5.2.2 The Owner’s final payment to the Contractor of retainage shall be made as follows:

The final two and one half percent (2.5%) of the total Contract Sum retained will not be paid until proof of publication is submitted and all written claims paid in full. Contractor to submit the following:

- Contractor’s Affidavit of Payment of Debts and Claims (AIA form G706, included in contract documents) with
 - a.) Contractor’s Release or Waiver of Liens
 - b.) Releases or Waivers of Liens from Subcontractors and Material and Equipment Suppliers;
- Contractor’s Affidavit of Release of Liens (AIA form G706A, included in contract documents);
- Consent of Surety, if any, to final payment (AIA form G707, included in contract documents);
- Any additional close out requirements per the contract documents; and
- Notarized Affidavit of Notice of Completion advertisement from publisher.

Contractor shall provide proof of publication of Notice of Completion in a local newspaper once per week for four (4) consecutive weeks, as required in the Title 39, Section 39-1-1, Subsection (f), of the Code of Alabama quoted below. "The Contractor shall, immediately after the completion of the contract, give notice of Completion by an advertisement in a newspaper of general circulation published within the city or county in which the work has been done, for a period of four (4) consecutive weeks. A final settlement shall not be made upon the contract until the expiration of thirty (30) days after the completion of the notice. Proof of publication of the notice shall be made by the contractor to the authority by whom the contract was made by affidavit of the publisher and a printed copy of the notice published. If no newspaper is published in the county in which the work is done, the notice may be given by the contract." (Acts 1927, No. 39, 9.37; Acts 1935, No. 39, 9. 70; Code 1940, T. 50, Section 16; Acts 1983, No. 83-737, 9.1203; Acts 1989, No. 89-650m 9. 1284, Section 1; Acts 1994, No. 94-207, p, 270, Section 1; Acts 1997, No. 97-225, p. 348, Section 1.)

The Notice of Completion shall read as follows:

STATE OF ALABAMA
COUNTY OF MOBILE
NOTICE OF COMPLETION

In accordance with Chapter I, Title 39, Code of Alabama, 1975, NOTICE IS HEREBY given that <contractor name> has completed the contract for <contract number, contract name, contract address> All persons having any claims for labor, material or otherwise in connection with this project should immediately notify the Architectural Engineering Department, City of Mobile, P. O. Box 1827, Mobile, Alabama 36633-1827.

Publication of the Notice of Completion shall not begin until the Project has been accepted as Substantially Complete by the City of Mobile.

(Paragraphs deleted)

ARTICLE 6 DISPUTE RESOLUTION

§ 6.1 Initial Decision Maker

The Engineer will serve as the Initial Decision Maker pursuant to Article 15 of AIA Document A201, unless the parties appoint below another individual, not a party to this Agreement, to serve as the Initial Decision Maker.

Init.

(If the parties mutually agree, insert the name, address and other contact information of the Initial Decision Maker, if other than the Architect.)

N/A

§ 6.2 Binding Dispute Resolution

For any Claim, the method of binding dispute resolution shall be as follows:
(Check the appropriate box.)

Litigation in a court of competent jurisdiction

§ 6.3 Governing Law and Venue

(Paragraph deleted)

This Agreement shall be governed by the laws of the State of Alabama, and the appropriate venue of any actions arising out of this Agreement shall be a court of proper jurisdiction in Mobile, Alabama.

ARTICLE 7 TERMINATION OR SUSPENSION

§ 7.1 The Contract may be terminated by the Owner or the Contractor as provided in Article 14 of AIA Document A201, General Conditions of the Contract for Construction, including Owner’s then-current modifications, a copy of which is incorporated in the contract documents and incorporated by reference herein as a part thereof.

(Paragraphs deleted)

§ 7.2 The Work may be suspended by the Owner as provided in Article 14 of AIA Document A201, General Conditions of the Contract for Construction, including Owner’s then-current modifications, a copy of which is incorporated in the contract documents and incorporated by reference herein as a part thereof.

ARTICLE 8 MISCELLANEOUS PROVISIONS

§ 8.1 Where reference is made in this Agreement to a provision of AIA Document A201 or another Contract Document, the reference refers to that provision as amended or supplemented by other provisions of the Contract Documents. A copy of such amended, revised or supplemental provision is incorporated in the contract documents and hereby incorporated by reference herein as a part thereof.

§ 8.2 The Owner’s representative:
(Name, address, email address, and other information)

Director, REAM
P.O. Box 1827
Mobile, Alabama 36633-1827

§ 8.3 The Contractor’s representative:
(Name, address, email address, and other information)

name
address
email
other

§ 8.4 Neither the Owner’s nor the Contractor’s representative shall be changed without ten (10) days’ prior notice to the other party.

§ 8.5 Insurance and Bonds

§ 8.5.1 The Owner and the Contractor shall purchase and maintain insurance as set forth below:
The Contractor shall purchase and maintain from a company or companies lawfully authorized to do business in the jurisdiction in which the Project is located such insurance as will protect the Contractor from claims set forth below which may arise out of or result from the Contractor’s operations be by the Contractor or by a Subcontractor or by

anyone directly or indirectly employed by any of them, or by anyone for whose acts any of them may be liable:

- .1 Claims under workers' compensation, disability benefit and other similar employee benefit acts that are applicable to the Work to be performed;
- .2 Claims for damages because of bodily injury, occupational sickness or disease, or death of the Contractor's employees;
- .3 Claims for damages because of bodily injury, sickness or disease, or death of any person other than the Contractor's employees;
- .4 Claims for damages insured by usual personal injury liability coverage;
- .5 Claims for damages, because of injury to or destruction of tangible property, including loss of use resulting therefrom;
- .6 Claims for damages because of bodily injury, death of a person or property damage arising out of ownership, maintenance or use of a motor vehicle;
- .7 Claims for bodily injury or property damage arising out of completed operations; and
- .8 Claims involving contractual liability insurance applicable to the Contractor's obligations under Section 3.18 of the General Conditions of the Contract for Construction.

The Contractor shall take out and maintain during the life of the Contract no less than the following amounts of insurance with the City of Mobile named as an additional insured. Contractor shall submit a Certificate of Insurance. Insurance companies listed as the "Companies Affording Coverage" shall be authorized by the Secretary of the State of Alabama. Insurance produced out of the State of Alabama must be signed or counter signed by a licensed Agent of Alabama, with the Agent's name, address and telephone number typed or printed on the face of the Certificate of Insurance.

- .1 Workmen's Compensation Insurance: - Statutory-amount and coverage as required by all applicable laws, rules or regulations of the State of Alabama and the United States of America, Including the U. S. Longshore and Harbor Workers Act and the Jones Act, if applicable.
- .2 Employee's Liability Insurance shall be provided for limits of liability not less than:
 - A. Bodily Injury by Accident \$1,000,000 each accident
 - B. Bodily Injury by Disease \$1,000,000 each employee
 - C. Bodily Injury by Disease \$1,000,000 each policy
- .3 United States Longshoreman's Harbor Worker's Act.
- .4 Jones Act Coverage (if applicable) placed either in the Workers Compensation or through the Marine General Liability.
- .5 The Contractor shall provide Broad Form (commonly termed Comprehensive) General Liability Insurance (including premises-product-completed operations, independent contractors, and blanket contractual liability), specifically covering the obligations assumed by the Contractor for limits of liability not less than:
 - A. Bodily Injury \$1,000,000 each person
\$1,000,000 each occurrence
 - B. Property Damage \$1,000,000 each occurrence; or
 - C. Bodily Injury and Property Damage \$1,000,000 combined single limit
- .6 Such comprehensive policy shall include the following:
 - A. All liability of the Contractor, for the Contractor's Direct Operations.

Init.

- B. Subcontractor's Operations.
- C. Completed Operations Cover, thereby meaning any loss which shall occur after the contract has been completed, but which can be traced back to the Contract.
- D. General Aggregate Limit of \$2,000,000 shall apply on a "Per Project" Basis.
- E. Contractual Liability, meaning thereby; any risk assumed by the Contractor under Hold Harmless Agreements or any other assumption of liability, but specifically items 11.1.1.8.3G herein below
- F. Broad Form Property Damage Coverage, including Completed Operations.
- G. Personal Injury Liability, with employee's exclusions removed.
- H. Explosion and Collapse Hazard:

Included or	X Not Applicable.
-------------	-------------------
- I. Underground Hazard:

Included or	X Not Applicable.
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.7 The Contractor shall carry for himself and shall require that all Subcontractors and all Owners of Automobiles or trucks rented or hired on the contract carry, until the Contract is completed, Comprehensive Automobile Liability Coverage for Bodily Injury and property. Damage for any auto in amounts not less than the minimum amounts as indicated. The Contractor and Subcontractor shall also carry for themselves insurance for all non-owned and hired automobile at the limits of liability as indicated below:

- | | | |
|----|-----------------------------------|--|
| A. | Bodily Injury | \$1,000,000 each person
\$1,000,000 each occurrence |
| B. | Property damage | \$1,000,000 each occurrence; or, |
| C. | Bodily Injury and Property damage | \$1,000,000 combined single limit |

.8 Umbrella/Excess Liability: \$5,000,000 combined single limit each occurrence for bodily injury and/or property damage

.9 Builder's Risk Coverage (Property Insurance): The Contractor shall carry for the Owner, himself, and all Subcontractors a Builder's Risk Policy to cover the full amount of the Contract during construction, fabrication or erection of any equipment.

- A. The Contractor shall purchase and maintain, in a company or companies lawfully authorized to do business in the jurisdiction in which the Project is located, property insurance written on a builder's risk "all-risk" or equivalent policy form in the amount of the initial Contract Sum, plus value of subsequent Contract Modifications and cost of materials supplied or installed by others, comprising total value for the entire Project at the site on a replacement cost basis. Such property insurance shall be maintained, unless otherwise provided in the Contract Documents or otherwise agreed in writing by all persons and entities who are beneficiaries of such insurance, until final payment has been made as provided in Section 9.10 or until no person or entity other than the Owner has an insurable interest in the property, whichever is later. This insurance shall include interests of the Owner, the Contractor, Subcontractors, Sub-subcontractors, and the Design Professionals in the Project.
- B. Property insurance shall be on an "all-risk" or equivalent policy form and shall include, without limitation, insurance against the perils of fire (with extended coverage) and physical loss or damage including, without duplication of coverage, theft, vandalism, malicious mischief, collapse, windstorm, falsework, testing and startup, temporary buildings and debris removal including demolition occasioned by enforcement of any applicable legal requirements, and shall cover reasonable compensation for Architect's and Contractor's services and expenses required as a result of such insured loss.

- C. If the property insurance requires deductibles, the Contractor shall pay costs not covered because of such deductibles. Deductibles shall be limited to a maximum of \$2,500.00 unless the loss is caused by windstorm; then deductible shall be a maximum of three percent (3%) of the insured value.
 - D. This property insurance shall cover the full value of equipment, material, and other portions of the Work stored off the site, and also portions of the Work in transit. There shall be no limits on the value of loss per occurrence.
 - E. A named storm endorsement is required. The deductible shall be a maximum of three percent (3%) of the insured value.
- .10 A Surety authorized to do business in the State of Alabama shall furnish the required Insurance.
 - .11 The standard ACORD™ format shall be provided. The ACORD™ Certificate must be signed or countersigned by a Licensed Resident Agent of the State of Alabama and the agent's name, address and telephone number must appear on the face of the certificate.
 - .12 The Surety must have a minimum rating of A/Class VI as reported in the latest issue of Best's Key Rating Guide Property-Casualty, published by Alfred M. Best Company, Inc. if the bid price exceeds \$50,000.00.
 - .13 "In Rem" endorsement.

The insurance shall be written for not less than limits of liability specified in the Contract Documents or required by law, whichever coverage is greater. Coverages, whether written on an occurrence or claims-made basis, shall be maintained without interruption from the date of commencement of the Work until the date of final payment and termination of any coverage required to be maintained after final payment, and, with respect to the Contractor's completed operations coverage, until the expiration of the period for correction of Work or for such other period for maintenance of completed operations coverage as specified in the Contract Documents.

Certificates of insurance acceptable to the Owner shall be filed with the Owner within ten (10) calendar days from date of issuance of contract forms for execution. Contractor shall deliver to the City of Mobile, certificates of insurance certifying the existence and limits of the insurance coverages along with separate policy endorsements. Contractor shall also be responsible for delivering policy renewal certificates to the City of Mobile, and thereafter upon renewal or replacement of each required policy of insurance. These certificates and the insurance policies shall contain a provision that coverages afforded under the policies will not be cancelled subject to non-renewal nor material change, or allowed to expire without at least thirty (30) days' (except ten (10) days from non-payment) prior written notice has been given to the Owner. An additional certificate evidencing continuation of liability coverage, including coverage for completed operations, shall be submitted with the final Application for Payment and thereafter upon renewal or replacement of such coverage until the expiration of the time. Information concerning reduction of coverage on account of revised limits or claims paid under the General Aggregate, or both, shall be furnished by the Contractor with reasonable promptness.

All policies of insurance, except worker's compensation, shall be endorsed to provide that all such insurances are primary and non-contributing with any other insurance maintained by the City of Mobile and endorsed to waive rights of subrogation in favor of the City of Mobile.

The Contractor shall cause the commercial liability coverage required by the Contract Documents to include (1) the Owner, the Architect and the Architect's Consultants as additional insureds for claims caused in whole or in part by the Contractor's negligent acts or omissions during the Contractor's operations; and (2) the Owner as an additional insured for claims caused in whole or in part by the Contractor's negligent acts or omissions during the Contractor's completed operations.

§ 8.5.2 The Contractor shall provide bonds as set forth below:

Contractor shall furnish bonds covering faithful performance of the Contract and payment of obligations arising thereunder.

Upon the request of any person or entity appearing to be a potential beneficiary of bonds covering payment of obligations arising under the Contract, the Contractor shall promptly furnish a copy of the bonds or shall authorize a copy to be furnished.

The Labor and Material Payment Bond and the Performance Bond shall each be for one hundred percent (100%) of the Contract Sum.

1. Bond shall be submitted with the executed agreement on provided form(s).
2. Power of Attorney is required for both bonds.
3. A Surety authorized to do business in the State of Alabama shall furnish both bonds.
4. A Surety licensed to do business in the State of Alabama must execute the bonds.
5. The Surety must have a minimum rating of A/Class VI as reported in the latest issue of Best's Key Rating Guide Property-Casualty, published by Alfred M. Best Company, Inc., if the bid price exceeds \$50,000.00.
6. The Surety company shall be required to execute AIA Document G-707, "Consent of Surety to Final Payment" prior to Final Payment being made to the Contractor.

§ 8.6

(Paragraphs deleted)

Indemnification:

Contractor shall indemnify, defend and hold harmless City and its officers, elected officials, agents, representatives, and employees in respect of any and all claims, injuries, losses, diminution in value, damages, liabilities, whether or not currently due, and related expenses (including without limitation, settlement costs and any legal or other expenses for investigating or defending any actions or threatened actions) arising from or in connection with Contractor's performance under this agreement, including but not limited to, environmental laws, regulations, orders and decrees of whatever character or nature and damage or injury to persons or property. Contractor hereby confirms and agrees that Contractor is not a 'design professional' as defined in Alabama Act 2021-318, and not required to carry professional liability insurance for the performance or obligations of this contract.

§ 8.7 Other provisions:

Contractor shall provide a minimum two (2) years warranty from the date of substantial completion of all Labor and Materials for the Work covered by this contract, unless otherwise specified. Labor and Material warranties required by other sections of the construction document shall not conflict with this provision. The most stringent warranty provision shall apply.

§ 8.8 Force Majeure:

In the event that either party hereto shall be delayed or hindered in or prevented from the performance of any act required hereunder by reason of strikes, lockouts, labor troubles, inability to procure materials, failure of power, restrictive governmental laws or regulations, riots, insurrection, war, Act of God, or other reason of a like nature not the fault of the party delayed in performing work or doing acts required under the terms of this Agreement, then performance of such act shall be excused for the period of the delay and the period for the performance of any such act shall be extended for a period equivalent to the period of such delay.

ARTICLE 9 ENUMERATION OF CONTRACT DOCUMENTS

§ 9.1 This Agreement is comprised of the following documents:

- .1 AIA Document A101™-2017, Standard Form of Agreement Between Owner and Contractor

Init.

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User Notes:

(845838671)

(Paragraph deleted)

.2 AIA Document A201, General Conditions of the Contract for

(Paragraphs deleted)

Construction, including Owner's then-current modifications, a copy of which is incorporated in the contract documents and incorporated by reference herein as a part thereof.

(Paragraph deleted)

.3 Drawings

Number	Title	Date
--------	-------	------

.4 Specifications

Section	Title	Date
DIVISION 1	GENERAL REQUIREMENTS	03/25/2024
Section 01010	Summary of Work	03/25/2024
Section 01210	Allowances	03/25/2024
Section 01220	Unit Prices	03/25/2024
Section 01230	Alternative Bid Items	03/25/2024
Section 01310	Project Management & Coordination	03/25/2024
Section 01320	Construction Progress Documentation	03/25/2024
Section 01330	Submittal Procedures	03/25/2024
Section 01600	Product Requirements	03/25/2024
Section 01635	Substitution Procedures	03/25/2024
Section 01700	Execution Requirements	03/25/2024
Section 01710	Closeout Procedures	03/25/2024
Section 017823	Operation and Maintenance Data	03/25/2024
Section 017839	Project Record Documents	03/25/2024
DIVISION 2	SITEWORK	03/25/2024
Section 02230	Site Clearing	03/25/2024
Section 02300	Earthwork	03/25/2024
Section 02462	Pickleball Court Surfacing	03/25/2024
Section 02513	Asphaltic Concrete Paving	03/25/2024
Section 02751	Cement Concrete Pavement	03/25/2024
Section 02764	Pavement Joint Sealants	03/25/2024
Section 02821	Chain Link Fences and Gates	03/25/2024
Section 024100	Site Demolition	03/25/2024
DIVISION 3	CONCRETE	03/25/2024
Section 033000	Cast in Place Concrete	03/25/2024
DIVISION 4	MASONRY (NOT USED)	
DIVISION 5	METALS (NOT USED)	
DIVISION 6	WOOD AND PLASTIC (NOT USED)	
DIVISION 7	THERMAL AND MOISTURE PROTECTION (NOT USED)	
DIVISION 8	DOORS AND WINDOWS (NOT USED)	
DIVISION 9	FINISHES (NOT USED)	
DIVISION 10	SPECIALTIES (NOT USED)	
DIVISION 11	EQUIPMENT (NOT USED)	
DIVISION 12	FURNISHINGS (NOT USED)	
DIVISION 13	SPECIAL CONSTRUCTION (NOT USED)	
DIVISION 32	EXTERIOR IMPROVEMENTS	03/25/2024
Section 329100	Playing Field Construction	03/25/2024
Section 329113	Soil Preparation	03/25/2024
Section 329200	Playing Field Sodding	03/25/2024

.5 Addenda, if any:

Init.

User Notes:

Number

Date

Portions of Addenda relating to bidding or proposal requirements are not part of the Contract Documents unless the bidding or proposal requirements are also enumerated in this Article 9.

(Paragraph deleted)

.6 Other Exhibits:

(Paragraphs deleted)

§ 9.2

(Paragraph deleted)

Supplementary and other Conditions of the Contract:

Document	Title	Date	Pages
N/A			

§ 9.2.1 Other documents, if any, listed below:

(List here any additional documents that are intended to form part of the Contract Documents. AIA Document A201™-2017 provides that the advertisement or invitation to bid, Instructions to Bidders, sample forms, the Contractor’s bid or proposal, portions of Addenda relating to bidding or proposal requirements, and other information furnished by the Owner in anticipation of receiving bids or proposals, are not part of the Contract Documents unless enumerated in this Agreement. Any such documents should be listed here only if intended to be part of the Contract Documents.)

BIDDING AND CONTRACT REQUIREMENTS

Section 00100	Invitation to Bid
Section 00200	Instructions to Bidders-AIA Document A701-2018
Section 00300	Supplementary Instructions to Bidders
Section 00400	Bid Form
	Accounting of Sales Tax Form C-3A
	Office of Supplier Diversity Subcontracting and Major Supplier Plan
Section 00500	Standard Form of Agreement Between Owner and Contractor AIA Document A101
Section 00600	Bonds, Certificates and Affidavits
	Performance Bond
	Labor and Material Payment Bond
	E-Verify Documentation (Sample)
	Application and Certificate for Payment-AIA Document G702and G703 with DBE Utilization Report
	Certificate of Substantial Completion-AIA Document G704
	Contractor’s Affidavit of Payment of Debts and Claims- AIA Document G706
	Contractor’s Affidavit of Release of Liens-AIA Document G706A
	Consent of Surety to Final Payment-AIA Document G707
	Request for Taxpayer Identification Number and Certification W9 Tax Form and City of Mobile Vendor Information Form
Section 00700	General Conditions of the Contract for Construction- AIA Document A201

§ 9.2.2 Best Management Practices (BMPs): The Contractor shall be responsible for providing, implementing and maintaining BMPs for sediment and erosion control in full compliance with all applicable Local, State and Federal Codes and Ordinances throughout the contract period. All Work shall be in accordance with the Clean Water Act; the Alabama Water Pollution Control Act; the current version of the Alabama Handbook for Erosion Control, Sediment Control Storm water Management on Construction sites and Urban Areas; and

Init.

User Notes:

the current version of the Mobile, Alabama City Code Chapter 17 Storm water Management and Flood Control. All Wastewater with oils, grease, paint, mortar, etc., shall be properly contained and disposed of.

§ 9.2.3 Contractor shall comply with all Federal, State and local laws concerning nondiscrimination, including but not limited to City of Mobile Ordinance No. 14-034 which requires, *inter alia*, that all contractors performing work for the City of Mobile not discriminate on the basis of race, creed, color, national origin or disability, require that all subcontractors they engage do the same, and make every reasonable effort to assure that fifteen percent of the work performed under contract be awarded to socially and economically disadvantaged individuals and business entities.

§ 9.2.4 By signing this contract, the contracting parties affirm, for the duration of the agreement, that they will not violate federal immigration law or knowingly employ, hire for employment, or continue to employ an unauthorized alien within the State of Alabama. Furthermore, a contracting party found to be in violation of this provision shall be deemed in breach of the agreement and shall be responsible for all damages resulting therefrom.

§ 9.2.5 Public Contracts with Entities Engaging in certain Boycott Activities:
By signing this contract, the Contractor further represents and agrees that it is not currently engaged in, nor will it engage in, any boycott of a person or entity based in or doing business with a jurisdiction with which the State of Alabama can enjoy open trade.

§ 9.2.6 Severability Clause:
In case any one or more of the provisions contained in this Agreement shall for any reason be held to be invalid, illegal or unenforceable in any respect, such invalidity, illegality or unenforceability shall not affect any other provisions of this Agreement, but this Agreement shall be construed as if such invalid or illegal or unenforceable provision had never been contained herein. Upon such determination that any term or other provision is invalid, illegal or unenforceable, the court or other tribunal making such determination is authorized and instructed to modify this Agreement so as to effect the original intent of the parties as closely as possible so that the transactions and agreements contemplated herein are consummated as originally contemplated to the fullest extent possible.

§ 9.2.7 Non-Agency Clause:
Contractor, in the performance of its operations and obligations hereunder, shall not be deemed to be an agent of City but shall be deemed to be an independent Contractor in every respect and shall take all steps at its own expense, as City may from time to time request, to indicate that it is an independent Contractor. City does not and will not assume any responsibility for the means by which or the manner in which the services by Contractor provided for herein are performed, but on the contrary, Contractor shall be wholly responsible therefore.

This Agreement entered into as of the day and year first written above.

Owner: City of Mobile

Legal Name of Party to Contract:

Contractor: <>

OWNER *(Signature)*

CONTRACTOR *(By Signature)*

William S. Stimpson, Mayor

(Rows deleted)

(Printed name and title)

<>

(Printed name and title)

ATTEST:

City Clerk

STATE OF _____
COUNTY OF _____

Before me, the undersigned a Notary Public in and for said County and State, personally appeared <> as <> of <> and after being duly sworn, did depose and say that he, as such officer and with full authority, signed the above and foregoing voluntarily as the act of said corporation on the day the same bears date. Sworn to and subscribed for me this _____ day of _____, 20_____.

NOTARY PUBLIC
My Commission Expires: _____

SECTION 00600
BONDS, CERTIFICATES, AND AFFIDAVITS

PART 1 - GENERAL

This section includes the Bond Forms and Certificates that are to be used on this Project. No other forms will be accepted. Forms may be obtained from the Architectural Engineering Department, City of Mobile, telephone number 251-208-7454.

1.1 FORMS

- A. PERFORMANCE BOND. Owner's modified Performance Bond form.
- B. LABOR AND MATERIAL PAYMENT BOND. Owner's modified Payment Bond form.
- C. E-Verify Documentation (Sample)
- D. APPLICATION AND CERTIFICATION FOR PAYMENT - AIA Document G702 and AIA Document G703 and DBE Utilization Report
- E. CERTIFICATE of SUBSTANTIAL COMPLETION – AIA Document G704-2017
- F. CONTRACTOR'S AFFIDAVIT OF PAYMENT OF DEBTS AND CLAIMS - AIA Document G706
- G. CONTRACTOR'S AFFIDAVIT OF RELEASE OF LIENS - AIA Document G706A.
- H. CONSENT OF SURETY TO FINAL PAYMENT - AIA Document G707
- I. Request for Taxpayer Identification Number and Certification, W-9 Form, and City of Mobile Vendor Information Form
- J. City of Mobile CBMP Performance Bond Tier 1 Land Disturbance Projects

END OF SECTION 00600

SECTION 00600
PERFORMANCE BOND

Any singular reference to Contractor, Surety, Owner or other Party shall be considered plural where applicable.

KNOW ALL MEN BY THESE PRESENTS: That the Contractor, _____,
_____, hereinafter called the Principal, and _____,
_____, hereinafter called the Surety, are held and firmly bound unto the **City of Mobile, P. O. Box 1827, Mobile, AL 36633**, hereinafter called the Owner, in the penal sum of _____ and xx/100 Dollars (\$_____.00) for payment of which we bind ourselves, our heirs, executors, administrators, successors, and assigns for the faithful performance of a certain written Contract dated the ____ day of _____, 2024 entered into between the Principal and the City of Mobile for furnishing all labor, material, equipment and insurance and performing all Work required to properly complete PR-001-23 Medal of Honor Park – Site and Lighting Improvements, 1711 Hillcrest Road, Mobile, Alabama a copy of which said Contract is incorporated herein by reference and is made a part hereof as if fully copied herein.

NOW, THEREFORE, the condition of this obligation is such that if the Principal shall faithfully perform the terms and conditions of the Contract in all respects on its part and shall fully pay all obligations incurred in connection with the performance of such Contract on account of labor and materials used in connection therewith, and all such other obligations of every form, nature and character, and shall save harmless the Owner from all and any liability of every nature, kind and character which may be incurred in connection with the performance or fulfillment of such Contract or other such and liability resulting from negligence or otherwise on the part of such Principal and further save harmless the Owner from all cost and damage which may be suffered by reason of the failure to fully and completely perform said contract and shall fully reimburse and repay the Owner for all expenditures of every kind, character, and description which may be incurred by the Owner in making good any and every default which may exist on the part of the Principal in connection with the performance of said Contract; and further that the Principal shall pay all lawful claims of all persons, firms, partnerships, or corporations for all labor performed and material furnished in connection with the performance of the Contract, and that the failure to do so with such persons, firms, partnerships or corporations shall give them a direct obligation; and provided, however, that no suit, action, or proceedings by reason of any default whatever shall be brought on this bond after two years from the date on which the final payment on the Contract falls due, and provided, further, that if any alterations or additions which may be made under the Contract, or in the work to be done under it, or the giving by the Owner of any extensions of time for the performance of the Contract or any other forbearance being expressly waived. This obligation shall remain in full force and effect until the performance of all covenants, terms and conditions herein stipulated and after such performance, it shall become null and void.

In addition to any other legal mode of service, service of summons, and other process in civil actions brought in Mobile County may be had on the Contractor or the Surety on the bond by leaving a copy of the summons and complaint or other pleading or process with the Mayor of the City of Mobile which shall bind the principal Contractor and Surety to the mode of service above described and that the service shall be the same as personal service on the contractor or surety. This Bond is given pursuant to the terms of Alabama Code, Title 39-1-1, et. al., As Amended.

EXECUTED IN FOUR (4) COUNTERPARTS.

SIGNED, SEALED AND DELIVERED this ____ day of _____, 2024.

CONTRACTOR AS PRINCIPAL
Company: _____
(Corporate Seal)

SURETY
Company: _____
(Corporate Seal)

By: _____
(Signature)

By: _____
(Signature)

Name and Title: _____

Name and Title: _____

Resident Agent: _____
(Signature)

Name and Title: _____
Company Name: _____
Address: _____

Phone and Fax: _____

Owner's Representative: Cassie Boatwright
REAM Director
PO Box 1827
Mobile, AL 36633
251-208-7454

Company ID Number:

Approved by:

Employer	
Name (Please Type or Print)	
Signature	Date
Department of Homeland Security, Division	
Name (Please Type or Print)	Title
Signature	Date

SAMPLE

Company ID Number:

Information Required for the E-Verify Program	
Information relating to your Company:	
Company Name	
Company Facility Address	
Company Alternate Address	
County or Parish	
Employer Identification Number	
North American Industry Classification Systems Code	
Parent Company	
Number of Employees	
Number of Sites Verified for	

SAMPLE

OFFICE OF SUPPLIER DIVERSITY

CITY OF MOBILE

**DBE Compliance
DBE UTILIZATION REPORT**

Return to Office of Supplier Diversity
Via email: archnique.kidd@cityofmobile.org
or
P.O. Box 1948
Mobile, AL 36633

CONTRACTOR:	Certified DBE:	YES	NO	Contract Start Date:
--------------------	-----------------------	------------	-----------	-----------------------------

DESCRIPTION:	Estimated Completion Date:
---------------------	-----------------------------------

This report is for the month of:	JAN	APR	JULY	OCT	
(CHECK ONE):	FEB	MAY	AUG	NOV	FINAL _____
	MARCH	JUNE	SEPT	DEC	

Original Contract Amount	Total Amount of Contract Changes (change orders or amendments)	Final Contract Amount (include contract changes)	Payments to Date from City of Mobile	OFFICE USE ONLY (Verification)
\$	\$	\$	\$	

Instructions: List all DBEs utilized on the contract, whether or not the firms were originally listed for DBE goal credit. List actual amount paid to each DBE firm. If the established Percentage is not being met, please include a narrative description of the progress being made in DBE participation.

DBE SUBCONTRACTOR	DBE DESCRIPTION OF WORK	DBE SUBCONTRACT AMOUNT	DBE PAYMENTS THIS REPORT	PAYMENTS TO DATE	OFFICE USE ONLY (Verification)
		\$	\$	\$	
		\$	\$	\$	
		\$	\$	\$	
		\$	\$	\$	
TOTALS		\$	\$	\$	

I HEREBY CERTIFY THAT THE INFORMATION CONTAINED HEREIN IS TRUE AND CORRECT. SUPPORTING DOCUMENTATION IS ON FILE AND IS AVAILABLE FOR INSPECTION BY CITY OF MOBILE OFFICE OF SUPPLIER DIVERSITY PERSONNEL AT ANY TIME.

PRINT NAME: _____

SIGNATURE: _____ /_____/_____
(Title) (Date)

DBE Utilization Report

TO OWNER City of Mobile
P. O. Box 1827
Mobile, AL 36633-1827

PROJECT: Medal of Honor Park -
Park Entrance and Amphitheater Improvements
1711 Hillcrest Road
Mobile, Alabama 36609

APPLICATION NO:

Distribution to:

OWNER
 ARCHITECT
 CONTRACTOR

PERIOD TO:

FROM CONTRACTOR:

VIA ARCHITECT: Kimley-Horn and Associates, Inc.
11 North Water Street
Suite 9290
Mobile, Alabama 36602

PROJECT NO: PR-001-23

CONTRACT FOR:

CONTRACT DATE:

CONTRACTOR'S APPLICATION FOR PAYMENT

Application is made for payment, as shown below, in connection with the Contract.
Continuation Sheet, AIA Document G703, is attached.

The undersigned Contractor certifies that to the best of the Contractor's knowledge, information and belief the Work covered by this Application for Payment has been completed in accordance with the Contract Documents, that all amounts have been paid by the Contractor for Work for which previous Certificates for Payment were issued and payments received from the Owner, and that current payment shown herein is now due.

- 1. ORIGINAL CONTRACT SUM \$ _____
- 2. Net change by Change Orders \$ _____
- 3. CONTRACT SUM TO DATE (Line 1 ± 2) \$ _____
- 4. TOTAL COMPLETED & STORED TO DATE (Column G on G703) \$ _____
- 5. RETAINAGE:
 - a. _____ % of Completed Work (Column D + E on G703) \$ _____
 - b. _____ % of Stored Material (Column F on G703) \$ _____
 - Total Retainage (Lines 5a + 5b or Total in Column I of G703) \$ _____
- 6. TOTAL EARNED LESS RETAINAGE (Line 4 Less Line 5 Total) \$ _____
- 7. LESS PREVIOUS CERTIFICATES FOR PAYMENT (Line 6 from prior Certificate) \$ _____
- 8. CURRENT PAYMENT DUE \$ _____
- 9. BALANCE TO FINISH, INCLUDING RETAINAGE (Line 3 less Line 6) \$ _____

CONTRACTOR:

By: _____ Date: _____

State of: _____ County of: _____
Subscribed and sworn to before me this _____ day of _____
Notary Public:
My Commission expires: _____

ARCHITECT'S CERTIFICATE FOR PAYMENT

In accordance with the Contract Documents, based on on-site observations and the data comprising the application, the Architect certifies to the Owner that to the best of the Architect's knowledge, information and belief the Work has progressed as indicated, the quality of the Work is in accordance with the Contract Documents, and the Contractor is entitled to payment of the AMOUNT CERTIFIED.

AMOUNT CERTIFIED \$ _____

(Attach explanation if amount certified differs from the amount applied. Initial all figures on this Application and on the Continuation Sheet that are changed to conform with the amount certified.)
ARCHITECT:

By: _____ Date: _____

This Certificate is not negotiable. The AMOUNT CERTIFIED is payable only to the Contractor named herein. Issuance, payment and acceptance of payment are without prejudice to any rights of the Owner or Contractor under this Contract.

CHANGE ORDER SUMMARY	ADDITIONS	DEDUCTIONS
Total changes approved in previous months by Owner		
Total approved this Month		
TOTALS		
NET CHANGES by Change Order		

CONTINUATION SHEET

AIA DOCUMENT G703

PAGE OF PAGES

AIA Document G702, APPLICATION AND CERTIFICATION FOR PAYMENT, containing Contractor's signed certification is attached.

APPLICATION NO:
APPLICATION DATE:

In tabulations below, amounts are stated to the nearest dollar.

PERIOD TO:

Use Column I on Contracts where variable retainage for line items may apply.

ARCHITECT'S PROJECT NO:

A ITEM NO.	B DESCRIPTION OF WORK	C SCHEDULED VALUE	D WORK COMPLETED		F MATERIALS PRESENTLY STORED (NOT IN D OR E)	G		H BALANCE TO FINISH (C - G)	I RETAINAGE (IF VARIABLE RATE)
			FROM PREVIOUS APPLICATION (D + E)	THIS PERIOD		TOTAL COMPLETED AND STORED TO DATE (D+E+F)	% (G ÷ C)		
GRAND TOTALS									

Users may obtain validation of this document by requesting of the license a completed AIA Document D401 - Certification of Document's Authenticity

Certificate of Substantial Completion

PROJECT: *(name and address)*

CONTRACT INFORMATION:

Contract For:

Date:

CERTIFICATE INFORMATION:

Certificate Number: 001

Date:

OWNER: *(name and address)*

ARCHITECT: *(name and address)*

CONTRACTOR: *(name and address)*

The Work identified below has been reviewed and found, to the Architect's best knowledge, information, and belief, to be substantially complete. Substantial Completion is the stage in the progress of the Work when the Work or designated portion is sufficiently complete in accordance with the Contract Documents so that the Owner can occupy or utilize the Work for its intended use. The date of Substantial Completion of the Project or portion designated below is the date established by this Certificate.

(Identify the Work, or portion thereof, that is substantially complete.)

ARCHITECT *(Firm Name)*

SIGNATURE

PRINTED NAME AND TITLE

DATE OF SUBSTANTIAL COMPLETION

WARRANTIES

The date of Substantial Completion of the Project or portion designated above is also the date of commencement of applicable warranties required by the Contract Documents, except as stated below:

(Identify warranties that do not commence on the date of Substantial Completion, if any, and indicate their date of commencement.)

WORK TO BE COMPLETED OR CORRECTED

A list of items to be completed or corrected is attached hereto, or transmitted as agreed upon by the parties, and identified as follows:

(Identify the list of Work to be completed or corrected.)

The failure to include any items on such list does not alter the responsibility of the Contractor to complete all Work in accordance with the Contract Documents. Unless otherwise agreed to in writing, the date of commencement of warranties for items on the attached list will be the date of issuance of the final Certificate of Payment or the date of final payment, whichever occurs first. The Contractor will complete or correct the Work on the list of items attached hereto within () days from the above date of Substantial Completion.

Cost estimate of Work to be completed or corrected: \$

The responsibilities of the Owner and Contractor for security, maintenance, heat, utilities, damage to the Work, insurance, and other items identified below shall be as follows:

(Note: Owner's and Contractor's legal and insurance counsel should review insurance requirements and coverage.)

The Owner and Contractor hereby accept the responsibilities assigned to them in this Certificate of Substantial Completion:

CONTRACTOR *(Firm Name)*

SIGNATURE

PRINTED NAME AND TITLE

DATE

OWNER *(Firm Name)*

SIGNATURE

PRINTED NAME AND TITLE

DATE

Certificate of Substantial Completion

PROJECT: *(name and address)*

CONTRACT INFORMATION:

Contract For:

Date:

CERTIFICATE INFORMATION:

Certificate Number: 001

Date:

OWNER: *(name and address)*

ARCHITECT: *(name and address)*

CONTRACTOR: *(name and address)*

The Work identified below has been reviewed and found, to the Architect's best knowledge, information, and belief, to be substantially complete. Substantial Completion is the stage in the progress of the Work when the Work or designated portion is sufficiently complete in accordance with the Contract Documents so that the Owner can occupy or utilize the Work for its intended use. The date of Substantial Completion of the Project or portion designated below is the date established by this Certificate.

(Identify the Work, or portion thereof, that is substantially complete.)

ARCHITECT *(Firm Name)*

SIGNATURE

PRINTED NAME AND TITLE

DATE OF SUBSTANTIAL COMPLETION

WARRANTIES

The date of Substantial Completion of the Project or portion designated above is also the date of commencement of applicable warranties required by the Contract Documents, except as stated below:

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Cost estimate of Work to be completed or corrected: \$

The responsibilities of the Owner and Contractor for security, maintenance, heat, utilities, damage to the Work, insurance, and other items identified below shall be as follows:

(Note: Owner's and Contractor's legal and insurance counsel should review insurance requirements and coverage.)

The Owner and Contractor hereby accept the responsibilities assigned to them in this Certificate of Substantial Completion:

CONTRACTOR *(Firm Name)*

SIGNATURE

PRINTED NAME AND TITLE

DATE

OWNER *(Firm Name)*

SIGNATURE

PRINTED NAME AND TITLE

DATE



AIA[®]

Document G706™ – 1994

Contractor's Affidavit of Payment of Debts and Claims

PROJECT: *(Name and address)*

ARCHITECT'S PROJECT NUMBER:

OWNER:

ARCHITECT:

TO OWNER: *(Name and address)*

CONTRACT FOR: General Construction

CONTRACTOR:

CONTRACT DATED:

SURETY:

OTHER:

STATE OF:

COUNTY OF:

The undersigned hereby certifies that, except as listed below, payment has been made in full and all obligations have otherwise been satisfied for all materials and equipment furnished, for all work, labor, and services performed, and for all known indebtedness and claims against the Contractor for damages arising in any manner in connection with the performance of the Contract referenced above for which the Owner or Owner's property might in any way be held responsible or encumbered.

EXCEPTIONS:

SUPPORTING DOCUMENTS ATTACHED HERETO:

1. Consent of Surety to Final Payment. Whenever Surety is involved, Consent of Surety is required. AIA Document G707, Consent of Surety, may be used for this purpose

Indicate Attachment Yes No

CONTRACTOR: *(Name and address)*

BY:

(Signature of authorized representative)

(Printed name and title)

The following supporting documents should be attached hereto if required by the Owner:

1. Contractor's Release or Waiver of Liens, conditional upon receipt of final payment.
2. Separate Releases or Waivers of Liens from Subcontractors and material and equipment suppliers, to the extent required by the Owner, accompanied by a list thereof.
3. Contractor's Affidavit of Release of Liens (AIA Document G706A).

Subscribed and sworn to before me on this date:

Notary Public:

My Commission Expires:



AIA[®] Document G706A[™] – 1994

Contractor's Affidavit of Release of Liens

PROJECT: <i>(Name and address)</i>	ARCHITECT'S PROJECT NUMBER:	OWNER: <input type="checkbox"/>
	CONTRACT FOR: General Construction	ARCHITECT: <input type="checkbox"/>
TO OWNER: <i>(Name and address)</i>	CONTRACT DATED:	CONTRACTOR: <input type="checkbox"/>
		SURETY: <input type="checkbox"/>
		OTHER: <input type="checkbox"/>

STATE OF:
COUNTY OF:

The undersigned hereby certifies that to the best of the undersigned's knowledge, information and belief, except as listed below, the Releases or Waivers of Lien attached hereto include the Contractor, all Subcontractors, all suppliers of materials and equipment, and all performers of Work, labor or services who have or may have liens or encumbrances or the right to assert liens or encumbrances against any property of the Owner arising in any manner out of the performance of the Contract referenced above.

EXCEPTIONS:

SUPPORTING DOCUMENTS ATTACHED HERETO:

1. Contractor's Release or Waiver of Liens, conditional upon receipt of final payment.
2. Separate Releases or Waivers of Liens from Subcontractors and material and equipment suppliers, to the extent required by the Owner, accompanied by a list thereof.

CONTRACTOR: *(Name and address)*

BY:

(Signature of authorized representative)

(Printed name and title)

Subscribed and sworn to before me on this date:

Notary Public:

My Commission Expires:



AIA[®]

Document G707™ – 1994

Consent Of Surety to Final Payment

PROJECT: *(Name and address)*

ARCHITECT'S PROJECT NUMBER:

OWNER:

CONTRACT FOR: General Construction

ARCHITECT:

TO OWNER: *(Name and address)*

CONTRACT DATED:

CONTRACTOR:

SURETY:

OTHER:

In accordance with the provisions of the Contract between the Owner and the Contractor as indicated above, the
(Insert name and address of Surety)

on bond of
(Insert name and address of Contractor)

, SURETY,

hereby approves of the final payment to the Contractor, and agrees that final payment to the Contractor shall not relieve the
Surety of any of its obligations to
(Insert name and address of Owner)

, CONTRACTOR,

as set forth in said Surety's bond.

, OWNER,

IN WITNESS WHEREOF, the Surety has hereunto set its hand on this date:
(Insert in writing the month followed by the numeric date and year.)

(Surety)

(Signature of authorized representative)

Attest:
(Seal):

(Printed name and title)

**CITY OF MOBILE, AL
VENDOR INFORMATION FORM**

Company Information:

1. City Vendor Number:

2. Name of Company:

3. Company D.B.A. Name, if any:

4. Mailing Address:

5. Remittance Address:

6. Telephone:

7. Fax

8. Main Email:

Primary Contact:

9. Contact Name and Title:

10. Contact Phone:

11. Contact Fax:

12. Contact Email:

Alternate Contact (if applicable):

13. Alt. Contact Name and Title:

14. Alt. Contact Phone:

15. Alt. Contact Fax:

16. Alt. Contact Email:

City of Mobile Business License Information:

17. City of Mobile Business License No. (if required):

Please attach additional sheets if necessary.

Request for Taxpayer Identification Number and Certification

**Give Form to the
 requester. Do not
 send to the IRS.**

Print or type See Specific Instructions on page 2.	Name (as shown on your income tax return)	
	Business name/disregarded entity name, if different from above	
	Check appropriate box for federal tax classification: <input type="checkbox"/> Individual/sole proprietor <input type="checkbox"/> C Corporation <input type="checkbox"/> S Corporation <input type="checkbox"/> Partnership <input type="checkbox"/> Trust/estate <input type="checkbox"/> Limited liability company. Enter the tax classification (C=C corporation, S=S corporation, P=partnership) ▶ _____ <input type="checkbox"/> Other (see instructions) ▶ _____	
	<input type="checkbox"/> Exempt payee	
	Address (number, street, and apt. or suite no.)	Requester's name and address (optional)
City, state, and ZIP code		
List account number(s) here (optional)		

Part I Taxpayer Identification Number (TIN)

Enter your TIN in the appropriate box. The TIN provided must match the name given on the "Name" line to avoid backup withholding. For individuals, this is your social security number (SSN). However, for a resident alien, sole proprietor, or disregarded entity, see the Part I instructions on page 3. For other entities, it is your employer identification number (EIN). If you do not have a number, see *How to get a TIN* on page 3.

Social security number									

Note. If the account is in more than one name, see the chart on page 4 for guidelines on whose number to enter.

Employer identification number									

Part II Certification

Under penalties of perjury, I certify that:

1. The number shown on this form is my correct taxpayer identification number (or I am waiting for a number to be issued to me), and
2. I am not subject to backup withholding because: (a) I am exempt from backup withholding, or (b) I have not been notified by the Internal Revenue Service (IRS) that I am subject to backup withholding as a result of a failure to report all interest or dividends, or (c) the IRS has notified me that I am no longer subject to backup withholding, and
3. I am a U.S. citizen or other U.S. person (defined below).

Certification instructions. You must cross out item 2 above if you have been notified by the IRS that you are currently subject to backup withholding because you have failed to report all interest and dividends on your tax return. For real estate transactions, item 2 does not apply. For mortgage interest paid, acquisition or abandonment of secured property, cancellation of debt, contributions to an individual retirement arrangement (IRA), and generally, payments other than interest and dividends, you are not required to sign the certification, but you must provide your correct TIN. See the instructions on page 4.

Sign Here	Signature of U.S. person ▶	Date ▶
------------------	----------------------------	--------

General Instructions

Section references are to the Internal Revenue Code unless otherwise noted.

Purpose of Form

A person who is required to file an information return with the IRS must obtain your correct taxpayer identification number (TIN) to report, for example, income paid to you, real estate transactions, mortgage interest you paid, acquisition or abandonment of secured property, cancellation of debt, or contributions you made to an IRA.

Use Form W-9 only if you are a U.S. person (including a resident alien), to provide your correct TIN to the person requesting it (the requester) and, when applicable, to:

1. Certify that the TIN you are giving is correct (or you are waiting for a number to be issued),
2. Certify that you are not subject to backup withholding, or
3. Claim exemption from backup withholding if you are a U.S. exempt payee. If applicable, you are also certifying that as a U.S. person, your allocable share of any partnership income from a U.S. trade or business is not subject to the withholding tax on foreign partners' share of effectively connected income.

Note. If a requester gives you a form other than Form W-9 to request your TIN, you must use the requester's form if it is substantially similar to this Form W-9.

Definition of a U.S. person. For federal tax purposes, you are considered a U.S. person if you are:

- An individual who is a U.S. citizen or U.S. resident alien,
- A partnership, corporation, company, or association created or organized in the United States or under the laws of the United States,
- An estate (other than a foreign estate), or
- A domestic trust (as defined in Regulations section 301.7701-7).

Special rules for partnerships. Partnerships that conduct a trade or business in the United States are generally required to pay a withholding tax on any foreign partners' share of income from such business. Further, in certain cases where a Form W-9 has not been received, a partnership is required to presume that a partner is a foreign person, and pay the withholding tax. Therefore, if you are a U.S. person that is a partner in a partnership conducting a trade or business in the United States, provide Form W-9 to the partnership to establish your U.S. status and avoid withholding on your share of partnership income.



City of Mobile
CBMP Performance Bond
Tier 1 Land Disturbance Projects

Save Form
Print Form
Clear Form

Bond Number: _____
Effective Date: _____
Permit Number: ALR10C501
Project Address: 1711 Hillcrest Road

STATE OF ALABAMA
 MOBILE COUNTY

KNOW ALL MEN BY THESE PRESENTS, THAT WE _____ (hereinafter called the Principal) and _____ (hereinafter called the Surety) are held and firmly bound unto the CITY OF MOBILE, ALABAMA (hereinafter called the Obligee), in the full and just sum of eighteen thousand nine hundred dollars Dollars (\$ 18,900.00), lawful money of the United States of America, for the payment of which, well and truly to be made, we bind ourselves, our heirs, administrators, executors, and assigns, jointly and severally, firmly by these presents. For purposes of this bond and enforcement of the obligations set forth herein, Surety hereby appoints the Mayor of the City of Mobile as its agent for receipt of service of process.

WHEREAS, said Principal has applied to the Obligee for a permit to perform on-site clearing, earthwork, grading, and other site activity on the land as described as follows, under the land disturbance permit number and project address shown above: Medal of Honor Park and Amphitheater Improvements, conditioned on an agreement by the Principal to install the erosion and sedimentation control BMPs in accordance with the permitted Construction Best Management Practices (CBMP) plan prepared by Kimley-Horn and Associates, Inc, dated 2/7/2024, and filed at the City Engineering Department.

NOW THEREFORE, THE CONDITION OF THIS OBLIGATION IS SUCH THAT, if Principal shall promptly and faithfully construct the improvements and achieve permanent site stabilization in accordance with the permitted CBMP plan which is made a part hereof by reference as if set out in here full, and said construction finally approved by Obligee, then the Bond shall be null and void; otherwise to remain in full force and effect. The bond will automatically extend without amendment for additional one year period from the expiration date, or any future expiration date, until all disturbed areas have been permanently stabilized in accordance with the permitted CBMP plan and finally approved. PROVIDED, further, that upon the failure of _____, as such applicant, to promptly and efficiently prosecute said CBMP Plan, in any respect, In accordance with the permit, the above bound _____ as Surety, shall take charge of said CBMP Plan, and complete the CBMP Plan at their own expense. Said Surety may, if it so elects, by written direction given to the CITY OF MOBILE, City Engineer, authorize the City Engineer to complete or cause to be completed the said Permit Work at the expense of said Surety, and such Surety hereby agrees and binds surety to pay the cost and expense of the completion of such CBMP Plan.

In the event said Principal shall fail or delay the prosecution and completion of said CBMP Plan and said Surety shall also fail to act promptly as hereinbefore provided, then said City Engineer may cause ten days (10) notice of such failure, either to said Principal or Surety, and at the expiration of said ten days, if said Principal or Surety do not proceed promptly to complete the CBMP Plan provided therein, the CITY OF MOBILE, ALABAMA shall have the authority to cause said CBMP Plan to be done and accomplished, and when the same is completed and the cost thereof determined, the said Principal and Surety shall and hereby agree to pay any and all cost of said CBMP Plan.



City of Mobile
CBMP Performance Bond
 Tier 1 Land Disturbance Projects

The said Principal and Surety further agree as part of this obligation to pay all such damages of any kind to person or property that may result from a failure in any respect to perform and complete said CBMP Plan.

The decision of the City Engineer of the CITY OF MOBILE, ALABAMA upon any question connected with the execution of the CBMP Plan, by said Principal or Surety, shall be final and conclusive.

WITNESS our hands and seals, this 12th day of March 2024.

PRINCIPAL:

 Signature of Applicant Official

 Printed Name of Officer Signing

 Title of Applicant Official

 Legal Name of Applicant (Company) as Principal

 Legal Address of Applicant

ATTESTATION:

 Signature of Attesting Individual

 Printed Name of Attesting Individual Signing

 Title of Attesting Individual

SURETY:

(Affix Seal)

 Name of Surety

By: _____
 Attorney in Fact - for Surety

ALABAMA RESIDENT AGENT COUNTERSIGNATURE:

 Signature of Resident Agent

 Printed Name of Resident Agent

 Legal Name of Resident Agent Company

 Legal Address of Resident Agent Company

(A copy of the Power of Attorney properly executed by the Company authorizing the Agent signing above to bind the Company as Surety on this Bond must be attached hereto. Said Power of Attorney must be dated so as to correspond with the execution date of the bond)



Additional Contact Information

Principal

Company Name:	
Address:	
Telephone Number:	
Fax Number:	
Email Address:	

Surety

Company Name:	
Address:	
Telephone Number:	
Fax Number:	
Email Address:	

Alabama Resident Agent

Company Name:	
Address:	
Telephone Number:	
Fax Number:	
Email Address:	

SECTION 00700
GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION,
AIA DOCUMENT A201 - 2017

1.1 GENERAL

- A. This section includes the GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION, AIA Document A-201, that is to be used for this Project. The document has been electronically modified to meet the City of Mobile's requirements and shall be used for the project.



AIA® Document A201® – 2017

General Conditions of the Contract for Construction

for the following PROJECT:

(Name and location or address)

Medal Of Honor Park - Site And Lighting Improvements
1711 Hillcrest Road
Mobile, Alabama 36609
PR-001-23

THE OWNER:

(Name, legal status and address)

City of Mobile
P.O. Box 1827
Mobile, Alabama 36633-1827

THE ARCHITECT:

(Name, legal status and address)

Kimley-Horn and Associates, Inc.
11 North Water Street, Suite 9290
Mobile, Alabama 36602

TABLE OF ARTICLES

- 1 GENERAL PROVISIONS
- 2 OWNER
- 3 CONTRACTOR
- 4 ARCHITECT
- 5 SUBCONTRACTORS
- 6 CONSTRUCTION BY OWNER OR BY SEPARATE CONTRACTORS
- 7 CHANGES IN THE WORK
- 8 TIME
- 9 PAYMENTS AND COMPLETION
- 10 PROTECTION OF PERSONS AND PROPERTY
- 11 INSURANCE AND BONDS
- 12 UNCOVERING AND CORRECTION OF WORK
- 13 MISCELLANEOUS PROVISIONS

ADDITIONS AND DELETIONS:

The author of this document has added information needed for its completion. The author may also have revised the text of the original AIA standard form. An *Additions and Deletions Report* that notes added information as well as revisions to the standard form text is available from the author and should be reviewed. A vertical line in the left margin of this document indicates where the author has added necessary information and where the author has added to or deleted from the original AIA text.

This document has important legal consequences. Consultation with an attorney is encouraged with respect to its completion or modification.

For guidance in modifying this document to include supplementary conditions, see AIA Document A503™, Guide for Supplementary Conditions.

Init.

/

User Notes:

(2051233362)

14 TERMINATION OR SUSPENSION OF THE CONTRACT

15 CLAIMS AND DISPUTES



Init.

/

INDEX

(Topics and numbers in bold are Section headings.)

Acceptance of Nonconforming Work

9.6.6, 9.9.3, **12.3**

Acceptance of Work

9.6.6, 9.8.2, 9.9.3, 9.10.1, 9.10.3, 12.3

Access to Work

3.16, 6.2.1, 12.1

Accident Prevention

10

Acts and Omissions

3.2, 3.3.2, 3.12.8, 3.18, 4.2.3, 8.3.1, 9.5.1, 10.2.5, 10.2.8, 13.3.2, 14.1, 15.1.2, 15.2

Addenda

1.1.1

Additional Costs, Claims for

3.7.4, 3.7.5, 10.3.2, 15.1.5

Additional Inspections and Testing

9.4.2, 9.8.3, 12.2.1, **13.4**

Additional Time, Claims for

3.2.4, 3.7.4, 3.7.5, 3.10.2, 8.3.2, **15.1.6**

Administration of the Contract

3.1.3, **4.2**, 9.4, 9.5

Advertisement or Invitation to Bid

1.1.1

Aesthetic Effect

4.2.13

Allowances

3.8

Applications for Payment

4.2.5, 7.3.9, 9.2, **9.3**, 9.4, 9.5.1, 9.5.4, 9.6.3, 9.7, 9.10

Approvals

2.1.1, 2.3.1, 2.5, 3.1.3, 3.10.2, 3.12.8, 3.12.9, 3.12.10.1, 4.2.7, 9.3.2, 13.4.1

Arbitration

8.3.1, 15.3.2, **15.4**

ARCHITECT

4

Architect, Definition of

4.1.1

Architect, Extent of Authority

2.5, 3.12.7, 4.1.2, 4.2, 5.2, 6.3, 7.1.2, 7.3.4, 7.4, 9.2, 9.3.1, 9.4, 9.5, 9.6.3, 9.8, 9.10.1, 9.10.3, 12.1, 12.2.1, 13.4.1, 13.4.2, 14.2.2, 14.2.4, 15.1.4, 15.2.1

Architect, Limitations of Authority and Responsibility

2.1.1, 3.12.4, 3.12.8, 3.12.10, 4.1.2, 4.2.1, 4.2.2, 4.2.3, 4.2.6, 4.2.7, 4.2.10, 4.2.12, 4.2.13, 5.2.1, 7.4, 9.4.2, 9.5.4, 9.6.4, 15.1.4, 15.2

Architect's Additional Services and Expenses

2.5, 12.2.1, 13.4.2, 13.4.3, 14.2.4

Architect's Administration of the Contract

3.1.3, 3.7.4, 15.2, 9.4.1, 9.5

Architect's Approvals

2.5, 3.1.3, 3.5, 3.10.2, 4.2.7

Architect's Authority to Reject Work

3.5, 4.2.6, 12.1.2, 12.2.1

Architect's Copyright

1.1.7, 1.5

Architect's Decisions

3.7.4, 4.2.6, 4.2.7, 4.2.11, 4.2.12, 4.2.13, 4.2.14, 6.3, 7.3.4, 7.3.9, 8.1.3, 8.3.1, 9.2, 9.4.1, 9.5, 9.8.4, 9.9.1, 13.4.2, 15.2

Architect's Inspections

3.7.4, 4.2.2, 4.2.9, 9.4.2, 9.8.3, 9.9.2, 9.10.1, 13.4

Architect's Instructions

3.2.4, 3.3.1, 4.2.6, 4.2.7, 13.4.2

Architect's Interpretations

4.2.11, 4.2.12

Architect's Project Representative

4.2.10

Architect's Relationship with Contractor

1.1.2, 1.5, 2.3.3, 3.1.3, 3.2.2, 3.2.3, 3.2.4, 3.3.1, 3.4.2, 3.5, 3.7.4, 3.7.5, 3.9.2, 3.9.3, 3.10, 3.11, 3.12, 3.16, 3.18, 4.1.2, 4.2, 5.2, 6.2.2, 7, 8.3.1, 9.2, 9.3, 9.4, 9.5, 9.7, 9.8, 9.9, 10.2.6, 10.3, 11.3, 12, 13.3.2, 13.4, 15.2

Architect's Relationship with Subcontractors

1.1.2, 4.2.3, 4.2.4, 4.2.6, 9.6.3, 9.6.4, 11.3

Architect's Representations

9.4.2, 9.5.1, 9.10.1

Architect's Site Visits

3.7.4, 4.2.2, 4.2.9, 9.4.2, 9.5.1, 9.9.2, 9.10.1, 13.4

Asbestos

10.3.1

Attorneys' Fees

3.18.1, 9.6.8, 9.10.2, 10.3.3

Award of Separate Contracts

6.1.1, 6.1.2

Award of Subcontracts and Other Contracts for Portions of the Work

5.2

Basic Definitions

1.1

Bidding Requirements

1.1.1

Binding Dispute Resolution

8.3.1, 9.7, 11.5, 13.1, 15.1.2, 15.1.3, 15.2.1, 15.2.5, 15.2.6.1, 15.3.1, 15.3.2, 15.3.3, 15.4.1

Bonds, Lien

7.3.4.4, 9.6.8, 9.10.2, 9.10.3

Bonds, Performance, and Payment

7.3.4.4, 9.6.7, 9.10.3, **11.1.2**, 11.1.3, **11.5**

Building Information Models Use and Reliance

1.8

Building Permit

3.7.1

Capitalization

1.3

Certificate of Substantial Completion

9.8.3, 9.8.4, 9.8.5

Certificates for Payment

4.2.1, 4.2.5, 4.2.9, 9.3.3, **9.4**, 9.5, 9.6.1, 9.6.6, 9.7, 9.10.1, 9.10.3, 14.1.1.3, 14.2.4, 15.1.4

Certificates of Inspection, Testing or Approval
13.4.4

Certificates of Insurance
9.10.2

Change Orders

1.1.1, 3.4.2, 3.7.4, 3.8.2.3, 3.11, 3.12.8, 4.2.8, 5.2.3, 7.1.2, 7.1.3, **7.2**, 7.3.2, 7.3.7, 7.3.9, 7.3.10, 8.3.1, 9.3.1.1, 9.10.3, 10.3.2, 11.2, 11.5, 12.1.2

Change Orders, Definition of

7.2.1

CHANGES IN THE WORK

2.2.2, 3.11, 4.2.8, **7**, 7.2.1, 7.3.1, 7.4, 8.3.1, 9.3.1.1, 11.5

Claims, Definition of

15.1.1

Claims, Notice of
1.6.2, 15.1.3

CLAIMS AND DISPUTES

3.2.4, 6.1.1, 6.3, 7.3.9, 9.3.3, 9.10.4, 10.3.3, **15**, 15.4
Claims and Timely Assertion of Claims
15.4.1

Claims for Additional Cost

3.2.4, 3.3.1, 3.7.4, 7.3.9, 9.5.2, 10.2.5, 10.3.2, **15.1.5**

Claims for Additional Time

3.2.4, 3.3.1, 3.7.4, 6.1.1, 8.3.2, 9.5.2, 10.3.2, **15.1.6**

Concealed or Unknown Conditions, Claims for

3.7.4

Claims for Damages
3.2.4, 3.18, 8.3.3, 9.5.1, 9.6.7, 10.2.5, 10.3.3, 11.3, 11.3.2, 14.2.4, 15.1.7

Claims Subject to Arbitration
15.4.1

Cleaning Up

3.15, 6.3

Commencement of the Work, Conditions Relating to
2.2.1, 3.2.2, 3.4.1, 3.7.1, 3.10.1, 3.12.6, 5.2.1, 5.2.3, 6.2.2, 8.1.2, 8.2.2, 8.3.1, 11.1, 11.2, **15.1.5**

Commencement of the Work, Definition of

8.1.2

Communications

3.9.1, **4.2.4**

Completion, Conditions Relating to
3.4.1, 3.11, 3.15, 4.2.2, 4.2.9, 8.2, 9.4.2, 9.8, 9.9.1, 9.10, 12.2, 14.1.2, 15.1.2

COMPLETION, PAYMENTS AND

9

Completion, Substantial
3.10.1, 4.2.9, 8.1.1, 8.1.3, 8.2.3, 9.4.2, 9.8, 9.9.1, 9.10.3, 12.2, 15.1.2
Compliance with Laws
2.3.2, 3.2.3, 3.6, 3.7, 3.12.10, 3.13, 9.6.4, 10.2.2, 13.1, 13.3, 13.4.1, 13.4.2, 13.5, 14.1.1, 14.2.1.3, 15.2.8, 15.4.2, 15.4.3

Concealed or Unknown Conditions

3.7.4, 4.2.8, 8.3.1, 10.3

Conditions of the Contract

1.1.1, 6.1.1, 6.1.4

Consent, Written

3.4.2, 3.14.2, 4.1.2, 9.8.5, 9.9.1, 9.10.2, 9.10.3, 13.2, 15.4.4.2

Consolidation or Joinder

15.4.4

CONSTRUCTION BY OWNER OR BY SEPARATE CONTRACTORS

1.1.4, **6**

Construction Change Directive, Definition of
7.3.1

Construction Change Directives

1.1.1, 3.4.2, 3.11, 3.12.8, 4.2.8, 7.1.1, 7.1.2, 7.1.3, **7.3**, 9.3.1.1

Construction Schedules, Contractor's

3.10, 3.11, 3.12.1, 3.12.2, 6.1.3, 15.1.6.2

Contingent Assignment of Subcontracts

5.4, 14.2.2.2

Continuing Contract Performance

15.1.4

Contract, Definition of

1.1.2

CONTRACT, TERMINATION OR SUSPENSION OF THE

5.4.1.1, 5.4.2, 11.5, **14**

Contract Administration

3.1.3, 4, 9.4, 9.5

Contract Award and Execution, Conditions Relating to

3.7.1, 3.10, 5.2, 6.1

Contract Documents, Copies Furnished and Use of
1.5.2, 2.3.6, 5.3

Contract Documents, Definition of

1.1.1

Contract Sum

2.2.2, 2.2.4, 3.7.4, 3.7.5, 3.8, 3.10.2, 5.2.3, 7.3, 7.4, **9.1**, 9.2, 9.4.2, 9.5.1.4, 9.6.7, 9.7, 10.3.2, 11.5, 12.1.2, 12.3, 14.2.4, 14.3.2, 15.1.4.2, **15.1.5**, **15.2.5**

Contract Sum, Definition of

9.1

Contract Time

1.1.4, 2.2.1, 2.2.2, 3.7.4, 3.7.5, 3.10.2, 5.2.3, 6.1.5, 7.2.1.3, 7.3.1, 7.3.5, 7.3.6, 7, 7, 7.3.10, 7.4, 8.1.1, 8.2.1, 8.2.3, 8.3.1, 9.5.1, 9.7, 10.3.2, 12.1.1, 12.1.2, 14.3.2, 15.1.4.2, 15.1.6.1, 15.2.5

Contract Time, Definition of

8.1.1

CONTRACTOR

3

Contractor, Definition of

3.1, **6.1.2**

Contractor's Construction and Submittal Schedules

3.10, 3.12.1, 3.12.2, 4.2.3, 6.1.3, 15.1.6.2

Init.

/

Contractor's Employees
2.2.4, 3.3.2, 3.4.3, 3.8.1, 3.9, 3.18.2, 4.2.3, 4.2.6, 10.2,
10.3, 11.3, 14.1, 14.2.1.1

Contractor's Liability Insurance

11.1

Contractor's Relationship with Separate Contractors
and Owner's Forces

3.12.5, 3.14.2, 4.2.4, 6, 11.3, 12.2.4

Contractor's Relationship with Subcontractors

1.2.2, 2.2.4, 3.3.2, 3.18.1, 3.18.2, 4.2.4, 5, 9.6.2, 9.6.7,
9.10.2, 11.2, 11.3, 11.4

Contractor's Relationship with the Architect

1.1.2, 1.5, 2.3.3, 3.1.3, 3.2.2, 3.2.3, 3.2.4, 3.3.1, 3.4.2,
3.5.1, 3.7.4, 3.10, 3.11, 3.12, 3.16, 3.18, 4.2, 5.2, 6.2.2,
7, 8.3.1, 9.2, 9.3, 9.4, 9.5, 9.7, 9.8, 9.9, 10.2.6, 10.3,
11.3, 12, 13.4, 15.1.3, 15.2.1

Contractor's Representations

3.2.1, 3.2.2, 3.5, 3.12.6, 6.2.2, 8.2.1, 9.3.3, 9.8.2

Contractor's Responsibility for Those Performing the
Work

3.3.2, 3.18, 5.3, 6.1.3, 6.2, 9.5.1, 10.2.8

Contractor's Review of Contract Documents

3.2

Contractor's Right to Stop the Work

2.2.2, 9.7

Contractor's Right to Terminate the Contract

14.1

Contractor's Submittals

3.10, 3.11, 3.12, 4.2.7, 5.2.1, 5.2.3, 9.2, 9.3, 9.8.2,
9.8.3, 9.9.1, 9.10.2, 9.10.3

Contractor's Superintendent

3.9, 10.2.6

Contractor's Supervision and Construction

Procedures

1.2.2, 3.3, 3.4, 3.12.10, 4.2.2, 4.2.7, 6.1.3, 6.2.4, 7.1.3,
7.3.4, 7.3.6, 8.2, 10, 12, 14, 15.1.4

Coordination and Correlation

1.2, 3.2.1, 3.3.1, 3.10, 3.12.6, 6.1.3, 6.2.1

Copies Furnished of Drawings and Specifications

1.5, 2.3.6, 3.11

Copyrights

1.5, **3.17**

Correction of Work

2.5, 3.7.3, 9.4.2, 9.8.2, 9.8.3, 9.9.1, 12.1.2, **12.2**, 12.3,
15.1.3.1, 15.1.3.2, 15.2.1

Correlation and Intent of the Contract Documents

1.2

Cost, Definition of

7.3.4

Costs

2.5, 3.2.4, 3.7.3, 3.8.2, 3.15.2, 5.4.2, 6.1.1, 6.2.3,
7.3.3.3, 7.3.4, 7.3.8, 7.3.9, 9.10.2, 10.3.2, 10.3.6, 11.2,
12.1.2, 12.2.1, 12.2.4, 13.4, 14

Cutting and Patching

3.14, 6.2.5

Damage to Construction of Owner or Separate
Contractors

3.14.2, 6.2.4, 10.2.1.2, 10.2.5, 10.4, 12.2.4

Damage to the Work

3.14.2, 9.9.1, 10.2.1.2, 10.2.5, 10.4, 12.2.4

Damages, Claims for

3.2.4, 3.18, 6.1.1, 8.3.3, 9.5.1, 9.6.7, 10.3.3, 11.3.2,
11.3, 14.2.4, 15.1.7

Damages for Delay

6.2.3, 8.3.3, 9.5.1.6, 9.7, 10.3.2, 14.3.2

Date of Commencement of the Work, Definition of

8.1.2

Date of Substantial Completion, Definition of

8.1.3

Day, Definition of

8.1.4

Decisions of the Architect

3.7.4, 4.2.6, 4.2.7, 4.2.11, 4.2.12, 4.2.13, 6.3, 7.3.4,
7.3.9, 8.1.3, 8.3.1, 9.2, 9.4, 9.5.1, 9.8.4, 9.9.1, 13.4.2,
14.2.2, 14.2.4, 15.1, 15.2

Decisions to Withhold Certification

9.4.1, **9.5**, 9.7, 14.1.1.3

Defective or Nonconforming Work, Acceptance,
Rejection and Correction of

2.5, 3.5, 4.2.6, 6.2.3, 9.5.1, 9.5.3, 9.6.6, 9.8.2, 9.9.3,
9.10.4, 12.2.1

Definitions

1.1, 2.1.1, 3.1.1, 3.5, 3.12.1, 3.12.2, 3.12.3, 4.1.1, 5.1,
6.1.2, 7.2.1, 7.3.1, 8.1, 9.1, 9.8.1, 15.1.1

Delays and Extensions of Time

3.2, **3.7.4**, 5.2.3, 7.2.1, 7.3.1, **7.4**, **8.3**, 9.5.1, **9.7**,
10.3.2, **10.4**, 14.3.2, **15.1.6**, 15.2.5

Digital Data Use and Transmission

1.7

Disputes

6.3, 7.3.9, 15.1, 15.2

Documents and Samples at the Site

3.11

Drawings, Definition of

1.1.5

Drawings and Specifications, Use and Ownership of

3.11

Effective Date of Insurance

8.2.2

Emergencies

10.4, 14.1.1.2, **15.1.5**

Employees, Contractor's

3.3.2, 3.4.3, 3.8.1, 3.9, 3.18.2, 4.2.3, 4.2.6, 10.2,
10.3.3, 11.3, 14.1, 14.2.1.1

Equipment, Labor, or Materials

1.1.3, 1.1.6, 3.4, 3.5, 3.8.2, 3.8.3, 3.12, 3.13, 3.15.1,
4.2.6, 4.2.7, 5.2.1, 6.2.1, 7.3.4, 9.3.2, 9.3.3, 9.5.1.3,
9.10.2, 10.2.1, 10.2.4, 14.2.1.1, 14.2.1.2

Execution and Progress of the Work

1.1.3, 1.2.1, 1.2.2, 2.3.4, 2.3.6, 3.1, 3.3.1, 3.4.1, 3.7.1,
3.10.1, 3.12, 3.14, 4.2, 6.2.2, 7.1.3, 7.3.6, 8.2, 9.5.1,
9.9.1, 10.2, 10.3, 12.1, 12.2, 14.2, 14.3.1, 15.1.4

Extensions of Time
3.2.4, 3.7.4, 5.2.3, 7.2.1, 7.3, 7.4, 9.5.1, 9.7, 10.3.2,
10.4, 14.3, 15.1.6, **15.2.5**

Failure of Payment

9.5.1.3, **9.7**, 9.10.2, 13.5, 14.1.1.3, 14.2.1.2

Faulty Work

(See Defective or Nonconforming Work)

Final Completion and Final Payment

4.2.1, 4.2.9, 9.8.2, **9.10**, 12.3, 14.2.4, 14.4.3

Financial Arrangements, Owner's

2.2.1, 13.2.2, 14.1.1.4

GENERAL PROVISIONS

1

Governing Law

13.1

Guarantees (See Warranty)

Hazardous Materials and Substances

10.2.4, **10.3**

Identification of Subcontractors and Suppliers

5.2.1

Indemnification

3.17, **3.18**, 9.6.8, 9.10.2, 10.3.3, 11.3

Information and Services Required of the Owner

2.1.2, **2.2**, 2.3, 3.2.2, 3.12.10.1, 6.1.3, 6.1.4, 6.2.5,

9.6.1, 9.9.2, 9.10.3, 10.3.3, 11.2, 13.4.1, 13.4.2,

14.1.1.4, 14.1.4, 15.1.4

Initial Decision

15.2

Initial Decision Maker, Definition of

1.1.8

Initial Decision Maker, Decisions

14.2.4, 15.1.4.2, 15.2.1, 15.2.2, 15.2.3, 15.2.4, 15.2.5

Initial Decision Maker, Extent of Authority

14.2.4, 15.1.4.2, 15.2.1, 15.2.2, 15.2.3, 15.2.4, 15.2.5

Injury or Damage to Person or Property

10.2.8, 10.4

Inspections

3.1.3, 3.3.3, 3.7.1, 4.2.2, 4.2.6, 4.2.9, 9.4.2, 9.8.3,

9.9.2, 9.10.1, 12.2.1, 13.4

Instructions to Bidders

1.1.1

Instructions to the Contractor

3.2.4, 3.3.1, 3.8.1, 5.2.1, 7, 8.2.2, 12, 13.4.2

Instruments of Service, Definition of

1.1.7

Insurance

6.1.1, 7.3.4, 8.2.2, 9.3.2, 9.8.4, 9.9.1, 9.10.2, 10.2.5, **11**

Insurance, Notice of Cancellation or Expiration

11.1.4, 11.2.3

Insurance, Contractor's Liability

11.1

Insurance, Effective Date of

8.2.2, 14.4.2

Insurance, Owner's Liability

11.2

Insurance, Property

10.2.5, 11.2, 11.4, 11.5

Insurance, Stored Materials

9.3.2

INSURANCE AND BONDS

11

Insurance Companies, Consent to Partial Occupancy

9.9.1

Insured loss, Adjustment and Settlement of

11.5

Intent of the Contract Documents

1.2.1, 4.2.7, 4.2.12, 4.2.13

Interest

13.5

Interpretation

1.1.8, 1.2.3, **1.4**, 4.1.1, 5.1, 6.1.2, 15.1.1

Interpretations, Written

4.2.11, 4.2.12

Judgment on Final Award

15.4.2

Labor and Materials, Equipment

1.1.3, 1.1.6, **3.4**, 3.5, 3.8.2, 3.8.3, 3.12, 3.13, 3.15.1,

5.2.1, 6.2.1, 7.3.4, 9.3.2, 9.3.3, 9.5.1.3, 9.10.2, 10.2.1,

10.2.4, 14.2.1.1, 14.2.1.2

Labor Disputes

8.3.1

Laws and Regulations

1.5, 2.3.2, 3.2.3, 3.2.4, 3.6, 3.7, 3.12.10, 3.13, 9.6.4,

9.9.1, 10.2.2, 13.1, 13.3.1, 13.4.2, 13.5, 14, 15.2.8,

15.4

Liens

2.1.2, 9.3.1, 9.3.3, 9.6.8, 9.10.2, 9.10.4, 15.2.8

Limitations, Statutes of

12.2.5, 15.1.2, 15.4.1.1

Limitations of Liability

3.2.2, 3.5, 3.12.10, 3.12.10.1, 3.17, 3.18.1, 4.2.6,

4.2.7, 6.2.2, 9.4.2, 9.6.4, 9.6.7, 9.6.8, 10.2.5, 10.3.3,

11.3, 12.2.5, 13.3.1

Limitations of Time

2.1.2, 2.2, 2.5, 3.2.2, 3.10, 3.11, 3.12.5, 3.15.1, 4.2.7,

5.2, 5.3, 5.4.1, 6.2.4, 7.3, 7.4, 8.2, 9.2, 9.3.1, 9.3.3,

9.4.1, 9.5, 9.6, 9.7, 9.8, 9.9, 9.10, 12.2, 13.4, 14, 15,

15.1.2, 15.1.3, 15.1.5

Materials, Hazardous

10.2.4, **10.3**

Materials, Labor, Equipment and

1.1.3, 1.1.6, 3.4.1, 3.5, 3.8.2, 3.8.3, 3.12, 3.13, 3.15.1,

5.2.1, 6.2.1, 7.3.4, 9.3.2, 9.3.3, 9.5.1.3, 9.10.2,

10.2.1.2, 10.2.4, 14.2.1.1, 14.2.1.2

Means, Methods, Techniques, Sequences and

Procedures of Construction

3.3.1, 3.12.10, 4.2.2, 4.2.7, 9.4.2

Mechanic's Lien

2.1.2, 9.3.1, 9.3.3, 9.6.8, 9.10.2, 9.10.4, 15.2.8

Mediation

8.3.1, 15.1.3.2, 15.2.1, 15.2.5, 15.2.6, **15.3**, 15.4.1,

15.4.1.1

Minor Changes in the Work

1.1.1, 3.4.2, 3.12.8, 4.2.8, 7.1, **7.4**

Init.

/

MISCELLANEOUS PROVISIONS

13

Modifications, Definition of

1.1.1

Modifications to the Contract

1.1.1, 1.1.2, 2.5, 3.11, 4.1.2, 4.2.1, 5.2.3, 7, 8.3.1, 9.7, 10.3.2

Mutual Responsibility

6.2

Nonconforming Work, Acceptance of

9.6.6, 9.9.3, **12.3**

Nonconforming Work, Rejection and Correction of
2.4, 2.5, 3.5, 4.2.6, 6.2.4, 9.5.1, 9.8.2, 9.9.3, 9.10.4, 12.2

Notice

1.6, 1.6.1, 1.6.2, 2.1.2, 2.2.2., 2.2.3, 2.2.4, 2.5, 3.2.4, 3.3.1, 3.7.4, 3.7.5, 3.9.2, 3.12.9, 3.12.10, 5.2.1, 7.4, 8.2.2, 9.6.8, 9.7, 9.10.1, 10.2.8, 10.3.2, 11.5, 12.2.2.1, 13.4.1, 13.4.2, 14.1, 14.2.2, 14.4.2, 15.1.3, 15.1.5, 15.1.6, 15.4.1

Notice of Cancellation or Expiration of Insurance

11.1.4, 11.2.3

Notice of Claims

1.6.2, 2.1.2, 3.7.4, 9.6.8, 10.2.8, **15.1.3**, 15.1.5, 15.1.6, 15.2.8, 15.3.2, 15.4.1

Notice of Testing and Inspections

13.4.1, 13.4.2

Observations, Contractor's

3.2, 3.7.4

Occupancy

2.3.1, 9.6.6, 9.8

Orders, Written

1.1.1, 2.4, 3.9.2, 7, 8.2.2, 11.5, 12.1, 12.2.2.1, 13.4.2, 14.3.1

OWNER

2

Owner, Definition of

2.1.1

Owner, Evidence of Financial Arrangements

2.2, 13.2.2, 14.1.1.4

Owner, Information and Services Required of the

2.1.2, **2.2**, 2.3, 3.2.2, 3.12.10, 6.1.3, 6.1.4, 6.2.5, 9.3.2, 9.6.1, 9.6.4, 9.9.2, 9.10.3, 10.3.3, 11.2, 13.4.1, 13.4.2, 14.1.1.4, 14.1.4, 15.1.4

Owner's Authority

1.5, 2.1.1, 2.3.32.4, 2.5, 3.4.2, 3.8.1, 3.12.10, 3.14.2, 4.1.2, 4.2.4, 4.2.9, 5.2.1, 5.2.4, 5.4.1, 6.1, 6.3, 7.2.1, 7.3.1, 8.2.2, 8.3.1, 9.3.2, 9.5.1, 9.6.4, 9.9.1, 9.10.2, 10.3.2, 11.4, 11.5, 12.2.2, 12.3, 13.2.2, 14.3, 14.4, 15.2.7

Owner's Insurance

11.2

Owner's Relationship with Subcontractors

1.1.2, 5.2, 5.3, 5.4, 9.6.4, 9.10.2, 14.2.2

Owner's Right to Carry Out the Work

2.5, 14.2.2

Owner's Right to Clean Up

6.3

Owner's Right to Perform Construction and to Award Separate Contracts

6.1

Owner's Right to Stop the Work

2.4

Owner's Right to Suspend the Work

14.3

Owner's Right to Terminate the Contract

14.2, 14.4

Ownership and Use of Drawings, Specifications and Other Instruments of Service

1.1.1, 1.1.6, 1.1.7, **1.5**, 2.3.6, 3.2.2, 3.11, 3.17, 4.2.12, 5.3

Partial Occupancy or Use

9.6.6, **9.9**

Patching, Cutting and

3.14, 6.2.5

Patents

3.17

Payment, Applications for

4.2.5, 7.3.9, 9.2, **9.3**, 9.4, 9.5, 9.6.3, 9.7, 9.8.5, 9.10.1, 14.2.3, 14.2.4, 14.4.3

Payment, Certificates for

4.2.5, 4.2.9, 9.3.3, **9.4**, 9.5, 9.6.1, 9.6.6, 9.7, 9.10.1, 9.10.3, 14.1.1.3, 14.2.4

Payment, Failure of

9.5.1.3, **9.7**, 9.10.2, 13.5, 14.1.1.3, 14.2.1.2

Payment, Final

4.2.1, 4.2.9, **9.10**, 12.3, 14.2.4, 14.4.3

Payment Bond, Performance Bond and

7.3.4.4, 9.6.7, 9.10.3, **11.1.2**

Payments, Progress

9.3, **9.6**, 9.8.5, 9.10.3, 14.2.3, 15.1.4

PAYMENTS AND COMPLETION

9

Payments to Subcontractors

5.4.2, 9.5.1.3, 9.6.2, 9.6.3, 9.6.4, 9.6.7, 14.2.1.2

PCB

10.3.1

Performance Bond and Payment Bond

7.3.4.4, 9.6.7, 9.10.3, **11.1.2**

Permits, Fees, Notices and Compliance with Laws

2.3.1, **3.7**, 3.13, 7.3.4.4, 10.2.2

PERSONS AND PROPERTY, PROTECTION OF

10

Polychlorinated Biphenyl

10.3.1

Product Data, Definition of

3.12.2

Product Data and Samples, Shop Drawings

3.11, **3.12**, 4.2.7

Progress and Completion

4.2.2, **8.2**, 9.8, 9.9.1, 14.1.4, 15.1.4

Progress Payments

9.3, **9.6**, 9.8.5, 9.10.3, 14.2.3, 15.1.4

Project, Definition of
1.1.4
Project Representatives
4.2.10
Property Insurance
10.2.5, **11.2**
Proposal Requirements
1.1.1
PROTECTION OF PERSONS AND PROPERTY
10
Regulations and Laws
1.5, 2.3.2, 3.2.3, 3.6, 3.7, 3.12.10, 3.13, 9.6.4, 9.9.1,
10.2.2, 13.1, 13.3, 13.4.1, 13.4.2, 13.5, 14, 15.2.8, 15.4
Rejection of Work
4.2.6, 12.2.1
Releases and Waivers of Liens
9.3.1, 9.10.2
Representations
3.2.1, 3.5, 3.12.6, 8.2.1, 9.3.3, 9.4.2, 9.5.1, 9.10.1
Representatives
2.1.1, 3.1.1, 3.9, 4.1.1, 4.2.10, 13.2.1
Responsibility for Those Performing the Work
3.3.2, 3.18, 4.2.2, 4.2.3, 5.3, 6.1.3, 6.2, 6.3, 9.5.1, 10
Retainage
9.3.1, 9.6.2, 9.8.5, 9.9.1, 9.10.2, 9.10.3
Review of Contract Documents and Field
Conditions by Contractor
3.2, 3.12.7, 6.1.3
Review of Contractor's Submittals by Owner and
Architect
3.10.1, 3.10.2, 3.11, 3.12, 4.2, 5.2, 6.1.3, 9.2, 9.8.2
Review of Shop Drawings, Product Data and Samples
by Contractor
3.12
Rights and Remedies
1.1.2, 2.4, 2.5, 3.5, 3.7.4, 3.15.2, 4.2.6, 5.3, 5.4, 6.1,
6.3, 7.3.1, 8.3, 9.5.1, 9.7, 10.2.5, 10.3, 12.2.1, 12.2.2,
12.2.4, **13.3**, 14, 15.4
Royalties, Patents and Copyrights
3.17
Rules and Notices for Arbitration
15.4.1
Safety of Persons and Property
10.2, 10.4
Safety Precautions and Programs
3.3.1, 4.2.2, 4.2.7, 5.3, **10.1**, 10.2, 10.4
Samples, Definition of
3.12.3
Samples, Shop Drawings, Product Data and
3.11, **3.12**, 4.2.7
Samples at the Site, Documents and
3.11
Schedule of Values
9.2, 9.3.1
Schedules, Construction
3.10, 3.12.1, 3.12.2, 6.1.3, 15.1.6.2

Separate Contracts and Contractors
1.1.4, 3.12.5, 3.14.2, 4.2.4, 4.2.7, 6, 8.3.1, 12.1.2
Separate Contractors, Definition of
6.1.1
Shop Drawings, Definition of
3.12.1
Shop Drawings, Product Data and Samples
3.11, **3.12**, 4.2.7
Site, Use of
3.13, 6.1.1, 6.2.1
Site Inspections
3.2.2, 3.3.3, 3.7.1, 3.7.4, 4.2, 9.9.2, 9.4.2, 9.10.1, 13.4
Site Visits, Architect's
3.7.4, 4.2.2, 4.2.9, 9.4.2, 9.5.1, 9.9.2, 9.10.1, 13.4
Special Inspections and Testing
4.2.6, 12.2.1, 13.4
Specifications, Definition of
1.1.6
Specifications
1.1.1, **1.1.6**, 1.2.2, 1.5, 3.12.10, 3.17, 4.2.14
Statute of Limitations
15.1.2, 15.4.1.1
Stopping the Work
2.2.2, 2.4, 9.7, 10.3, 14.1
Stored Materials
6.2.1, 9.3.2, 10.2.1.2, 10.2.4
Subcontractor, Definition of
5.1.1
SUBCONTRACTORS
5
Subcontractors, Work by
1.2.2, 3.3.2, 3.12.1, 3.18, 4.2.3, 5.2.3, 5.3, 5.4, 9.3.1.2,
9.6.7
Subcontractual Relations
5.3, 5.4, 9.3.1.2, 9.6, 9.10, 10.2.1, 14.1, 14.2.1
Submittals
3.10, 3.11, 3.12, 4.2.7, 5.2.1, 5.2.3, 7.3.4, 9.2, 9.3, 9.8,
9.9.1, 9.10.2, 9.10.3
Submittal Schedule
3.10.2, 3.12.5, 4.2.7
Subrogation, Waivers of
6.1.1, **11.3**
Substances, Hazardous
10.3
Substantial Completion
4.2.9, 8.1.1, 8.1.3, 8.2.3, 9.4.2, **9.8**, 9.9.1, 9.10.3, 12.2,
15.1.2
Substantial Completion, Definition of
9.8.1
Substitution of Subcontractors
5.2.3, 5.2.4
Substitution of Architect
2.3.3
Substitutions of Materials
3.4.2, 3.5, 7.3.8
Sub-subcontractor, Definition of
5.1.2

Subsurface Conditions
3.7.4

Successors and Assigns
13.2

Superintendent
3.9, 10.2.6

Supervision and Construction Procedures
1.2.2, **3.3**, 3.4, 3.12.10, 4.2.2, 4.2.7, 6.1.3, 6.2.4, 7.1.3,
7.3.4, 8.2, 8.3.1, 9.4.2, 10, 12, 14, 15.1.4

Suppliers
1.5, 3.12.1, 4.2.4, 4.2.6, 5.2.1, 9.3, 9.4.2, 9.5.4, 9.6,
9.10.5, 14.2.1

Surety
5.4.1.2, 9.6.8, 9.8.5, 9.10.2, 9.10.3, 11.1.2, 14.2.2,
15.2.7

Surety, Consent of
9.8.5, 9.10.2, 9.10.3

Surveys
1.1.7, 2.3.4

Suspension by the Owner for Convenience
14.3

Suspension of the Work
3.7.5, 5.4.2, 14.3
Suspension or Termination of the Contract
5.4.1.1, 14

Taxes
3.6, 3.8.2.1, 7.3.4.4

Termination by the Contractor
14.1, 15.1.7

Termination by the Owner for Cause
5.4.1.1, **14.2**, 15.1.7

Termination by the Owner for Convenience
14.4

Termination of the Architect
2.3.3
Termination of the Contractor Employment
14.2.2

**TERMINATION OR SUSPENSION OF THE
CONTRACT**

14

Tests and Inspections
3.1.3, 3.3.3, 3.7.1, 4.2.2, 4.2.6, 4.2.9, 9.4.2, 9.8.3,
9.9.2, 9.10.1, 10.3.2, 12.2.1, **13.4**

TIME
8

Time, Delays and Extensions of
3.2.4, 3.7.4, 5.2.3, 7.2.1, 7.3.1, 7.4, **8.3**, 9.5.1, 9.7,
10.3.2, 10.4, 14.3.2, 15.1.6, 15.2.5

Time Limits

2.1.2, 2.2, 2.5, 3.2.2, 3.10, 3.11, 3.12.5, 3.15.1, 4.2,
5.2, 5.3, 5.4, 6.2.4, 7.3, 7.4, 8.2, 9.2, 9.3.1, 9.3.3, 9.4.1,
9.5, 9.6, 9.7, 9.8, 9.9, 9.10, 12.2, 13.4, 14, 15.1.2,
15.1.3, 15.4

Time Limits on Claims

3.7.4, 10.2.8, 15.1.2, 15.1.3

Title to Work

9.3.2, 9.3.3

UNCOVERING AND CORRECTION OF WORK
12

Uncovering of Work
12.1

Unforeseen Conditions, Concealed or Unknown
3.7.4, 8.3.1, 10.3

Unit Prices

7.3.3.2, 9.1.2

Use of Documents

1.1.1, 1.5, 2.3.6, 3.12.6, 5.3

Use of Site

3.13, 6.1.1, 6.2.1

Values, Schedule of
9.2, 9.3.1

Waiver of Claims by the Architect
13.3.2

Waiver of Claims by the Contractor
9.10.5, 13.3.2, **15.1.7**

Waiver of Claims by the Owner
9.9.3, 9.10.3, 9.10.4, 12.2.2.1, 13.3.2, 14.2.4, **15.1.7**

Waiver of Consequential Damages
14.2.4, 15.1.7

Waiver of Liens
9.3, 9.10.2, 9.10.4

Waivers of Subrogation
6.1.1, **11.3**

Warranty
3.5, 4.2.9, 9.3.3, 9.8.4, 9.9.1, 9.10.2, 9.10.4, 12.2.2,
15.1.2

Weather Delays
8.3, 15.1.6.2

Work, Definition of
1.1.3

Written Consent
1.5.2, 3.4.2, 3.7.4, 3.12.8, 3.14.2, 4.1.2, 9.3.2, 9.10.3,
13.2, 13.3.2, 15.4.4.2

Written Interpretations
4.2.11, 4.2.12

Written Orders

1.1.1, 2.4, 3.9, 7, 8.2.2, 12.1, 12.2, 13.4.2, 14.3.1

ARTICLE 1 GENERAL PROVISIONS

§ 1.1 Basic Definitions

§ 1.1.1 The Contract Documents

The Contract Documents are enumerated in the Agreement between the Owner and Contractor (hereinafter the Agreement) and consist of the Agreement, Conditions of the Contract (General, Supplementary and other Conditions), Drawings, Specifications, Addenda issued prior to execution of the Contract, other documents listed in the Agreement, and Modifications issued after execution of the Contract. A Modification is (1) a written amendment to the Contract signed by both parties, (2) a Change Order, (3) a Construction Change Directive, or (4) a written order for a minor change in the Work issued by the Architect. Unless specifically enumerated in the Agreement, the Contract Documents do not include the advertisement or invitation to bid, Instructions to Bidders, sample forms, other information furnished by the Owner in anticipation of receiving bids or proposals, the Contractor's bid or proposal, or portions of Addenda relating to bidding or proposal requirements.

§ 1.1.2 The Contract

The Contract Documents form the Contract for Construction. The Contract represents the entire and integrated agreement between the parties hereto and supersedes prior negotiations, representations, or agreements, either written or oral. The Contract may be amended or modified only by a Modification. The Contract Documents shall not be construed to create a contractual relationship of any kind (1) between the Contractor and the Architect or the Architect's consultants, (2) between the Owner and a Subcontractor or a Sub-subcontractor, (3) between the Owner and the Architect or the Architect's consultants, or (4) between any persons or entities other than the Owner and the Contractor. The Architect shall, however, be entitled to performance and enforcement of obligations under the Contract intended to facilitate performance of the Architect's duties.

§ 1.1.3 The Work

The term "Work" means the construction and services required by the Contract Documents, whether completed or partially completed, and includes all other labor, materials, equipment, and services provided or to be provided by the Contractor to fulfill the Contractor's obligations. The Work may constitute the whole or a part of the Project.

§ 1.1.4 The Project

The Project is the total construction of which the Work performed under the Contract Documents may be the whole or a part and which may include construction by the Owner and by Separate Contractors.

§ 1.1.5 The Drawings

The Drawings are the graphic and pictorial portions of the Contract Documents showing the design, location and dimensions of the Work, generally including plans, elevations, sections, details, schedules, and diagrams.

§ 1.1.6 The Specifications

The Specifications are that portion of the Contract Documents consisting of the written requirements for materials, equipment, systems, standards and workmanship for the Work, and performance of related services.

§ 1.1.7 Instruments of Service

Instruments of Service are representations, in any medium of expression now known or later developed, of the tangible and intangible creative work performed by the Architect and the Architect's consultants under their respective professional services agreements. Instruments of Service may include, without limitation, studies, surveys, models, sketches, drawings, **Project Manual**, specifications, and other similar materials.

§ 1.1.8 Initial Decision Maker

The Initial Decision Maker is the person identified in the Agreement to render initial decisions on Claims in accordance with Section 15.2. The Initial Decision Maker shall not show partiality to the Owner or Contractor and shall not be liable for results of interpretations or decisions rendered in good faith.

§ 1.2 Correlation and Intent of the Contract Documents

§ 1.2.1 The intent of the Contract Documents is to include all items necessary for the proper execution and completion of the Work by the Contractor. The Contract Documents are complementary, and what is required by one shall be as binding as if required by all; performance by the Contractor shall be required only to the extent consistent with the Contract Documents and reasonably inferable from them as being necessary to produce the indicated results.

§ 1.2.1.1 The invalidity of any provision of the Contract Documents shall not invalidate the Contract or its remaining provisions. If it is determined that any provision of the Contract Documents violates any law, or is otherwise invalid or unenforceable, then that provision shall be revised to the extent necessary to make that provision legal and enforceable. In such case the Contract Documents shall be construed, to the fullest extent permitted by law, to give effect to the parties' intentions and purposes in executing the Contract.

§ 1.2.2 Organization of the Specifications into divisions, sections and articles, and arrangement of Drawings shall not control the Contractor in dividing the Work among Subcontractors or in establishing the extent of Work to be performed by any trade.

§ 1.2.3 Unless otherwise stated in the Contract Documents, words that have well-known technical or construction industry meanings are used in the Contract Documents in accordance with such recognized meanings.

§ 1.3 Capitalization

Terms capitalized in these General Conditions include those that are (1) specifically defined, (2) the titles of numbered articles, or (3) the titles of other documents published by the American Institute of Architects.

§ 1.4 Interpretation

In the interest of brevity the Contract Documents frequently omit modifying words such as "all" and "any" and articles such as "the" and "an," but the fact that a modifier or an article is absent from one statement and appears in another is not intended to affect the interpretation of either statement.

§ 1.5 Ownership and Use of Drawings, Specifications, and Other Instruments of Service

§ 1.5.1 The Architect and the Architect's consultants shall be deemed the authors and owners of their respective Instruments of Service, including the Drawings and Specifications, and retain all common law, statutory, and other reserved rights in their Instruments of Service, including copyrights. The Contractor, Subcontractors, Sub-subcontractors, and suppliers shall not own or claim a copyright in the Instruments of Service. Submittal or distribution to meet official regulatory requirements or for other purposes in connection with the Project is not to be construed as publication in derogation of the Architect's or Architect's consultants' reserved rights.

§ 1.5.2 The Contractor, Subcontractors, Sub-subcontractors, and suppliers are authorized to use and reproduce the Instruments of Service provided to them, subject to any protocols established pursuant to Sections 1.7 and 1.8, solely and exclusively for execution of the Work. All copies made under this authorization shall bear the copyright notice, if any, shown on the Instruments of Service. The Contractor, Subcontractors, Sub-subcontractors, and suppliers may not use the Instruments of Service on other projects or for additions to the Project outside the scope of the Work without the specific written consent of the Owner, Architect, and the Architect's consultants.

§ 1.6 Notice

§ 1.6.1 Except as otherwise provided in Section 1.6.2, where the Contract Documents require one party to notify or give notice to the other party, such notice shall be provided in writing to the designated representative of the party to whom the notice is addressed and shall be deemed to have been duly served if delivered in person, by mail, by courier, or by electronic transmission if a method for electronic transmission is set forth in the Agreement.

§ 1.6.2 Notice of Claims as provided in Section 15.1.3 shall be provided in writing and shall be deemed to have been duly served only if delivered to the designated representative of the party to whom the notice is addressed by certified or registered mail, or by courier providing proof of delivery.

| *(Paragraphs deleted)*

ARTICLE 2 OWNER

§ 2.1 General

§ 2.1.1 The Owner is the person or entity identified as such in the Agreement and is referred to throughout the Contract Documents as if singular in number. The Owner shall designate in writing a representative who shall have express authority to bind the Owner with respect to all matters requiring the Owner's approval or authorization. Except as otherwise provided in Section 4.2.1, the Architect does not have such authority. The term "Owner" means the Owner or the Owner's authorized representative.

(Paragraph deleted)

§ 2.2 Evidence of the Owner's Financial Arrangements

§ 2.2.1 Prior to commencement of the Work and upon written request by the Contractor, the Owner shall furnish to the Contractor reasonable evidence that the Owner has made financial arrangements to fulfill the Owner's obligations under the Contract. The Contractor shall have no obligation to commence the Work until the Owner provides such evidence. If commencement of the Work is delayed under this Section 2.2.1, the Contract Time shall be extended appropriately.

§ 2.2.2 Following commencement of the Work and upon written request by the Contractor, the Owner shall furnish to the Contractor reasonable evidence that the Owner has made financial arrangements to fulfill the Owner's obligations under the Contract only if (1) the Owner fails to make payments to the Contractor as the Contract Documents require; (2) the Contractor identifies in writing a reasonable concern regarding the Owner's ability to make payment when due; or (3) a change in the Work materially changes the Contract Sum. If the Owner fails to provide such evidence, as required, within fourteen days of the Contractor's request, the Contractor may immediately stop the Work and, in that event, shall notify the Owner that the Work has stopped. However, if the request is made because a change in the Work materially changes the Contract Sum under (3) above, the Contractor may immediately stop only that portion of the Work affected by the change until reasonable evidence is provided. If the Work is stopped under this Section 2.2.2, the Contract Time shall be extended appropriately and the Contract Sum shall be increased by the amount of the Contractor's reasonable costs of shutdown, delay and start-up, plus interest as provided in the Contract Documents.

§ 2.2.3 After the Owner furnishes evidence of financial arrangements under this Section 2.2, the Owner shall not materially vary such financial arrangements without prior notice to the Contractor.

§ 2.2.4 Where the Owner has designated information furnished under this Section 2.2 as "confidential," the Contractor shall keep the information confidential and shall not disclose it to any other person. However, the Contractor may disclose "confidential" information, after seven (7) days' notice to the Owner, where disclosure is required by law, including a subpoena or other form of compulsory legal process issued by a court or governmental entity, or by court or arbitrator(s) order. The Contractor may also disclose "confidential" information to its employees, consultants, sureties, Subcontractors and their employees, Sub-subcontractors, and others who need to know the content of such information solely and exclusively for the Project and who agree to maintain the confidentiality of such information.

§ 2.3 Information and Services Required of the Owner

§ 2.3.1 Except for permits and fees that are the responsibility of the Contractor under the Contract Documents, including those required under Section 3.7.1, the Owner shall secure and pay for necessary approvals, easements, assessments and charges required for construction, use or occupancy of permanent structures or for permanent changes in existing facilities.

§ 2.3.2 The Owner shall retain an architect lawfully licensed to practice architecture, or an entity lawfully practicing architecture, in the jurisdiction where the Project is located. That person or entity is identified as the Architect in the Agreement and is referred to throughout the Contract Documents as if singular in number.

§ 2.3.3 If the employment of the Architect terminates, the Owner shall employ a successor to whom the Contractor has no reasonable objection and whose status under the Contract Documents shall be that of the Architect.

§ 2.3.4 The Owner shall furnish surveys describing physical characteristics, legal limitations and utility locations for the site of the Project, and a legal description of the site. The Contractor shall be entitled to rely on the accuracy of

information furnished by the Owner but shall exercise proper precautions relating to the safe performance of the Work.

§ 2.3.5 The Owner shall furnish information or services required of the Owner by the Contract Documents with reasonable promptness. The Owner shall also furnish any other information or services under the Owner's control and relevant to the Contractor's performance of the Work with reasonable promptness after receiving the Contractor's written request for such information or services.

§ 2.3.6 Unless otherwise provided in the Contract Documents, the Owner shall furnish to the Contractor one copy of the Contract Documents for purposes of making reproductions pursuant to Section 1.5.2.

§ 2.4 Owner's Right to Stop the Work

If the Contractor fails to correct Work that is not in accordance with the requirements of the Contract Documents as required by Section 12.2 or repeatedly fails to carry out Work in accordance with the Contract Documents, the Owner may issue a written order to the Contractor to stop the Work, or any portion thereof, until the cause for such order has been eliminated; however, the right of the Owner to stop the Work shall not give rise to a duty on the part of the Owner to exercise this right for the benefit of the Contractor or any other person or entity, except to the extent required by Section 6.1.3.

§ 2.5 Owner's Right to Carry Out the Work

If the Contractor defaults or neglects to carry out the Work in accordance with the Contract Documents and fails within a ten-day period after receipt of notice from the Owner to commence and continue correction of such default or neglect with diligence and promptness, the Owner may, without prejudice to other remedies the Owner may have, correct such default or neglect. Such action by the Owner and amounts charged to the Contractor are both subject to prior approval of the Architect and the Architect may, pursuant to Section 9.5.1, withhold or nullify a Certificate for Payment in whole or in part, to the extent reasonably necessary to reimburse the Owner for the reasonable cost of correcting such deficiencies, including Owner's expenses and compensation for the Architect's additional services made necessary by such default, neglect, or failure. If current and future payments are not sufficient to cover such amounts, the Contractor shall pay the difference to the Owner. If the Contractor disagrees with the actions of the Owner or the Architect, or the amounts claimed as costs to the Owner, the Contractor may file a Claim pursuant to Article 15.

ARTICLE 3 CONTRACTOR

§ 3.1 General

§ 3.1.1 The Contractor is the person or entity identified as such in the Agreement and is referred to throughout the Contract Documents as if singular in number. The Contractor shall be lawfully licensed, if required in the jurisdiction where the Project is located. The Contractor shall designate in writing a representative who shall have express authority to bind the Contractor with respect to all matters under this Contract. The term "Contractor" means the Contractor or the Contractor's authorized representative.

§ 3.1.2 The Contractor shall perform the Work in accordance with the Contract Documents.

§ 3.1.3 The Contractor shall not be relieved of its obligations to perform the Work in accordance with the Contract Documents either by activities or duties of the Architect in the Architect's administration of the Contract, or by tests, inspections or approvals required or performed by persons or entities other than the Contractor.

§ 3.2 Review of Contract Documents and Field Conditions by Contractor

§ 3.2.1 Execution of the Contract by the Contractor is a representation that the Contractor has visited the site, become generally familiar with local conditions under which the Work is to be performed, and correlated personal observations with requirements of the Contract Documents.

§ 3.2.2 Because the Contract Documents are complementary, the Contractor shall, before starting each portion of the Work, carefully study and compare the various Contract Documents relative to that portion of the Work, as well as the information furnished by the Owner pursuant to Section 2.3.4, shall take field measurements of any existing conditions related to that portion of the Work, and shall observe any conditions at the site affecting it. These obligations are for the purpose of facilitating coordination and construction by the Contractor and are not for the purpose of discovering errors, omissions, or inconsistencies in the Contract Documents; however, the Contractor shall

promptly report to the Architect any errors, inconsistencies or omissions discovered by or made known to the Contractor as a request for information in such form as the Architect may require. It is recognized that the Contractor's review is made in the Contractor's capacity as a contractor and not as a licensed design professional, unless otherwise specifically provided in the Contract Documents.

§ 3.2.3 The Contractor is not required to ascertain that the Contract Documents are in accordance with applicable laws, statutes, ordinances, codes, rules and regulations, or lawful orders of public authorities, but the Contractor shall promptly report to the Architect any nonconformity discovered by or made known to the Contractor as a request for information in such form as the Architect may require.

§ 3.2.4 If the Contractor believes that additional cost or time is involved because of clarifications or instructions the Architect issues in response to the Contractor's notices or requests for information pursuant to Sections 3.2.2 or 3.2.3, the Contractor shall submit Claims as provided in Article 15. If the Contractor fails to perform the obligations of Sections 3.2.2 or 3.2.3, the Contractor shall pay such costs and damages to the Owner, subject to Section 15.1.7, as would have been avoided if the Contractor had performed such obligations. If the Contractor performs those obligations, the Contractor shall not be liable to the Owner or Architect for damages resulting from errors, inconsistencies or omissions in the Contract Documents, for differences between field measurements or conditions and the Contract Documents, or for nonconformities of the Contract Documents to applicable laws, statutes, ordinances, codes, rules and regulations, and lawful orders of public authorities.

§ 3.3 Supervision and Construction Procedures

§ 3.3.1 The Contractor shall supervise and direct the Work, using the Contractor's best skill and attention. The Contractor shall be solely responsible for, and have control over, construction means, methods, techniques, sequences, and procedures, and for coordinating all portions of the Work under the Contract. If the Contract Documents give specific instructions concerning construction means, methods, techniques, sequences, or procedures, the Contractor shall evaluate the jobsite safety thereof and shall be solely responsible for the jobsite safety of such means, methods, techniques, sequences, or procedures. If the Contractor determines that such means, methods, techniques, sequences or procedures may not be safe, the Contractor shall give timely notice to the Owner and Architect, and shall propose alternative means, methods, techniques, sequences, or procedures. The Architect shall evaluate the proposed alternative solely for conformance with the design intent for the completed construction. Unless the Architect objects to the Contractor's proposed alternative, the Contractor shall perform the Work using its alternative means, methods, techniques, sequences, or procedures.

§ 3.3.2 The Contractor shall be responsible to the Owner for acts and omissions of the Contractor's employees, Subcontractors and their agents and employees, and other persons or entities performing portions of the Work for, or on behalf of, the Contractor or any of its Subcontractors.

§ 3.3.3 The Contractor shall be responsible for inspection of portions of Work already performed to determine that such portions are in proper condition to receive subsequent Work.

§ 3.3.4 **Three (3) days after the opening of the Bids, the Contractor shall furnish for written approval, an outline of the education, experience, and character of the Contractor's Project Manager, Superintendent, and Engineer. Any future substitution must have prior written approval of the Architect.**

§ 3.4 Labor and Materials

§ 3.4.1 Unless otherwise provided in the Contract Documents, the Contractor shall provide and pay for labor, materials, equipment, tools, construction equipment and machinery, water, heat, utilities, transportation, and other facilities and services necessary for proper execution and completion of the Work, whether temporary or permanent and whether or not incorporated or to be incorporated in the Work.

§ 3.4.2 Except in the case of minor changes in the Work approved by the Architect in accordance with Section 3.12.8 or ordered by the Architect in accordance with Section 7.4, the Contractor may make substitutions only with the consent of the Owner, after evaluation by the Architect and in accordance with a Change Order or Construction Change Directive.

§ 3.4.3 The Contractor shall enforce strict discipline and good order among the Contractor's employees and other persons carrying out the Work. The Contractor shall not permit employment of unfit persons or persons not properly skilled in tasks assigned to them.

§ 3.4.4 The Contractor's or his/her Subcontractor's supervisors and workmen engaged on special work or skilled Work in any supervisory position or trade shall be qualified and have had sufficient education, training, and experience as a recognized professional or master mechanic in such Work to perform it properly and satisfactorily as prescribed in the Contract Documents.

§ 3.4.5 Any project manager, superintendent, engineer, foreman, or workman employed by the Contractor or by a Subcontractor who, in the sole opinion of the Architect, does not perform his/her Work in a proper and skillful manner or becomes party to disrespectful, intemperate, disorderly, intoxicated, or dishonest behavior, or uses foul language, fights, commits criminal act(s), falsifies records and construction, covers-up faulty Work or materials, does not comprehend or follow instructions, does not get along with the Architect or Owner's representative, or is otherwise objectionable, shall at the written request by the Architect, be discharged 24 hours by the Contractor or Subcontractor employing such project manager, superintendent, engineer, foreman or workman, and shall not be employed again or any portion of the Work without the written consent of the Architect.

§ 3.4.6 Should the Contractor fail to remove such person or persons specified in Article 3.4.5 hereinabove or fail to furnish suitable and sufficient machinery, equipment, materials or qualified labor force for the proper execution of the Work, the Architect may withhold all payments which are or may become due to the Contractor or may suspend the Work until such orders are complied with.

§ 3.4.7 Contractor shall abide by provisions of Section 14.1 and Section 14.2, Code of the City of Mobile, originally adopted December 10, 1991. Prohibiting Discrimination in Employment by Contractors, Subcontractors, and Vendors performing Work and providing materials and supplies for the City of Mobile. A copy of said Code is located in the City's Projects Architectural Engineering Department. Certification of compliance with this requirement shall be made for all persons involved in the Work by the signature of the General Conditions on the Bid Form.

§ 3.5 Warranty

§ 3.5.1 The Contractor warrants to the Owner and Architect that materials and equipment furnished under the Contract will be of good quality and new unless the Contract Documents require or permit otherwise. The Contractor further warrants that the Work will conform to the requirements of the Contract Documents and will be free from defects, except for those inherent in the quality of the Work the Contract Documents require or permit. Work, materials, or equipment not conforming to these requirements may be considered defective. The Contractor's warranty excludes remedy for damage or defect caused by abuse, alterations to the Work not executed by the Contractor, improper or insufficient maintenance, improper operation, or normal wear and tear and normal usage. If required by the Architect, the Contractor shall furnish satisfactory evidence as to the kind and quality of materials and equipment.

§ 3.5.2 All material, equipment, or other special warranties required by the Contract Documents shall be issued in the name of the Owner, or shall be transferable to the Owner, and shall commence in accordance with Section 9.8.4.

§ 3.6 Taxes

The Contractor shall pay sales, consumer, use and similar taxes for the Work provided by the Contractor that are legally enacted when bids are received or negotiations concluded, whether or not yet effective or merely scheduled to go into effect.

§ 3.7 Permits, Fees, Notices and Compliance with Laws

§ 3.7.1 Unless otherwise provided in the Contract Documents, the Contractor shall **City of Mobile building permit without cost, and shall secure and pay for** other permits, fees, licenses, and inspections by government agencies necessary for proper execution and completion of the Work that are customarily secured after execution of the Contract and legally required at the time bids are received or negotiations concluded.

§ 3.7.1.1 The Contractor shall secure building and other permits customarily obtained from the City of Mobile at no cost.

§ 3.7.2 The Contractor shall comply with and give notices required by applicable laws, statutes, ordinances, codes, rules and regulations, and lawful orders of public authorities applicable to performance of the Work.

§ 3.7.3 If the Contractor performs Work knowing it to be contrary to applicable laws, statutes, ordinances, codes, rules and regulations, or lawful orders of public authorities, the Contractor shall assume appropriate responsibility for such Work and shall bear the costs attributable to correction.

§ 3.7.4 Concealed or Unknown Conditions

If the Contractor encounters conditions at the site that are (1) subsurface or otherwise concealed physical conditions that differ materially from those indicated in the Contract Documents or (2) unknown physical conditions of an unusual nature that differ materially from those ordinarily found to exist and generally recognized as inherent in construction activities of the character provided for in the Contract Documents, the Contractor shall promptly provide notice to the Owner and the Architect before conditions are disturbed and in no event later than 14 days after first observance of the conditions. The Architect will promptly investigate such conditions and, if the Architect determines that they differ materially and cause an increase or decrease in the Contractor's cost of, or time required for, performance of any part of the Work, will recommend that an equitable adjustment be made in the Contract Sum or Contract Time, or both. If the Architect determines that the conditions at the site are not materially different from those indicated in the Contract Documents and that no change in the terms of the Contract is justified, the Architect shall promptly notify the Owner and Contractor, stating the reasons. If either party disputes the Architect's determination or recommendation, that party may submit a Claim as provided in Article 15.

§ 3.7.5 If, in the course of the Work, the Contractor encounters human remains or recognizes the existence of burial markers, archaeological sites or wetlands not indicated in the Contract Documents, the Contractor shall immediately suspend any operations that would affect them and shall notify the Owner and Architect. Upon receipt of such notice, the Owner shall promptly take any action necessary to obtain governmental authorization required to resume the operations. The Contractor shall continue to suspend such operations until otherwise instructed by the Owner but shall continue with all other operations that do not affect those remains or features. Requests for adjustments in the Contract Sum and Contract Time arising from the existence of such remains or features may be made as provided in Article 15.

§ 3.8 Allowances

§ 3.8.1 The Contractor shall include in the Contract Sum all allowances stated in the Contract Documents. Items covered by allowances shall be supplied for such amounts and by such persons or entities as the Owner may direct, but the Contractor shall not be required to employ persons or entities to whom the Contractor has reasonable objection.

§ 3.8.2 Unless otherwise provided in the Contract Documents,

- .1 allowances shall cover the cost to the Contractor of materials and equipment delivered at the site and all required taxes, less applicable trade discounts;
- .2 Contractor's costs for unloading and handling at the site, labor, installation costs, overhead, profit, and other expenses contemplated for stated allowance amounts shall be included in the Contract Sum but not in the allowances; and
- .3 whenever costs are more than or less than allowances, the Contract Sum shall be adjusted accordingly by Change Order. The amount of the Change Order shall reflect (1) the difference between actual costs and the allowances under Section 3.8.2.1 and (2) changes in Contractor's costs under Section 3.8.2.2.

§ 3.8.3 Materials and equipment under an allowance shall be selected by the Owner with reasonable promptness.

§ 3.9 Superintendent

§ 3.9.1 The Contractor shall employ a competent superintendent and necessary assistants who shall be in attendance at the Project site during performance of the Work. The superintendent shall represent the Contractor, and communications given to the superintendent shall be as binding as if given to the Contractor.

§ 3.9.2 The Contractor, as soon as practicable after award of the Contract, shall notify the Owner and Architect of the name and qualifications of a proposed superintendent. Within 14 days of receipt of the information, the Architect may notify the Contractor, stating whether the Owner or the Architect (1) has reasonable objection to the proposed

superintendent or (2) requires additional time for review. Failure of the Architect to provide notice within the 14-day period shall constitute notice of no reasonable objection.

§ 3.9.3 The Contractor shall not employ a proposed superintendent to whom the Owner or Architect has made reasonable and timely objection. The Contractor shall not change the superintendent without the Owner's consent, which shall not unreasonably be withheld or delayed.

§ 3.10 Contractor's Construction and Submittal Schedules

§ 3.10.1 The Contractor, **within ten (10) business days** after being awarded the Contract, shall submit for the Owner's and Architect's information a Contractor's construction schedule for the Work. The schedule shall contain detail appropriate for the Project, including (1) the date of commencement of the Work, interim schedule milestone dates, and the date of Substantial Completion; (2) an apportionment of the Work by construction activity; and (3) the time required for completion of each portion of the Work. The schedule shall provide for the orderly progression of the Work to completion and shall not exceed time limits current under the Contract Documents. The schedule shall be revised at appropriate intervals as required by the conditions of the Work and Project.

§ 3.10.2 The Contractor, promptly after being awarded the Contract and thereafter as necessary to maintain a current submittal schedule, shall submit a submittal schedule for the Architect's approval. The Architect's approval shall not be unreasonably delayed or withheld. The submittal schedule shall (1) be coordinated with the Contractor's construction schedule, and (2) allow the Architect reasonable time to review submittals. If the Contractor fails to submit a submittal schedule, or fails to provide submittals in accordance with the approved submittal schedule, the Contractor shall not be entitled to any increase in Contract Sum or extension of Contract Time based on the time required for review of submittals.

§ 3.10.3 The Contractor shall perform the Work in general accordance with the most recent schedules submitted to the Owner and Architect.

§ 3.11 Documents and Samples at the Site

The Contractor shall make available, at the Project site, the Contract Documents, including Change Orders, Construction Change Directives, and other Modifications, in good order and marked currently to indicate field changes and selections made during construction, and the approved Shop Drawings, Product Data, Samples, and similar required submittals. These shall be in electronic form or paper copy, available to the Architect and Owner, and delivered to the Architect for submittal to the Owner upon completion of the Work as a record of the Work as constructed.

§ 3.12 Shop Drawings, Product Data and Samples

§ 3.12.1 Shop Drawings are drawings, diagrams, schedules, and other data specially prepared for the Work by the Contractor or a Subcontractor, Sub-subcontractor, manufacturer, supplier, or distributor to illustrate some portion of the Work.

§ 3.12.2 Product Data are illustrations, standard schedules, performance charts, instructions, brochures, diagrams, and other information furnished by the Contractor to illustrate materials or equipment for some portion of the Work.

§ 3.12.3 Samples are physical examples that illustrate materials, equipment, or workmanship, and establish standards by which the Work will be judged.

§ 3.12.4 Shop Drawings, Product Data, Samples, and similar submittals are not Contract Documents. Their purpose is to demonstrate how the Contractor proposes to conform to the information given and the design concept expressed in the Contract Documents for those portions of the Work for which the Contract Documents require submittals. Review by the Architect is subject to the limitations of Section 4.2.7. Informational submittals upon which the Architect is not expected to take responsive action may be so identified in the Contract Documents. Submittals that are not required by the Contract Documents may be returned by the Architect without action.

§ 3.12.5 The Contractor shall review for compliance with the Contract Documents, approve, and submit to the Architect, Shop Drawings, Product Data, Samples, and similar submittals required by the Contract Documents with reasonable promptness and in such sequence as to cause no delay in the Work or in the activities of the Owner or of Separate Contractors. **Submittals which are not marked as reviewed for compliance with the Contract**

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Documents and approved by the Contractor may be returned by the Architect without action. Wherever Shop Drawings are required in these Specifications, Shop Drawings shall be submitted for approval before materials are fabricated. Drawings shall show complete details. The General Contractor shall check and approve them either in writing or by stamp before forwarding to the Architect. The Architect will mark copies "Approved" if correct; or, "Approved As Noted" if only minor corrections are necessary. If major corrections are necessary, they will be noted on the Shop Drawings and they will be returned to the Contractor for correction and resubmission. Submit four (4) copies for Architect's and Owner's use plus the number of copies the Contractor requires for his/her own use.

§ 3.12.6 By submitting Shop Drawings, Product Data, Samples, and similar submittals, the Contractor represents to the Owner and Architect that the Contractor has (1) reviewed and approved them, (2) determined and verified materials, field measurements and field construction criteria related thereto, or will do so, and (3) checked and coordinated the information contained within such submittals with the requirements of the Work and of the Contract Documents.

§ 3.12.7 The Contractor shall perform no portion of the Work for which the Contract Documents require submittal and review of Shop Drawings, Product Data, Samples, or similar submittals, until the respective submittal has been approved by the Architect.

§ 3.12.8 The Work shall be in accordance with approved submittals except that the Contractor shall not be relieved of responsibility for deviations from the requirements of the Contract Documents by the Architect's approval of Shop Drawings, Product Data, Samples, or similar submittals, unless the Contractor has specifically notified the Architect of such deviation at the time of submittal and (1) the Architect has given written approval to the specific deviation as a minor change in the Work, or (2) a Change Order or Construction Change Directive has been issued authorizing the deviation. The Contractor shall not be relieved of responsibility for errors or omissions in Shop Drawings, Product Data, Samples, or similar submittals, by the Architect's approval thereof.

§ 3.12.9 The Contractor shall direct specific attention, in writing or on resubmitted Shop Drawings, Product Data, Samples, or similar submittals, to revisions other than those requested by the Architect on previous submittals. In the absence of such notice, the Architect's approval of a resubmission shall not apply to such revisions.

§ 3.12.10 The Contractor shall not be required to provide professional services that constitute the practice of architecture or engineering unless such services are specifically required by the Contract Documents for a portion of the Work or unless the Contractor needs to provide such services in order to carry out the Contractor's responsibilities for construction means, methods, techniques, sequences, and procedures. The Contractor shall not be required to provide professional services in violation of applicable law.

§ 3.12.10.1 If professional design services or certifications by a design professional related to systems, materials, or equipment are specifically required of the Contractor by the Contract Documents, the Owner and the Architect will specify all performance and design criteria that such services must satisfy. The Contractor shall be entitled to rely upon the adequacy and accuracy of the performance and design criteria provided in the Contract Documents. The Contractor shall cause such services or certifications to be provided by an appropriately licensed design professional, whose signature and seal shall appear on all drawings, calculations, specifications, certifications, Shop Drawings, and other submittals prepared by such professional. Shop Drawings, and other submittals related to the Work, designed or certified by such professional, if prepared by others, shall bear such professional's written approval when submitted to the Architect. The Owner and the Architect shall be entitled to rely upon the adequacy and accuracy of the services, certifications, and approvals performed or provided by such design professionals, provided the Owner and Architect have specified to the Contractor the performance and design criteria that such services must satisfy. Pursuant to this Section 3.12.10, the Architect will review and approve or take other appropriate action on submittals only for the limited purpose of checking for conformance with information given and the design concept expressed in the Contract Documents.

§ 3.12.10.2 If the Contract Documents require the Contractor's design professional to certify that the Work has been performed in accordance with the design criteria, the Contractor shall furnish such certifications to the Architect at the time and in the form specified by the Architect.

§ 3.13 Use of Site

The Contractor shall confine operations at the site to areas permitted by applicable laws, statutes, ordinances, codes, rules and regulations, lawful orders of public authorities, and the Contract Documents and shall not unreasonably encumber the site with materials or equipment.

§ 3.14 Cutting and Patching

§ 3.14.1 The Contractor shall be responsible for cutting, fitting, or patching required to complete the Work or to make its parts fit together properly. All areas requiring cutting, fitting, or patching shall be restored to the condition existing prior to the cutting, fitting, or patching, unless otherwise required by the Contract Documents.

§ 3.14.2 The Contractor shall not damage or endanger a portion of the Work or fully or partially completed construction of the Owner or Separate Contractors by cutting, patching, or otherwise altering such construction, or by excavation. The Contractor shall not cut or otherwise alter construction by the Owner or a Separate Contractor except with written consent of the Owner and of the Separate Contractor. Consent shall not be unreasonably withheld. The Contractor shall not unreasonably withhold, from the Owner or a Separate Contractor, its consent to cutting or otherwise altering the Work.

§ 3.15 Cleaning Up

§ 3.15.1 The Contractor shall keep the premises and surrounding area free from accumulation of waste materials and rubbish caused by operations under the Contract. At completion of the Work, the Contractor shall remove waste materials, rubbish, the Contractor's tools, construction equipment, machinery, and surplus materials from and about the Project.

§ 3.15.2 If the Contractor fails to clean up as provided in the Contract Documents, the Owner may do so and the Owner shall be entitled to reimbursement from the Contractor.

§ 3.16 Access to Work

The Contractor shall provide the Owner and Architect with access to the Work in preparation and progress wherever located.

§ 3.17 Royalties, Patents and Copyrights

The Contractor shall pay all royalties and license fees. The Contractor shall defend suits or claims for infringement of copyrights and patent rights and shall hold the Owner and Architect harmless from loss on account thereof, but shall not be responsible for defense or loss when a particular design, process, or product of a particular manufacturer or manufacturers is required by the Contract Documents, or where the copyright violations are contained in Drawings, Specifications, or other documents prepared by the Owner or Architect. However, if an infringement of a copyright or patent is discovered by, or made known to, the Contractor, the Contractor shall be responsible for the loss unless the information is promptly furnished to the Architect.

§ 3.18 Indemnification

§ 3.18.1 To the fullest extent permitted by law, the Contractor shall indemnify and hold harmless the Owner, Architect, Architect's consultants, and agents and employees of any of them from and against claims, damages, losses, and expenses, including but not limited to attorneys' fees, arising out of or resulting from performance of the Work, provided that such claim, damage, loss, or expense is attributable to bodily injury, sickness, disease or death, or to injury to or destruction of tangible property (other than the Work itself), but only to the extent caused by the negligent acts or omissions of the Contractor, a Subcontractor, anyone directly or indirectly employed by them, or anyone for whose acts they may be liable, regardless of whether or not such claim, damage, loss, or expense is caused in part by a party indemnified hereunder. Such obligation shall not be construed to negate, abridge, or reduce other rights or obligations of indemnity **which** would otherwise exist as to a party or person described in this Section 3.18.

§ 3.18.2 In claims against any person or entity indemnified under this Section 3.18 by an employee of the Contractor, a Subcontractor, anyone directly or indirectly employed by them, or anyone for whose acts they may be liable, the indemnification obligation under Section 3.18.1 shall not be limited by a limitation on amount or type of damages, compensation, or benefits payable by or for the Contractor or a Subcontractor under workers' compensation acts, disability benefit acts, or other employee benefit acts.

§ 3.19 As applicable, the Contractor shall be responsible at the appropriate time during construction of the Project to have all permanent meters installed (electrical, water, gas, etc.) and all utilities connected prior to the time of Final Inspection. The Contractor shall pay all utility costs until the Project is accepted by the City of Mobile.

ARTICLE 4 ARCHITECT

§ 4.1 General

§ 4.1.1 The Owner shall retain an Architect lawfully licensed to practice architecture or an entity lawfully practicing architecture in the jurisdiction where the Project is located. That person or entity is identified as the Architect in the Agreement and is referred to throughout the Contract Documents as if singular in number.

§ 4.1.2 Duties, responsibilities, and limitations of authority of the Architect as set forth in the Contract Documents shall not be restricted, modified, or extended without written consent of the Owner, Contractor, and Architect. Consent shall not be unreasonably withheld.

§ 4.2 Administration of the Contract

§ 4.2.1 The Architect will provide administration of the Contract as described in the Contract Documents and will be an Owner's representative (1) during construction, (2) until all conditions necessary for the final completion and payment have been fulfilled, and (3) with the Owner's concurrence, from time to time during the one-year period for correction of Work described in Section 12.2. The Architect will have authority to act on behalf of the Owner only to the extent provided in the Contract Documents.

§ 4.2.2 The Architect will visit the site at intervals appropriate to the stage of construction, or as otherwise agreed with the Owner, to become generally familiar with the progress and quality of the portion of the Work completed, and to determine in general if the Work observed is being performed in a manner indicating that the Work, when fully completed, will be in accordance with the Contract Documents. However, the Architect will not be required to make exhaustive or continuous on-site inspections to check the quality or quantity of the Work. The Architect will not have control over, charge of, or responsibility for the construction means, methods, techniques, sequences or procedures, or for the safety precautions and programs in connection with the Work, since these are solely the Contractor's rights and responsibilities under the Contract Documents, **unless otherwise modified in writing in accordance with other provisions of the Contract.**

§ 4.2.3 On the basis of the site visits, the Architect will keep the Owner reasonably informed about the progress and quality of the portion of the Work completed, and promptly report to the Owner (1) known deviations from the Contract Documents, (2) known deviations from the most recent construction schedule submitted by the Contractor, and (3) defects and deficiencies observed in the Work. The Architect will not be responsible for the Contractor's failure to perform the Work in accordance with the requirements of the Contract Documents. The Architect will not have control over or charge of, and will not be responsible for acts or omissions of, the Contractor, Subcontractors, or their agents or employees, or any other persons or entities performing portions of the Work.

§ 4.2.4 Communications

The Owner and Contractor shall include the Architect in all communications that relate to or affect the Architect's services or professional responsibilities. The Owner shall promptly notify the Architect of the substance of any direct communications between the Owner and the Contractor otherwise relating to the Project. Communications by and with the Architect's consultants shall be through the Architect. Communications by and with Subcontractors and suppliers shall be through the Contractor. Communications by and with Separate Contractors shall be through the Owner. The Contract Documents may specify other communication protocols.

§ 4.2.5 Based on the Architect's evaluations of the Contractor's Applications for Payment, the Architect will review and certify the amounts due the Contractor and will issue Certificates for Payment in such amounts.

§ 4.2.6 The Architect has authority to reject Work that does not conform to the Contract Documents. Whenever the Architect considers it necessary or advisable, the Architect will have authority to require inspection or testing of the Work in accordance with Sections 13.4.2 and 13.4.3, whether or not the Work is fabricated, installed or completed. However, neither this authority of the Architect nor a decision made in good faith either to exercise or not to exercise such authority shall give rise to a duty or responsibility of the Architect to the Contractor, Subcontractors, suppliers, their agents or employees, or other persons or entities performing portions of the Work.

§ 4.2.7 The Architect will review and approve, or take other appropriate action upon, the Contractor's submittals such as Shop Drawings, Product Data, and Samples, but only for the limited purpose of checking for conformance with information given and the design concept expressed in the Contract Documents. The Architect's action will be taken in accordance with the submittal schedule approved by the Architect or, in the absence of an approved submittal schedule, with reasonable promptness while allowing sufficient time in the Architect's professional judgment to permit adequate review. Review of such submittals is not conducted for the purpose of determining the accuracy and completeness of other details such as dimensions and quantities, or for substantiating instructions for installation or performance of equipment or systems, all of which remain the responsibility of the Contractor as required by the Contract Documents. The Architect's review of the Contractor's submittals shall not relieve the Contractor of the obligations under Sections 3.3, 3.5, and 3.12. The Architect's review shall not constitute approval of safety precautions or of any construction means, methods, techniques, sequences, or procedures. The Architect's approval of a specific item shall not indicate approval of an assembly of which the item is a component.

§ 4.2.8 The Architect will prepare Change Orders and Construction Change Directives, and may order minor changes in the Work as provided in Section 7.4. The Architect will investigate and make determinations and recommendations regarding concealed and unknown conditions as provided in Section 3.7.4.

§ 4.2.9 The Architect will conduct inspections to determine the date or dates of Substantial Completion and the date of final completion; issue Certificates of Substantial Completion pursuant to Section 9.8; receive and forward to the Owner, for the Owner's review and records, written warranties and related documents required by the Contract and assembled by the Contractor pursuant to Section 9.10; and issue a final Certificate for Payment pursuant to Section 9.10.

§ 4.2.10 If the Owner and Architect agree, the Architect will provide one or more Project representatives to assist in carrying out the Architect's responsibilities at the site. The Owner shall notify the Contractor of any change in the duties, responsibilities and limitations of authority of the Project representatives.

§ 4.2.11 The Architect will interpret and decide matters concerning performance under, and requirements of, the Contract Documents on written request of either the Owner or Contractor. The Architect's response to such requests will be made in writing within any time limits agreed upon or otherwise with reasonable promptness.

§ 4.2.12 Interpretations and decisions of the Architect will be consistent with the intent of, and reasonably inferable from, the Contract Documents and will be in writing or in the form of drawings. When making such interpretations and decisions, the Architect will endeavor to secure faithful performance by both Owner and Contractor, will not show partiality to either, and will not be liable for results of interpretations or decisions rendered in good faith.

§ 4.2.13 The Architect's decisions on matters relating to aesthetic effect will be final if consistent with the intent expressed in the Contract Documents.

§ 4.2.14 The Architect will review and respond to requests for information about the Contract Documents. The Architect's response to such requests will be made in writing within any time limits agreed upon or otherwise with reasonable promptness. If appropriate, the Architect will prepare and issue supplemental Drawings and Specifications in response to the requests for information.

ARTICLE 5 SUBCONTRACTORS

§ 5.1 Definitions

§ 5.1.1 A Subcontractor is a person or entity who has a direct contract with the Contractor to perform a portion of the Work at the site. The term "Subcontractor" is referred to throughout the Contract Documents as if singular in number and means a Subcontractor or an authorized representative of the Subcontractor. The term "Subcontractor" does not include a Separate Contractor or the subcontractors of a Separate Contractor.

§ 5.1.2 A Sub-subcontractor is a person or entity who has a direct or indirect contract with a Subcontractor to perform a portion of the Work at the site. The term "Sub-subcontractor" is referred to throughout the Contract Documents as if singular in number and means a Sub-subcontractor or an authorized representative of the Sub-subcontractor.

§ 5.2 Award of Subcontracts and Other Contracts for Portions of the Work

§ 5.2.1 The apparent low bidder, with (3) days after bids are opened shall notify the Owner and Architect of the persons or entities proposed for each principal portion of the Work, including those who are to furnish materials or equipment fabricated to a special design. Within 14 days of receipt of the information, the Architect may notify the Contractor whether the Owner or the Architect (1) has reasonable objection to any such proposed person or entity or (2) requires additional time for review. Failure of the Architect to provide notice within the 14-day period shall constitute notice of no reasonable objection.

§ 5.2.2 The Contractor shall not contract with a proposed person or entity to whom the Owner or Architect has made reasonable and timely objection. The Contractor shall not be required to contract with anyone to whom the Contractor has made reasonable objection.

§ 5.2.3 If the Owner or Architect has reasonable objection to a person or entity proposed by the Contractor, the Contractor shall propose another to whom the Owner or Architect has no reasonable objection.

§ 5.2.4 The Contractor shall not substitute a Subcontractor, person, or entity for one previously selected if the Owner or Architect makes reasonable objection to such substitution.

§ 5.3 Subcontractual Relations

By appropriate written agreement, the Contractor shall require each Subcontractor, to the extent of the Work to be performed by the Subcontractor, to be bound to the Contractor by terms of the Contract Documents, and to assume toward the Contractor all the obligations and responsibilities, including the responsibility for safety of the Subcontractor's Work that the Contractor, by these Contract Documents, assumes toward the Owner and Architect. Each subcontract agreement shall preserve and protect the rights of the Owner and Architect under the Contract Documents with respect to the Work to be performed by the Subcontractor so that subcontracting thereof will not prejudice such rights, and shall allow to the Subcontractor, unless specifically provided otherwise in the subcontract agreement, the benefit of all rights, remedies, and redress against the Contractor that the Contractor, by the Contract Documents, has against the Owner. Where appropriate, the Contractor shall require each Subcontractor to enter into similar agreements with Sub-subcontractors. The Contractor shall make available to each proposed Subcontractor, prior to the execution of the subcontract agreement, copies of the Contract Documents to which the Subcontractor will be bound, and, upon written request of the Subcontractor, identify to the Subcontractor terms and conditions of the proposed subcontract agreement that may be at variance with the Contract Documents. Subcontractors will similarly make copies of applicable portions of such documents available to their respective proposed Sub-subcontractors.

§ 5.4 Contingent Assignment of Subcontracts

§ 5.4.1 Each subcontract agreement for a portion of the Work is assigned by the Contractor to the Owner, provided that

- .1 assignment is effective only after termination of the Contract by the Owner for cause pursuant to Section 14.2 and only for those subcontract agreements that the Owner accepts by notifying the Subcontractor and Contractor; and
- .2 assignment is subject to the prior rights of the surety, if any, obligated under bond relating to the Contract.

When the Owner accepts the assignment of a subcontract agreement, the Owner assumes the Contractor's rights and obligations under the subcontract.

§ 5.4.2 Upon such assignment, if the Work has been suspended for more than 30 days, the Subcontractor's compensation **may** be equitably adjusted for increases in cost resulting from the suspension.

§ 5.4.3 Upon assignment to the Owner under this Section 5.4, the Owner may further assign the subcontract to a successor contractor or other entity.

ARTICLE 6 CONSTRUCTION BY OWNER OR BY SEPARATE CONTRACTORS

§ 6.1 Owner's Right to Perform Construction and to Award Separate Contracts

§ 6.1.1 The term "Separate Contractor(s)" shall mean other contractors retained by the Owner under separate agreements. The Owner reserves the right to perform construction or operations related to the Project with the Owner's own forces, and with Separate Contractors retained under Conditions of the Contract substantially similar to

those of this Contract, including those provisions of the Conditions of the Contract related to insurance and waiver of subrogation.

§ 6.1.2 When separate contracts are awarded for different portions of the Project or other construction or operations on the site, the term "Contractor" in the Contract Documents in each case shall mean the Contractor who executes each separate Owner-Contractor Agreement.

§ 6.1.3 The Owner shall provide for coordination of the activities of the Owner's own forces and of each Separate Contractor with the Work of the Contractor, who shall cooperate with them. The Contractor shall participate with any Separate Contractors and the Owner in reviewing their construction schedules. The Contractor shall make any revisions to its construction schedule deemed necessary after a joint review and mutual agreement. The construction schedules shall then constitute the schedules to be used by the Contractor, Separate Contractors, and the Owner until subsequently revised.

§ 6.1.4 Unless otherwise provided in the Contract Documents, when the Owner performs construction or operations related to the Project with the Owner's own forces or with Separate Contractors, the Owner or its Separate Contractors shall have the same obligations and rights that the Contractor has under the Conditions of the Contract, including, without excluding others, those stated in Article 3, this Article 6, and Articles 10, 11, and 12.

§ 6.2 Mutual Responsibility

§ 6.2.1 The Contractor shall afford the Owner and Separate Contractors reasonable opportunity for introduction and storage of their materials and equipment and performance of their activities, and shall connect and coordinate the Contractor's construction and operations with theirs as required by the Contract Documents.

§ 6.2.2 If part of the Contractor's Work depends for proper execution or results upon construction or operations by the Owner or a Separate Contractor, the Contractor shall, prior to proceeding with that portion of the Work, promptly notify the Architect of apparent discrepancies or defects in the construction or operations by the Owner or Separate Contractor that would render it unsuitable for proper execution and results of the Contractor's Work. Failure of the Contractor to notify the Architect of apparent discrepancies or defects prior to proceeding with the Work shall constitute an acknowledgment that the Owner's or Separate Contractor's completed or partially completed construction is fit and proper to receive the Contractor's Work. The Contractor shall not be responsible for discrepancies or defects in the construction or operations by the Owner or Separate Contractor that are not apparent.

§ 6.2.3 The Contractor shall reimburse the Owner for costs the Owner incurs that are payable to a Separate Contractor because of the Contractor's delays, improperly timed activities or defective construction. The Owner shall be responsible to the Contractor for costs the Contractor incurs because of a Separate Contractor's delays, improperly timed activities, damage to the Work or defective construction.

§ 6.2.4 The Contractor shall promptly remedy damage that the Contractor wrongfully causes to completed or partially completed construction or to property of the Owner or Separate Contractor as provided in Section 10.2.5.

§ 6.2.5 The Owner and each Separate Contractor shall have the same responsibilities for cutting and patching as are described for the Contractor in Section 3.14.

§ 6.3 Owner's Right to Clean Up

If a dispute arises among the Contractor, Separate Contractors, and the Owner as to the responsibility under their respective contracts for maintaining the premises and surrounding area free from waste materials and rubbish, the Owner may clean up and the Architect will allocate the cost among those responsible.

ARTICLE 7 CHANGES IN THE WORK

§ 7.1 General

§ 7.1.1 Changes in the Work may be accomplished after execution of the Contract, and without invalidating the Contract, by Change Order, Construction Change Directive or order for a minor change in the Work, subject to the limitations stated in this Article 7 and elsewhere in the Contract Documents. **The total of all Change Orders on each contract shall not exceed (10%) of the contract price for each project and shall be subject to at least one of the following criteria:**

1. **Minor changes for a total monetary value less than required for competitive bidding under the State Competitive Bid Laws.**
2. **Changes for matters relatively minor and incidental to the original contract necessitated by unforeseen circumstances arising during the course of the Work.**
3. **Emergencies arising during the course of the Work of the Contract.**
4. **Changes or Alterations provided for the original bidding where there is no difference in price on the Change Order from the original best bid on the Alternate.**
5. **Changes or relatively minor items not contemplated when the plans and specifications were prepared and the Project was bid, which are in the public interest.**

§ 7.1.2 A Change Order shall be based upon agreement among the Owner, Contractor, and Architect. A Construction Change Directive requires agreement by the Owner and Architect and may or may not be agreed to by the Contractor. An order for a minor change in the Work may be issued by the Architect alone.

§ 7.1.3 Changes in the Work shall be performed under applicable provisions of the Contract Documents. The Contractor shall proceed promptly with changes in the Work, unless otherwise provided in the Change Order, Construction Change Directive, or order for a minor change in the Work.

§ 7.2 Change Orders

§ 7.2.1 A Change Order is a written instrument prepared by the Architect and signed by the Owner, Contractor, and Architect stating their agreement upon all of the following:

- .1 The change in the Work;
- .2 The amount of the adjustment, if any, in the Contract Sum; and
- .3 The extent of the adjustment, if any, in the Contract Time.
- .4 **There shall be attached to each Change Order, a signed statement from the Architect containing the following:**
 - A. **A statement of what the Change Order covers and who instituted the Change Order and why it is necessary or desired.**
 - B. **A statement setting forth the reasons for using the Change Order method rather than taking new competitive bids.**
 - C. **A statement that all prices have been reviewed and found reasonable, fair, and equitable and recommending approval of the same.**

§ 7.3 Construction Change Directives

§ 7.3.1 A Construction Change Directive is a written order prepared by the Architect and signed by the Owner and Architect, directing a change in the Work prior to agreement on adjustment, if any, in the Contract Sum or Contract Time, or both. The Owner may by Construction Change Directive, without invalidating the Contract, order changes in the Work within the general scope of the Contract consisting of additions, deletions, or other revisions, the Contract Sum and Contract Time being adjusted accordingly.

§ 7.3.2 A Construction Change Directive shall be used in the absence of total agreement on the terms of a Change Order.

§ 7.3.3 If the Construction Change Directive provides for an adjustment to the Contract Sum, the adjustment shall be based on one of the following methods:

- .1 Mutual acceptance of a lump sum properly itemized and supported by sufficient substantiating data to permit evaluation;
- .2 Unit prices stated in the Contract Documents or subsequently agreed upon;
- .3 Cost to be determined in a manner agreed upon by the parties and a mutually acceptable fixed or percentage fee; or
- .4 As provided in Section 7.3.4.

§ 7.3.4 If the Contractor does not respond promptly or disagrees with the method for adjustment in the Contract Sum, the Architect shall determine the adjustment on the basis of reasonable expenditures and savings of those performing the Work attributable to the change, including, in case of an increase in the Contract Sum, an **allowance of (10%) mark-up on Subcontractor's direct cost (actual cost of Labor & Materials) and (15%) mark-up on General Contractor's direct (actual cost of Labor & Materials)**. In such case, and also under Section 7.3.3.3, the Contractor

shall keep and present, in such form as the Architect may prescribe, an itemized accounting together with appropriate supporting data. Unless otherwise provided in the Contract Documents, costs for the purposes of this Section 7.3.4 shall be limited to the following:

- .1 Costs of labor, including applicable payroll taxes, fringe benefits required by agreement or custom, workers' compensation insurance, and other employee costs approved by the Architect;
- .2 Costs of materials, supplies, and equipment, including cost of transportation, **actually incorporated or consumed in the work;**
- .3 Rental costs of machinery and equipment, exclusive of hand tools, whether rented **by** the Contractor or others;
- .4 Costs of premiums for all bonds and insurance, permit fees, and sales, use, or similar taxes, directly related to the change; and
- .5 Costs of supervision and field office personnel directly attributable to the change.

§ 7.3.5 If the Contractor disagrees with the adjustment in the Contract Time, the Contractor may make a Claim in accordance with applicable provisions of Article 15.

§ 7.3.6 Upon receipt of a Construction Change Directive, the Contractor shall promptly proceed with the change in the Work involved and advise the Architect of the Contractor's agreement or disagreement with the method, if any, provided in the Construction Change Directive for determining the proposed adjustment in the Contract Sum or Contract Time.

§ 7.3.7 A Construction Change Directive signed by the Contractor indicates the Contractor's agreement therewith, including adjustment in Contract Sum and Contract Time or the method for determining them. Such agreement shall be effective immediately and shall be recorded as a Change Order.

§ 7.3.8 The amount of credit to be allowed by the Contractor to the Owner for a deletion or change that results in a net decrease in the Contract Sum shall be actual net cost as confirmed by the Architect. When both additions and credits covering related Work or substitutions are involved in a change, the allowance for overhead and profit shall be figured on the basis of net increase, if any, with respect to that change.

§ 7.3.9 Pending final determination of the total cost of a Construction Change Directive to the Owner, the Contractor may request payment for Work completed under the Construction Change Directive in Applications for Payment. The Architect will make an interim determination for purposes of monthly certification for payment for those costs and certify for payment the amount that the Architect determines, in the Architect's professional judgment, to be reasonably justified. The Architect's interim determination of cost shall adjust the Contract Sum on the same basis as a Change Order, subject to the right of either party to disagree and assert a Claim in accordance with Article 15.

§ 7.3.10 When the Owner and Contractor agree with a determination made by the Architect concerning the adjustments in the Contract Sum and Contract Time, or otherwise reach agreement upon the adjustments, such agreement shall be effective immediately and the Architect will prepare a Change Order. Change Orders may be issued for all or any part of a Construction Change Directive.

§ 7.4 Minor Changes in the Work

The Architect may order minor changes in the Work that are consistent with the intent of the Contract Documents and do not involve an adjustment in the Contract Sum or an extension of the Contract Time. The Architect's order for minor changes shall be in writing. If the Contractor believes that the proposed minor change in the Work will affect the Contract Sum or Contract Time, the Contractor shall notify the Architect and shall not proceed to implement the change in the Work. If the Contractor performs the Work set forth in the Architect's order for a minor change without prior notice to the Architect that such change will affect the Contract Sum or Contract Time, the Contractor waives any adjustment to the Contract Sum or extension of the Contract Time.

ARTICLE 8 TIME

§ 8.1 Definitions

§ 8.1.1 Unless otherwise provided, Contract Time is the period of time, including authorized adjustments, allotted in the Contract Documents for Substantial Completion of the Work.

§ 8.1.2 The date of commencement of the Work is the date established in the Agreement.

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§ 8.1.3 The date of Substantial Completion is the date certified by the Architect in accordance with Section 9.8.

§ 8.1.4 The term "day" as used in the Contract Documents shall mean calendar day unless otherwise specifically defined.

§ 8.2 Progress and Completion

§ 8.2.1 Time limits stated in the Contract Documents are of the essence of the Contract. By executing the Agreement, the Contractor confirms that the Contract Time is a reasonable period for performing the Work.

1. **No Work shall commence and no materials ordered until the Owner issues the written Notice to Proceed.**
2. **The Work shall be commenced with ten (10) days of the date of written Notice to Proceed.**

§ 8.2.2 The Contractor shall not knowingly, except by agreement or instruction of the Owner in writing, commence the Work prior to the effective date of insurance required to be furnished by the Contractor and Owner.

§ 8.2.3 The Contractor shall proceed expeditiously with adequate forces and shall achieve Substantial Completion within the Contract Time.

§ 8.3 Delays and Extensions of Time

§ 8.3.1 If the Contractor is delayed at any time in the commencement or progress of the Work by (1) an act or neglect of the Owner or Architect, of an employee of either, or of a Separate Contractor; (2) by changes ordered in the Work; (3) by labor disputes, fire, unusual delay in deliveries, unavoidable casualties, adverse weather conditions documented in accordance with Section 15.1.6.2, or other causes beyond the Contractor's control; (4) by delay authorized by the Owner; or (5) by other causes that the Contractor asserts, and the Architect determines, justify delay, then the Contract Time shall be extended for such reasonable time as the Architect may determine.

§ 8.3.2 Claims relating to time shall be made in accordance with applicable provisions of Article 15.

§ 8.3.3 This Section 8.3 does not preclude recovery of damages for delay by either party under other provisions of the Contract Documents.

§ 8.4 Liquidated Damages

§ 8.4.1 Time is the essence of the Contract. Any delay in the completion of the Work as provided for in the Contract Documents will cause inconvenience to the public and loss and damage to the Owner in interest, and in additional administrative, architectural, inspection, and supervision charges. Therefore, a time charge equal to (\$250.00) per calendar day will be made against the Contractor for the entire period that any part of the Work remains uncompleted or any required closeout documents are not acceptable submitted for more than (30) days after the time specified for the Substantial Completion of the Work, the amount of which shall be deducted by the Owner, and shall be retained by the Owner out of monies otherwise due the Contractor in the final payment, not as a penalty, but as liquidated damages sustained.

ARTICLE 9 PAYMENTS AND COMPLETION

§ 9.1 Contract Sum

§ 9.1.1 The Contract Sum is stated in the Agreement and, including authorized adjustments, is the total amount payable by the Owner to the Contractor for performance of the Work under the Contract Documents.

§ 9.1.2 If unit prices are stated in the Contract Documents or subsequently agreed upon, and if quantities originally contemplated are materially changed so that application of such unit prices to the actual quantities causes substantial inequity to the Owner or Contractor, the applicable unit prices shall be equitably adjusted.

§ 9.2 Schedule of Values

Where the Contract is based on a stipulated sum or Guaranteed Maximum Price, the Contractor shall submit a schedule of values to the Architect before the first Application for Payment, allocating the entire Contract Sum to the various portions of the Work. The schedule of values shall be prepared in the form, and supported by the data to substantiate its accuracy, required by the Architect. This schedule, unless objected to by the Architect, shall be used as a basis for reviewing the Contractor's Applications for Payment. Any changes to the schedule of values shall be

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submitted to the Architect and supported by such data to substantiate its accuracy as the Architect may require, and unless objected to by the Architect, shall be used as a basis for reviewing the Contractor's subsequent Applications for Payment.

1. **Unit Prices and Allowances, if stated in Contract Documents, shall be identified within the Schedule of Values.**

§ 9.3 Applications for Payment

§ 9.3.1 The Contractor shall submit to the Architect **on the first of each month for Work performed through the 25th of the preceding month, four (4) original, itemized Applications for Payment for Work completed in accordance with the accepted** schedule of values, if required under Section 9.2, for completed portions of the Work. The application shall be notarized and supported by all data substantiating the Contractor's right to payment that the Owner or Architect require, such copies of requisitions, and releases and waivers of liens from Subcontractors and suppliers, and shall reflect retainage **and documents as follows:**

1. **Until the final payment is made, the Owner shall pay ninety-seven and on half percent (97.5%) of the amount due the Contractor on account of progress payments (note: the 2-1/2% retainage is calculated by withholding the first 5% of the first 50% of the Work completed); and**
2. **The Contractor shall provide documentation substantiating that test, inspections and approvals for portions of Work included in an Application for Payment and required by the Contract Documents, or by laws, ordinances, rules, regulations or orders of public authorities having jurisdiction were made at the appropriate time.**

§ 9.3.1.1 Such applications may include requests for payment on account of changes in the Work, **which have been authorized and approved by properly executed Change Order(s).**

§ 9.3.1.2 Such applications may include requests for payment on account of changes in the Work, **which have been authorized and approved by properly executed Change Order(s).**

§ 9.3.2 Unless otherwise provided in the Contract Documents, payments shall be made on account of materials and equipment delivered and suitably stored at the site for subsequent incorporation in the Work. If approved in advance by the Owner, payment may similarly be made for materials and equipment suitably stored off the site at a location agreed upon in writing. Payment for materials and equipment stored on or off the site shall be conditioned upon compliance by the Contractor with procedures satisfactory to the Owner to establish the Owner's title to such materials and equipment or otherwise protect the Owner's interest, and shall include the costs of applicable insurance, storage, and transportation to the site, for such materials and equipment stored off the site.

§ 9.3.3 The Contractor warrants that title to all Work covered by an Application for Payment will pass to the Owner no later than the time of payment. The Contractor further warrants that upon submittal of an Application for Payment all Work for which Certificates for Payment have been previously issued and payments received from the Owner shall, to the best of the Contractor's knowledge, information, and belief, be free and clear of liens, claims, security interests, or encumbrances, in favor of the Contractor, Subcontractors, suppliers, or other persons or entities that provided labor, materials, and equipment relating to the Work.

§ 9.4 Certificates for Payment

§ 9.4.1 The Architect will, within seven days after receipt of the Contractor's Application for Payment, either (1) issue to the Owner a Certificate for Payment in the full amount of the Application for Payment, with a copy to the Contractor; or (2) issue to the Owner a Certificate for Payment for such amount as the Architect determines is properly due, and notify the Contractor and Owner of the Architect's reasons for withholding certification in part as provided in Section 9.5.1; or (3) withhold certification of the entire Application for Payment, and notify the Contractor and Owner of the Architect's reason for withholding certification in whole as provided in Section 9.5.1.

§ 9.4.2 The issuance of a Certificate for Payment will constitute a representation by the Architect to the Owner, based on the Architect's evaluation of the Work and the data in the Application for Payment, that, to the best of the Architect's knowledge, information, and belief, the Work has progressed to the point indicated, the quality of the Work is in accordance with the Contract Documents, and that the Contractor is entitled to payment in the amount certified. The foregoing representations are subject to an evaluation of the Work for conformance with the Contract Documents upon Substantial Completion, to results of subsequent tests and inspections, to correction of minor deviations from the Contract Documents prior to completion, and to specific qualifications expressed by the Architect.

However, the issuance of a Certificate for Payment will not be a representation that the Architect has (1) made exhaustive or continuous on-site inspections to check the quality or quantity of the Work; (2) reviewed construction means, methods, techniques, sequences, or procedures; (3) reviewed copies of requisitions received from Subcontractors and suppliers and other data requested by the Owner to substantiate the Contractor's right to payment; or (4) made examination to ascertain how or for what purpose the Contractor has used money previously paid on account of the Contract Sum.

§ 9.5 Decisions to Withhold Certification

§ 9.5.1 The Architect may withhold a Certificate for Payment in whole or in part, to the extent reasonably necessary to protect the Owner, if in the Architect's opinion the representations to the Owner required by Section 9.4.2 cannot be made. If the Architect is unable to certify payment in the amount of the Application, the Architect will notify the Contractor and Owner as provided in Section 9.4.1. If the Contractor and Architect cannot agree on a revised amount, the Architect will promptly issue a Certificate for Payment for the amount for which the Architect is able to make such representations to the Owner. The Architect may also withhold a Certificate for Payment or, because of subsequently discovered evidence, may nullify the whole or a part of a Certificate for Payment previously issued, to such extent as may be necessary in the Architect's opinion to protect the Owner from loss for which the Contractor is responsible, including loss resulting from acts and omissions described in Section 3.3.2, because of

- .1 defective Work not remedied;
- .2 third party claims filed or reasonable evidence indicating probable filing of such claims, unless security acceptable to the Owner is provided by the Contractor;
- .3 failure of the Contractor to make payments properly to Subcontractors or suppliers for labor, materials or equipment;
- .4 reasonable evidence that the Work cannot be completed for the unpaid balance of the Contract Sum;
- .5 damage to the Owner or a Separate Contractor;
- .6 reasonable evidence that the Work will not be completed within the Contract Time, and that the unpaid balance would not be adequate to cover actual or liquidated damages for the anticipated delay; or
- .7 repeated failure to carry out the Work in accordance with the Contract Documents.

§ 9.5.2 When either party disputes the Architect's decision regarding a Certificate for Payment under Section 9.5.1, in whole or in part, that party may submit a Claim in accordance with Article 15.

§ 9.5.3 When the reasons for withholding certification are removed, certification will be made for amounts previously withheld.

§ 9.5.4 If the Architect withholds certification for payment under Section 9.5.1.3, the Owner may, at its sole option, issue joint checks to the Contractor and to any Subcontractor or supplier to whom the Contractor failed to make payment for Work properly performed or material or equipment suitably delivered. If the Owner makes payments by joint check, the Owner shall notify the Architect and the Contractor shall reflect such payment on its next Application for Payment.

§ 9.6 Progress Payments

§ 9.6.1 After the Architect has issued a Certificate for Payment, the Owner shall make payment in the manner and within the time provided in the Contract Documents, and shall so notify the Architect.

§ 9.6.2 The Contractor shall pay each Subcontractor, no later than seven days after receipt of payment from the Owner, the amount to which the Subcontractor is entitled, reflecting percentages actually retained from payments to the Contractor on account of the Subcontractor's portion of the Work. The Contractor shall, by appropriate agreement with each Subcontractor, require each Subcontractor to make payments to Sub-subcontractors in a similar manner.

§ 9.6.3 The Architect will, on request, furnish to a Subcontractor, if practicable, information regarding percentages of completion or amounts applied for by the Contractor and action taken thereon by the Architect and Owner on account of portions of the Work done by such Subcontractor.

§ 9.6.4 The Owner has the right to request written evidence from the Contractor that the Contractor has properly paid Subcontractors and suppliers amounts paid by the Owner to the Contractor for subcontracted Work. If the Contractor fails to furnish such evidence within seven days, the Owner shall have the right to contact Subcontractors and suppliers

to ascertain whether they have been properly paid. Neither the Owner nor Architect shall have an obligation to pay, or to see to the payment of money to, a Subcontractor or supplier, except as may otherwise be required by law.

§ 9.6.5 The Contractor's payments to suppliers shall be treated in a manner similar to that provided in Sections 9.6.2, 9.6.3 and 9.6.4.

§ 9.6.6 A Certificate for Payment, a progress payment, or partial or entire use or occupancy of the Project by the Owner shall not constitute acceptance of Work not in accordance with the Contract Documents.

§ 9.6.7 Unless the Contractor provides the Owner with a payment bond in the full penal sum of the Contract Sum, payments received by the Contractor for Work properly performed by Subcontractors or provided by suppliers shall be held by the Contractor for those Subcontractors or suppliers who performed Work or furnished materials, or both, under contract with the Contractor for which payment was made by the Owner. Nothing contained herein shall require money to be placed in a separate account and not commingled with money of the Contractor, create any fiduciary liability or tort liability on the part of the Contractor for breach of trust, or entitle any person or entity to an award of punitive damages against the Contractor for breach of the requirements of this provision.

§ 9.6.8 Provided the Owner has fulfilled its payment obligations under the Contract Documents, the Contractor shall defend and indemnify the Owner from all loss, liability, damage or expense, including reasonable attorney's fees and litigation expenses, arising out of any lien claim or other claim for payment by any Subcontractor or supplier of any tier. Upon receipt of notice of a lien claim or other claim for payment, the Owner shall notify the Contractor. If approved by the applicable court, when required, the Contractor may substitute a surety bond for the property against which the lien or other claim for payment has been asserted.

§ 9.7 Failure of Payment

If the Architect does not issue a Certificate for Payment, through no fault of the Contractor, within seven days after receipt of the Contractor's Application for Payment, or if the Owner does not pay the Contractor within seven days after the date established in the Contract Documents, the amount certified by the **Architect**, then the Contractor may, upon seven additional days' notice to the Owner and Architect, stop the Work until payment of the amount owing has been received. The Contract Time **may** be extended appropriately and the Contract Sum **may** be increased by the amount of the Contractor's reasonable costs of shutdown, delay and start-up, plus interest as provided for in the Contract Documents.

§ 9.8 Substantial Completion

§ 9.8.1 Substantial Completion is the stage in the progress of the Work when the Work or designated portion thereof is sufficiently complete in accordance with the Contract Documents so that the Owner can occupy or utilize the Work for its intended use.

§ 9.8.2 When the Contractor considers that the Work, or a portion thereof which the Owner agrees to accept separately, is substantially complete, the Contractor shall prepare and submit to the Architect a comprehensive list of items to be completed or corrected prior to final payment. Failure to include an item on such list does not alter the responsibility of the Contractor to complete all Work in accordance with the Contract Documents.

§ 9.8.3 Upon receipt of the Contractor's list, the Architect will make an inspection to determine whether the Work or designated portion thereof is substantially complete. If the Architect's inspection discloses any item, whether or not included on the Contractor's list, which is not sufficiently complete in accordance with the Contract Documents so that the Owner can occupy or utilize the Work or designated portion thereof for its intended use, the Contractor shall, before issuance of the Certificate of Substantial Completion, complete or correct such item upon notification by the Architect. In such case, the Contractor shall then submit a request for another inspection by the Architect to determine Substantial Completion.

§ 9.8.4 When the Work or designated portion thereof is substantially complete, the Architect will prepare a Certificate of Substantial Completion that shall establish the date of Substantial Completion; establish responsibilities of the Owner and Contractor for security, maintenance, heat, utilities, damage to the Work and insurance; and fix the time within which the Contractor shall finish all items on the list accompanying the Certificate. Warranties required by the Contract Documents shall commence on the date of Substantial Completion of the Work or designated portion thereof unless otherwise provided in the Certificate of Substantial Completion.

§ 9.8.5 The Certificate of Substantial Completion shall be submitted to the Owner and Contractor for their written acceptance of responsibilities assigned to them in the Certificate. Upon such acceptance, and consent of surety if any, the Owner shall make payment of retainage applying to the Work .

§ 9.9 Partial Occupancy or Use

§ 9.9.1 The Owner may occupy or use any completed or partially completed portion of the Work at any stage when such portion is designated by separate agreement with the Contractor, provided such occupancy or use is consented to by the insurer and authorized by public authorities having jurisdiction over the Project. Such partial occupancy or use may commence whether or not the portion is substantially complete, provided the Owner and Contractor have accepted in writing the responsibilities assigned to each of them for payments, retainage, if any, security, maintenance, heat, utilities, damage to the Work and insurance, and have agreed in writing concerning the period for correction of the Work and commencement of warranties required by the Contract Documents. When the Contractor considers a portion substantially complete, the Contractor shall prepare and submit a list to the Architect as provided under Section 9.8.2. Consent of the Contractor to partial occupancy or use shall not be unreasonably withheld. The stage of the progress of the Work shall be determined by written agreement between the Owner and Contractor or, if no agreement is reached, by decision of the Architect.

§ 9.9.2 Immediately prior to such partial occupancy or use, the Owner, Contractor, and Architect shall jointly inspect the area to be occupied or portion of the Work to be used in order to determine and record the condition of the Work.

§ 9.9.3 Unless otherwise agreed upon, partial occupancy or use of a portion or portions of the Work shall not constitute acceptance of Work not complying with the requirements of the Contract Documents.

§ 9.10 Final Completion and Final Payment

§ 9.10.1 Upon receipt of the Contractor's notice that the Work is ready for final inspection and acceptance and upon receipt of a final Application for Payment, the Architect will promptly make such inspection. When the Architect finds the Work acceptable under the Contract Documents and the Contract fully performed, the Architect will promptly issue a final Certificate for Payment stating that to the best of the Architect's knowledge, information and belief, and on the basis of the Architect's on-site visits and inspections, the Work has been completed in accordance with the Contract Documents and that the entire balance found to be due the Contractor and noted in the final Certificate is due and payable. The Architect's final Certificate for Payment will constitute a further representation that conditions listed in Section 9.10.2 as precedent to the Contractor's being entitled to final payment have been fulfilled.

§ 9.10.2 Neither final payment nor any remaining retained percentage shall become due until the Contractor submits to the Architect (1) an affidavit that payrolls, bills for materials and equipment, and other indebtedness connected with the Work for which the Owner or the Owner's property might be responsible or encumbered (less amounts withheld by Owner) have been paid or otherwise satisfied, (2) a certificate evidencing that insurance required by the Contract Documents to remain in force after final payment is currently in effect, (3) a written statement that the Contractor knows of no reason that the insurance will not be renewable to cover the period required by the Contract Documents, (4) consent of surety, if any, to final payment, **(5) Contractors Affidavit of Release of Liens, (6) separate Releases or Waivers of Liens from Subcontractors and material and equipment suppliers, (7) written warranty on Contractor's letterhead covering materials and labor for one-year, and (8) the advertisement of completion. The Contractor shall provide proof of publication of Advertisement of completion in a local newspaper for three (3) consecutive weeks, as required in Title 30, Section 39-1-1, Subsection (f), of the Code of Alabama. The final 2.5% retained will not be paid until proof of publication is submitted and all written claims paid in full. This advertisement shall not begin until the City of Mobile has accepted the Project.**

§ 9.10.3 If, after Substantial Completion of the Work, final completion thereof is materially delayed through no fault of the Contractor and the Architect so confirms, the Owner shall, upon application by the Contractor and certification by the Architect, and without terminating the Contract, make payment of the balance due for that portion of the Work fully completed, corrected, and accepted. If the remaining balance for Work not fully completed or corrected is less than retainage stipulated in the Contract Documents, and if bonds have been furnished, the written consent of the surety to payment of the balance due for that portion of the Work fully completed and accepted shall be submitted by the Contractor to the Architect prior to certification of such payment. Such payment shall be made under terms and conditions governing final payment, except that it shall not constitute a waiver of Claims.

§ 9.10.4 The making of final payment shall constitute a waiver of Claims by the Owner except those arising from

- .1 liens, Claims, security interests, or encumbrances arising out of the Contract and unsettled;
- .2 failure of the Work to comply with the requirements of the Contract Documents;
- .3 terms of special warranties required by the Contract Documents; or
- .4 audits performed by the Owner, if permitted by the Contract Documents, after final payment.

§ 9.10.5 Acceptance of final payment by the Contractor, a Subcontractor, or a supplier, shall constitute a waiver of claims by that payee except those previously made in writing and identified by that payee as unsettled at the time of final Application for Payment.

ARTICLE 10 PROTECTION OF PERSONS AND PROPERTY

§ 10.1 Safety Precautions and Programs

The Contractor shall be responsible for initiating, maintaining, and supervising all safety precautions and programs in connection with the performance of the Contract.

§ 10.2 Safety of Persons and Property

§ 10.2.1 The Contractor shall comply with all Federal, State, and Local law regarding safety including the requirements of the Occupational Safety and Health Act of 1970, Public Law #91-596, latest version.

Contractor shall take all other reasonable precautions for safety of, and shall provide reasonable protection to prevent damage, injury, or loss to

- .1 employees on the Work and other persons who may be affected thereby;
- .2 the Work and materials and equipment to be incorporated therein, whether in storage on or off the site, under care, custody, or control of the Contractor, a Subcontractor, or a Sub-subcontractor; and
- .3 other property at the site or adjacent thereto, such as trees, shrubs, lawns, walks, pavements, roadways, structures, and utilities not designated for removal, relocation, or replacement in the course of construction.
- .4 **The Contractor shall be responsible for damage done to buried cables and other utilities by its equipment and shall contact the appropriate offices prior to construction for information depth, etc., of utilities in the area.**

§ 10.2.2 The Contractor shall comply with, and give notices required by applicable laws, statutes, ordinances, codes, rules and regulations, and lawful orders of public authorities, bearing on safety of persons or property or their protection from damage, injury, or loss.

§ 10.2.3 The Contractor shall implement, erect, and maintain, as required by existing conditions and performance of the Contract, reasonable safeguards for safety and protection, including posting danger signs and other warnings against hazards; promulgating safety regulations; and notifying the owners and users of adjacent sites and utilities of the safeguards.

§ 10.2.4 When use or storage of explosives or other hazardous materials or equipment, or unusual methods are necessary for execution of the Work, the Contractor shall exercise utmost care and carry on such activities under supervision of properly qualified personnel.

§ 10.2.5 The Contractor shall promptly remedy damage and loss () to property referred to in Sections 10.2.1.2 and 10.2.1.3 caused in whole or in part by the Contractor, a Subcontractor, a Sub-subcontractor, or anyone directly or indirectly employed by any of them, or by anyone for whose acts they may be liable and for which the Contractor is responsible under Sections 10.2.1.2 and 10.2.1.3. The Contractor may make a Claim for the cost to remedy the damage or loss to the extent such damage or loss is attributable to acts or omissions of the Owner or Architect or anyone directly or indirectly employed by either of them, or by anyone for whose acts either of them may be liable, and not attributable to the fault or negligence of the Contractor. The foregoing obligations of the Contractor are in addition to the Contractor's obligations under Section 3.18.

§ 10.2.6 The Contractor shall designate a responsible member of the Contractor's organization at the site whose duty shall be the prevention of accidents. This person shall be the Contractor's superintendent unless otherwise designated by the Contractor in writing to the Owner and Architect.

§ 10.2.7 The Contractor shall not permit any part of the construction or site to be loaded so as to cause damage or create an unsafe condition.

§ 10.2.8 Injury or Damage to Person or Property

If either party suffers injury or damage to person or property because of an act or omission of the other party, or of others for whose acts such party is legally responsible, notice of the injury or damage, whether or not insured, shall be given to the other party within a reasonable time not exceeding 21 days after discovery. The notice shall provide sufficient detail to enable the other party to investigate the matter.

§ 10.3 Hazardous Materials and Substances

§ 10.3.1 The Contractor is responsible for compliance with any requirements included in the Contract Documents regarding hazardous materials or substances. If the Contractor encounters a hazardous material or substance not addressed in the Contract Documents and if reasonable precautions will be inadequate to prevent foreseeable bodily injury or death to persons resulting from a material or substance, including but not limited to asbestos or polychlorinated biphenyl (PCB), encountered on the site by the Contractor, the Contractor shall, upon recognizing the condition, immediately stop Work in the affected area and notify the Owner and Architect of the condition.

§ 10.3.2 Upon receipt of the Contractor's notice, the Owner shall obtain the services of a licensed laboratory to verify the presence or absence of the material or substance reported by the Contractor and, in the event such material or substance is found to be present, to cause it to be rendered harmless. Unless otherwise required by the Contract Documents, the Owner shall furnish in writing to the Contractor and Architect the names and qualifications of persons or entities who are to perform tests verifying the presence or absence of the material or substance or who are to perform the task of removal or safe containment of the material or substance. The Contractor and the Architect will promptly reply to the Owner in writing stating whether or not either has reasonable objection to the persons or entities proposed by the Owner. If either the Contractor or Architect has an objection to a person or entity proposed by the Owner, the Owner shall propose another to whom the Contractor and the Architect have no reasonable objection. When the material or substance has been rendered harmless, Work in the affected area shall resume upon written agreement of the Owner and Contractor. By Change Order, the Contract Time shall be extended appropriately and the Contract Sum shall be increased by the amount of the Contractor's reasonable additional costs of shutdown, delay, and start-up, **except to the extent that any such delay is attributable to the Contractor's objection to the persons or entities whom Owner shall have furnished to perform the task of removal of safe containment of such material or substance.**

(Paragraph deleted)

§ 10.3.4 The Owner shall not be responsible **for materials or substances brought to the site by the Contractor regardless of whether such materials or substances were required by the Contract Documents.**

§ 10.3.5 The Contractor shall reimburse the Owner for the cost and expense the Owner incurs (1) for remediation of hazardous materials or substances the Contractor brings to the site and negligently handles, or (2) where the Contractor fails to perform its obligations under Section 10.3.1, except to the extent that the cost and expense are due to the Owner's fault or negligence.

§ 10.3.6 If, without negligence **or wantonness** on the part of the Contractor, the Contractor is held liable by a government agency for the cost of remediation of a hazardous material or substance solely by reason of performing Work as required by the Contract Documents, the Owner **may** reimburse the Contractor for all **reasonable** cost and expense thereby incurred.

§ 10.4 Emergencies

In an emergency affecting safety of persons or property, the Contractor shall act, at the Contractor's discretion, to prevent threatened damage, injury, or loss. Additional compensation or extension of time claimed by the Contractor on account of an emergency **may** be determined **only** as provided in Article 15 and Article 7.

ARTICLE 11 INSURANCE AND BONDS

§ 11.1 Contractor's Insurance and Bonds

§ 11.1.1 The Contractor shall purchase and maintain insurance of the types and limits of liability, containing the endorsements, and subject to the terms and conditions, as described in the Agreement or elsewhere in the Contract Documents. The Contractor shall purchase and maintain the required insurance from an insurance company or insurance companies lawfully authorized to issue insurance in the jurisdiction where the Project is located. The Owner, Architect, and Architect's consultants shall be named as additional insureds under the Contractor's commercial general liability policy or as otherwise described in the Contract Documents.

§ 11.1.2 The Contractor shall provide surety bonds of the types, for such penal sums, and subject to such terms and conditions as required by the Contract Documents. The Contractor shall purchase and maintain the required bonds from a company or companies lawfully authorized to issue surety bonds in the jurisdiction where the Project is located.

§ 11.1.3 Upon the request of any person or entity appearing to be a potential beneficiary of bonds covering payment of obligations arising under the Contract, the Contractor shall promptly furnish a copy of the bonds or shall authorize a copy to be furnished.

§ 11.1.4 **Notice of Cancellation or Expiration of Contractor's Required Insurance.** Within three (3) business days of the date the Contractor becomes aware of an impending or actual cancellation or expiration of any insurance required by the Contract Documents, the Contractor shall provide notice to the Owner of such impending or actual cancellation or expiration. Upon receipt of notice from the Contractor, the Owner shall, unless the lapse in coverage arises from an act or omission of the Owner, have the right to stop the Work until the lapse in coverage has been cured by the procurement of replacement coverage by the Contractor. The furnishing of notice by the Contractor shall not relieve the Contractor of any contractual obligation to provide any required coverage.

§ 11.2 Owner's Insurance

§ 11.2.1 The Owner shall purchase and maintain insurance of the types and limits of liability, containing the endorsements, and subject to the terms and conditions, as described in the Agreement or elsewhere in the Contract Documents. The Owner shall purchase and maintain the required insurance from an insurance company or insurance companies lawfully authorized to issue insurance in the jurisdiction where the Project is located.

§ 11.2.2 **Failure to Purchase Required Property Insurance.** If the Owner fails to purchase and maintain the required property insurance, with all of the coverages and in the amounts described in the Agreement or elsewhere in the Contract Documents, the Owner shall inform the Contractor in writing prior to commencement of the Work. Upon receipt of notice from the Owner, the Contractor may delay commencement of the Work and may obtain insurance that will protect the interests of the Contractor, Subcontractors, and Sub-Subcontractors in the Work. When the failure to provide coverage has been cured or resolved, the Contract Sum and Contract Time shall be equitably adjusted. In the event the Owner fails to procure coverage, the Owner waives all rights against the Contractor, Subcontractors, and Sub-subcontractors to the extent the loss to the Owner would have been covered by the insurance to have been procured by the Owner. The cost of the insurance shall be charged to the Owner by a Change Order. If the Owner does not provide written notice, and the Contractor is damaged by the failure or neglect of the Owner to purchase or maintain the required insurance, the Owner shall reimburse the Contractor for all reasonable costs and damages attributable thereto.

§ 11.2.3 **Notice of Cancellation or Expiration of Owner's Required Property Insurance.** Within three (3) business days of the date the Owner becomes aware of an impending or actual cancellation or expiration of any property insurance required by the Contract Documents, the Owner shall provide notice to the Contractor of such impending or actual cancellation or expiration. Unless the lapse in coverage arises from an act or omission of the Contractor: (1) the Contractor, upon receipt of notice from the Owner, shall have the right to stop the Work until the lapse in coverage has been cured by the procurement of replacement coverage by either the Owner or the Contractor; (2) the Contract Time and Contract Sum shall be equitably adjusted; and (3) the Owner waives all rights against the Contractor, Subcontractors, and Sub-subcontractors to the extent any loss to the Owner would have been covered by the insurance had it not expired or been cancelled. If the Contractor purchases replacement coverage, the cost of the insurance shall be charged to the Owner by an appropriate Change Order. The furnishing of notice by the Owner shall not relieve the Owner of any contractual obligation to provide required insurance.

(Paragraphs deleted)

ARTICLE 12 UNCOVERING AND CORRECTION OF WORK

§ 12.1 Uncovering of Work

§ 12.1.1 If a portion of the Work is covered contrary to the Architect's request or to requirements specifically expressed in the Contract Documents, it must, if requested in writing by the Architect, be uncovered for the Architect's examination and be replaced at the Contractor's expense without change in the Contract Time.

§ 12.1.2 If a portion of the Work has been covered that the Architect has not specifically requested to examine prior to its being covered, the Architect may request to see such Work and it shall be uncovered by the Contractor. If such Work is in accordance with the Contract Documents, the Contractor shall be entitled to an equitable adjustment to the Contract Sum and Contract Time as may be appropriate. If such Work is not in accordance with the Contract Documents, the costs of uncovering the Work, and the cost of correction, shall be at the Contractor's expense.

§ 12.2 Correction of Work

§ 12.2.1 Before Substantial Completion

The Contractor shall promptly correct Work rejected by the Architect or failing to conform to the requirements of the Contract Documents, discovered before Substantial Completion and whether or not fabricated, installed or completed. Costs of correcting such rejected Work, including additional testing and inspections, the cost of uncovering and replacement, and compensation for the Architect's services and expenses made necessary thereby, shall be at the Contractor's expense.

§ 12.2.2 After Substantial Completion

§ 12.2.2.1 In addition to the Contractor's obligations under Section 3.5, if, within one year after the date of Substantial Completion of the Work or designated portion thereof or after the date for commencement of warranties established under Section 9.9.1, or by terms of any applicable special warranty required by the Contract Documents, any of the Work is found to be not in accordance with the requirements of the Contract Documents, the Contractor shall correct it promptly after receipt of notice from the Owner to do so, unless the Owner has previously given the Contractor a written acceptance of such condition. The Owner shall give such notice promptly after discovery of the condition. During the one-year period for correction of Work, if the Owner fails to notify the Contractor and give the Contractor an opportunity to make the correction, the Owner waives the rights to require correction by the Contractor and to make a claim for breach of warranty. If the Contractor fails to correct nonconforming Work within a reasonable time during that period after receipt of notice from the Owner or Architect, the Owner may correct it in accordance with Section 2.5.

§ 12.2.2.2 The one-year period for correction of Work shall be extended with respect to portions of Work first performed after Substantial Completion by the period of time between Substantial Completion and the actual completion of that portion of the Work.

§ 12.2.2.3 The one-year period for correction of Work shall not be extended by corrective Work performed by the Contractor pursuant to this Section 12.2.

§ 12.2.3 The Contractor shall remove from the site portions of the Work that are not in accordance with the requirements of the Contract Documents and are neither corrected by the Contractor nor accepted by the Owner.

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§ 12.2.4 The Contractor shall bear the cost of correcting destroyed or damaged construction of the Owner or Separate Contractors, whether completed or partially completed, caused by the Contractor's correction or removal of Work that is not in accordance with the requirements of the Contract Documents.

§ 12.2.5 Nothing contained in this Section 12.2 shall be construed to establish a period of limitation with respect to other obligations the Contractor has under the Contract Documents. Establishment of the one-year period for correction of Work as described in Section 12.2.2 relates only to the specific obligation of the Contractor to correct the Work, and has no relationship to the time within which the obligation to comply with the Contract Documents may be sought to be enforced, nor to the time within which proceedings may be commenced to establish the Contractor's liability with respect to the Contractor's obligations other than specifically to correct the Work.

§ 12.3 Acceptance of Nonconforming Work

If the Owner prefers to accept Work that is not in accordance with the requirements of the Contract Documents, the Owner may do so instead of requiring its removal and correction, in which case the Contract Sum will be reduced as appropriate and equitable. Such adjustment shall be effected whether or not final payment has been made.

ARTICLE 13 MISCELLANEOUS PROVISIONS

§ 13.1 Governing Law

The Contract shall be governed by the law of **State of Alabama**.

§ 13.2 Successors and Assigns

§ 13.2.1 The Owner and Contractor respectively bind themselves, their partners, successors, assigns, and legal representatives to covenants, agreements, and obligations contained in the Contract Documents. Except as provided in Section 13.2.2, neither party to the Contract shall assign the Contract as a whole without written consent of the other. If either party attempts to make an assignment without such consent, that party shall nevertheless remain legally responsible for all obligations under the Contract.

§ 13.2.2 The Owner may, without consent of the Contractor, assign the Contract to a lender providing construction financing for the Project, if the lender assumes the Owner's rights and obligations under the Contract Documents. The Contractor shall execute all consents reasonably required to facilitate the assignment.

§ 13.2.3 **No assignment of the Contract shall be made without the written permission of Surety providing bonding and the City of Mobile.**

§ 13.3 Rights and Remedies

§ 13.3.1 Duties and obligations imposed by the Contract Documents and rights and remedies available thereunder shall be in addition to and not a limitation of duties, obligations, rights, and remedies otherwise imposed or available by law.

§ 13.3.2 No action or failure to act by the Owner, Architect, or Contractor shall constitute a waiver of a right or duty afforded them under the Contract, nor shall such action or failure to act constitute approval of or acquiescence in a breach thereunder, except as may be specifically agreed upon in writing.

§ 13.4 Tests and Inspections

§ 13.4.1 Tests, inspections, and approvals of portions of the Work shall be made as required by the Contract Documents and by applicable laws, statutes, ordinances, codes, rules, and regulations or lawful orders of public authorities. Unless otherwise provided, the Contractor shall make arrangements for such tests, inspections, and approvals with an independent testing laboratory or entity acceptable to the Owner, or with the appropriate public authority, and shall bear all related costs of tests, inspections, and approvals. The Contractor shall give the Architect timely notice of when and where tests and inspections are to be made so that the Architect may be present for such procedures. The Owner shall bear costs of tests, inspections, or approvals that do not become requirements until after bids are received or negotiations concluded. The Owner shall directly arrange and pay for tests, inspections, or approvals where building codes or applicable laws or regulations so require.

§ 13.4.2 If the Architect, Owner, or public authorities having jurisdiction determine that portions of the Work require additional testing, inspection, or approval not included under Section 13.4.1, the Architect will, upon written authorization from the Owner, instruct the Contractor to make arrangements for such additional testing, inspection, or

approval, by an entity acceptable to the Owner, and the Contractor shall give timely notice to the Architect of when and where tests and inspections are to be made so that the Architect may be present for such procedures. Such costs, except as provided in Section 13.4.3, shall be at the Owner's expense.

§ 13.4.3 If procedures for testing, inspection, or approval under Sections 13.4.1 and 13.4.2 reveal failure of the portions of the Work to comply with requirements established by the Contract Documents, all costs made necessary by such failure, including those of repeated procedures and compensation for the Architect's services and expenses, shall be at the Contractor's expense.

§ 13.4.4 Required certificates of testing, inspection, or approval shall, unless otherwise required by the Contract Documents, be secured by the Contractor and promptly delivered to the Architect.

§ 13.4.5 If the Architect is to observe tests, inspections, or approvals required by the Contract Documents, the Architect will do so promptly and, where practicable, at the normal place of testing.

§ 13.4.6 Tests or inspections conducted pursuant to the Contract Documents shall be made promptly to avoid unreasonable delay in the Work.

(Paragraphs deleted)

§ 13.4.7 **Test, inspections or approvals made in addition to the Architects normal design and contract administration services caused by the Contractor shall be paid for by the Contractor. The normal service schedule is contained in Article 2.8.1 of AIA B102-2017 as amended by the Owner and is available to Contractor on request.**

§ 13.4.8 **The Contractor must call the Urban Development Department of the City of Mobile for their inspections and approval at the times required by the Urban Development Department, as well as notify the Architect, Consulting Engineer, and/or Test Laboratory, for inspection and approval of sub-grade conditions, under slab and footing conditions, vapor barrier placement, reinforcing steel placement, all structural connections, electrical, mechanical, etc. None of the above will be accepted that have been covered up before receiving approval of the Architect or his Consultant.**

ARTICLE 14 TERMINATION OR SUSPENSION OF THE CONTRACT

§ 14.1 Termination by the Contractor

§ 14.1.1 The Contractor may terminate the Contract if the Work is stopped for a period of 30 consecutive days through no act or fault of the Contractor, a Subcontractor, a Sub-subcontractor, their agents or employees, or any other persons or entities performing portions of the Work, for any of the following reasons:

- .1 Issuance of an order of a court or other public authority having jurisdiction that requires all Work to be stopped;
- .2 An act of government, such as a declaration of national emergency, that requires all Work to be stopped;
- .3 Because the Architect has not issued a Certificate for Payment and has not notified the Contractor of the reason for withholding certification as provided in Section 9.4.1, or because the Owner has not made payment on a Certificate for Payment within the time stated in the Contract Documents; or
- .4 The Owner has failed to furnish to the Contractor reasonable evidence as required by Section 2.2.

§ 14.1.2 The Contractor may terminate the Contract if, through no act or fault of the Contractor, a Subcontractor, a Sub-subcontractor, their agents or employees, or any other persons or entities performing portions of the Work, repeated suspensions, delays, or interruptions of the entire Work by the Owner as described in Section 14.3, constitute in the aggregate more than 100 percent of the total number of days scheduled for completion, or 120 days in any 365-day period, whichever is less.

§ 14.1.3 If one of the reasons described in Section 14.1.1 or 14.1.2 exists, the Contractor may, upon seven days' notice to the Owner and Architect, terminate the Contract and recover from the Owner payment for Work **executed**.

§ 14.1.4 If the Work is stopped for a period of 60 consecutive days through no act or fault of the Contractor, a Subcontractor, a Sub-subcontractor, or their agents or employees or any other persons or entities performing portions of the Work because the Owner has repeatedly failed to fulfill the Owner's obligations under the Contract Documents with respect to matters important to the progress of the Work, the Contractor may, upon seven additional days' notice to the Owner and the Architect, terminate the Contract and recover from the Owner as provided in Section 14.1.3.

§ 14.2 Termination by the Owner for Cause

§ 14.2.1 The Owner may terminate the Contract if the Contractor

- .1 repeatedly refuses or fails to supply enough properly skilled workers or proper materials;
- .2 fails to make payment to Subcontractors or suppliers in accordance with the respective agreements between the Contractor and the Subcontractors or suppliers;
- .3 repeatedly disregards applicable laws, statutes, ordinances, codes, rules and regulations, or lawful orders of a public authority; or
- .4 otherwise is guilty of substantial breach of a provision of the Contract Documents.

§ 14.2.2 When any of the reasons described in Section 14.2.1 exist, and upon certification by the Architect that sufficient cause exists to justify such action, the Owner may, without prejudice to any other rights or remedies of the Owner and after giving the Contractor and the Contractor's surety, if any, seven days' notice, terminate employment of the Contractor and may, subject to any prior rights of the surety:

- .1 Exclude the Contractor from the site and take possession of all materials, equipment, tools, and construction equipment and machinery thereon owned by the Contractor;
- .2 Accept assignment of subcontracts pursuant to Section 5.4; and
- .3 Finish the Work by whatever reasonable method the Owner may deem expedient. Upon written request of the Contractor, the Owner shall furnish to the Contractor a detailed accounting of the costs incurred by the Owner in finishing the Work.

§ 14.2.3 When the Owner terminates the Contract for one of the reasons stated in Section 14.2.1, the Contractor shall not be entitled to receive further payment until the Work is finished.

§ 14.2.4 If the unpaid balance of the Contract Sum exceeds costs of finishing the Work, including compensation for the Architect's services and expenses made necessary thereby, and other damages incurred by the Owner and not expressly waived, such excess shall be paid to the Contractor. If such costs and damages exceed the unpaid balance, the Contractor shall pay the difference to the Owner. The amount to be paid to the Contractor or Owner, as the case may be, shall be certified by the Initial Decision Maker, upon application, and this obligation for payment shall survive termination of the Contract.

§ 14.3 Suspension by the Owner for Convenience

§ 14.3.1 The Owner may, without cause, order the Contractor in writing to suspend, delay or interrupt the Work, in whole or in part for such period of time as the Owner may determine.

§ 14.3.2 The Contract Sum and Contract Time **may** be adjusted for increases in the cost and time caused by suspension, delay, or interruption under Section 14.3.1. Adjustment of the Contract Sum shall include profit. No adjustment shall be made to the extent

- .1 that performance is, was, or would have been, so suspended, delayed, or interrupted, by another cause for which the Contractor is responsible; or
- .2 that an equitable adjustment is made or denied under another provision of the Contract.

§ 14.4 Termination by the Owner for Convenience

§ 14.4.1 The Owner may, at any time, terminate the Contract for the Owner's convenience and without cause.

§ 14.4.2 Upon receipt of notice from the Owner of such termination for the Owner's convenience, the Contractor shall

- .1 cease operations as directed by the Owner in the notice;
- .2 take actions necessary, or that the Owner may direct, for the protection and preservation of the Work; and
- .3 except for Work directed to be performed prior to the effective date of termination stated in the notice, terminate all existing subcontracts and purchase orders and enter into no further subcontracts and purchase orders.

§ 14.4.3 In case of such termination for the Owner's convenience, the Owner shall pay the Contractor for Work properly executed; costs incurred by reason **termination**.

ARTICLE 15 CLAIMS AND DISPUTES

§ 15.1 Claims

§ 15.1.1 Definition

A Claim is a demand or assertion by one of the parties seeking, as a matter of right, payment of money, a change in the Contract Time, or other relief with respect to the terms of the Contract. The term "Claim" also includes other disputes and matters in question between the Owner and Contractor arising out of or relating to the Contract. The responsibility to substantiate Claims shall rest with the party making the Claim. This Section 15.1.1 does not require the Owner to file a Claim in order to impose liquidated damages in accordance with the Contract Documents.

§ 15.1.2 Time Limits on Claims

The Owner and Contractor shall commence all Claims and causes of action against the other and arising out of or related to the Contract, whether in contract, tort, breach of warranty or otherwise, in accordance with the requirements of the binding dispute resolution method selected in the Agreement and within the period specified by applicable law, but in any case not more than 10 years after the date of Substantial Completion of the Work. The Owner and Contractor waive all Claims and causes of action not commenced in accordance with this Section 15.1.2.

§ 15.1.3 Notice of Claims

§ 15.1.3.1 Claims by either the Owner or Contractor, where the condition giving rise to the Claim is first discovered prior to expiration of the period for correction of the Work set forth in Section 12.2.2, shall be initiated within 21 days after occurrence of the event giving rise to such Claim or within 21 days after the claimant **acting with due diligence, reasonably should have first recognized** the condition giving rise to the Claim, whichever is later. **Claims must be initiated by written notice to the Architect and the other party.**

§ 15.1.3.2 Claims by either the Owner or Contractor, where the condition giving rise to the Claim is first discovered after expiration of the period for correction of the Work set forth in Section 12.2.2, shall be initiated by notice to the other party. In such event, no decision by the Initial Decision Maker is required.

§ 15.1.4 Continuing Contract Performance

§ 15.1.4.1 Pending final resolution of a Claim, except as otherwise agreed in writing or as provided in Section 9.7 and Article 14, the Contractor shall proceed diligently with performance of the Contract and the Owner shall continue to make payments in accordance with the Contract Documents.

§ 15.1.4.2 The Contract Sum and Contract Time shall be adjusted in accordance with the Initial Decision Maker's decision, subject to the right of either party to proceed in accordance with this Article 15. The Architect will issue Certificates for Payment in accordance with the decision of the Initial Decision Maker.

§ 15.1.5 Claims for Additional Cost

If the Contractor wishes to make a Claim for an increase in the Contract Sum, notice as provided in Section 15.1.3 shall be given before proceeding to execute the portion of the Work **giving rise to such claim**, that is the subject of the Claim. Prior notice is not required for Claims relating to an emergency endangering life or property arising under Section 10.4.

§ 15.1.6 Claims for Additional Time

§ 15.1.6.1 If the Contractor wishes to make a Claim for an increase in the Contract Time, notice as provided in Section 15.1.3 shall be given. The Contractor's Claim shall include an estimate of cost and of probable effect of delay on progress of the Work. In the case of a continuing delay, only one Claim is necessary.

§ 15.1.6.2 If adverse weather conditions are the basis for a Claim for additional time, such Claim shall be documented by data substantiating that weather conditions were abnormal for the period of time, could not have been reasonably anticipated, and had an adverse effect on the scheduled construction.

§ 15.1.7 Waiver of Claims for Consequential Damages

The Contractor and Owner waive Claims against each other for consequential damages arising out of or relating to this Contract. This mutual waiver includes

- .1 damages incurred by the Owner for rental expenses, for losses of use, income, profit, financing, business and reputation, and for loss of management or employee productivity or of the services of such persons; and
- .2 damages incurred by the Contractor for principal office expenses including the compensation of personnel stationed there, for losses of financing, business and reputation, and for loss of profit, except anticipated profit arising directly from the Work.

This mutual waiver is applicable, without limitation, to all consequential damages due to either party's termination in accordance with Article 14. Nothing contained in this Section 15.1.7 shall be deemed to preclude assessment of liquidated damages, when applicable, in accordance with the requirements of the Contract Documents.

§ 15.2 Initial Decision

§ 15.2.1 Claims, excluding those where the condition giving rise to the Claim is first discovered after expiration of the period for correction of the Work set forth in Section 12.2.2 or arising under Sections 10.3, 10.4, and 11.5, shall be referred to the Initial Decision Maker for initial decision. The Architect will serve as the Initial Decision Maker, unless otherwise indicated in the Agreement. Except for those Claims excluded by this Section 15.2.1, an initial decision shall be required as a condition precedent to mediation of any Claim. If an initial decision has not been rendered within 30 days after the Claim has been referred to the Initial Decision Maker, the party asserting the Claim may demand mediation and binding dispute resolution without a decision having been rendered. Unless the Initial Decision Maker and all affected parties agree, the Initial Decision Maker will not decide disputes between the Contractor and persons or entities other than the Owner.

§ 15.2.2 The **Architect** will review Claims and within ten days of the receipt of a Claim take one or more of the following actions: (1) request additional supporting data from the claimant or a response with supporting data from the other party, (2) reject the Claim in whole or in part, (3) approve the Claim, (4) suggest a compromise, or (5) advise the parties that the Initial Decision Maker is unable to resolve the Claim if the Initial Decision Maker lacks sufficient information to evaluate the merits of the Claim or if the **Architect reasonably concludes that**, it would be inappropriate for the Initial Decision Maker to resolve the Claim.

§ 15.2.3 In evaluating Claims, the Initial Decision Maker may, but shall not be obligated to, consult with or seek information from either party or from persons with special knowledge or expertise who may assist the Initial Decision Maker in rendering a decision. The Initial Decision Maker may request the Owner to authorize retention of such persons at the Owner's expense.

§ 15.2.4 If the Initial Decision Maker requests a party to provide a response to a Claim or to furnish additional supporting data, such party shall respond, within ten days after receipt of the request, and shall either (1) provide a response on the requested supporting data, (2) advise the Initial Decision Maker when the response or supporting data will be furnished, or (3) advise the Initial Decision Maker that no supporting data will be furnished. Upon receipt of the response or supporting data, if any, the Initial Decision Maker will either reject or approve the Claim in whole or in part.

§ 15.2.5 The Initial Decision Maker will render an initial decision approving or rejecting the Claim, or indicating that the Initial Decision Maker is unable to resolve the Claim. This initial decision shall (1) be in writing; (2) state the reasons **therefore**; and (3) notify the parties and the Architect, if the Architect is not serving as the Initial Decision Maker, of any change in the Contract Sum or Contract Time or both. The initial decision shall be final and binding on the parties .

(Paragraphs deleted)

§ 15.2.7 In the event of a Claim against the Contractor, the Owner may, but is not obligated to, notify the surety, if any, of the nature and amount of the Claim. If the Claim relates to a possibility of a Contractor's default, the Owner may, but is not obligated to, notify the surety and request the surety's assistance in resolving the controversy.

§ 15.2.8 If a Claim relates to or is the subject of a mechanic's lien, the party asserting such Claim may proceed in accordance with applicable law to comply with the lien notice or filing deadlines.

§ 15.3 Mediation

§ 15.3.1 Claims, disputes, or other matters in controversy arising out of or related to the Contract, except those waived as provided for in Sections 9.10.4, 9.10.5, and 15.1.7, shall **not** be subject to mediation as a condition precedent to binding dispute resolution.

(Paragraphs deleted)

SECTION 01010
SUMMARY OF THE WORK

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Summary of Work: Contract, contractor use of premises.
- B. Contract Considerations: Contingency allowance, schedule of values, applications for payment, change procedures, alternates.
- C. Coordination and Meetings: Coordination, field engineering, meetings, progress meetings, examination, preparation, E-Builder.
- D. Submittals: Submittal procedures, construction progress schedules, proposed products list, shop drawings, product data, samples, manufacturers' installation instructions, manufacturers' certificates.
- E. Quality Control: Quality assurance - control of installation, Tolerances, References, Mock-ups, Manufacturers' field services and reports.
- F. Construction Facilities and Temporary Controls: Electricity, temporary lighting for construction purposes, heat, temporary ventilation, telephone service, water service, temporary sanitary facilities, barriers and fencing, exterior enclosures, protection of installed work, security, access roads, parking, progress cleaning and waste removal, project identification, field offices and sheds, removal of utilities, facilities, and controls.
- G. Material and Equipment: Products, transportation, handling, storage, and protection, products options, substitutions.
- H. Contract Closeout: Contract closeout procedures, final cleaning, adjusting, project record documents, operation and maintenance data, spare parts and maintenance materials, warranties. loss

1.2 CONTRACT

- A. Summary of Work:

Medal of Honor Park – Site and Lighting Improvements:

The work to be performed under this Contract includes, but is not limited to, executing the Work set forth in the Contract Documents and generally described as follows:

Park improvements will include a new entrance to improve the vehicular and pedestrian circulation, grading, drainage, irrigation, lighting, landscaping, and ADA upgrades. Work will be done to the existing softball fields C and D, tennis court lighting, amphitheater, and football field.

- B. Contract Description: Stipulated sum.

1.3 CONTRACTOR USE OF PREMISES

- A. Limit use of premises to allow continued Owner occupancy. All facilities shall remain in use except the immediate work area for this project. Obey all Facility Regulations and coordinate access and schedule of work with Project Manager.

1.4 CONTINGENCY ALLOWANCE

- A. Include in the Contract the stipulated amount for use upon Owner's instruction.
- B. Contractor's costs for products, delivery, installation, labor, insurance, payroll, taxes, bonding, equipment rental, overhead and profit are included in Change or Field Orders authorizing expenditure of funds from this Contingency Allowance.

1.5 SCHEDULE OF VALUES

- A. Submit Schedule of Values on AIA Form G703 within five (5) calendar days of notification of project award.

1.6 APPLICATIONS FOR PAYMENT

- A. Submit two signed and notarized originals of each application on AIA Form G702 and AIA Form G703 for each project location. Submit Lien Release Waivers, including from subcontractors and major suppliers, with each pay application.
- B. Content and Format: Utilize Schedule of Values, AIA Form G703, for listing items in Application for Payment.
- C. Payment Period: Monthly, except for final payment of retainage after all Close Out documents are submitted and approved.

1.7 CHANGE ORDER PROCEDURES

- A. All contract changes involving a change in scope, payment and/or time shall be made by change order.
- B. Stipulated Sum/Price Change Order: Based on Proposal Request and Contractor's fixed price quotation or Contractor's request for a Change Order as approved by Owner.

1.8 ALTERNATE BID ITEMS

- A. Alternates quoted on Bid Form, if any, will be reviewed and accepted in the order listed.
- B. Coordinate related Work and modify surrounding Work as required.
- C. Schedule of Alternates: Listed on bid form, as applicable.

1.9 COORDINATION

- A. Coordinate scheduling, submittals, and Work at the facility to ensure an efficient and orderly sequence and to facilitate the continued uninterrupted use of the Facility.
- B. Request Utility interruptions at least 72 hours in advance. Note that due to scheduling in the facility, utility interruptions must be approved.

1.10 FIELD ENGINEERING

- A. Establish elevations, lines, and levels and certify that elevations and locations of the Work conform to the Contract Documents. Verify existing conditions.
- B. Contractor shall field verify all measurements and quantities required for a complete installation.

1.11 PRECONSTRUCTION MEETINGS

- A. Owner will schedule a pre-construction meeting after contract award for all affected parties.

1.12 PROGRESS MEETINGS

- A. Schedule and administer meetings throughout progress of the Work at pre-approved intervals.
- B. Preside at meetings, record minutes, and distribute copies within two days to those affected by decisions made.

1.13 E-BUILDER

- A. E-Builder is a construction program management to help facilitate project cost, schedule, and documents.
- B. Owner shall provide access and training to E-Builder.
- C. Contractor shall utilize the program to communicate with Architect and Owner for the following:
 - a. Email Communication
 - b. Construction Schedules
 - c. Submittals
 - d. Pay Applications and Schedule of Values
 - e. Request for Information
 - f. Field Reports
 - g. Architectural Supplemental Information
 - h. Change Orders
 - i. Contract and Notice to Proceed Documents
 - j. Testing Documents
 - k. Photos

1.13 CONSTRUCTION PROGRESS SCHEDULES

- A. Submit initial progress schedule in duplicate within ten (10) calendar days after date of notice of award of project for Project Manager's review.
- B. Submit revised schedules with each Application for Payment, identifying changes since previous version. Indicate estimated percentage of completion for each item of Work at each submission.

1.14 SHOP DRAWINGS

- A. Shop Drawings for Review: Submit to Project Manager/Engineer for review for the limited purpose of checking for conformance with information given and the design concept expressed in the Contract Documents.
- B. Submit four copies for use by the owner plus the number of copies that

Contractor requires. Electronic submittals may be acceptable with prior approval of the Project Manager and Engineer. Close Out documents shall include electronic and hard copies of all submittals.

1.15 QUALITY ASSURANCE - CONTROL OF INSTALLATION

- A. Monitor quality control over suppliers, manufacturers, products, services, site conditions, and workmanship, to produce Work of specified quality.
- B. Comply with manufacturers' written instructions.
- C. Comply with specified standards as minimum quality for the Work except when more stringent tolerances, codes, or specified requirements indicate higher standards or more precise workmanship.
- D. Supply certification from manufacturer that the installed Work meets or exceeds all manufacturers' requirements.

1.16 EXAMINATION

- A. Verify that existing site conditions and subsurfaces are acceptable for subsequent Work. Beginning new Work means acceptance of existing conditions.
- B. Verify that utility services are available, of the correct characteristics, and in the correct location.

1.17 PREPARATION

- A. Prepare surfaces prior to applying next material installation.

1.18 TOLERANCES

- A. Monitor fabrication and installation tolerance control of installed Products over suppliers, manufacturers, Products, site conditions, and workmanship, to produce acceptable Work. Do not permit tolerances to accumulate. Comply fully with manufacturers' tolerances.

1.19 REFERENCES

- A. Conform to reference standards by date of issue current as of date of Contract Documents.
- B. Should specified reference standard conflict with Contract Documents, request clarification from Project Manager before proceeding.

1.20 ELECTRICITY

- A. Unless otherwise provided for, Contractor shall be allowed to utilize power from the facility in moderate amounts.
- B. Provide power outlets for construction operations, branch wiring, distribution boxes, and flexible power cords as required.

1.21 TEMPORARY LIGHTING FOR CONSTRUCTION PURPOSES

- A. Provide and maintain temporary lighting for construction operations as may be required.

- B. Provide branch wiring from power source to distribution boxes with lighting conductors, pigtails, and lamps as required.

1.22 WATER SERVICE

- A. Owner shall provide suitable potable water in moderate quantities without cost to the Contractor.

1.23 TEMPORARY SANITARY FACILITIES

- A. Contractor may use sanitary facilities located at the facility in lieu of contractor provided temporary facilities. Facilities will also continue to be used by the public and shall be maintained clean and in a sanitary condition.

1.24 BARRIERS AND FENCING

- A. Provide barriers and fencing as needed to prevent unauthorized entry to construction areas and to protect existing facilities and adjacent properties from dust, debris and damage.

1.25 PROTECTION OF INSTALLED WORK

- A. Protect installed Work and provide special protection where specified in individual specification sections. Prohibit traffic or storage upon grass or paving surfaces.

1.26 SECURITY

- A. Provide security and facilities to protect Work and existing facilities from unauthorized entry, vandalism, or theft.

1.27 ACCESS ROADS & HAULING

- A. Maintain temporary access routes through the public thoroughfare and parking areas to serve the construction area as required without obstructing traffic or blocking access for facility staff or participants. Provide drive pads as required.
- B. Restore site to pre-construction condition. Fill ruts, replace broken or damaged amenities, sod disturbed areas.

1.28 PARKING

- A. Arrange for temporary parking areas to accommodate construction personnel on site. Do not block traffic.

1.29 PROGRESS CLEANING AND WASTE REMOVAL

- A. Collect and maintain work areas free of waste materials, debris, and rubbish on a daily basis. Maintain site in a clean and orderly condition. Provide refuse containers and dispose of construction debris legally off site. The Owner may request load tickets from landfills permitted to accept construction debris.

1.30 REMOVAL OF UTILITIES, FACILITIES, AND CONTROLS

- A. Remove temporary utilities, equipment, facilities and materials, prior to Substantial Completion review.
- B. Clean and repair damage caused by installation or use of temporary work.

- C. Restore existing facilities used during construction to original condition.
- D. Restore permanent facilities used during construction to specified condition.

1.31 PRODUCTS

- A. Products: Means new material, machinery, components, equipment, fixtures, and systems forming the Work, but does not include machinery and equipment used for preparation, fabrication, conveying and erection of the Work.

1.32 TRANSPORTATION, HANDLING, STORAGE AND PROTECTION

- A. Transport, handle, store, and protect Products in accordance with manufacturers' instructions.

1.33 PRODUCT OPTIONS

- A. Products Specified by Naming One Manufacturer or equal: Products of manufacturer named approved as "Basis of Design". Equal alternate products to be approved by Owner as Substitutions. Submit product data as required in SUBSTITUTIONS.

1.34 SUBSTITUTIONS

- A. Architect will consider requests for Substitutions only within 10 days after date established in Notice to Proceed. For Pre-Bid approved Substitutions, submit request 7 calendar days or more before bid date with all back up data to show that all characteristics of the Basis of Design product are met with the substituted product or material.
- B. Document each request with complete backup data substantiating compliance of proposed Substitution with all characteristics of the materials specified in the Contract Documents.
- C. Submit three copies of request for Substitution for consideration. Limit each request to one proposed Substitution.
- D. Substitution shall indicate all product properties and show that they are equal to that Specified.
- E. Acceptance or Rejection of Pre-Bid Substitution Requests will be issued by Addendum.

1.35 FINAL CLEANING

- A. Execute final cleaning prior to final inspection of work area. User may occupy portions of the work incrementally as the work is completed and accepted. Entire project to be ready for use by User once all areas of work are completed.
- B. Clean debris from site and drainage systems.
- C. Remove waste and surplus materials, rubbish, and construction facilities from the facility and the site. Leave site in raked and smooth condition.

1.36 PROJECT RECORD DOCUMENTS

- A. Maintain on site one set of Contract Documents to be utilized only for record documents.

- B. Record actual revisions to the Work. Record information concurrent with construction progress.
- C. Specifications: Legibly mark and record at each Product section a description of actual Products installed.
- D. Record Documents and Shop Drawings: Legibly mark each item to record actual construction.
- E. Submit documents to Project Manager with claim for final Application for Payment.
- F. Submit 1 paper copy in binder and 1 thumb drive with pdf copies to include:
 - a. Completed AIA Document G706, Contractor's Affidavit of Payment of Debts and Liens (notarized)
 - b. Completed AIA Document G706A, Contractor's Affidavit of Release of Liens (notarized)
 - c. Releases or Waivers of Liens from all Subcontractors and Material and Equipment Suppliers (notarized).
 - d. Completed AIA Document G707-1994, Consent of Surety to Final Payment.
 - e. Written warrantee on Contractor's letterhead covering materials and labor for one year.
 - f. Advertisement of Completion (4 consecutive weeks)
 - g. Closeout of Permits (provide closed documentation)
 - h. Completion of all items on the Punch List.
 - i. Operations and Maintenance Manuals
 - j. Reviewed submittals
 - k. Retainage Pay Application
 - l. Project Record Documents (Printed 24x36)

1.37 WARRANTIES

- A. Product and Manufacturer's Warranties shall be provided per specifications.
- B. In addition, all materials and labor shall be warranted for a minimum of one year after Substantial Completion of the entire project. Contractor to promptly repair all deficiencies within that time. A warranty inspection shall be scheduled by the Owner, with the Contractor and Owner's representative, before the end of the warranty period, in order to review the work and note deficiencies for the Contractor to correct. Said meeting may be waived if no deficiencies are noted.

PART 2 PRODUCTS (Not used)

PART 3 EXECUTION (Not used)

END OF SECTION 01010

SECTION 01210
ALLOWANCES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

- A. Allowances will be utilized to:
 - 1. Defer selection of certain items until more information is available.
 - 2. Provide for discretionary installation of materials where exact and specific conditions cannot be determined in advance.
 - 3. Provide for the discretionary use of labor where tasks and time frames cannot be determined in advance.
- B. Include in Total Bid a stipulated lump sum allowance amount as specified in this Section.

1.3 ALLOWANCE

- A. Include in the Total Base Quote a stipulated allowance(s) as indicated on the Quote Form for the use upon Owner's instruction. Upon Contractor inspection and Owner approval, any additional work that may be required, but not covered in the original Scope of Work (Base Scope Quote), shall be added to the scope and cost charged against the Contingency Allowance. Contractor's cost for products, delivery, installation labor, insurance, payroll, bonding, equipment rental and overhead and profit will be included in the Allowances. Contractor's markups on allowances are limited to 10% for subcontractor's work and 15% for his own forces.
- B. Use of Contingency Allowance(s) shall be approved in writing by the Owner before any materials are ordered or work performed.
- C. Upon completion of the Work, any unused portion of the Allowances shall be credited back to the City of Mobile in the form of a Change Order.
- D. Contractor shall provide a detailed proposal of the work with overhead and profit broken out. Such proposals shall include proposals from subcontractors, also showing their detailed proposal with overhead and profit broken out.

1.4 SELECTION AND PURCHASE

- A. Advise the Project Manager when final selection and purchase of allowance item must be complete to avoid delay.

1.5 SUBMITTALS

- A. Request for Use of Allowance: Submit proposals for approval that detail and break out costs for contractors and subcontractor's markups.
- B. After Use of Allowance: Submit invoices to show quantity delivered to the site for each allowance.

PART 2 – PRODUCTS (Not used)

3.1 INSPECTION

- A. Promptly inspect all Allowance items upon delivery. Immediately report any shortage, damage, or defects to Project Manager.

3.2 PREPARATION

- A. Coordinate materials and installation to assure that each item is integrated with related construction activities.

3.3 ALLOWANCE SCHEDULE

- A. Include as a Medal of Honor Park – Site and Lighting Improvements Contingency Allowance the lump sum amount of fifty thousand and 00/100 Dollars (\$50,000.00).

END OF SECTION 01210

SECTION 01220
UNIT PRICES

PART 1 – GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

Section includes:

1. Measurement.
2. Payment.

1.3 UNIT PRICES

- A. Provide unit prices for items listed, for inclusion in Contract, guaranteed to apply for duration of Project as basis for additions to or deductions from Contract Sum.
- B. Actual quantities and measurements supplied or placed in the Work will determine payment.
- C. Payment includes full compensation for all required labor, Products, tools, equipment, services, and incidentals, and for erection, application, or installation of an item of the Work.

PART 2 – PRODUCTS (NOT USED)

PART 3 – EXECUTION

1.4 UNIT PRICE SCHEDULE

D. Item 1 – Mobilization:

- a. Unit of Measure: Lump Sum.
- b. Basis of Payment: The item will be paid for at the contract lump sum price bid. Said lump sum price bid shall be full compensation for organizing and moving all labor, tools, equipment, supplies, and incidentals to the project site and for disbanding, disorganizing, and removing all labor, tools, equipment, supplies, and incidentals from the project site, regardless of number of times such moves are made, including all preconstruction costs exclusive of bidding costs.

One Mobilization/Demobilization item will be allowed.

E. Item 2 – Demolition:

- a. Unit of Measure: Lump Sum.

- b. Basis of Payment: Basis of Payment: Payment will be made at the lump sum bid price and shall consist of the demolition and disposal of the materials and associated equipment identified in the Contract. It shall also include the restoration of the area of removal to a stable, uniformly graded ground surface. Use of methods or equipment which might damage existing or completed infrastructure, infrastructure to be retained, or portions thereof, shall not be permitted. The Contractor shall protect adjacent infrastructure, structures, utilities, and their contents that are designated to remain. Any damage due to negligence on the part of the Contractor shall be cause to repair. The cost of replacement or repair shall be borne fully by the Contractor.
- F. Items 3, A-1.1, A-2.1 – Silt Fence:
- a. Unit of Measure: Linear Feet.
 - b. Method of Measurement: Silt Fence and Silt Fence Removal will be measured along the top of the fence fabric in linear feet to the nearest foot.
 - c. Basis of Payment: Payment shall include, but is not limited to, all labor, materials, and equipment required for developing a stormwater pollution prevention plan (SWPPP), installing, maintaining, and removing, if applicable, all erosion and sediment control measures and devices in accordance with all local, state, and federal regulations and the Contract Documents.
- G. Items 4, A-1.2, A-2.2 – Erosion Control Product, (Wattles):
- a. Unit of Measure: Each.
 - b. Basis of Payment: Erosion Control Product, (Wattles) will be paid for at the contract unit price, which shall be full compensation for the furnishing and installation of the product including all materials, equipment, tools, labor and incidentals required to complete this item of work.
- H. Item 5 – Clearing and Grubbing:
- a. Unit of Measure: Lump Sum.
 - b. Method of Measurement: The area to be cleared and grubbed will include the entire area within the construction limits, right of way lines and easement lines and will be measured as one lump sum unit.
 - c. Basis of Payment: Clearing and grubbing will be paid for at the contract unit price which shall be full compensation for furnishing all materials, equipment, tools, labor, and incidentals necessary to complete and maintain the work until acceptance of the project. Where the limits of construction are shown on the plans to extend beyond the beginning or end of the project, payment for the clearing and grubbing of these areas shall be included in the contract price.
- I. Items 6, A-1.3 – Unclassified Excavation:
- a. Unit of Measure: Cubic Yards (Truck Bed Measurement).

- b. Method of Measurement: Measurement for accepted excavation will be cubic yards of the material in its original position computed from cross sections by the average end area method as specified by the unit measure of the pay item.
 - c. Basis of Payment: The accepted volume of Unclassified Excavation measured as provided above, will be paid for at the contract unit prices bid for these items which shall be payment in full for: excavation, disposal of surplus and unsuitable materials, hauling, formation and compaction of embankment, preparation and completion of subgrade and shoulders except when this work is included in other pay items; the completion of all cuts, embankments, and channel excavation to conform to the lines, grades, and cross section indicated on the plans or otherwise directed by the Engineer.
- J. Items 7, A-1.4 – Borrow Excavation:
- a. Unit of Measure: Cubic Yards (Truck Bed Measurement).
 - b. Basis of Payment: The accepted volume of Borrow material designated under, measured as noted above, will be paid for at the contract unit price bid for the items, which shall be payment in full for the royalty and other expenses incidental to procurement, construction and maintenance of haul roads, clearing and grubbing, stripping, excavating, loading, hauling, source moves, dumping, spreading, and also for formation and compaction of embankment, trimming slopes, disposing of surplus materials, preparation and completion of subgrade, shoulders, and intersecting roadways and furnishing of all equipment, labor and incidentals necessary to complete the work. This pay item also includes any necessary work as may be required by the Engineer or Owner in the final dressing of the pit, including grassing or other landscape work.
- K. Item 8 – 6” Crushed Aggregate Base Course:
- a. Unit of Measure: Square Yards.
 - b. Method of Measurement: Measurement by the square yard will be made of a completed accepted layer of base constructed to the thickness and cross section shown on the plans or directed. All calculations of areas for payment shall be based on computations made to the nearest 0.1 of a square yard. The length will be measured along the surface of the layer at the centerline of the roadbed to the nearest 0.1 of a foot. For transitions in thickness, the thickness will be measured to the midpoint of the transition. The width will be the top surface width of the layer as specified on the plans or directed. Each layer of crossovers, turnouts, and the like will be measured in square yards by lengths and widths along the top surface of the layer involved. No measurement will be made for the necessary bevel or wedge of material shown on the plans along the edge of each layer.

Where the Engineer directs in writing that the thickness of a layer be changed from that specified on the plans, the accepted layer shall have an adjusted unit price derived by arriving at an increase or decrease to the contract unit price bid in direct proportion to the increased or decreased thickness of the adjusted layer. No payment shall be made for a layer completely eliminated.

- c. Basis of Payment: The contract unit price bid shall be full compensation for furnishing or producing all component material, except cement and lime, in whatever proportions necessary to produce and place the base material, in accordance with the requirements specified, complete in place on the roadbed. It includes all costs for procurement, operations, compaction, watering, equipment, tools, labor, and incidentals necessary to complete the work.

- L. Items 9, A-1.5, A-2.4 – Concrete Sidewalk, 4” Thick:
 - a. Unit of Measure: Square Yards.
 - b. Basis of Payment: The accepted quantity of sidewalk or driveway will be paid for at the contract unit price for Concrete Sidewalk, 4” Thick, complete in place, which shall be payment in full for furnishing all materials (including joints), for the hauling, preparation, and placing for all materials, for the preparation of the subgrade, excavation, backfilling, and for all labor, equipment, tools, and incidentals necessary to complete the work.

- M. Items 10, A-2.5 – Concrete Stair
 - a. Unit of Measure: Each.
 - b. Basis of Payment: The accepted quantity Stairs will be paid for at the contract unit price for Each concrete stair, complete in place, which shall be payment in full for furnishing all materials (including joints), for the hauling, preparation, and placing for all materials, for the preparation of the subgrade, excavation, backfilling, and for all labor, equipment, tools, and incidentals necessary to complete the work.

- N. Item 11 – Truncated Domes:
 - a. Unit of Measure: Each.
 - b. Basis of Payment: Payment will be based on the respective unit bid price and shall be payment in full for furnishing, installing, cutting or modification including all labor, equipment, tools, and incidentals necessary to complete this item.

Where installation of multiple Truncated Domes requires cutting, payment will be made for each correctly completed Truncated Dome insert used in the installation.

- O. Item 12 – Paveway Systems Crosswalks:
 - a. Unit of Measure: Lump Sum.
 - b. Basis of Payment: Paveway Systems Crosswalks Payment will be made at the lump sum bid price and shall consist of the materials and associated equipment identified in the Contract complete in place, which shall be payment in full for all materials, equipment, labor, and incidentals necessary to complete the work.

- P. Item 13 – Combination Curb & Gutter, Type M-1

- a. Unit of Measure: Linear Feet.
- b. Method of Measurement: Accepted Combination Curb & Gutter, will be measured in linear feet, complete in place, to the nearest 1 foot along the base of the curb face or along the flow line of the gutter continuing on such line extended across driveways, alleyways, and other entrances.
- c. Basis of Payment: The accepted length of Combination Curb & Gutter, measured as provided above, will be paid for at the respective contract unit prices, complete in place, which shall be payment in full for all excavation, backfilling, disposal of surplus material, all joints, all special construction at driveways and other entrances and other points, furnishing all materials, hauling and placing materials, and for all labor, equipment, tools, and incidentals necessary to complete the work in accordance with the specifications including all approaches through curb and gutter indicated on the plans.

Q. Item 14 – 6” Concrete Curb, Type A:

- a. Unit of Measure: Linear Feet.
- b. Method of Measurement: Accepted 6” Concrete Curb, Type A will be measured in linear feet, complete in place, to the nearest 1 foot along the base of the curb face or along the flow line of the gutter continuing on such line extended across driveways, alleyways, and other entrances.
- c. Basis of Payment: The accepted length of 6” Concrete Curb, Type A, measured as provided above, will be paid for at the respective contract unit prices, complete in place, which shall be payment in full for all excavation, backfilling, disposal of surplus material, all joints, all special construction at driveways and other entrances and other points, furnishing all materials, hauling and placing materials, and for all labor, equipment, tools, and incidentals necessary to complete the work in accordance with the specifications including all approaches through curb and gutter indicated on the plans.

R. Item 15 – Planing Existing Pavement (Approximately 0.00” Thru 2.0” Thick):

- a. Unit of Measure: Square Yards.
- b. Method of Measurement: The planing of pavement will be measured in square yards computed from surface measurements taken to the nearest 0.1 of a foot on the planed pavement.

In areas where a non-uniform layer of thickness is removed, the approximate layer thickness will be computed by averaging the depth of the cut at opposite lane edges for each travel way at longitudinal measurement intervals of approximately 300 feet or as directed by the Engineer.

- c. Basis of Payment: The planing of pavement will be paid for at the contract unit price which shall be full compensation for removing the pavement, collecting, transporting and disposing of the removed pavement and other debris, the remove and disposal of pavement markers, sweeping the pavement and

collecting, transporting and disposing of the swept debris and for all materials, equipment, tools, labor, and incidentals necessary to complete the work.

S. Item 16 – 424-A 165 lb/sy Superpave Bituminous Concrete Wearing Surface Layer 1/2" Max. Agg. Size Mix, ESAL Range B:

- a. Unit of Measure: Ton.
- b. Basis of Payment: Compensation for plant mix material, measured as provided above, will be made on a tonnage basis and the contract unit price per ton for each individual item shall be full compensation for construction of the hot and warm mix asphalt plant mix layer complete in place on the roadbed as specified or directed, including all materials, procurement, handling, hauling, and processing cost, and includes all equipment, tools, labor, and incidentals required to complete the work.

No payment will be made for unacceptable material; for material needed to overlay layers deficient in thickness; for material used in replacing defective or condemned construction; for material wasted in handling, hauling, or otherwise; or for maintaining the work.

T. Item 17 - 424-B 220 lb/sy Superpave Bituminous Concrete Binder Layer 3/8" Max. Agg. Size Mix, ESAL Range B:

- a. Unit of Measure: Ton.
- b. Basis of Payment: Compensation for plant mix material, measured as provided above, will be made on a tonnage basis and the contract unit price per ton for each individual item shall be full compensation for construction of the hot and warm mix asphalt plant mix layer complete in place on the roadbed as specified or directed, including all materials, procurement, handling, hauling, and processing cost, and includes all equipment, tools, labor, and incidentals required to complete the work.

Unless otherwise covered by a separate pay item, the cost of excavation for patching and widening, compacting the subgrade, backfilling, spreading, or disposing of excess excavated material, removal and disposal of old pavement, removal and resetting of roadway signs and mailboxes, and removal and disposal of pavement markers shall be subsidiary obligations of the associated plant mix pay item, and no additional payment will be made for performing the work.

No payment will be made for unacceptable material; for material needed to overlay layers deficient in thickness; for material used in replacing defective or condemned construction; for material wasted in handling, hauling, or otherwise; or for maintaining the work.

U. Item 18 - Micro-Surfacing Seal Coat, Type II:

- a. Unit of Measure: Square Yards.

- b. Basis of Payment: Compensation for the Micro-Surfacing Seal Coat, measured as provided above, will be made on a square yardage basis and the contract unit price per square yard shall be full compensation for construction of the Micro-Surfacing Seal Coat complete in place as shown on the plans or directed. This price shall include all materials, procurement, handling, hauling, and processing and includes all equipment, tools, labor, and incidentals required to complete the work.

No payment will be made for unacceptable material, for material furnished or used in excess of the amount indicated or directed, except as provided above, for material used in replacing defective or condemned work, for material wasted in handling, hauling, or otherwise, or for maintaining the work.

V. Item 19 - Solid White, Class 2, Type A Traffic Stripe (5" Wide):

- a. Unit of Measure: Linear Feet.
- b. Basis of Payment: The length of Solid Traffic Stripe, will be paid for at the respective contract unit prices and shall be full compensation for the stripe including the cleaning of the pavement, the furnishing and applying of the striping material, and for all equipment, tools, labor and incidentals necessary to complete the item of work.

W. Item 20 - Solid Blue, Class 2, Type A Traffic Stripe (5" Wide):

- a. Unit of Measure: Linear Feet.
- b. Basis of Payment: The length of Solid Traffic Stripe, will be paid for at the respective contract unit prices and shall be full compensation for the stripe including the cleaning of the pavement, the furnishing and applying of the striping material, and for all equipment, tools, labor, and incidentals necessary to complete the item of work.

X. Item 21 - Solid Yellow, Class 2, Type A Traffic Stripe (5" Wide):

- a. Unit of Measure: Linear Feet.
- b. Basis of Payment: The length of Solid Traffic Stripe, will be paid for at the respective contract unit prices and shall be full compensation for the stripe including the cleaning of the pavement, the furnishing and applying of the striping material, and for all equipment, tools, labor, and incidentals necessary to complete the item of work.

Y. Item 22 - Pavement Markings (Stop Bar and Crosswalk Striping):

- a. Unit of Measure: Square Feet.
- b. Basis of Payment: The accepted square feet of Pavement Markings measured as provided above, will be paid for at the contract unit price bid which shall be full compensation for the item complete in place and includes the cleaning of the

pavement, furnishing and applying the markings or legends, and for all materials, equipment, tools, labor, and incidentals necessary to complete the work.

Z. Item 23 - Handicap Pavement Markings:

- a. Unit of Measure: Square Feet.
- b. Basis of Payment: The accepted square feet of Pavement Markings measured as provided above, will be paid for at the contract unit price bid which shall be full compensation for the item complete in place and includes the cleaning of the pavement, furnishing and applying the markings or legends, and for all materials, equipment, tools, labor, and incidentals necessary to complete the work.

AA. Item 24 – Single Wing S-Inlet:

- a. Unit of Measure: Each.
- b. Method of Measurement: Inlets will be measured as an individual unit including footings, bottom slab, walls, cover, lid, grating, etc., of the type, size, and shape shown on the plans.
- c. Basis of Payment: The accepted number of inlets, measured as provided above, will be paid for at the respective contract unit prices for each, which shall be payment in full for furnishing all materials including gratings, covers, and other fittings and for all form work, disposal of surplus material, and for all labor, equipment, tools, and incidentals necessary to complete the work.

BB. Item 25 – 18" RCP:

- a. Unit of Measure: Linear Feet.
- b. Basis of Payment: The accepted length of 18-inch diameter RCP, measured as specified above, will be paid for at the respective contract unit price provided in the proposal, complete in place, which shall be payment in full for all materials, equipment, labor, and incidentals necessary to complete the work.

CC. Items 26, A-1.6, A-2.6 – Topsoil:

- a. Unit of Measure: Cubic Yards.
- b. Method of Measurement: This item covers topsoil material furnished by the Contractor. Topsoil furnished by the Contractor will be measured in cubic yards by loose measure in the delivery vehicle at the point of delivery.
- c. Basis of Payment: Topsoil will be paid for at the contract unit price per cubic yard, which shall be full payment for the furnishing of topsoil, ground preparation handling, spreading, shaping, harrowing, disking, compaction, disposal of unacceptable material, and for furnishing all equipment, tools, labor, and incidentals necessary to complete the work.

DD. Items 27, A-1.7, A-2.7 - Solid Sodding (Tifway 419 Bermuda):

- a. Unit of Measure: Square Yards.
- b. Method of Measurement: Solid Sodding will be measured in square yards from measurements made parallel to the surface of the area covered by the sod.
- c. Basis of Payment: Solid Sodding will be paid for at the contract unit price, which price shall be full compensation for furnishing the sod, ground preparation, planting, soil amendments, rolling, watering, and maintaining the sod until acceptance of the contract, and for all other materials, equipment, tools, and labor necessary to complete the work.

EE. Item 28 – Seeding:

- a. Unit of Measure: Acre.
- b. Method of Measurement: Seeding will be measured in acres parallel to the seeded surface regardless of the method of establishment.
- c. Basis of Payment: Seeding will be paid for at the contract unit price per acre which shall be full compensation for all ground preparation, furnishing, preparing, soil amendments (fertilizer and lime), seeds, including water needed in mixing, planting, establishing, and maintaining of the seeded areas until final acceptance, and for all materials, equipment, tools, labor and incidentals necessary to complete the work.

FF. Item 29 – Roadway Signage:

- a. Unit of Measure: Lump Sum.
- b. Basis of Payment: Payment will be based on the respective unit bid price for project signs, complete-in-place, which shall be payment in full for furnishing the signage at each location, preparation, placing, and maintenance of the signs and for all labor, equipment, tools, and incidentals necessary to complete this item.

GG. Items 30, A-2.8 – Landscape:

- a. Unit of Measure: Lump Sum.
- b. Basis of Payment: Landscaping will be paid for at the respective contract unit price provided in the proposal, complete in place, which shall be payment in full for all materials, equipment, labor, and incidentals necessary to complete the work.

HH. Items 31, A-1.9 –Irrigation:

- a. Unit of Measure: Lump Sum.
- b. Basis of Payment: Irrigation will be paid for at the respective contract unit price provided in the proposal, complete in place, which shall be payment in full for all materials, equipment, labor, and incidentals necessary to complete the work.

II. Item 32 – Traffic Control:

- a. Unit of Measure: Lump Sum.
- b. Basis of Payment: The Lump Sum payment for traffic control devices shall be full compensation for furnishing all materials, power sources and mounting hardware, erecting, handling, relocating signs and devices within the indicated "Traffic Handling Scheme" and maintaining all traffic control devices until project completion. A lump sum payment will be considered as full compensation for "traffic handling scheme". Once construction signs or other warning devices are no longer needed within the designated limits of the lump sum "traffic handling scheme", they may be used in other areas of traffic control.

No payment will be made for stored materials under this Section unless the material in storage was either manufactured or purchased new for specific use on the project.

No payment will be made for devices installed solely for the protection of the Contractor's work and which serve no useful purpose in protecting the safety of the public or workmen such as traffic cones for paint protection, devices installed to protect fresh concrete presenting no hazard, etc.

The Contractor will be expected to submit a balanced bid for all traffic control items. The submission of unbalanced bid prices may result in loss of contract award.

JJ. Items 33, A-1.10 – Electrical

- a. Unit of Measure: Lump Sum.
- b. Basis of Payment: Payment will be made at the lump sum bid price and shall consist of the materials and associated equipment identified in the Contract complete in place, which shall be payment in full for all materials, equipment, labor, and incidentals necessary to complete the work.

KK. Item 34 – Concrete Flume with Tread Plate Cover

- a. Unit of Measure: Each.
- b. Basis of Payment: The accepted number of concrete flumes, measured as provided above, will be paid for at the respective contract unit prices for each, which shall be payment in full for furnishing all materials including gratings, covers, and other fittings and for all form work, disposal of surplus material, and for all labor, equipment, tools, and incidentals necessary to complete the work.

LL. Item A-1.8 – ADA Architectural Improvements

- a. Unit of Measure: Lump Sum.
- b. Basis of Payment: Payment will be made at the lump sum bid price and shall consist of the materials and associated equipment identified in the Contract complete in place, which shall be payment in full for all materials, equipment, labor, and incidentals necessary to complete the work.

MM. Item A-2.3 – Drainage Improvements

- a. Unit of Measure: Lump Sum.
- b. Basis of Payment: Payment will be made at the lump sum bid price and shall consist of the materials and associated equipment identified in the Contract complete in place, which shall be payment in full for all materials, equipment, labor, and incidentals necessary to complete the work.

NN. Item A-3 – Pickleball Court

- a. Unit of Measure: Lump Sum.
- b. Basis of Payment: Payment will be made at the lump sum bid price and shall consist of the materials and associated equipment identified in the Contract complete in place, which shall be payment in full for all materials, equipment, labor, and incidentals necessary to complete the work.

OO. Item A-4 – Tennis Court Fencing Improvements

- a. Unit of Measure: Lump Sum.
- b. Basis of Payment: Payment will be made at the lump sum bid price and shall consist of the materials and associated equipment identified in the Contract complete in place, which shall be payment in full for all materials, equipment, labor, and incidentals necessary to complete the work.

1.5 FINAL ADJUSTMENT TO CONTRACT SUM

- A. Upon completion of the Work, any unused portion or the total amount of the Allowance shall be credited back to the City of Mobile in the form of a Change Order.

END OF SECTION 01220

SECTION 01230
ALTERNATIVE BID ITEMS

PART 1 GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

- A. This section identifies each Alternate and describes basic changes to Work only when that Alternate is made a part of the Work.
- B. Base Bid and Alternates include costs of all supporting elements required, so that the combination of Base Bid and any Alternates are complete.
- C. The scope of work for Alternates shall be in accordance with applicable Drawings and Specifications.
- D. Except as otherwise indicated, complete work described in Alternates with no increase in Subcontract Time.
- E. This section includes non-technical descriptions of Alternates. Refer to specific sections of the Specifications and to Drawings for technical descriptions of Alternates.
- F. Submit bids for Base Bid and all Alternates listed on Bid Form. Failure to quote an amount, or insertion of the words "no bid," "none" or words of similar meaning, will be considered as not completing the proposal and may constitute disqualification of entire bid, at City's discretion. When there is no change in base bid due to using the Alternate, use the words "No Change". The words "No Change" will be interpreted to mean that work described in the Alternate shall be completed at no adjustment or change in cost of Base Bid.

1.3 PROCEDURES

- A. Alternates will be exercised at the option of Owner, and in number order.
- B. Coordinate related work and modify surrounding work as required to complete the work, including changes under each Alternate, when acceptance is designated in Owner/Contractor Agreement.

1.4 DESCRIPTION OF ALTERNATES

- A. Medal of Honor Park – Park Entrance and Amphitheater Improvements
 - 1. Alternate A-1 (Additive): Amphitheater Improvements
 - 2. Alternate A-2 (Additive): Softball Field Drainage and Landscape Improvements
 - 3. Alternate A-3 (Additive): Pickleball Court
 - 4. Alternate A-4 (Additive): Tennis Court Fencing Improvements

PART 2 PRODUCTS (Not used)

PART 3 EXECUTION (Not used)

END OF SECTION 01230

SECTION 01310
PROJECT MANAGEMENT AND COORDINATION

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section includes administrative provisions for coordinating construction operations on Project including, but not limited to, the following:
 - 1. General project coordination procedures.
 - 2. Administrative and supervisory personnel.
 - 3. Coordination drawings.
 - 4. Requests for Information (RFIs).
 - 5. Project meetings.
- B. Each contractor shall participate in coordination requirements. Certain areas of responsibility are assigned to a specific contractor.
- C. Related Sections:
 - 1. Division 1 Section "Execution Requirements"
 - 2. Division 1 Section "Project Record Drawings" for coordinating closeout of the Contract.

1.3 DEFINITIONS

- A. RFI: Request from Owner, Architect, or Contractor seeking information from each other during construction.

1.4 COORDINATION

- A. Contractor shall be responsible for coordinating all trades of his contract, Owners Contractors, coordinating construction sequences and schedules, and coordinating actual installed location and interface of work.
- B. Contractor shall supervise and direct the development of coordination drawings showing comprehensive coordination and integration of all Work of this project including, but not limited to, structural, architectural mechanical, plumbing, fire protection, electrical disciplines, and Owners Contractors.

- C. Coordination drawings are intended to assist Contractor and all trades during construction and may be used to supplement shop drawings, record drawings, and other required submittals.
- D. Coordination: Each contractor shall supervise and direct construction operations with those of subcontractors and entities to ensure efficient and orderly installation of each part of the Work. Each contractor shall coordinate its operations with operations, included in different Sections that depend on each other for proper installation, connection, and operation.
 - 1. Schedule construction operations in sequence required to obtain the best results where installation of one part of the Work depends on installation of other components, before or after its own installation.
 - 2. Coordinate installation of different components with other contractors to ensure maximum performance and accessibility for required maintenance, service, and repair.
 - 3. Make adequate provisions to accommodate items scheduled for later installation.
- E. Prepare memoranda for distribution to each party involved, outlining special procedures required for coordination. Include such items as required notices, reports, and list of attendees at meetings.
 - 1. Prepare similar memoranda for Owner and separate contractors if coordination of their Work is required.
- F. Administrative Procedures: Coordinate scheduling and timing of required administrative procedures with other construction activities to avoid conflicts and to ensure orderly progress of the Work. Such administrative activities include, but are not limited to, the following:
 - 1. Preparation of Contractor's construction schedule.
 - 2. Preparation of the schedule of values.
 - 3. Installation and removal of temporary facilities and controls.
 - 4. Delivery and processing of submittals.
 - 5. Progress meetings.
 - 6. Preinstallation conferences.
 - 7. Project closeout activities.
 - 8. Startup and adjustment of systems.
 - 9. Project closeout activities.

1.5 KEY PERSONNEL

- A. Key Personnel Names: Within 10 days of Notice to Proceed, submit a list of key personnel assignments, including superintendent and other personnel in attendance at Project site. Identify individuals and their duties and responsibilities; list addresses and telephone numbers, including home, office, and cellular telephone numbers and email addresses. Provide names, addresses, and telephone numbers of individuals assigned as standbys in the absence of individuals assigned to Project.
 - 1. Post copies of list at site. Keep list current at all times.

1.6 REQUESTS FOR INFORMATION (RFIs)

- A. General: Immediately on discovery of the need for additional information or interpretation of the Contract Documents, Contractor shall prepare and submit an RFI in the form specified.
 - 1. Architect will return RFIs submitted to Architect by other entities controlled by Contractor with no response.
 - 2. Coordinate and submit RFIs in a prompt manner so as to avoid delays in Contractor's work or work of subcontractors.

1.7 PROJECT MEETINGS

- A. General: Attendance of subcontractors and superintendent at a weekly progress meeting is required.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION (Not Used)

END OF SECTION 01310

SECTION 01320
CONSTRUCTION PROGRESS DOCUMENTATION

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section includes administrative and procedural requirements for documenting the progress of construction during performance of the Work, including the following:
 - 1. Start-up construction schedule.
 - 2. Contractor's construction schedule.
 - 3. Field condition reports.
 - 4. Special reports.

1.3 INFORMATIONAL SUBMITTALS

- A. Format for Submittals: Submit required submittals in the following format:
 - 1. PDF electronic file uploaded to eBuilder Management System.
- B. Start-up construction schedule.
 - 1. Approval of cost-loaded start-up construction schedule will not constitute approval of schedule of values for cost-loaded activities.
- C. Contractor's Construction Schedule: Initial schedule, of size required to display entire schedule for entire construction period.
- D. Field Condition Reports: Submit at time of discovery of differing conditions.
- E. Special Reports: Submit at time of unusual event.
- F. Existing Condition Photos: Submit prior to onsite mobilization to record existing conditions. If, during construction, damage occurs by others, notify Project Manager right away.

PART 2 - PRODUCTS

2.1 CONTRACTOR'S CONSTRUCTION SCHEDULE, GENERAL

- A. Time Frame: Extend schedule from date established for the Notice to Proceed to date of final completion.
- B. Activities: Treat each story or separate area as a separate numbered activity for each principal element of the Work. Show the following:
 - 1. Activity Duration
 - 2. Procurement Activities: Include procurement process activities for long lead items and major items, requiring a cycle of more than 60 days, as separate activities in schedule. Procurement cycle activities include, but are not limited to, submittals, approvals, purchasing, fabrication, and delivery.
 - 3. Submittal Review Time: Include review and resubmittal times indicated in Division 1 Section "Submittal Procedures" in schedule. Coordinate submittal review times in Contractor's construction schedule with submittal schedule.
 - 4. Startup and Testing Time: Include not less than 15 days for startup and testing.
 - 5. Substantial Completion: Indicate completion in advance of date established for Substantial Completion, and allow time for Architect's administrative procedures necessary for certification of Substantial Completion.
- C. Constraints: Include constraints and work restrictions indicated in the Contract Documents and as follows in schedule, and show how the sequence of the Work is affected.
 - 1. Phasing: Arrange list of activities on schedule by phase.
 - 2. Work Restrictions: Show the effect of the following items on the schedule:
 - a. Coordination with existing construction.
 - b. Limitations of continued occupancies.
 - c. Uninterruptible services.
 - d. Partial occupancy before Substantial Completion.
 - e. Use of premises restrictions.
 - f. Provisions for future construction.
 - g. Seasonal variations.
 - h. Environmental control.
- D. Milestones: Include milestones indicated in the Contract Documents in schedule, including, but not limited to, the Notice to Proceed, Substantial Completion, and final completion.
- E. Upcoming Work Summary: Prepare summary report indicating activities scheduled to occur or commence prior to submittal of next schedule update. Summarize the following issues:
 - 1. Unresolved issues.
 - 2. Unanswered RFIs.
 - 3. Rejected or unreturned submittals.

4. Notations on returned submittals.

2.2 START-UP CONSTRUCTION SCHEDULE

- A. Bar-Chart Schedule: Submit start-up horizontal bar-chart-type construction schedule within seven days of date established for the Notice to Proceed .
- B. Preparation: Indicate each significant construction activity separately. Identify first workday of each week with a continuous vertical line. Outline significant construction activities for first 90 days of construction.

2.3 CONTRACTOR'S CONSTRUCTION SCHEDULE (CPM SCHEDULE)

- A. CPM Schedule Preparation: Prepare a list of all activities required to complete the Work. Using the start-up network diagram, prepare a skeleton network to identify probable critical paths.
 1. Activities: Indicate the estimated time duration, sequence requirements, and relationship of each activity in relation to other activities. Include estimated time frames for the following activities:
 - a. Preparation and processing of submittals.
 - b. Mobilization and demobilization.
 - c. Purchase of materials.
 - d. Delivery.
 - e. Fabrication.
 - f. Utility interruptions.
 - g. Installation.
 - h. Work by Owner that may affect or be affected by Contractor's activities.
 - i. Testing and commissioning.
 - j. Punch list and final completion.
 - k. Activities occurring following final completion.
 2. Critical Path Activities: Identify critical path activities, including those for interim completion dates. Scheduled start and completion dates shall be consistent with Contract milestone dates.
 3. Format: Mark the critical path. Locate the critical path near center of network; locate paths with most float near the edges.
- B. Contract Modifications: For each proposed contract modification and concurrent with its submission, prepare a time-impact analysis using a network fragment to demonstrate the effect of the proposed change on the overall project schedule.
- C. Initial Issue of Schedule: Identify critical activities. Prepare tabulated reports showing the following:
 1. Contractor or subcontractor and the Work or activity.
 2. Description of activity.
 3. Principal events of activity.

4. Immediate preceding and succeeding activities.
5. Early and late start dates.
6. Early and late finish dates.
7. Activity duration in workdays.

D. Schedule Updating: Submit at each weekly coordination meeting.

1. Identification of activities that have changed.
2. Changes in early and late start dates.
3. Changes in early and late finish dates.
4. Changes in activity durations in workdays.
5. Changes in the critical path.
6. Changes in total float or slack time.
7. Changes in the Contract Time.

Note: The Contractor may be allowed additional construction days due to inclement conditions ("rain days") only as such are appropriately documented and are in excess of the NOAA/National Weather Service average (previous 5 years) for the given month. A "rain day" is defined as more than a "trace" (0.10") of rain falling within a given 24 hour period. The Contractor shall provide documentation and formally request any "rain days" they feel are legitimately due. Documentation shall be submitted to the Project Manager, in writing, within ten (10) calendar days of the rain event.

2.4 REPORTS

- A. Field Condition Reports: Immediately on discovery of a difference between field conditions and the Contract Documents, prepare and submit a detailed report. Submit with a Request for Information. Include a detailed description of the differing conditions, together with recommendations for changing the Contract Documents.

2.5 SPECIAL REPORTS

- A. General: Submit special reports directly to Owner within one day of an occurrence. Distribute copies of report to parties affected by the occurrence.
- B. Reporting Unusual Events: When an event of an unusual and significant nature occurs at Project site, whether or not related directly to the Work, prepare and submit a special report. List chain of events, persons participating, response by Contractor's personnel, evaluation of results or effects, and similar pertinent information. Advise Owner in advance when these events are known or predictable.

PART 3 - EXECUTION (Not Used)

END OF SECTION 01320

SECTION 01330
SUBMITTAL PROCEDURES

PART 1 GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

- A. Section Includes:
 - 1. Submittal Procedure
 - 2. Submittal Schedule
 - 3. Shop Drawings
 - 4. Product Data
 - 5. Samples

1.3 SUBMITTAL PROCEDURES

- A. Number each submittal with Project Manual specification Section number and sequential number within each section. Number resubmittals with original number and an alphabetic suffix.
- B. Identify Project, Contractor, Subcontractor or supplier, pertinent Drawing sheet and detail numbers, and specification Section number, as appropriate.
- C. Submit all submittals simultaneously for each Produce or Specification Section. Where multiple Products function as an assembly, group submittals for all related Products into single submittal.
- D. Project Manager will not review incomplete submittals.
- E. Apply Contractor's stamp, signed or initialed certifying that:
 - 1. Submittal was reviewed.
 - 2. Products, field dimensions, and adjacent construction have been verified.
 - 3. Information has been coordinated with requirements for Work and Contract Documents.
- F. Schedule submittals to expedite the Project, and deliver to Project Manager. Coordinate submittal of related items.
- G. For each submittal, allow 10 days for Project Manager's review, excluding delivery time to and from Contractor. Identify variations from Contract Documents and Product or system limitations that may be detrimental to successful performance of completed Work.
- H. Revise and resubmit submittals when required; identify all changes made since previous submittals.
- I. Distribute copies of reviewed submittals to concerned parties and to Project Record Documents file. Instruct parties to promptly report any inability to comply with

provisions.

1.4 SUBMITTAL SCHEDULE

- A. Submit a submittal schedule showing all submittals proposed for project, including:
 - 1. Submittals for Review
 - 2. Closeout Submittals.
- B. Include for each submittal:
 - 1. Specification section number.
 - 2. Description of submittal.
 - 3. Type of submittal.
 - 4. Anticipated submittal date.
- C. Submit a digital PDF copy to eBuilder Project Management Program.

1.5 SHOP DRAWINGS

- A. Present information in clear and thorough manner.
- B. Identify details by reference to sheet and detail numbers or areas shown on Drawings.
- C. Reproductions of details contained in Contract Documents are not acceptable.
- D. Submit a digital PDF copy through eBuilder and a digital copy will be returned to Contractor for printing and distribution.

1.6 PRODUCT DATA

- A. Mark each copy to identify applicable products, models, options, and other data.
- B. Supplement manufacturers' standard data to provide information unique to this Project.

1.7 SAMPLES

- A. Submit samples to illustrate functional and aesthetic characteristics of Products, with integral parts and attachment of devices. Coordinate sample submittals for interfacing work.
- B. Where so indicated, submit samples of finishes from the full range of manufacturers' standard colors, textures, and patterns for Project Manager's selection.
- C. Include identification for each sample, with full Project information.
- D. Project Manager will notify Contractor of approval or rejection of samples, or of selection of color, texture or pattern if full range is submitted.

END OF SECTION 01330

SECTION 01635
SUBSTITUTION PROCEDURES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section includes administrative and procedural requirements for substitutions.
- B. Related Sections:
 - 1. Divisions 2 through 16 Sections for specific requirements and limitations for substitutions and pre-bid approvals.

1.3 DEFINITIONS

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

1.4 SUBMITTALS

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

- c. Product Data, including drawings and descriptions of products and fabrication and installation procedures.
 - d. 6"x12" Samples of each finish material in proposed pattern and color.
 - e. Certificates and qualification data.
 - f. Material test reports from a qualified testing agency indicating and interpreting test results for compliance with requirements indicated.
 - g. Cost information, including a proposal of change, if any, in the Contract Sum (not applicable for pre-bid Submittals).
 - h. Impact of substitution on construction schedule.
 - i. Contractor's certification that proposed substitution complies with requirements in the Contract Documents except as indicated in substitution request, is compatible with related materials, and is appropriate for applications indicated.
 - j. Contractor's waiver of rights to additional payment or time that may subsequently become necessary because of failure of proposed substitution to produce indicated results.
2. Project Manager's Action: If necessary, Project Manager will request additional information or documentation for evaluation within seven days of receipt of a request for substitution. Project Manager will notify Contractor of acceptance or rejection of proposed substitution within 15 days of receipt of request, or seven days of receipt of additional information or documentation, whichever is later.
- a. Forms of Acceptance: Change Order, Construction Change Directive, or Project Manager Supplemental Instructions for minor changes in the Work.
 - b. Use product specified if Project Manager does not issue a decision on use of a proposed substitution within time allocated.

1.5 QUALITY ASSURANCE

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

1.6 PROCEDURES

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

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION (Not Used)

END OF SECTION 01635

SECTION 01600
PRODUCT REQUIREMENTS

PART 1 – GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

- A. Section includes administrative and procedural requirements for selection of products for use in Project; product delivery, storage, and handling; manufacturer's standard warranties on products; special warranties; and comparable products.

B. Related Requirements:

1. Section 012101 "Allowances" for products selected under an allowance.
2. Section 01710 "Closeout Procedures" for submitting warranties.
3. Refer to Section 01635 "Substitution Procedures" for definition and limitations on substitutions

1.3 DEFINITIONS

- A. Products: Items obtained for incorporating into the Work, whether purchased for Project or taken from previously purchased stock. The term "product" includes the terms "material", "equipment", "system", and terms of similar intent.

1. Named Products: Items identified by manufacturer's product name, including make or model number or other designation shown or listed in manufacturer's published product literature that is current as of date of the Contract Documents.
2. New Products: Items that have not previously been incorporated into another project or facility. Salvaged items or items reused from other projects are not considered new products. Items that are manufactured or fabricated to include recycled content materials are considered new products, unless indicated otherwise.
3. Comparable Product: Product by named manufacturer that is demonstrated and approved through the comparable product submittal process described in Part 2 "Comparable Products" Article, to have the indicated qualities related to type, function, dimension, in-service performance, physical properties, appearance, and other characteristics that equal or exceed those of specified product.

- B. Basis-of-Design Product Specification: A specification in which a single manufacturer's product is named and accompanied by the words "basis-of-design product", including make or model number or other designation. Published attributes

and characteristics of basis-of-design product establish salient characteristics of products.

1. Evaluation of Comparable Products: In addition to the basis-of-design product description, product attributes and characteristics may be listed to establish the significant qualities related to type, function, in-service performance and physical properties, weight, dimension, durability, visual characteristics, and other special features and requirements for purposes of evaluating comparable products of additional manufacturers named in the specification. Manufacturer's published attributes and characteristics of basis-of-design product also establish salient characteristics of products for purposes of evaluating comparable products.

C. Comparable Product Request Submittal: An action submittal requesting consideration of a comparable product, including the following information:

1. Identification of basis-of-design product or fabrication or installation method to be replaced, including Specification Section number and title and Drawing numbers and titles.
2. Data indicating compliance with the requirements specified in Part 2 "Comparable Products" Article.

D. Basis-of-Design Product Specification Submittal: An action submittal complying with requirements in Section 013300 "Submittal Procedures".

E. Substitution: Refer to Section 01635 "Substitution Procedures" for definition and limitations on substitutions.

1.4 QUALITY ASSURANCE

A. Compatibility of Options: If Contractor is given option of selecting between two or more products for use on Project, select product compatible with products previously selected, even if previously selected products were also options.

1. Resolution of Compatibility Disputes between Multiple Contractors:

- a. Contractors are responsible for providing products and construction methods compatible with products and construction methods of other contractors.
- b. If a dispute arises between the multiple contractors over concurrently selectable but incompatible products, Architect will determine which products shall be used.

B. Identification of Products: Except for required labels and operating data, do not attach or imprint manufacturer or product names or trademarks on exposed surfaces of products or equipment that will be exposed to view in occupied spaces or on the exterior.

1. Labels: Locate required product labels and stamps on a concealed surface, or, where required for observation following installation, on a visually accessible surface that is not conspicuous.

1.5 COORDINATION

- A. Modify or adjust work as necessary to integrate work of approved comparable products and approved substitutions.

1.6 PRODUCT DELIVERY, STORAGE, AND HANDLING

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

- B. Delivery and Handling:

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

- C. Storage:

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

1.7 PRODUCT WARRANTIES

- A. Warranties specified in other Sections shall be in addition to, and run concurrent with, other warranties required by the Contract Documents. Manufacturer's disclaimers and limitations on product warranties do not relieve Contractor of obligations under requirements of the Contract Documents.
1. Manufacturer's Warranty: Written standard warranty from furnished by individual manufacturer for a particular product and issued in the name of the Owner or endorsed by manufacturer to Owner.

2. Special Warranty: Written warranty required by the Contract Documents to provide specific rights for Owner and issued in the name of the Owner or endorsed by manufacturer to Owner.
- B. Special Warranties: Prepare a written document that contains appropriate terms and identification, ready for execution.
 1. Manufacturer's Standard Form: Modified to include Project-specific information and properly executed.
 2. Specified Form: When specified forms are included in the Project Manual, prepare a written document, using indicated form properly executed.
 3. See other Sections for specific content requirements and particular requirements for submitting special warranties.
- C. Submittal Time: Comply with requirements in Section 017700 "Closeout Procedures".

PART 2 – PRODUCTS

2.1 PRODUCT SELECTION PROCEDURES

- A. General Product Requirements: Provide products that comply with the Contract Documents, are undamaged and, unless otherwise indicated, are new at time of installation.
 1. Provide products complete with accessories, trim, finish, fasteners, and other items needed for a complete installation and indicated use and effect.
 2. Standard Products: If available, and unless custom products or nonstandard options are specified, provide standard products of types that have been produced and used successfully in similar situations on other products.
 3. Owner reserves the right to limit selection to products with warranties meeting requirements of the Contract Documents.
 4. Where products are accompanied by the term "as selected", Architect will make selection.
 5. Descriptive, performance, and reference standard requirements in the Specifications establish salient characteristics of products.
 6. Or Equal: For products specified by name and accompanied by the term "or equal", "or approved equal", or "or approved", comply with requirements in "Comparable Products" Article to obtain approval for use of an unnamed product.
 - a. Submit additional documentation required by Architect, through Project Manager in order to establish equivalency of proposed products. Unless otherwise indicated, evaluation of "or equal" product status is by the Owner, whose determination is final.
 7. For approval of products Prior to Bid by unnamed manufacturers, comply with requirements in Section 002600 "Procurement Substitution Procedures" for substitutions for convenience.
 8. No approvals for convenience will be accepted after bid date.
- B. Product Selection Procedures:
 1. Basis-of-Design Product: Where Specifications name a product, or refer to a product indicated on Drawings, and include a list of manufacturers, provide the specified or indicated product or a comparable product by one of the other named manufacturers.

Drawings and Specifications may additionally indicate sizes, profiles, dimensions, and other characteristics that are based on the product named. Comply with requirements in “Comparable Products” Article for consideration of an unnamed product by one of the other named manufacturers.

- a. For approval of products Prior to Bid by unnamed manufacturers, comply with requirements in Section 002600 “Procurement Substitution Procedures” for substitutions for convenience.
- b. No approvals for convenience will be accepted after bid date.

2.2 COMPARABLE PRODUCTS

- A. Conditions for Consideration of Comparable Products: Architect will consider Contractor’s request for comparable product when the following conditions are satisfied. If the following conditions are not satisfied, Architect may return requests without action, except to record noncompliance with the following requirements:
 1. Evidence that proposed product does not require revisions to the Contract Documents, is consistent with the Contract Documents, will produce the indicated results, and is compatible with other portions of the Work.
 2. Detailed comparison of significant qualities of proposed product with those of the named basis-of-design product. Significant product qualities include attributes, such as type, function, in-service performance and physical properties, weight, dimension, durability, visual characteristics, and other specific features and requirements.
 3. Evidence that proposed product provides specified warranty.
 4. List of similar installations for completed projects, with project names and addresses and names and addresses of architects and owners, if requested.
 5. Samples, if requested.
- B. Architect’s Action on Comparable Products Submittal: If necessary, Architect will request additional information or documentation for evaluation, as specified in Section 013300 “Submittal Procedures”.
 1. Form of Approval of Submittal: As specified in Section 013300 “Submittal Procedures”.
 2. Use product specified if Architect does not issue a decision on use of a comparable product request within time allocated.
- C. Submittal Requirements, Two-Step Process: Approval by the Architect of Contractor’s request for use of comparable product is not intended to satisfy other submittal requirements. Comply with specified submittal requirements.

PART 3 – EXECUTION (NOT USED)

END OF SECTION 01600

SECTION 01700
EXECUTION REQUIREMENTS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section includes general administrative and procedural requirements governing execution of the Work including, but not limited to, the following:
 - 1. Environmental concerns.
 - 2. Installation of the Work.
 - 3. Cutting and patching.
 - 4. Progress cleaning.
 - 5. Starting and adjusting.
 - 6. Protection of installed construction.
 - 7. Correction of the Work.
- B. Related Sections:
 - 1. Division 1 Sections "Summary of the Work", "Project Record Documents", or "Closeout Procedures", if included in Project Manual, for submitting closeout documents and final cleaning.

1.3 DEFINITIONS

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

1.4 INFORMATIONAL SUBMITTALS

- A. Cutting and Patching Plan: Submit plan describing procedures at least 10 days prior to the time cutting and patching will be performed. Include the following information:
 - 1. Extent: Describe reason for and extent of each occurrence of cutting and patching.
 - 2. Changes to In-Place Construction: Describe anticipated results. Include changes to structural elements and operating components as well as changes in building appearance and other significant visual elements.
 - 3. Products: List products to be used for patching and firms or entities that will perform patching work.

4. Dates: Indicate when cutting and patching will be performed.
5. Utilities and Mechanical and Electrical Systems: List services and systems that cutting and patching procedures will disturb or affect. List services and systems that will be relocated and those that will be temporarily out of service. Indicate how long services and systems will be disrupted. Prior approval of Utility outages is required. Notify Owner of intent at least 72 hours in advance.

1.5 QUALITY ASSURANCE

- A. Cutting and Patching: Comply with requirements for and limitations on cutting and patching of construction elements.

PART 2 - PRODUCTS

2.1 MATERIALS

- A. General: Comply with requirements specified in other Sections.
- B. In-Place Materials: Use materials for patching identical to in-place materials. For exposed surfaces, use materials that visually match in-place adjacent surfaces to the fullest extent possible.
 1. If identical materials are unavailable or cannot be used, use materials that, when installed, will provide a match acceptable to the Architect for the visual and functional performance of in-place materials.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Existing Conditions: The existence and location of underground and other utilities and construction indicated as existing are not guaranteed. Before beginning work, investigate and verify the existence and location of underground utilities, mechanical and electrical systems, and other construction affecting the Work.
 1. Before construction, verify the location and invert elevation at points of connection of sanitary sewer, storm sewer, and water-service piping; underground electrical services, and other utilities.
 2. Furnish location data for work related to Project that must be performed by public utilities serving Project site.
- B. Examination and Acceptance of Conditions: Before proceeding with each component of the Work, examine substrates, areas, and conditions, with Installer or Applicator present where indicated, for compliance with requirements for installation tolerances and other conditions affecting performance. Record observations.

1. Written Report: Where a written report listing conditions detrimental to performance of the Work is required by other Sections, include the following:
 - a. Description of the Work.
 - b. List of detrimental conditions, including substrates.
 - c. List of unacceptable installation tolerances.
 - d. Recommended corrections.
2. Verify compatibility with and suitability of substrates, including compatibility with existing finishes or primers.
3. Examine roughing-in for mechanical and electrical systems to verify actual locations of connections before equipment and fixture installation.
4. Examine walls, floors, and roofs for suitable conditions where products and systems are to be installed.
5. Proceed with installation only after unsatisfactory conditions have been corrected. Proceeding with the Work indicates acceptance of surfaces and conditions.

3.2 PREPARATION

- A. Field Measurements: Take field measurements as required to fit the Work properly. Recheck measurements before installing each product. Where portions of the Work are indicated to fit to other construction, verify dimensions of other construction by field measurements before fabrication. Coordinate fabrication schedule with construction progress to avoid delaying the Work.
- B. Space Requirements: Verify space requirements and dimensions of items shown diagrammatically on Drawings.
- C. Review of Contract Documents and Field Conditions: Immediately on discovery of the need for clarification of the Contract Documents caused by differing field conditions outside the control of the Contractor, submit a request for information to Architect according to requirements in Division 1 Section "Project Management and Coordination."
- D. Surface and Substrate Preparation: Comply with manufacturer's recommendations for preparation of substrates to receive subsequent work.

3.3 INSTALLATION

- A. General: Locate the Work and components of the Work accurately, in correct alignment and elevation, as indicated.
 1. Make vertical work plumb and make horizontal work level.
 2. Where space is limited, install components to maximize space available for maintenance and ease of removal for replacement.
 3. Conceal pipes, ducts, and wiring in finished areas, unless otherwise indicated.
 4. Maintain minimum headroom clearance of 96 inches, but in no case shall the new piping be lower than the existing piping.

- B. Comply with manufacturer's written instructions and recommendations for installing products in applications indicated.
- C. Install products at the time and under conditions that will ensure the best possible results. Maintain conditions required for product performance until Substantial Completion.
- D. Conduct construction operations so no part of the Work is subjected to damaging operations or loading in excess of that expected during normal conditions of occupancy.
- E. Tools and Equipment: Do not use tools or equipment that produce harmful noise levels.
- F. Templates: Obtain and distribute to the parties involved templates for work specified to be factory prepared and field installed. Check Shop Drawings of other work to confirm that adequate provisions are made for locating and installing products to comply with indicated requirements.
- G. Attachment: Provide blocking and attachment plates and anchors and fasteners of adequate size and number to securely anchor each component in place, accurately located and aligned with other portions of the Work. Where size and type of attachments are not indicated, verify size and type required for load conditions.
 - 1. Mounting Heights: Where mounting heights are not indicated, mount components at heights directed by Architect.
 - 2. Allow for building movement, including thermal expansion and contraction.
 - 3. Coordinate installation of anchorages. Furnish setting drawings, templates, and directions for installing anchorages, including sleeves, concrete inserts, anchor bolts, and items with integral anchors, that are to be embedded in concrete or masonry. Deliver such items to Project site in time for installation.
- H. Joints: Make joints of uniform width. Where joint locations in exposed work are not indicated, arrange joints for the best visual effect. Fit exposed connections together to form hairline joints.
- I. Hazardous Materials: Use products, cleaners, and installation materials that are not considered hazardous, and meet environmental requirements.

3.4 CUTTING AND PATCHING

- A. Cutting and Patching, General: Employ skilled workers to perform cutting and patching. Proceed with cutting and patching at the earliest feasible time, and complete without delay.
 - 1. Cut in-place construction to provide for installation of other components or performance of other construction, and subsequently patch as required to restore surfaces to their original condition.
- B. Temporary Support: Provide temporary support of work to be cut.

- C. Protection: Protect in-place construction during cutting and patching to prevent damage. Provide protection from adverse weather conditions for portions of Project that might be exposed during cutting and patching operations.
- D. Adjacent Occupied Areas: Where interference with use of adjoining areas or interruption of free passage to adjoining areas is unavoidable, coordinate cutting and patching in accordance with requirements of Division 1 Section "Summary."
- E. Existing Utility Services and Mechanical/Electrical Systems: Where existing services/systems are required to be removed, relocated, or abandoned, bypass such services/systems before cutting to prevent interruption to occupied areas.
- F. Cutting: Cut in-place construction by sawing, drilling, breaking, chipping, grinding, and similar operations, including excavation, using methods least likely to damage elements retained or adjoining construction. If possible, review proposed procedures with original Installer; comply with original Installer's written recommendations.
 - 1. In general, use hand or small power tools designed for sawing and grinding, not hammering and chopping. Cut holes and slots neatly to minimum size required, and with minimum disturbance of adjacent surfaces. Temporarily cover openings when not in use.
 - 2. Finished Surfaces: Cut or drill from the exposed or finished side into concealed surfaces.
 - 3. [Concrete] [and] [Masonry]: Cut using a cutting machine, such as an abrasive saw or a diamond-core drill.
 - 4. Mechanical and Electrical Services: Cut off pipe or conduit in walls or partitions to be removed. Cap, valve, or plug and seal remaining portion of pipe or conduit to prevent entrance of moisture or other foreign matter after cutting.
 - 5. Proceed with patching after construction operations requiring cutting are complete.
- G. Patching: Patch construction by filling, repairing, refinishing, closing up, and similar operations following performance of other work. Patch with durable seams that are as invisible as practicable. Provide materials and comply with installation requirements specified in other Sections, where applicable.
 - 1. Inspection: Where feasible, test and inspect patched areas after completion to demonstrate physical integrity of installation.
 - 2. Exposed Finishes: Restore exposed finishes of patched areas and extend finish restoration into retained adjoining construction in a manner that will minimize evidence of patching and refinishing.
 - a. Clean piping, conduit, and similar features before applying paint or other finishing materials.
 - b. Restore damaged pipe covering to its original condition.
 - 3. Floors and Walls: Where walls or partitions that are removed extend one finished area into another, patch and repair floor and wall surfaces in the new space. Provide an even surface of uniform finish, color, texture, and appearance. Remove in-place floor and wall coverings and replace with new materials, if necessary, to achieve uniform color and appearance.

- a. Where patching occurs in a painted surface, prepare substrate and apply primer and intermediate paint coats appropriate for substrate over the patch, and apply final paint coat over entire unbroken surface containing the patch. Provide additional coats until patch blends with adjacent surfaces.
 4. Ceilings: Patch, repair, or rehang in-place ceilings as necessary to provide an even-plane surface of uniform appearance.
 5. Exterior Building Enclosure: Patch components in a manner that restores enclosure to a weathertight condition.
- H. Cleaning: Clean areas and spaces where cutting and patching are performed. Remove paint, mortar, oils, putty, and similar materials from adjacent finished surfaces.

3.5 PROGRESS CLEANING

- A. General: Clean Project site and work areas daily, including common areas. Enforce requirements strictly. Dispose of materials lawfully.
1. Comply with requirements in NFPA 241 for removal of combustible waste materials and debris.
 2. Do not hold waste materials more than seven days during normal weather or three days if the temperature is expected to rise above 80 deg F (27 deg C).
 3. Containerize hazardous and unsanitary waste materials separately from other waste. Mark containers appropriately and dispose of legally, according to regulations.
 - a. Utilize containers intended for holding waste materials of type to be stored.
 4. Coordinate progress cleaning for joint-use areas where more than one installer has worked.
- B. Site: Maintain Project site free of waste materials and debris.
- C. Work Areas: Clean areas where work is in progress to the level of cleanliness necessary for proper execution of the Work.
1. Remove liquid spills promptly.
 2. Where dust would impair proper execution of the Work, broom-clean or vacuum the entire work area, as appropriate.
- D. Installed Work: Keep installed work clean. Clean installed surfaces according to written instructions of manufacturer or fabricator of product installed, using only cleaning materials specifically recommended. If specific cleaning materials are not recommended, use cleaning materials that are not hazardous to health or property and that will not damage exposed surfaces.
- E. Exposed Surfaces in Finished Areas: Clean exposed surfaces and protect as necessary to ensure freedom from damage and deterioration at time of Substantial Completion.

- F. Waste Disposal: Do not bury or burn waste materials on-site. Do not wash waste materials down sewers or into waterways.
- G. During handling and installation, clean and protect construction in progress and adjoining materials already in place. Apply protective covering where required to ensure protection from damage or deterioration at Substantial Completion.
- H. Clean completed construction as frequently as necessary through the remainder of the construction period.

3.6 STARTING AND ADJUSTING

- A. Coordinate startup and adjusting of equipment and operating components with requirements in other Division 2 -16 Sections."
- B. Start equipment and operating components to confirm proper operation. Remove malfunctioning units, replace with new units, and retest.
- C. Adjust equipment for proper operation. Adjust operating components for proper operation without binding.
- D. Test each piece of equipment to verify proper operation. Test and adjust controls and safeties. Replace damaged and malfunctioning controls and equipment.
- E. Manufacturer's Field Service: Comply with qualification requirements in other Division 2-16 Sections.

3.7 PROTECTION OF INSTALLED CONSTRUCTION

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

3.8 CORRECTION OF THE WORK

- A. Repair or remove and replace defective construction. Restore damaged substrates and finishes.
 - 1. Repairing includes replacing defective parts, refinishing damaged surfaces, touching up with matching materials, and properly adjusting operating equipment.
- B. Restore permanent facilities used during construction to their specified condition.
- C. Remove and replace damaged surfaces that are exposed to view if surfaces cannot be repaired without visible evidence of repair.
- D. Repair components that do not operate properly. Remove and replace operating components that cannot be repaired.

- E. Remove and replace chipped, scratched, and broken glass or reflective surfaces.

3.9 ENVIRONMENTAL CONCERNS

1. Provide protection and conduct construction in ways that comply with environmental regulations and that minimize possible air, waterway, and subsoil contamination or pollution or other undesirable effects.

3.10 STORMWATER CONTROL AND DISCHARGE

1. Comply with City of Mobile and Alabama Department of Environmental Management requirements. Pay particular attention to Water Regulations and Allowable Discharges.
2. See City of Mobile Code, Chapter 17, Storm Water Management and Flood Control.
3. Obtain any necessary permits that may be required due to discharges.

END OF SECTION 01700

SECTION 01710
CLOSEOUT PROCEDURES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

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

1.3 ACTION SUBMITTALS

- A. Product Data: For each type of cleaning agent.
- B. Contractor's List of Incomplete Items: Initial submittal at Substantial Completion.
- C. Certified List of Incomplete Items: Final submittal at final completion.

1.4 CLOSEOUT SUBMITTALS

- A. Certificates of Release: From authorities having jurisdiction.
- B. Certificate of Insurance: For continuing coverage.

1.5 MAINTENANCE MATERIAL SUBMITTALS

- A. Schedule of Maintenance Material Items: For maintenance material submittal items specified in other Sections.

1.6 SUBSTANTIAL COMPLETION PROCEDURES

- A. Contractor's List of Incomplete Items: Prepare and submit a list of items to be completed and corrected (Contractor's punch list), indicating the value of each item on the list and reasons why the Work is incomplete.
- B. Submittals Prior to Substantial Completion: Complete the following a minimum of 10 days prior to requesting inspection for determining date of Substantial Completion. List items below that are incomplete at time of request.
 - 1. Certificates of Release: Obtain and submit releases from authorities having jurisdiction permitting Owner unrestricted use of the Work and access to services and utilities. Include occupancy permits, operating certificates, and similar releases.
 - 2. Submit closeout submittals specified in other Division 01 Sections, including project record documents, operation and maintenance manuals, damage or settlement surveys, property surveys, and similar final record information.
 - 3. Submit closeout submittals specified in individual Sections, including specific warranties, workmanship bonds, maintenance service agreements, final certifications, and similar documents.
 - 4. Submit maintenance material submittals specified in individual Sections, including tools, spare parts, extra materials, and similar items, and deliver to location designated by Architect. Label with manufacturer's name and model number.
 - a. Schedule of Maintenance Material Items: Prepare and submit schedule of maintenance material submittal items, including name and quantity of each item and name and number of related Specification Section. Obtain Architect's signature for receipt of submittals.
 - 5. Submit testing, adjusting, and balancing records.
 - 6. Submit sustainable design submittals not previously submitted.
 - 7. Submit changeover information related to Owner's occupancy, use, operation, and maintenance.
- C. Procedures Prior to Substantial Completion: Complete the following a minimum of 10 days prior to requesting inspection for determining date of Substantial Completion. List items below that are incomplete at time of request.
 - 1. Advise Owner of pending insurance changeover requirements.
 - 2. Make final changeover of permanent locks and deliver keys to Owner. Advise Owner's personnel of changeover in security provisions.
 - 3. Complete startup and testing of systems and equipment.
 - 4. Perform preventive maintenance on equipment used prior to Substantial Completion.
 - 5. Instruct Owner's personnel in operation, adjustment, and maintenance of products, equipment, and systems.
 - 6. Advise Owner of changeover in utility services.
 - 7. Terminate and remove temporary facilities from Project site, along with mockups, construction tools, and similar elements.
 - 8. Complete final cleaning requirements.

9. Touch up paint and otherwise repair and restore marred exposed finishes to eliminate visual defects.
- D. Inspection: Submit a written request for inspection to determine Substantial Completion a minimum of 10 days prior to date the Work will be completed and ready for final inspection and tests. On receipt of request, Architect will either proceed with inspection or notify Contractor of unfulfilled requirements. Architect will prepare the Certificate of Substantial Completion after inspection or will notify Contractor of items, either on Contractor's list or additional items identified by Architect, that must be completed or corrected before certificate will be issued.
1. Request reinspection when the Work identified in previous inspections as incomplete is completed or corrected.
 2. Results of completed inspection will form the basis of requirements for final completion.

1.7 FINAL COMPLETION PROCEDURES

- A. Submittals Prior to Final Completion: Before requesting final inspection for determining final completion, complete the following:
1. Certified List of Incomplete Items: Submit certified copy of Architect's Substantial Completion inspection list of items to be completed or corrected (punch list), endorsed and dated by Architect. Certified copy of the list shall state that each item has been completed or otherwise resolved for acceptance.
 2. Certificate of Insurance: Submit evidence of final, continuing insurance coverage complying with insurance requirements.
 3. Submit final completion photographic documentation.
- B. Inspection: Submit a written request for final inspection to determine acceptance a minimum of 10 days prior to date the work will be completed and ready for final inspection and tests. On receipt of request, Architect will either proceed with inspection or notify Contractor of unfulfilled requirements. Architect will prepare a final Certificate for Payment after inspection or will notify Contractor of construction that must be completed or corrected before certificate will be issued.
1. Request reinspection when the Work identified in previous inspections as incomplete is completed or corrected.

1.8 LIST OF INCOMPLETE ITEMS (PUNCH LIST)

- A. Organization of List: Include name and identification of each space and area affected by construction operations for incomplete items and items needing correction including, if necessary, areas disturbed by Contractor that are outside the limits of construction.
1. Organize items applying to each space by major element, including categories for ceiling, individual walls, floors, equipment, and building systems.
 2. Include the following information at the top of each page:
 - a. Project name.
 - b. Date.

- c. Name of Architect.
 - d. Name of Contractor.
 - e. Page number.
3. Submit list of incomplete items in the following format:
- a. MS Excel electronic file. Architect will return annotated file.
 - b. PDF electronic file. Architect will return annotated file.

1.9 SUBMITTAL OF PROJECT WARRANTIES

- A. Time of Submittal: Submit written warranties on request of Architect for designated portions of the Work where warranties are indicated to commence on dates other than date of Substantial Completion, or when delay in submittal of warranties might limit Owner's rights under warranty.
- B. Organize warranty documents into an orderly sequence based on the table of contents of Project Manual.
- C. Warranty Electronic File: Provide warranties and bonds in PDF format. Assemble complete warranty and bond submittal package into a single electronic PDF file with bookmarks enabling navigation to each item. Provide bookmarked table of contents at beginning of document.
- D. Warranties in Paper Form:
 1. Bind warranties and bonds in heavy-duty, three-ring, vinyl-covered, loose-leaf binders, thickness as necessary to accommodate contents, and sized to receive 8-1/2-by-11-inch paper.
 2. Provide heavy paper dividers with plastic-covered tabs for each separate warranty. Mark tab to identify the product or installation. Provide a typed description of the product or installation, including the name of the product and the name, address, and telephone number of Installer.
 3. Identify each binder on the front and spine with the typed or printed title "WARRANTIES," Project name, and name of Contractor.
- E. Provide additional copies of each warranty to include in operation and maintenance manuals.

PART 2 - PRODUCTS

2.1 MATERIALS

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

1. Use cleaning products that comply with Green Seal's GS-37, or if GS-37 is not applicable, use products that comply with the California Code of Regulations maximum allowable VOC levels.

PART 3 - EXECUTION

3.1 FINAL CLEANING

- A. General: Perform final cleaning. Conduct cleaning and waste-removal operations to comply with local laws and ordinances and Federal and local environmental and antipollution regulations.
- B. Cleaning: Employ experienced workers or professional cleaners for final cleaning. Clean each surface or unit to condition expected in an average commercial building cleaning and maintenance program. Comply with manufacturer's written instructions.
 1. Complete the following cleaning operations before requesting inspection for certification of Substantial Completion for entire Project or for a designated portion of Project:
 - a. Clean Project site, and grounds, in areas disturbed by construction and delivery activities, of rubbish, waste material, litter, and other foreign substances.
 - b. Sweep paved areas broom clean. Remove petrochemical spills, stains, and other foreign deposits.
 - c. Remove tools, construction equipment, machinery, and surplus material from Project site.
 - d. Clean interior hard-surfaced finishes to a dirt-free condition, free of stains, films, and similar foreign substances. Avoid disturbing natural weathering of exterior surfaces. Restore reflective surfaces to their original condition.
 - e. Remove debris and surface dust from limited access spaces, including roofs, plenums, shafts, trenches, equipment vaults, manholes, attics, and similar spaces.
 - f. Sweep concrete floors broom clean in unoccupied spaces.
 - g. Vacuum carpet and similar soft surfaces, removing debris and excess nap; clean according to manufacturer's recommendations if visible soil or stains remain.
 - h. Clean transparent materials, including mirrors and glass in doors and windows. Remove glazing compounds and other noticeable, vision-obscuring materials. Polish mirrors and glass, taking care not to scratch surfaces.
 - i. Remove labels that are not permanent.
 - j. Wipe surfaces of mechanical and electrical equipment, and similar equipment. Remove excess lubrication, paint and mortar droppings, and other foreign substances.
 - k. Clean plumbing fixtures to a sanitary condition, free of stains, including stains resulting from water exposure.
 - l. Replace disposable air filters and clean permanent air filters. Clean exposed surfaces of diffusers, registers, and grills.

- m. Clean ducts, blowers, and coils if units were operated without filters during construction or that display contamination with particulate matter on inspection.
- n. Clean light fixtures, lamps, globes, and reflectors to function with full efficiency.
- o. Leave Project clean and ready for occupancy.

3.2 REPAIR OF THE WORK

- A. Complete repair and restoration operations before requesting inspection for determination of Substantial Completion.
- B. Repair, or remove and replace, defective construction. Repairing includes replacing defective parts, refinishing damaged surfaces, touching up with matching materials, and properly adjusting operating equipment. Where damaged or worn items cannot be repaired or restored, provide replacements. Remove and replace operating components that cannot be repaired. Restore damaged construction and permanent facilities used during construction to specified condition.
 - 1. Remove and replace chipped, scratched, and broken glass, reflective surfaces, and other damaged transparent materials.
 - 2. Touch up and otherwise repair and restore marred or exposed finishes and surfaces. Replace finishes and surfaces that already show evidence of repair or restoration.
 - a. Do not paint over "UL" and other required labels and identification, including mechanical and electrical nameplates. Remove paint applied to required labels and identification.
 - 3. Replace parts subject to operating conditions during construction that may impede operation or reduce longevity.
 - 4. Replace burned-out bulbs, bulbs noticeably dimmed by hours of use, and defective and noisy starters in fluorescent and mercury vapor fixtures to comply with requirements for new fixtures.

END OF SECTION 01710

SECTION 017823
OPERATION AND MAINTENANCE DATA

PART 1 - GENERAL

1.1 SUMMARY

- A. This Section includes administrative and procedural requirements for preparing operation and maintenance manuals, including the following:
 - 1. Operation manuals for systems, subsystems, and equipment.
 - 2. Maintenance manuals for the care and maintenance of products, materials, and finishes, systems and equipment.
- B. See Divisions 01 through 32 Sections for specific operation and maintenance manual requirements for the Work in those Sections.

1.2 SUBMITTALS

- A. Submit an electronic copy of each manual using the Owner's eBuilder website in final form at least 15 days before final inspection. Architect will return copy with comments within 10 days after final inspection.
 - 1. Correct or modify each manual to comply with Architect's comments. Submit a **PDF** of each corrected manual within 10 days of receipt of Architect's comments.

PART 2 - PRODUCTS

2.1 MANUALS, GENERAL

- A. Organization: Unless otherwise indicated, organize each manual into a separate section for each system and subsystem, and a separate section for each piece of equipment not part of a system. Each manual shall contain a title page, table of contents, and manual contents.
- B. Title Page: Enclose title page in transparent plastic sleeve. Include the following information:
 - 1. Subject matter included in manual.
 - 2. Name and address of Project.
 - 3. Name and address of Owner.
 - 4. Date of submittal.
 - 5. Name, address, and telephone number of Contractor.
 - 6. Name and address of Architect and Engineer.
 - 7. Cross-reference to related systems in other operation and maintenance manuals.

- C. Table of Contents: List each product included in manual, identified by product name, indexed to the content of the volume, and cross-referenced to Specification Section number in Project Manual.
- D. Manual Contents: Organize into sets of manageable size. Arrange contents alphabetically by system, subsystem, and equipment. If possible, assemble instructions for subsystems, equipment, and components of one system into a single binder.
 - 1. Binders: Heavy-duty, 3-ring, vinyl-covered, loose-leaf binders, in thickness necessary to accommodate contents, sized to hold 8-1/2-by-11-inch paper; with clear plastic sleeve on spine to hold label describing contents and with pockets inside covers to hold folded oversize sheets.
 - a. Identify each binder on front and spine, with printed title "OPERATION AND MAINTENANCE MANUAL," Project title or name, and subject matter of contents. Indicate volume number for multiple-volume sets.
 - 2. Dividers: Heavy-paper dividers with plastic-covered tabs for each section. Mark each tab to indicate contents. Include typed list of products and major components of equipment included in the section on each divider, cross-referenced to Specification Section number and title of Project Manual.
 - 3. Protective Plastic Sleeves: Transparent plastic sleeves designed to enclose diagnostic software diskettes for computerized electronic equipment.
 - 4. Drawings: Attach reinforced, punched binder tabs on drawings and bind with text.
 - a. If oversize drawings are necessary, fold drawings to same size as text pages and use as foldouts.
 - b. If drawings are too large to be used as foldouts, fold and place drawings in labeled envelopes and bind envelopes in rear of manual. At appropriate locations in manual, insert typewritten pages indicating drawing titles, descriptions of contents, and drawing locations.

2.2 OPERATION MANUALS

- A. Content: In addition to requirements in this Section, include operation data required in individual Specification Sections and equipment descriptions, operating standards, operating procedures, operating logs, wiring and control diagrams, and license requirements.
- B. Descriptions: Include the following:
 - 1. Product name and model number.
 - 2. Manufacturer's name.
 - 3. Equipment identification with serial number of each component.
 - 4. Equipment function.
 - 5. Operating characteristics.
 - 6. Limiting conditions.
 - 7. Performance curves.
 - 8. Engineering data and tests.

9. Complete nomenclature and number of replacement parts.
- C. Operating Procedures: Include start-up, break-in, and control procedures; stopping and normal shutdown instructions; routine, normal, seasonal, and weekend operating instructions; and required sequences for electric or electronic systems.
- D. Systems and Equipment Controls: Describe the sequence of operation, and diagram controls as installed.
- E. Piped Systems: Diagram piping as installed and identify color-coding where required for identification.

2.3 PRODUCT MAINTENANCE MANUAL

- A. Content: Organize manual into a separate section for each product, material, and finish. Include source information, product information, maintenance procedures, repair materials and sources, and warranties and bonds, as described below.
- B. Source Information: List each product included in manual, identified by product name and arranged to match manual's table of contents. For each product, list name, address, and telephone number of Installer or supplier and maintenance service agent, and cross-reference Specification Section number and title in Project Manual.
- C. Product Information: Include the following, as applicable:
 1. Product name and model number.
 2. Manufacturer's name.
 3. Color, pattern, and texture.
 4. Material and chemical composition.
 5. Reordering information for specially manufactured products.
- D. Maintenance Procedures: Include manufacturer's written recommendations and inspection procedures, types of cleaning agents, methods of cleaning, schedule for cleaning and maintenance, and repair instructions.
- E. Repair Materials and Sources: Include lists of materials and local sources of materials and related services.
- F. Warranties and Bonds: Include copies of warranties and bonds and lists of circumstances and conditions that would affect validity of warranties or bonds.

2.4 SYSTEMS AND EQUIPMENT MAINTENANCE MANUAL

- A. Content: For each system, subsystem, and piece of equipment not part of a system, include source information, manufacturers' maintenance documentation, maintenance procedures, maintenance and service schedules, spare parts list and source information, maintenance service contracts, and warranty and bond information, as described below.

- B. Source Information: List each system, subsystem, and piece of equipment included in manual, identified by product name and arranged to match manual's table of contents. For each product, list name, address, and telephone number of Installer or supplier and maintenance service agent, and cross-reference Specification Section number and title in Project Manual.
- C. Manufacturers' Maintenance Documentation: Manufacturers' maintenance documentation including maintenance instructions, drawings and diagrams for maintenance, nomenclature of parts and components, and recommended spare parts for each component part or piece of equipment:
- D. Maintenance Procedures: Include test and inspection instructions, troubleshooting guide, disassembly instructions, and adjusting instructions, and demonstration and training videotape if available, that detail essential maintenance procedures.
- E. Submit demonstration and training video for all lighting control systems.
- F. Maintenance and Service Schedules: Include service and lubrication requirements, list of required lubricants for equipment, and separate schedules for preventive and routine maintenance and service with standard time allotment.
- G. Spare Parts List and Source Information: Include lists of replacement and repair parts, with parts identified and cross-referenced to manufacturers' maintenance documentation and local sources of maintenance materials and related services.
- H. Maintenance Service Contracts: Include copies of maintenance agreements with name and telephone number of service agent.
- I. Warranties and Bonds: Include copies of warranties and bonds and lists of circumstances and conditions that would affect validity of warranties or bonds.

PART 3 - EXECUTION

3.1 MANUAL PREPARATION

- A. Product Maintenance Manual: Assemble a complete set of maintenance data indicating care and maintenance of each product, material, and finish incorporated into the Work.
- B. Operation and Maintenance Manuals: Assemble a complete set of operation and maintenance data indicating operation and maintenance of each system, subsystem, and piece of equipment not part of a system.
- C. Manufacturers' Data: Where manuals contain manufacturers' standard printed data, include only sheets pertinent to product or component installed. Mark each sheet to identify each product or component incorporated into the Work. If data include more than one item in a tabular format, identify each item using appropriate references from the Contract Documents. Identify data applicable to the Work and delete references to information not applicable.

- D. Drawings: Prepare drawings supplementing manufacturers' printed data to illustrate the relationship of component parts of equipment and systems and to illustrate control sequence and flow diagrams. Coordinate these drawings with information contained in Record Drawings to ensure correct illustration of completed installation.
 - 1. Do not use original Project Record Documents as part of operation and maintenance manuals.
- E. Comply with Division 01 Section "Closeout Procedures" for schedule for submitting operation and maintenance documentation.

END OF SECTION 017823

SECTION 017839
PROJECT RECORD DOCUMENTS

PART 1 - GENERAL

1.1 SUMMARY

- A. This Section includes administrative and procedural requirements for Project Record Documents, including the following:
 - 1. Record Drawings.
 - 2. Record Specifications.
 - 3. Record Product Data.
- B. See Division 01 Section "Operation and Maintenance Data" for operation and maintenance manual requirements.
- C. See Divisions 01 through 32 Sections for specific requirements for Project Record Documents of the Work in those Sections.

1.2 SUBMITTALS

- A. Record Drawings: Comply with the following:
 - 1. Number of Copies: Submit copies of Record Drawings as follows:
 - a. Final Submittal: Submit digital PDF of marked-up Record Prints, showing all dimensional locations, materials changes, any changes via addendum or change order. Pay particular attention to noting underground utilities.
- B. Record Specifications: Submit digital PDF of Project's Specifications, including addenda and contract modifications.
- C. Record Product Data: Submit two copies of each Product Data submittal.
- D. Submit PDF's of Record Drawings, Record Specifications, Record Change Orders, Requests for Proposal, Documentation of use of Allowances, Product and Contractor's Warrantees, Product Test Reports, Final Surveys, Record Product Data, etc to eBuilder Project Management Program.

PART 2 - PRODUCTS

2.1 RECORD DRAWINGS

- A. Record Prints: Maintain one set of blue- or black-line white prints of the Contract Drawings and Shop Drawings.

1. Preparation: Mark Record Prints to show the actual installation where installation varies from that shown originally. Require individual or entity who obtained record data, whether individual or entity is Installer, subcontractor, or similar entity, to prepare the marked-up Record Prints.
 - a. Give particular attention to information on concealed elements that would be difficult to identify or measure and record later.
 - b. Record data as soon as possible after obtaining it. Record and check the markup before enclosing concealed installations.
 2. Mark the Contract Drawings or Shop Drawings, whichever is most capable of showing actual physical conditions, completely and accurately. If Shop Drawings are marked, show cross-reference on the Contract Drawings.
 3. Mark record sets with erasable, red-colored pencil. Use other colors to distinguish between changes for different categories of the Work at same location.
 4. Note Construction Change Directive numbers, alternate numbers, Change Order numbers, and similar identification, where applicable.
- B. Format: Identify and date each Record Drawing; include the designation "PROJECT RECORD DRAWING" in a prominent location.
1. Record Prints: Organize Record Prints and newly prepared Record Drawings into manageable sets. Bind each set with durable paper cover sheets. Include identification on cover sheets.
 2. Record Transparencies: Organize into unbound sets matching Record Prints. Place transparencies in durable tube-type drawing containers with end caps. Mark end cap of each container with identification. If container does not include a complete set, identify Drawings included.
 3. Record CAD Drawings: Organize CAD information into separate electronic files that correspond to each sheet of the Contract Drawings. Name each file with the sheet identification. Include identification in each CAD file.
 4. Identification: As follows:
 - a. Project name.
 - b. Date.
 - c. Designation "PROJECT RECORD DRAWINGS."
 - d. Name of Architect and Engineer.
 - e. Name of Contractor.

2.2 RECORD SPECIFICATIONS

- A. Preparation: Mark Specifications to indicate the actual product installation where installation varies from that indicated in Specifications, addenda, and contract modifications.
1. Give particular attention to information on concealed products and installations that cannot be readily identified and recorded later.
 2. Mark copy with the proprietary name and model number of products, materials, and equipment furnished, including substitutions and product options selected.

3. Record the name of manufacturer, supplier, Installer, and other information necessary to provide a record of selections made.
4. Note related Change Orders, Record Product Data, and Record Drawings where applicable.

2.3 RECORD PRODUCT DATA

- A. Preparation: Mark Product Data to indicate the actual product installation where installation varies substantially from that indicated in Product Data submittal.
 1. Give particular attention to information on concealed products and installations that cannot be readily identified and recorded later.
 2. Include significant changes in the product delivered to Project site and changes in manufacturer's written instructions for installation.
 3. Note related Change Orders, Record Specifications, and Record Drawings where applicable.

2.4 MISCELLANEOUS RECORD SUBMITTALS

- A. Assemble miscellaneous records required by other Specification Sections for miscellaneous record keeping and submittal in connection with actual performance of the Work. Bind or file miscellaneous records and identify each, ready for continued use and reference.
- B. Completed Test Reports.

PART 3 - EXECUTION

3.1 RECORDING AND MAINTENANCE

- A. Recording: Maintain one copy of each submittal during the construction period for Project Record Document purposes. Post changes and modifications to Project Record Documents as they occur; do not wait until the end of Project.
- B. Maintenance of Record Documents and Samples: Store Record Documents and Samples in the field office apart from the Contract Documents used for construction. Do not use Project Record Documents for construction purposes. Maintain Record Documents in good order and in a clean, dry, legible condition, protected from deterioration and loss. Provide access to Project Record Documents for Architect's reference during normal working hours.

END OF SECTION 017839

SECTION 02230
SITE CLEARING

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:

1. Preparation of right-of-way and other designated areas for construction operations by removing and disposing of all obstructions including clearing and grubbing, when removal of such obstructions is not specifically shown on the Drawings to be paid by other Sections.

B. Related Specification Sections include but are not necessarily limited to

1. Division 0 – Proposal Requirements, Contract Forms and Conditions of the Contract
2. Division 1 – General Requirements
3. Section 02410 – Site Demolition

1.2 REFERENCES (NOT USED)

1.3 ADMINISTRATIVE REQUIREMENTS

A. Preinstallation Meetings

1. Hold a preliminary site clearing meeting and include the Contractor, Owner, and Engineer for the purpose of reviewing the Contractor's site clearing and tree removal plan. Clearly mark all trees to remain on the project site prior to the meeting.

1.4 SUBMITTALS

- A. Site Clearing and Tree Removal Plan: The Contractor shall prepare and submit a Site Clearing and Tree Removal Plan detailing site clearing activities and schedule.

1.5 ACTION SUBMITTALS/INFORMATIONAL SUBMITTALS (NOT USED)

1.6 CLOSEOUT SUBMITTALS (NOT USED)

1.7 MAINTENANCE MATERIAL SUBMITTALS (NOT USED)

1.8 QUALITY ASSURANCE

- A. Conform to applicable federal, state, and local regulations for environmental requirements and disposal of debris.

1.9 DELIVERY, STORAGE, AND HANDLING (NOT USED)

1.10 FIELD CONDITIONS (NOT USED)

1.11 WARRANTY (NOT USED)

PART 2 - PRODUCTS (NOT USED)

PART 3 - EXECUTION

3.1 INSTALLERS (NOT USED)

3.2 EXAMINATION (NOT USED)

3.3 PREPARATION

- A. All trees identified to be protected and/or preserved shall be clearly flagged with survey tape.
- B. Following taping and prior to any removals or site clearing, the Contractor shall meet with the Owner, Engineer, and Landowner, if necessary, to confirm trees to be saved.

3.4 EXECUTION

A. Protection of Trees

- 1. Protect designated trees and prune trees and shrubs as shown on the Drawings. Refer to the Drawings for tree protection details.
- 2. If the Drawings do not provide tree protection details, protected trees shall be fenced by placing 6-foot tall metal T-posts in a square around the tree trunk with the corners located on the canopy drip line, unless instructed otherwise.
- 3. When site conditions do not allow for the T-posts to be installed at the drip line, the T-posts may be installed no less than 8 feet from the tree trunk. 4-foot high 12 ½ gauge stock fencing or orange plastic snow fence shall be attached to the T-posts to form the enclosure.
- 4. Do not park equipment, service equipment, store materials, or disturb the root area under the branches of trees designated for preservation.
- 5. When shown on the Drawings, treat cuts on trees with an approved tree wound dressing within 20 minutes of making a pruning cut or otherwise causing damage to the tree.
- 6. Trees and brush shall be removed from the site.
 - a. Burning as a method of disposal is not allowed.

B. Hazardous Materials

- 1. The Contractor will notify the Engineer immediately if any hazardous or questionable materials not shown on the Drawings are encountered.
- 2. The testing, removal, and disposal of hazardous materials will be in accordance with Division 1.

C. Site Clearing

1. Clear areas shown on the Drawings of all obstructions, except those landscape features that are to be preserved. Such obstructions include, but are not limited to:
 - a. Remains of buildings and other structures
 - b. Foundations
 - c. Floor slabs
 - d. Concrete
 - e. Brick
 - f. Lumber
 - g. Plaster
 - h. Septic tank drain fields
 - i. Abandoned utility pipes or conduits
 - j. Equipment
 - k. Trees
 - l. Fences
 - m. Retaining walls
 - n. Other items as specified on the Drawings
 2. Remove vegetation and other landscape features not designated for preservation, whether above or below ground.
 3. Remove culverts, storm sewers, manholes, and inlets in proper sequence to maintain traffic and drainage in accordance with Section
 4. In areas receiving embankment, remove obstructions not designated for preservation to 2 feet below natural ground.
 5. In areas to be excavated, remove obstructions to 2 feet below the excavation level.
 6. In all other areas, remove obstructions to 1 foot below natural ground.
 7. When allowed by the Drawings or directed by the Engineer, cut trees and stumps off to ground level.
 - a. Removal of existing structures shall be as per Section 02410.
- D. Disposal
1. Dispose of all trees within 24 hours of removal.
 2. All materials and debris removed becomes the property of the Contractor, unless otherwise stated on the Drawings.
 3. The Contractor will dispose of material and debris off-site in accordance with local, state, and federal laws and regulations.
- E. Topsoil Stripping and Stockpiling
1. Existing topsoil to be removed is defined as friable, clay loam, surface soil present in depth of at least four inches. Topsoil shall be free of subsoil, clay lumps, stones, and other objects over two-inch diameter and other objectionable material.
 2. Stripping:
 - a. Strip topsoil to depths encountered, in manner that prevents intermingling of topsoil with underlying subsoil or other objectionable material. Remove heavy growths of grass and vegetation from areas before stripping.
 - b. Do not strip topsoil from within drip line of each tree to remain as part of the completed Project.

3. Stockpile topsoil in storage stockpiles in areas shown, or where otherwise accepted by Engineer. Construct storage piles so that surface water drains freely. Stabilize large topsoil piles with a cover crop and mulch, and provide silt fencing around perimeter of pile to prevent topsoil erosion and sedimentation; silt fencing shall be in accordance with Section 31 25 00 – Erosion and Sediment Control. Cover smaller topsoil stockpiles, when used, with reinforced fabric to prevent windblown dust.

3.5 REPAIR (NOT USED)

3.6 RE-INSTALLATION (NOT USED)

3.7 FIELD QUALITY CONTROL (NOT USED)

3.8 SYSTEM STARTUP (NOT USED)

3.9 ADJUSTING (NOT USED)

3.10 CLEANING (NOT USED)

3.11 CLOSEOUT ACTIVITIES (NOT USED)

3.12 PROTECTION (NOT USED)

3.13 MAINTENANCE (NOT USED)

3.14 ATTACHMENTS (NOT USED)

END OF SECTION 02230

SECTION 02300
EARTHWORK

PART 1 – GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

- A. Section Includes:
 - 1. Preparing subgrades for slabs-on-grade, walks, pavements, turf and grasses, and plants.
 - 2. Excavating and backfilling for buildings and structures.
 - 3. Subbase course for concrete walks and pavements.
 - 4. Subbase course and base course for asphalt paving.
 - 5. Subsurface drainage backfill for walls and trenches.
 - 6. Excavating and backfilling trenches for utilities and pits for buried utility structures.
 - 7. Excavating well hole to accommodate elevator-cylinder assembly.
 - 8. Preparing and grading for synthetic playing field areas sub-grade.
- B. Related Sections:
 - 1. Section 02230 "Site Clearing" for site stripping, grubbing, stripping and stockpiling topsoil, and removal of above- and below-grade improvements and utilities.

1.3 UNIT PRICES

- A. Refer to Section 01270 "Unit Prices" for a list of Unit Prices for work in addition to the contract documents.

1.4 DEFINITIONS

- A. Backfill: Soil material or controlled low-strength material used to fill an excavation.
 - 1. Initial Backfill: Backfill placed beside and over pipe in a trench, including haunches to support sides of pipe.
 - 2. Final Backfill: Backfill placed over initial backfill to fill a trench.
- B. Base Course: Aggregate layer placed between the subbase course and hot-mix asphalt paving.
- C. Bedding Course: Aggregate layer placed over the excavated subgrade in a trench before laying pipe.
- D. Borrow Soil: Satisfactory soil imported from off-site for use as fill or backfill.
- E. Excavation: Removal of material encountered above subgrade elevations and to lines and dimensions indicated.
 - 1. Authorized Additional Excavation: Excavation below subgrade elevations or beyond indicated lines and dimensions as directed by Engineer. Authorized additional excavation and replacement material will be paid for according to Contract provisions for changes in the Work.

2. Bulk Excavation: Excavation more than 10 feet in width and more than 30 feet in length.

3. Unauthorized Excavation: Excavation below subgrade elevations or beyond indicated lines and dimensions without direction by Engineer. Unauthorized excavation, as well as remedial work directed by Engineer, shall be without additional compensation.

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

G. Structures: Buildings, footings, foundations, retaining walls, slabs, tanks, curbs, mechanical and electrical appurtenances, or other man-made stationary features constructed above or below the ground surface.

H. Subbase Course: Aggregate layer placed between the subgrade and base course for hot-mix asphalt pavement, or aggregate layer placed between the subgrade and a cement concrete pavement or a cement concrete or hot-mix asphalt walk.

I. Subgrade: Uppermost surface of an excavation or the top surface of a fill or backfill immediately below subbase, drainage fill, drainage course, or topsoil materials.

J. Utilities: On-site underground pipes, conduits, ducts, and cables, as well as underground services within buildings.

1.5 ACTION SUBMITTALS

A. Product Data: For each type of the following manufactured products required:

1. Geotextiles.
2. Controlled low-strength material, including design mixture.
3. Warning tapes.

B. Samples for Verification: For the following products, in sizes indicated below:

1. Geotextile: 12 by 12 inches.
2. Warning Tape: 12 inches long; of each color.

1.6 INFORMATIONAL SUBMITTALS

A. Qualification Data: For qualified testing agency.

B. Material Test Reports: For each on-site and borrow soil material proposed for fill and backfill as follows:

1. Classification according to ASTM D 2487.
2. Laboratory compaction curve according to ASTM D 698.

C. Preexcavation Photographs or Videotape: Show existing conditions of adjoining construction and site improvements, including finishing surfaces, that might be misconstrued as damage caused by earth moving operations. Submit before earth moving begins.

D. Quality assurance verification of the sub-grade prior to sub-base materials installation, should include the following:

1. Conformance Survey of Sub-Grade: The Contractor shall perform a conformance survey by a licensed surveyor, before any placements of the drainage stone, on a 25-foot grid over the sub-grade of the entire playing field. Owner's Representative will require three (3) working days to review survey. After review, the survey will be returned to Contractor with areas out of tolerance and certify that corrections have been made prior to base drainage stone.

2. Tolerance for Sub-Grade: Sub-grade shall be verified using laser-operation survey instruments. Subgrade must be within 1/4 of an inch plus or minus from the elevations shown on the plans. In addition, the sub-grade shall be measured so that no point within the 25-foot grid deviates more than 1/4 of an inch from any other point within the 25-foot grid.

1.7 QUALITY ASSURANCE

A. Preexcavation Conference: Conduct conference at Project site.

1.8 PROJECT CONDITIONS

A. Traffic: Minimize interference with adjoining roads, streets, walks, and other adjacent occupied or used facilities during earth moving operations.

1. Do not close or obstruct streets, walks, or other adjacent occupied or used facilities without permission from Owner and authorities having jurisdiction.

2. Provide alternate routes around closed or obstructed traffic ways if required by Owner or authorities having jurisdiction.

B. Utility Locator Service: Notify "One Call" for area where Project is located before beginning earth moving operations.

C. Do not commence earth moving operations until temporary erosion-and sedimentation-control measures, specified in Section 02230 "Site Clearing", are in place.

PART 2 – PRODUCTS

2.1 SOIL MATERIALS

A. General: Provide borrow soil materials when sufficient satisfactory soil materials are not available from excavations.

B. Satisfactory Soils: As defined within the geotechnical report.

C. Unsatisfactory Soils: As defined within the geotechnical report.

1. Unsatisfactory soils also include satisfactory soils not maintained within 2 percent of optimum moisture content at time of compaction.

D. Subbase Material: ALDOT Section 230 Modified Roadbed.

E. Base Course: ALDOT Section 825 Crushed Aggregate Base – Type A or B.

F. Structural Fill: As defined within the geotechnical report.

G. Bedding Course: Naturally or artificially graded mixture of natural or crushed gravel, crushed stone, and natural or crushed sand; ASTM D 2940; except with 100 percent passing a 1-inch sieve and not more than 8 percent passing a No. 200 sieve.

H. Filter Material: Narrowly graded mixture of natural or crushed gravel, or crushed stone and natural sand; ASTM D 448; coarse-aggregate grading Size 67; with 100 percent passing a 1-inch sieve and 0 to 5 percent passing a No. 4 sieve.

I. Sand: ASTM C 33; fine aggregate.

J. Impervious Fill: Clayey gravel and sand mixture capable or compacting to a dense state.

2.2 GEOTEXTILES

A. Subsurface Drainage Geotextile: Nonwoven needle-punched geotextile, manufactured for subsurface drainage applications, made from polyolefins or polyesters; with elongation greater than 50 percent; complying with AASHTO M 288 and the following, measured per test methods referenced:

1. Survivability: Class 2; AASHTO M 288.
2. Grab Tensile Strength: 157 lbf; ASTM D 4632.
3. Sewn Seam Strength: 142 lbf; ASTM D 4632.
4. Tear Strength: 54 lbf; ASTM D 4533.
5. Puncture Strength: 56 lbf; ASTM D 4833.
6. Apparent Opening Size: No. 60 sieve, maximum; ASTM D 4751.
7. Permittivity: 0.2 per second, minimum; ASTM D 4491.
8. UV Stability: 50 percent after 500 hours' exposure; ASTM D 4355.

B. Separation Geotextile: Woven geotextile fabric, manufactured for separation applications, made from polyolefins or polyesters; with elongation less than 50 percent; complying with AASHTO M 288 and the following, measured per test methods referenced:

1. Survivability: Class 2; AASHTO M 288.
2. Grab Tensile Strength: 247 lbf; ASTM D 4632.
3. Sewn Seam Strength: 222 lbf; ASTM D 4632.
4. Tear Strength: 90 lbf; ASTM D 4533.
5. Puncture Strength: 90 lbf; ASTM D 4833.
6. Apparent Opening Size: No. 60 sieve, maximum; ASTM D 4751.
7. Permittivity: 0.2 per second, minimum; ASTM D 4491.
8. UV Stability: 50 percent after 500 hours' exposure; ASTM D 4355.

2.3 CONTROLLED LOW-STRENGTH MATERIAL

A. Controlled Low-Strength Material: Self-compacting, flowable concrete material produced from the following:

1. Portland Cement: ASTM C 150, Type I.
 2. Fly Ash: ASTM C 618, Class C or F.
 3. Normal-Weight Aggregate: ASTM C 33, 3/4-inch nominal maximum aggregate size.
 4. Water: ASTM C 94.
 5. Air-Entraining Admixture: ASTM C 260.
- B. Produce conventional-weight, controlled low-strength material with 80-psi compressive strength when tested according to ASTM C 495.
- 2.4 GEOFOAM (Not Used)
- 2.5 ACCESSORIES
- A. Detectable Warning Tape: Acid- and alkali-resistant, polyethylene film warning tape manufactured for marking and identifying underground utilities, a minimum of 6 inches wide and 4 mils thick, continuously inscribed with a description of the utility, with metallic core encased in a protective jacket for corrosion protection, detectable by metal detector when tape is buried up to 30 inches deep; colored as follows:
1. Red: Electric.
 2. Yellow: Gas, oil, steam, and dangerous materials.
 3. Orange: Telephone and other communications.
 4. Blue: Water systems.
 5. Green: Sewer systems.

PART 3 – EXECUTION

3.1 PREPARATION

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

3.2 DEWATERING

- A. Prevent surface water and ground water from entering excavations, from ponding on prepared subgrades, and from flooding Project site and surrounding area.
- B. Protect subgrades from softening, undermining, washout, and damage by rain or water accumulation.
 1. Reroute surface water runoff away from excavated areas. Do not allow water to accumulate in excavations. Do not use excavated trenches as temporary drainage ditches.

3.3 EXPLOSIVES

- A. Explosives: Do not use explosives.

3.4 EXCAVATION, GENERAL

A. Unclassified Excavation: Excavate to subgrade elevations regardless of the character of surface and subsurface conditions encountered. Unclassified excavated materials may include rock, soil materials, and obstructions. No changes in the Contract Sum or the Contract Time will be authorized for rock excavation or removal of obstructions.

3.5 EXCAVATION FOR PLAYING FIELDS

A. Excavate to elevations and dimensions indicated within a tolerance of plus or minus 1/4 inch over 25 feet. Do not disturb bottom of excavations intended for bearing surface. Grades shall be uniformly sloped as indicated on the plans. A conformance survey will be required prior to acceptance and further work being authorized to proceed.

3.6 EXCAVATION FOR STRUCTURES

- A. Excavate to indicated elevations and dimensions within a tolerance of plus or minus 1 inch. If applicable, extend excavations a sufficient distance from structures for placing and removing concrete formwork, for installing services and other construction, and for inspection.
 - 1. Excavation for Underground Tanks, Basins, and Mechanical or Electrical Utility Structures: Excavate to elevations and dimensions indicated within a tolerance of plus or minus 1 inch. Do not disturb bottom of excavations intended as bearing surfaces.

3.7 EXCAVATION FOR WALKS AND PAVEMENTS

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

3.8 EXCAVATION FOR UTILITY TRENCHES

- A. Excavate trenches to indicated gradients, lines, depths, and elevations.
 - 1. Beyond building perimeter, excavate trenches to allow installation of top of pipe below frost line.
- B. Excavate trenches to uniform widths to provide the following clearance on each side of pipe or conduit. Excavate trench walls vertically from trench bottom to 12 inches higher than top of pipe or conduit unless otherwise indicated.
 - 1. Clearance: As indicated.
- C. Trench Bottoms: Excavate trenches 6 inches deeper than bottom of pipe and conduit elevations to allow for bedding course. Hand-excavate deeper for bells of pipe.
 - 1. Excavate trenches deeper per geotechnical engineer's recommendation in areas of rock or other unyielding bearing material to all for bedding course.

3.9 EXCAVATION FOR ELEVATOR CYLINDER (Not Used)

3.10 SUBGRADE INSPECTION

- A. Notify Engineer when excavations have reached required subgrade.

- B. If Engineer determines that unsatisfactory soil is present, continue excavation and replace with compacted backfill or fill material as directed.
- C. Proof-roll subgrade below pavements with a pneumatic-tired and loaded 10-wheel, tandem-axle dump truck weighing not less than 15 tons to identify soft pockets and areas of excess yielding. Do not proof-roll wet or saturated subgrades.
 - 1. Completely proof-roll subgrade in one direction, repeating proof-rolling in direction perpendicular in first direction. Limit vehicle speed to 3 mph.
 - 2. Excavate soft spots, unsatisfactory soils, and areas of excessive pumping or rutting, as determined by Engineer, and replace with compacted backfill or fill as directed.
- D. Refer to Section 334600 Synthetic Turf Base Construction for additional requirements for approval of sub-grade.
- E. Authorized additional excavation and replacement material will be paid for according to Contract provisions for changes in the Work.
- F. Reconstruct subgrades damaged by freezing temperatures, frost, rain, accumulated water, or construction activities, as directed by Engineer, without additional compensation.

3.11 UNAUTHORIZED EXCAVATION

- A. Fill unauthorized excavation under foundations or wall footings by extending bottom elevation of concrete foundation or footing to excavation bottom, without altering top elevation. Lean concrete fill, with 28-day compressive strength of 1500 psi, may be used when approved by Engineer.
 - 1. Fill unauthorized excavations under other construction, pipe, or conduit as directed by Engineer.

3.12 STORAGE OF SOIL MATERIALS

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

3.13 BACKFILL

- A. Place and compact backfill in excavation promptly, but not before completing the following:
 - 1. Construction below finish grade including, where applicable, subdrainage, dampproofing, waterproofing, and perimeter insulation.
 - 2. Surveying locations of underground utilities for Record Documents.
 - 3. Testing and inspecting underground utilities.
 - 4. Removing concrete formwork.
 - 5. Removing trash and debris.

6. Removing temporary shoring and bracing and sheeting.
7. Installing permanent or temporary horizontal bracing on horizontally supported walls.

B. Place backfill on subgrades free of mud, frost, snow, or ice.

3.14 UTILITY TRENCH BACKFILL

A. Place backfill on subgrades free of mud, frost, snow, or ice.

B. Place and compact bedding course on trench bottoms and where indicated. Shape bedding course to provide continuous support for bells, joints, and barrels of pipes and for joints, fittings, and bodies of conduits.

C. Trenches under Footings: Backfill trenches excavated under footings and within 18 inches of bottom of footings with structural fill; fill with concrete to elevation of bottom of footings. Concrete is specified in Section 03300 "Cast-in-Place Concrete".

D. Backfill voids with structural soil while removing shoring and bracing.

E. Place and compact initial backfill of structural fill, free of particles larger than 1 inch in any dimension, to a height of 12 inches over the pipe or conduit.

1. Carefully compact initial backfill under pipe haunches and compact evenly up on both sides along the full length of piping or conduit to avoid damage or displacement of piping or conduit. Coordinate backfilling with utilities testing.

F. Place and compact final backfill of structural fill to final subgrade elevation.

G. Install warning tape directly above utilities; 12 inches below finished grade, except 6 inches below subgrade under pavements and slabs.

3.15 SOIL FILL

A. Plow, scarify, bench, or break up sloped surfaces steeper than 1 vertical to 4 horizontal so fill material will bond with existing material.

B. Place and compact fill material in layers to required elevations as follows:

1. Under grass and planted areas, use satisfactory soil material.
2. Under walks and pavements, use structural fill.
3. Utility Trenches under pavements or buildings, use structural fill.

C. Place soil fill on subgrades free of mud, frost, snow, or ice.

3.16 GEOFOAM FILL (Not Used)

3.17 SOIL MOISTURE CONTROL

A. Uniformly moisten or aerate subgrade and each subsequent fill or backfill soil layer before compaction to within 2 percent of optimum moisture content.

1. Do not place backfill or fill soil material on surfaces that are muddy, frozen, or contain frost or ice.

2. Remove and replace, or scarify and air dry, otherwise satisfactory soil material that exceeds optimum moisture content by 2 percent and is too wet to compact to specified dry unit weight.

3.18 COMPACTION OF SOIL BACKFILLS AND FILLS

- A. Place backfill and fill soil materials in layers not more than 10 inches in loose depth for material compacted by heavy compaction equipment, and not more than 6 inches in loose depth for material compacted by hand-operated tampers.
- B. Place backfill and fill soil materials evenly on all sides of structures to required elevations, and uniformly along the full length of each structure.
- C. Compact soil materials to not less than the following percentages of the Modified Proctor maximum dry density according to ASTM D 1557:
 1. Under structures and pavements: 95 percent. The top 12 inches of fill beneath the building pad and flexible pavement areas should be compacted to 98 percent.
 2. Under turf or unpaved areas, scarify and recompact top 6 inches below subgrade and compact each layer of backfill or fill material at 85 percent.
 3. For utility trenches, compact each layer of initial and final backfill soil material at 95 percent. Beneath pavement areas, the top 12 inches of backfill should be compacted to at least 98 percent.
 4. Under Synthetic Playing Field areas: compact the top 6 inches below sub-grade and each layer of backfill or fill material at 95 percent maximum dry density OR as set forth by the Synthetic Turf Surface manufacturer.

3.19 GRADING

- A. General: Uniformly grade areas to a smooth surface, free of irregular surface changes. Comply with compaction requirements and grade to cross sections, lines, and elevations indicated.
 1. Provide a smooth transition between adjacent existing grades and new grades.
 2. Cut off soft spots, fill low spots, and trim high spots to comply with required surface tolerances.
- B. Site Rough Grading: Slope grades to direct water away from buildings and to prevent ponding. Finish subgrades to required elevations within the following tolerances:
 1. Turf or Unpaved Areas: Plus or minus 1 inch.
 2. Walks: Plus or minus 1 inch.
 3. Pavements: Plus or minus 1/2 inch.

3.20 SUBSURFACE DRAINAGE

- A. Subdrainage Pipe: Specified in Section 02630 "Storm Drainage".
- B. Subsurface Drain: Place subsurface drainage geotextile around perimeter of subdrainage trench. Place a 4-inch (100-mm) course of filter material on subsurface drainage geotextile to support subdrainage pipe. Encase subdrainage pipe in a minimum of 14 inches (350 mm) of filter material, placed in compacted layers 6 inches (150 mm) thick,

and wrap in subsurface drainage geotextile, overlapping sides and ends at least 6 inches (150 mm).

1. Compact each filter material layer with a minimum of two passes of a plate-type vibratory compactor.

3.21 SUBBASE AND BASE COURSES UNDER PAVEMENTS AND WALKS

- A. Place subbase course and base course on subgrades free of mud, frost, snow, or ice.
- B. On prepared subgrade, place subbase course and base course under pavements and walks as follows:
 1. Place base course material over subbase course under hot-mix asphalt pavement.
 2. Shape subbase course and base course to required crown elevations and cross-slope grades.
 3. Place subbase course and base course 6 inches or less in compacted thickness in a single layer.
 4. Place subbase course and base course that exceeds 6 inches in compacted thickness in layers of equal thickness, with no compacted layer more than 6 inches thick or less than 3 inches thick.
 5. Compact subbase course and base course at optimum moisture context to required grades, lines, cross sections, and thickness to not less than 98 and 100 percent of maximum dry unit weight according to ASTM D 698 respectfully.

3.22 DRAINAGE COURSE UNDER CONCRETE SLABS-ON-GRADE (Not Used)

3.23 FIELD QUALITY CONTROL

- A. Testing Agency: Contractor will engage a qualified geotechnical engineering testing agency to perform tests and inspections.
- B. Allow testing agency to inspect and test subgrades and each fill or backfill layer. Proceed with subsequent earth moving only after test results for previously completed work comply with requirements.
- C. Testing agency will test compaction of soils in place according to ASTM D 1556, ASTM D 2167, ASTM D 2922, and ASTM D 2937, as applicable. Tests will be performed at the following locations and frequencies:
 1. Pavement Areas: One density test every 500 linear feet per lift for roadway sections or 10,000 square feet per lift for parking lots or two tests per lift, whichever is greater.
 2. Trench Backfill: One density test every 75 linear feet per lift or two tests per lift, whichever is greater.
 3. Synthetic Playing Field Areas: At sub-grade and at each compacted fill and backfill layer, perform at least one field in-place density test for every 10,000 square feet or less of playing field, but in no case fewer than three tests, per layer and per day of fill/backfill placement.

- D. When testing agency reports that subgrades, fills, or backfills have not achieved degree of compaction specified, scarify and moisten or aerate, or remove and replace soil materials to depth required; recompact and retest until specified compaction is obtained.

3.24 PROTECTION

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

3.25 DISPOSAL OF SURPLUS AND WASTE MATERIAL

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

END OF SECTION 02300

SECTION 02462
PICKLEBALL COURT SURFACING

PART 1 - GENERAL

1.1 DESCRIPTION

A. Provide pickleball court surfaces as shown and specified. The work includes:

1. Pickleball courts surfaces.

B. Related work:

1. Section 02200: Earthwork

2. Section 02513: Asphaltic Concrete Paving

1.2 QUALITY ASSURANCE

A. Comply with Section 02000 requirements.

B. Bidder qualifications:

1. Must have ten (10) years minimum experience in court construction and re-surfacing.

2. Must have completed a minimum of fifteen (15) major court projects within the past five (5) years with multiple courts.

C. Materials and methods of construction shall comply with the following standards:

1. U.S. Tennis Court and Track Builders Association, (USTCTBA).

2. The United States Lawn Tennis Association, (USLTA).

3. National Collegiate Athletic Association, (NCAA), applicable standards.

1.3 SUBMITTALS

A. Submit manufacturer's product data for each type of coating or equipment required, including finish indicated.

1.4 DELIVERY, STORAGE AND HANDLING

A. Deliver manufactured products in manufacturer's original, unopened, and undamaged containers with labels intact and legible.

B. Store and handle manufactured products to prevent damage and deterioration.

C. Materials specified for the Color System shall be delivered F.O.B. to the site in sealed, painted containers, properly labeled with Manufacturer's labels, and stenciled with the proper batch code number. Products packaged or labeled in any other manner will not be accepted. Mixing with clean fresh water shall only be done at the job site. Spreading rates are based upon material prior to mixing with water as directed. Upon completion, the Contractor shall remove all containers, surplus, materials and debris, and leave the site in a clean and orderly condition acceptable to the Owner.

1.5 PROJECT CONDITIONS

A. Do not begin final surface work before completion of final asphalt surface including

curing.

- B. Do not install surface coatings and colorings if rainfall is imminent or when temperature is 50 degrees F. or below. Do not apply to wet base surface.

PART 2 - PRODUCTS

2.1 PICKLEBALL COURTS

- A. Surface manufacturer and type: "Acrytech" Surfacing System. Or approved equal.
 - 1. Court color: To be approved by Owner from standard colors.
 - 2. Border color: To be approved by Owner from standard colors.
 - 3. Court Patch Binder: High strength acrylic latex bonding liquid designed for mixing with silica sand and Portland cement.
 - 4. Acrylic Resurfacer: Asbestos free, 100% acrylic latex binder for job mixing with silica sand for filler coat to reduce surface porosity.
 - 5. Color Concentrate
 - 6. Acrylic Finish Coat: Pigmented acrylic emulsion.
 - 7. Line Paint: White line paint, 100% acrylic latex.
 - 8. Water: The water used in all mixtures shall be fresh and potable.
 - 9. Silica sand: Clean, dry, and free of dust. No. 80 mesh rounded silica sand.

PART 3 - EXECUTION

3.1 INSPECTION

- A. Examine base asphalt conditions. Allow minimum 2 weeks curing on asphalt. Flood courts and mark depressions. Do not start surface application until unsatisfactory conditions are corrected. Maximum surface variation in base asphalt shall not exceed 1/4 inch in 10 feet.
- B. Prior to the asphalt installation, 2'x2'x3' foundations are excavated for the net posts. A 3" ID schedule 40 PVC sleeve is embedded in 300psi concrete in the net post foundations. An American Center Anchor is installed in a 1'x1'x1' concrete foundation. The following equipment is then installed : 2 7/8" Putterman internal wind net posts, American 3.0 nets, American Center Straps, and American Center Anchors.

3.2 PREPARATION

- A. After base asphalt has thoroughly cured, sweep and blow all debris, sand, dirt, etc. Surface must also be dry. Thoroughly clean and pressure wash the units utilizing a pressure washer with at least 3500 psi.
- B. All seams, rollermarks, etc. should be patched and leveled with Acrylic Resurfacer as described.
- C. Material mixing areas will be located away from concrete walks. Walk areas used for court access shall be covered to protect from staining. Stained walks will be removed and replaced at contractor's expense.

3.3 SURFACE PREPARATION

- A. Prior to the application of surfacing materials, the entire surface should be checked for minor depressions or irregularities. After the courts have been flooded, any depressions covering a nickel shall be corrected by the following method. Depressions and irregularities shall be filled with Court Patch Binder according to specifications using the following mix:
1. 100 lbs 60-80 mesh silica sand (dry)
 2. 2 gallons of Portland Cement and add Binder mixed until designed consistency is achieved

After patching, the surface shall not vary more than 1/8" in ten feet measured in any direction.

3.4 FINISHED COURSE PREPARATION

- A. Over the Asphaltic Surface Course, apply two (2) coats of Acrytech Acrylic Resurfacer in accordance with the manufacturer's directions at a rate of not less than .04-.06 gallons per square yard (32-48 gallons for 800 square yards). Dilution rate will not exceed 1 part water, 2 parts concentrate.
- B. The third coat should be Acrytech Color Concentrate in accordance with the manufacturer's directions at a rate of not less than .03-.06 gallons per square yard (24-48 gallons for 800 square yards). Dilution for this texture coat shall be 2 parts concentrate, 1 part water, and one part sand. (Color: light green/dark green)
- C. The final Finish Coat of Acrytech shall be applied as directed by the manufacturer at a rate of not less than .03-.06 gallons per square yard (24-48 gallons for 800 square yards). Dilution for this texture coat shall be 2 parts concentrate, 1 part water, and one part sand. (Color: light green/dark green)

3.5 PLAYING LINES

- A. Four hours minimum after completion of the color resurfacing, 4-inch wide playing lines, minimum 2 coats, shall be accurately located, marked, and painted with Tectured Acrylic Line Paint as specified by American Sports Builders Association

3.6 WEATHER LIMITATIONS

- A. No parts of the construction involving the Acrytech System conducted during rainfall or when rainfall is imminent. The air temperature must be at least 50 degrees F and rising.

3.7 GUARANTEE

- A. The Contractor shall guarantee labor, materials, and workmanship for a period of one (1) year from the date of the final billing. Anytime during the time period, the Contractor shall make necessary repairs to the surface without cost to the Customer.

3.8 CLEANING

- A. Upon completion, the contractor shall remove all containers, surplus materials and debris and leave the site in a clean and orderly condition acceptable to the owner.

Medal of Honor Park
PR-001-23

Gates shall be secured. Repair any damage resulting from surfacing.

END OF SECTION 02462

SECTION 02513
ASPHALTIC CONCRETE PAVING

PART 1 - GENERAL

1.1 DESCRIPTION

A. Provide Asphaltic concrete paving as shown and specified. The work includes:

1. Final subgrade preparation and paving base.
2. Pickleball court paving.

B. Related work:

1. Section 02300: Earthwork
2. Section 02751: Cement Concrete Pavement
3. Section 02462: Pickleball Court Surfacing

1.2 QUALITY ASSURANCE

A. Comply with Section 02000 requirements.

B. Testing and inspection: Performed by a qualified independent testing laboratory.

C. City to provide and pay for testing and inspection during paving operations. Laboratory and inspection service shall be acceptable to the Landscape Architect.

D. Materials and methods of construction shall comply with the following standards:

1. Alabama State Highway Department Standard Specifications for Highways and Bridges, latest edition.
2. American Society for Testing and Materials, (ASTM).
3. American Association of State Highway and Transportation Officials, (AASHTO).
4. Asphalt Institute, (AI)
5. National Crushed Stone Association, (NCSA).
6. International Slurry Seal Association, (ISSA).

E. Provide material furnished by a bulk asphaltic concrete producer regularly engaged in the production of hot-mix, lot-laid asphaltic concrete paving materials.

F. Tolerances:

1. In-place compacted thickness:
 - a. Base Course: Plus or minus $\frac{1}{2}$ in.
 - b. Surface course: Maximum $\frac{1}{4}$ " plus, minus 0".
2. Finished surface smoothness:
 - a. Surface course: Maximum $\frac{1}{8}$ " in 10'-0", any direction.
 - b. Base Course: $\frac{1}{4}$ " in.

1.3 SUBMITTALS

- A. Product data:
 - 1. Submit mix design on asphalt for approval.
 - 2. Submit herbicide product data.
- B. Submit reports for testing and inspection of the following:
 - 1. Subgrade surfaces.
 - 2. Base materials.
 - 3. Surface materials.
 - 4. Compaction operations.

1.4 DELIVERY, STORAGE AND HANDLING

- A. Deliver manufactured products in manufacturer's original, unopened, and undamaged containers with labels intact and legible.
- B. Store and handle manufactured products to prevent damage and deterioration.

1.5 PROJECT CONDITIONS

- A. Weather limitations:
 - 1. Do not install base course materials over wet or frozen subgrade surfaces.
 - 2. Do not apply prime and tack coat materials when temperature is 50 degrees F or below. Do not apply to wet base surface.
- B. Grade control: Establish and maintain the required lines and grades, including crown, inverted crown, and cross-slopes, for each course during paving operations.
- C. Provide temporary barricades and warning lights as required for protection of project work and public safety.
- D. Protect adjacent work from damage, soiling, and staining during paving operations.

PART 2 - PRODUCTS

2.1 MATERIALS

- A. Subgrade fill: In accordance with Section 02300: Earthwork.
- B. Aggregate base surface courts: In accordance with Section 02300: Earthwork.
 - 1. 6" crushed aggregate Base Course (ALDOT Section 825B) compacted to 100% standard Density.
- C. Soiler sterilizer: Granular weed growth inhibiting type herbicide, labeled for use under asphaltic concrete pavement surfaces. Material shall not damage trees and plants adjacent to pavement surfaces.

- D. Asphalt: Conform to Alabama Highway Department specification Section 429A Hot Bituminous Pavement and 429B Bituminous Binder. All aggregates, fine (sand type) and course shall be crushed stone (limestone) free of gravel, sand, and iron pyrites and conforming to Section 801.03. Submit mix design for approval.
- E. Pickleball court surface: See Section 02462 for pickleball court surfacing.
- F. Paving Geotextile: Nonwoven polypropylene, specifically designed for paving applications, resistant to chemical attack and mildew.

2.2 EQUIPMENT

- A. Paving equipment: Spreading, self-propelled asphalt paving machines capable of maintaining line, grade, and thickness shown.
- B. Compacting equipment: Self-propelled rollers, minimum 10-ton weight.
- C. Hand tools: Rakes, shovels, tampers, and other miscellaneous equipment required to complete the work.

PART 3 - EXECUTION

3.1 INSPECTION

- A. Examine subgrades and installation conditions. Do not start asphaltic concrete paving work until unsatisfactory conditions are corrected.

3.2 INSTALLATION: GENERAL

- A. Comply with Asphaltic Institute (AI) MS-3 Asphalt Plant Manual for material storage, control and mixing, and for plant equipment and operation.
- B. Transport asphaltic concrete mixtures from the mixing plant to the project site in trucks with tight, clean compartments.

3.3 INSTALLATION: SURFACE MATERIALS

- A. Remove loose and foreign material from compacted base immediately before application of surface materials. Do not start surface work until all other work which may damage the finish surface is completed.
- B. Apply herbicide at manufacturer's recommended rates.
- C. Place paving geotextile promptly according to manufacturer's written instructions. Broom or roll geotextile smooth and free of wrinkles and folds. Overlap longitudinal joints 4 inches and transverse joints 6 inches.
 - 1. Protect paving geotextile from traffic and other damage and place overlay paving the same day.

- D. Install asphaltic material in one course, total compacted depth of not less than 2.5". Apply in a north/south direction.
- E. Place materials in strips not less than 10'-0" wide. After the first strip has been placed and rolled, place all succeeding strips and extend rolling to overlap previous strips.
- F. Carefully make joints between old and new pavements, and between successive day's work, to ensure a continuous bond between adjoining work. Construct joints to have the same texture, density, and smoothness as other sections of the asphalt concrete course.
- G. Begin rolling operations when the asphalt concrete mixture will bear the weight of the roller without excessive displacement.
- H. Perform breakdown, second and finish rolling until the asphalt concrete mixture has been compacted to the required surface density and smoothness. Continue rolling until all roller marks are eliminated. Provide a smooth compacted surface true to thickness and elevations required.
- I. After final rolling, do not permit vehicular traffic on to the pavement.
- J. Protect newly placed material from traffic by barricades or other suitable methods acceptable to the Landscape Architect.

3.4 FIELD QUALITY CONTROL

- A. Provide field quality control testing and inspection during asphaltic concrete paving operations.
- B. Contractor shall provide adequate notice, cooperate with, provide access to the work, obtain samples, and assist Test Agency and their representatives in execution of their function.
- C. Before constructing base course, field verify subgrade surfaces are adequate and meet or exceed design bearing values.
- D. Coordinate laboratory tests on asphalt pavement mixes to determine compliance with specified requirements.
- E. Coordinate tests for aggregate base for each course for each day's work.
- F. Test in-place asphalt base course and surface courses for compliance with density and thickness. Take not less than 4" diameter pavement specimens of each completed course. Repair test specimen holes to match adjacent work.
 - 1. Average density of in-place material: Equal to or greater than 97%, with no individual determination less than 95% of average density of laboratory specimens.
 - 2. Perform 1 test for density for each course for each day's work.
 - 3. Thickness: Make 1 test (minimum) for each 2,500 sq. ft. of each type of paving.
- G. Test for surface smoothness with 10'-0" straight-edge. Deficient areas shall be

defined, removed, and replaced, or adjusted to design thickness by methods acceptable to the Landscape Architect.

- H. When, during progress of work, field tests indicate that installed compacted materials do not meet specified requirements, remove defective materials, install new materials, and retest at contractor's expense, as directed by the Landscape Architect.

3.5 PROTECTION

- A. Protect paving from damage due to construction and vehicular traffic until final acceptance.

3.6 CLEANING

- A. Perform cleaning during installation of the work and upon completion of the work. Remove from site all excess materials, debris, and equipment. Repair damage resulting from paving operations.

END OF SECTION 02513

SECTION 02751
CEMENT CONCRETE PAVEMENT

PART 1 – GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

A. Section Includes:

- 1. Curbs and gutters.
- 2. Walks.

B. Related Sections:

- 1. Section 02764 "Pavement Joint Sealants" for joint sealants in expansion and contraction joints within concrete paving and in joints between concrete paving and asphalt paving or adjacent construction.

1.3 DEFINITIONS

- A. Cementitious Materials: Portland cement alone or in combination with one or more of blended hydraulic cement, fly ash and other pozzolans, and ground granulated blast-furnace slag.

1.4 ACTION SUBMITTALS

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

B. Other Action Submittals:

- 1. Design Mixtures: For each concrete paving mixture. Include alternate design mixtures when characteristics of materials, Project conditions, weather, test results, or other circumstances warrant adjustments.

1.5 INFORMATIONAL SUBMITTALS

- A. Qualification Data: For qualified ready-mix concrete manufacturer.

B. Material Certificates: For the following, from manufacturer:

- 1. Cementitious materials.
- 2. Steel reinforcement and reinforcement accessories.
- 3. Admixtures.
- 4. Curing compounds.
- 5. Applied finish materials.
- 6. Epoxy adhesive.
- 7. Joint fillers.

C. Material Test Reports: For each of the following:

- 1. Aggregates. Include service-record data indicating absence of deleterious expansion of concrete due to alkali-aggregate reactivity.

D. Field quality-control reports.

1.6 QUALITY ASSURANCE

- A. Ready-Mix-Concrete Manufacturer Qualifications: A firm experienced in manufacturing ready-mixed concrete products and that complies with ASTM C 94 requirements for production facilities and equipment.
- B. ACI Publications: Comply with ACI 301 unless otherwise indicated.
- C. Preinstallation Conference: Conduct conference at Project site.
 - 1. Review methods and procedures related to concrete paving, including but not limited to, the following:
 - a. Concrete mixture design.
 - b. Quality control of concrete materials and concrete paving construction practices.
 - 2. Require representatives of each entity directly concerned with concrete paving to attend, including the following:
 - a. Contractor's superintendent.
 - b. Independent testing agency responsible for concrete design mixtures.
 - c. Concrete paving subcontractor.

1.7 PROJECT CONDITIONS

- A. Traffic Control: Maintain access for vehicular and pedestrian traffic as required for other construction activities.

PART 2 – PRODUCTS

2.1 FORMS

- A. Form Materials: Plywood, metal, metal-framed plywood, or other approved panel-type materials to provide full-depth, continuous, straight, and smooth exposed surfaces.
 - 1. Use flexible or uniformly curved forms for curves with a radius of 100 feet or less. Do not use notched and bent forms.
- B. Form-Release Agent: Commercially formulated form-release agent that will not bond with, stain, or adversely affect concrete surfaces and that will not impair subsequent treatments of concrete surfaces.

2.2 STEEL REINFORCEMENT

- A. Plain-Steel Welded Wire Reinforcement: ASTM A 185, fabricated from steel wire into flat sheets.
- B. Reinforcing Bars: ASTM A 615, Grade 60; deformed.
- C. Joint Dowel Bars: ASTM A 615, Grade 60 plain-steel bars. Cut bars true to length with ends square and free of burrs.
- D. Tie Bars: ASTM A 615, Grade 60, deformed.

E. Bar Supports: Bolsters, chairs, spacers, and other devices for spacing, supporting, and fastening reinforcing bars, welded wire reinforcement, and dowels in place. Manufacture bar supports according to CRSI's "Manual of Standard Practice" from steel wire, plastic, or precast concrete of greater compressive strength than concrete specified, and as follows:

1. Equip wire bar supports with sand plates or horizontal runners where base material will not support chair legs.

2.3 CONCRETE MATERIALS

A. Cementitious Material: Use the following cementitious materials, of same type, brand, and source throughout Project.

1. Portland Cement: ASTM C 150, gray Portland cement Type 1. Supplement with the following:

- a. Fly Ash: ASTM C 618, Class C or Class F.

B. Normal-Weight Aggregates: ASTM C 33, Class 4S, uniformly graded. Provide aggregates from a single source.

1. Maximum Coarse-Aggregate Size: 3/4 inch nominal.
2. Fine Aggregate: Free of materials with deleterious reactivity to alkali in cement.

C. Water: Potable and complying with ASTM C 94.

D. Air-Entraining Admixture: ASTM C 260.

E. Chemical Admixtures: Admixtures certified by manufacturer to be compatible with other admixtures and to contain not more than 0.1 percent water-soluble chloride ions by mass of cementitious material.

1. Water-Reducing Admixture: ASTM C 494, Type A.

2.4 FIBER REINFORCEMENT

A. Synthetic Fiber: Monofilament or fibrillated polypropylene fibers engineered and designed for use in concrete paving, complying with ASCTM C 1116/C 1116M, Type III, 1/2 to 1-1/2 inches (13 to 38 mm) long.

2.5 CURING MATERIALS

A. Absorptive Cover: AASHTO M 182, Class 3, burlap cloth made from jute or kenaf, weighing approximately 9 oz./sq. yd. dry.

B. Moisture-Retaining Cover: ASTM C 171, polyethylene film or white burlap-polyethylene sheet.

C. Water: Potable.

D. Evaporation Retarder: Waterborne, monomolecular, film forming, manufactured for application to fresh concrete.

E. Clear, Waterborne, Membrane-Forming Curing Compound: ASTM C 309, Type 1, Class B, dissipating.

1. Products: Subject to compliance with requirements, available products that may be incorporated into the Work include, but are not limited to, the following:
 - a. Anti-Hydro International, Inc: A-H Curing Compound #2 DR WB.
 - b. ChemMasters: Safe-Cure Clear.
 - c. Conspec by Dayton Superior: [D.O.T. Resin Care] [DSSCC Clear Resin Cure].
 - d. Dayton Superior Corporation: Day-Chem Rez Cure (J-11-W).
 - e. Edoco by Dayton Superior: [DSSCC Clear Resin Cure] [Resin Emulsion Cure V.O.C. (Type I)].
 - f. Euclid Chemical Company (The): an RPM company; Kurez W VOX.
 - g. Kaufman Products, Inc: Thinfilm 420.
 - h. Lambert Corporation: AWUA KURE – CLEAR.
 - i. L&M Construction Chemicals, Inc: L&M CURE R.
 - j. Meadows, W.R., Inc.: 1100-CLEAR SERIES.
 - k. Nox-Crete Products Group: Resin Cure E.
 - l. SpecChem, LLC: PaveCure Rez.
 - m. Symons by Dayton Superior: Resi-Chem Clear.
 - n. Tamms Industries, Inc, Euclid Chemical Company (The): TAMMSCURE WB 30C.
 - o. TK Products: Division of Sierra Corporation; [TK-2519 WB] [TK-2519 DC WB].
 - p. Vexcon Chemicals, Inc: Certi-Vex Enviocure 100.

2.6 RELATED MATERIALS

- A. Joint Fillers: ASTM D 1751, asphalt-saturated cellulosic fiber or ASTM D 1752, cork or self-expanding cork in preformed strips.
- B. Epoxy Bonding Adhesive: ASTM C 881, two-component epoxy resin capable of humid curing and bonding to damp surfaces; of class suitable for application temperature, of grade complying with requirements, and of the following types:
 1. Types IV and V, load bearing, for bonding hardened or freshly mixed concrete to hardened concrete.

2.7 CONCRETE MIXTURES

- A. Prepare design mixtures, proportioned according to ACI 301, for each type and strength of normal-weight concrete, and as determined by either laboratory trial mixtures or field experience.
 1. Use a qualified independent testing agency for preparing and reporting proposed concrete design mixtures for the trial batch method.
 2. When automatic machine placement is used, determine design mixtures and obtain laboratory test results that meet or exceed requirements.
- B. Proportion mixtures to provide normal-weight concrete with the following properties:
 1. Compressive Strength (28 Days): Curbs and Sidewalks – 3000 psi.
 2. Maximum Water-Cementitious Materials Ratio at Point of Placement: 0.45.

3. Slump Limit: General Use – 4 inches, Curbs and Sidewalks – 2 inches. Tolerance of plus or minus 1 inch.
- C. Add air-entraining admixture at manufacturer's prescribed rate to result in normal-weight concrete at point of placement having an air content as follows:
 1. Air Content: 3-1/2 percent plus or minus 1.5 percent for 3/4-inch nominal maximum aggregate size.
 - D. Limit water-soluble, chloride-ion content in hardened concrete to 0.15 percent by weight of cement.
 - E. Chemical Admixtures: Use admixtures according to manufacturer's written instructions.
- ## 2.8 CONCRETE MIXING
- A. Ready-Mixed Concrete: Measure, batch, and mix concrete materials and concrete according to ASTM C 94. Furnish batch certificates for each batch discharged and used in the Work.
 1. When air temperature is between 85 and 90 deg F, reduce mixing and delivery time from 1-1/2 hours to 75 minutes; when air temperature is above 90 deg F, reduce mixing and delivery time to 60 minutes.

PART 3 – EXECUTION

3.1 EXAMINATION

- A. Examine exposed subgrades and subbase surfaces for compliance with requirements for dimensional, grading, and elevation tolerances.
- B. Proof-roll prepared subbase below concrete paving to identify soft pockets and areas of excess yielding.
- C. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

- A. Remove loose material from compacted subbase surface immediately before placing concrete.

3.3 EDGE FORMS AND SCREED CONSTRUCTION

- A. Set, brace, and secure edge forms, bulkheads, and intermediate screed guides to required lines, grades, and elevations. Install forms to allow continuous progress of work and so forms can remain in place at least 24 hours after concrete placement.
- B. Clean forms after each use and coat with form-release agent to ensure application separation from concrete without damage.

3.4 STEEL REINFORCEMENT

- A. General: Comply with CRSI's "Manual of Standard Practice" for fabricating, placing, and supporting reinforcement.
- B. Clean reinforcement of loose rust and mill scale, earth, ice, or other bond-reducing materials.

- C. Arrange, space, and securely tie bars and bar supports to hold reinforcement in position during concrete placement. Maintain minimum cover to reinforcement.
- D. Install welded wire reinforcement in lengths as long as practicable. Lap adjoining pieces at least one full mesh, and lace splices with wire. Offset laps of adjoining widths to prevent continuous laps in either direction.
- E. Install fabricated bar mats in lengths as long as practicable. Handle units to keep them flat and free of distortions. Straighten bends, kinks, and other irregularities, or replace units as required before placement. Set mats for a minimum 2-inch overlap of adjacent mats.

3.5 JOINTS

- A. General: Form construction, isolation, and contraction joints and tool edges true to line, with faces perpendicular to surface plane of concrete. Construct transverse joints at right angles to centerline unless otherwise indicated.
 - 1. When joining existing paving, place transverse joints to align with previously placed joints unless otherwise indicated.
- B. Construction Joints: Set construction joints at side and end terminations of paving and at locations where paving operations are stopped for more than one-half hour unless paving terminates at isolation joints.
 - 1. Continue stall reinforcement across construction joints unless otherwise indicated. Do not continue reinforcement through sides of paving strips unless otherwise indicated.
 - 2. Provide tie bars at sides of paving strips where indicated.
 - 3. Butt Joints: Use epoxy bonding agent at joint locations where fresh concrete is placed against hardened or partially hardened concrete surfaces.
 - 4. Keyed Joints: Provide preformed keyway-section forms or bulkhead forms with keys unless otherwise indicated. Embed keys at least 1-1/2 inches into concrete.
 - 5. Doweled Joints: Install dowel bars and support assemblies at joints where indicated. Lubricate or coat with asphalt one-half of dowel length to prevent concrete bonding to one side of joint.
- C. Isolation Joints: Form isolation joints of preformed joint-filler strips abutting concrete curbs, catch basins, manholes, inlets, structures, other fixed objects, and where indicated.
 - 1. Locate expansion joints at intervals of 50 feet unless otherwise indicated.
 - 2. Extend joint fillers full width and depth of joint.
 - 3. Terminate joint filler not less than 1/2 inch or more than 1 inch below finished surface for joint sealant.
 - 4. Furnish joint fillers in one-piece lengths. Where more than one length is required, lace or clip joint-filler sections together.
 - 5. During concrete pavement, protect top edge of joint filler with metal, plastic, or other temporary preformed cap. Remove protective cap after concrete has been placed on both sides of joint.
- D. Contraction Joints: Form weakened-plane contraction joints, sectioning concrete into areas as indicated. Construct contraction joints for a depth equal to at least one-fourth of the concrete thickness, as follows:

1. Sawed Joints: Form contraction joints with power saws equipped with shatterproof abrasive or diamond-rimmed blades. Cut 1/4-inch-wide joints into concrete when cutting action will not tear, abrade, or otherwise damage surface and before developing random contraction cracks.

- a. Tolerance: Ensure that sawed joints are within 3 inches either way from centers of dowels.

2. Doweled Contraction Joints: Install dowel bars and support assemblies at joints where indicated. Lubricate or coat with asphalt one-half of dowel length to prevent concrete bonding to one side of joint.

- E. Edging: After initial floating, tool edges of paving, gutters, curbs, and joints in concrete with an edging tool to a 1/8-inch radius. Repeat tooling of edges after applying surface finishes.

3.6 CONCRETE PLACEMENT

- A. Before placing concrete, inspect and complete formwork installation, steel reinforcement, and items to be embedded or cast-in.
- B. Remove snow, ice, or frost from subbase surface and steel reinforcement before placing concrete. Do not place concrete on frozen surfaces.
- C. Moisten subbase to provide a uniform dampened condition at time concrete is placed. Do not place concrete around manholes or other structures until they are at required finish elevation and alignment.
- D. Comply with ACI 301 requirements for measuring, mixing, transporting, and placing concrete.
- E. Do not add water to concrete during delivery or at Project site. Do not add water to fresh concrete after testing.
- F. Deposit and spread concrete in a continuous operation between transverse joints. Do not push or drag concrete into place or use vibrators to move concrete into place.
- G. Consolidate concrete according to ACI 301 by mechanical vibrating equipment supplemented by hand spading, rodding, or tamping.
 1. Consolidate concrete along face of forms and adjacent to transverse joints with an internal vibrator. Keep vibrator away from joint assemblies, reinforcement, or side forms. Use only square-faced shovels for hand spreading and consolidation. Consolidate with care to prevent dislocating reinforcement, dowels, and joint devices.
- H. Screed paving surface with a straightedge and strike off.
- I. Commence initial floating using bull floats or darbies to impart an open-textured and uniform surface plane before excess moisture or bleed water appears on the surface. Do not further disturb concrete surfaces before beginning finishing operations or spreading surface treatments.
- J. Curbs and Gutters: Use design mixture for automatic machine placement. Produce curbs and gutters to required cross section, lines, grades, finish, and jointing.

- K. Cold-Weather Placement: Protect concrete work from physical damage or reduced strength that could be caused by frost, freezing, or low temperatures. Comply with ACI 306.1 and the following:
 - 1. When air temperature has fallen to or is expected to fall below 40 deg F, uniformly heat water and aggregates before mixing to obtain a concrete mixture temperature of not less than 50 deg F and not more than 80 deg F at point of placement.
 - 2. Do not use frozen materials or materials containing ice or snow.
 - 3. Do not use calcium chloride, salt, or other materials containing antifreeze agents or chemical accelerators unless otherwise specified and approved in design mixtures.
- L. Hot-Weather Placement: Comply with ACI 301 and as follows when hot-weather conditions exist:
 - 1. Cool ingredients before mixing to maintain concrete temperature below 90 deg F at time of placement. Chilled mixing water or chopped ice may be used to control temperature, provided water equivalent of ice is calculated in total amount of mixing water. Using liquid nitrogen to cool concrete is Contractor's option.
 - 2. Cover steel reinforcement with water-soaked burlap so steel temperature will not exceed ambient air temperature immediately before embedding in concrete.
 - 3. Fog-spray forms, steel reinforcement, and subgrade just before placing concrete. Keep subgrade moisture uniform without standing water, soft spots, or dry areas.

3.7 FLOAT FINISHING

- A. General: Do not add water to concrete surfaces during finishing operations.
- B. Float Finish: Begin the second floating operation when bleed-water sheen has disappeared, and concrete surface has stiffened sufficiently to permit operations. Float surface with power-driven floats or by hand floating if area is small or inaccessible to power units. Finish surfaces to true planes. Cut down high spots and fill low spots. Refloat surface immediately to uniform granular texture.
 - 1. Medium-to-Coarse-Textured Broom Finish: Provide a coarse finish by striating float-finished concrete surface 1/16 to 1/8 inch deep with a stiff-bristled broom, perpendicular to line of traffic.

3.8 CONCRETE PROTECTION AND CURING

- A. General: Protect freshly placed concrete from premature drying and excessive cold or hot temperatures.
- B. Comply with ACI 306.1 for cold-weather protection.
- C. Evaporation Retarder: Apply evaporation retarder to concrete surfaces if hot, dry, or windy conditions cause moisture loss approaching 0.2 lb/sq. ft. x h before and during finishing operations. Apply according to manufacturer's written instructions after placing, screeding, and bull floating or darbying concrete but before float finishing.
- D. Begin curing after finishing concrete but not before free water has disappeared from concrete surface.
- E. Curing Methods: Cure concrete by moisture curing, moisture-retaining-cover curing, curing compound or a combination of these as follows:
 - 1. Moisture Curing: Keep surfaces continuously moist for not less than seven days with the following materials:

- a. Water.
 - b. Continuous water-fog spray.
 - c. Absorptive cover, water saturated and kept continuously wet. Cover concrete surfaces and edges with 12-inch lap over adjacent absorptive covers.
2. Moisture-Retaining-Cover Curing: Cover concrete surfaces with moisture-retaining cover, placed in widest practicable width, with sides and ends lapped at least 12 inches and sealed by waterproof tape or adhesive. Immediately repair any holes or tears occurring during installation or curing period using cover material and waterproof tape.
 3. Curing Compound: Apply uniformly in continuous operation by power spray or roller according to manufacturer's written instructions. Recoat areas that have been subjected to heavy rainfall within three hours after initial application. Maintain continuity of coating, and repair damage during curing period.

3.9 PAVING TOLERANCES

- A. Comply with tolerances in ACI 117 and as follows:

1. Elevation: 1/2 inch.
2. Thickness: Plus 3/8 inch, minus 1/4 inch.
3. Surface: Gap below 10-foot-long, unleveled straightedge not to exceed 1/2 inch.
4. Alignment of Tie-Bar End Relative to Line Perpendicular to Paving Edge: 1/2 inch per 12 inches of tie bar.
5. Lateral Alignment and Spacing of Dowels: 1/4 inch.
6. Vertical Alignment of Dowels: 1/4 inch.
7. Alignment of Dowel-Bar End Relative to Line Perpendicular to Paving Edge: 1/4 inch per 12 inches of dowel.
8. Joint Spacing: 3 inches.
9. Contraction Joint Depth: Plus 1/4 inch, no minus.
10. Joint Width: Plus 1/8 inch, no minus.

3.10 FIELD QUALITY CONTROL

- A. Testing Agency: Owner will engage a qualified testing agency to perform tests and inspections.
- B. Testing Services: Testing of composite samples of fresh concrete obtained according to ASTM C 172 shall be performed according to the following requirements:
1. Testing Frequency: Obtain at least one composite sample for each 100 cu. yd. or fraction thereof of each concrete mixture placed each day.
 - a. When frequency of testing will provide fewer than five compressive-strength tests for each concrete mixture, testing shall be conducted from at least five randomly selected batches or from each batch if fewer than five are used.
 2. Slump: ASTM C 143; one test at point of placement for each composite sample, but not less than one test for each day's power for each concrete mixture. Perform additional tests when concrete consistency appears to change.

3. Air Content: ASTM C 231, pressure method; one test for each composite sample, but not less than one test for each day's pour of each concrete mixture.
4. Concrete Temperature: ASTM C 1064; one test hourly when air temperature is 40 deg F and below and when it is 80 deg F and above, and one test for each composite sample.
5. Compression Test Specimens: ASTM C 31; cast and laboratory cure one set of three standard cylinder specimens for each composite sample.
6. Compressive-Strength Tests: ASTM C 39; test one specimen at seven days and two specimens at 28 days.

- a. A compressive-strength test shall be the average compressive strength from two specimens obtained from same composite sample and tested at 28 days.

- C. Strength of each concrete mixture will be satisfactory if average of any three consecutive compressive-strength tests equals or exceeds specified compressive strength and no compressive-strength test value falls below specified compressive strength by more than 500 psi.
- D. Test results shall be reported in writing to Engineer, concrete manufacturer, and Contractor within 48 hours of testing. Reports of compressive-strength tests shall contain Project identification name and number, date of concrete placement, name of concrete testing and inspecting agency, location of concrete batch in Work, design compressive strength at 28 days, concrete mixture proportions and materials, compressive breaking strength, and type of break for both 7- and 28-day tests.
- E. Nondestructive Testing: Impact hammer, sonoscope, or other non destructive device may be permitted by Engineer but will not be used as sole basis for approval or rejection of concrete.
- F. Additional Tests: Testing and inspecting agency shall make additional tests of concrete when test results indicate that slump, air entrainment, compressive strengths, or other requirements have not been met, as directed by Engineer.
- G. Concrete paving will be considered defective if it does not pass tests and inspections.
- H. Additional testing and inspecting, at Contractor's expense, will be performed to determine compliance of replaced or additional work with specified requirements.
- I. Prepare test and inspection reports.

3.11 REPAIRS AND PROTECTION

- A. Remove and replace concrete paving that is broken, damaged, or defective or that does not comply with requirements in this Section. Remove work in complete sections from joint to joint unless otherwise approved by Engineer.
- B. Drill test cores, where directed by Engineer, when necessary to determine magnitude of cracks or defective areas. Fill drilled core holes in satisfactory paving areas with Portland cement concrete bonded to paving with epoxy adhesive.
- C. Protect concrete paving from damage. Exclude traffic from paving for at least 14 days after placement. When construction traffic is permitted, maintain paving as clean as possible by removing surface stains and spillage of materials as they occur.

Medal of Honor Park
PR-001-23

- D. Maintain concrete paving free of stains, discoloration, dirt, and other foreign material. Sweep paving not more than two days before date scheduled for Substantial Completion inspections.

END OF SECTION 02751

SECTION 02764
PAVEMENT JOINT SEALANTS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

A. Section Includes:

- 1. Silicone joint sealants.
- 2. Latex joint sealants.

B. Related Sections:

- 1. Division 04 Section "Unit Masonry" for masonry control and expansion joint fillers and gaskets.
- 2. Division 09 Section "Gypsum Board" for sealing perimeter joints.
- 3. Refer to Drawings for "Concrete Paving Joint Sealants" for sealing joints in pavements, walkways, and curbing.

1.3 SUBMITTALS

A. Product Data: For each joint-sealant product indicated.

B. Samples for Initial Selection: Manufacturer's color charts consisting of strips of cured sealants showing the full range of colors available for each product exposed to view.

C. Joint-Sealant Schedule: Include the following information:

- 1. Joint-sealant application, joint location, and designation.
- 2. Joint-sealant manufacturer and product name.
- 3. Joint-sealant formulation.
- 4. Joint-sealant color.

D. Qualification Data: For qualified Installer.

E. Product Certificates: For each kind of joint sealant and accessory, from manufacturer.

F. Product Test Reports: Based on evaluation of comprehensive tests performed by a qualified testing agency, indicating that sealants comply with requirements.

G. Warranties: Sample of special warranties.

1.4 QUALITY ASSURANCE

A. Installer Qualifications: Manufacturer's authorized representative who is trained and approved for installation of units required for this Project.

B. Source Limitations: Obtain each kind of joint sealant from single source from single manufacturer.

1.5 PROJECT CONDITIONS

- A. Do not proceed with installation of joint sealants under the following conditions:
1. When ambient and substrate temperature conditions are outside limits permitted by joint-sealant manufacturer or are below 40 deg F.
 2. When joint substrates are wet.
 3. Where joint widths are less than those allowed by joint-sealant manufacturer for applications indicated.
 4. Where contaminants capable of interfering with adhesion have not yet been removed from joint substrates.

1.6 WARRANTY

- A. Special warranties specified in this article exclude deterioration or failure of joint sealants from the following:
1. Movement of the structure caused by structural settlement or errors attributable to design or construction resulting in stresses on the sealant exceeding sealant manufacturer's written specifications for sealant elongation and compression.
 2. Disintegration of joint substrates from natural causes exceeding design specifications.
 3. Mechanical damage caused by individuals, tools, or other outside agents.
 4. Changes in sealant appearance caused by accumulation of dirt or other atmospheric contaminants.

PART 2 - PRODUCTS

2.1 MATERIALS, GENERAL

- A. Compatibility: Provide joint sealants, backings, and other related materials that are compatible with one another and with joint substrates under conditions of service and application, as demonstrated by joint-sealant manufacturer, based on testing and field experience.
- B. Liquid-Applied Joint Sealants: Comply with ASTM C 920 and other requirements indicated for each liquid-applied joint sealant specified, including those referencing ASTM C 920 classifications for type, grade, class, and uses related to exposure and joint substrates.
1. Suitability for Immersion in Liquids. Where sealants are indicated for Use I for joints that will be continuously immersed in liquids, provide products that have undergone testing according to ASTM C 1247. Liquid used for testing sealants is de-ionized water, unless otherwise indicated.
- C. Stain-Test-Response Characteristics: Where sealants are specified to be non-staining to porous substrates, provide products that have undergone testing according to ASTM C 1248 and have not stained porous joint substrates indicated for Project.
- D. Suitability for Contact with Food: Where sealants are indicated for joints that will come in repeated contact with food, provide products that comply with 21 CFR 177.2600.
- E. Colors of Exposed Joint Sealants: As selected by Architect from manufacturer's full range.

2.2 SILICONE JOINT SEALANTS

- A. Single-Component, Nonsag, Neutral-Curing Silicone Joint Sealant: ASTM C 920, Type S, Grade NS, Class 100/50, for Use NT.
 - 1. Products: Subject to compliance with requirements, available products that may be incorporated into the Work include, but are not limited to, the following:
 - a. Dow Corning Corporation; 790.
 - b. GE Advanced Materials - Silicones; SilPruf LM SCS2700.
 - c. Tremco Incorporated; Spectrem 1.
- B. Mildew-Resistant, Single-Component, Nonsag, Neutral-Curing Silicone Joint Sealant: ASTM C 920, Type S, Grade NS, Class 25, for Use NT.
 - 1. Products: Subject to compliance with requirements, available products that may be incorporated into the Work include, but are not limited to, the following:
 - a. Pecora Corporation; 898.

2.3 LATEX JOINT SEALANTS

- A. Latex Joint Sealant: Acrylic latex or siliconized acrylic latex, ASTM C 834, Type OP, Grade NF.
 - 1. Products: Subject to compliance with requirements, available products that may be incorporated into the Work include, but are not limited to, the following:
 - a. BASF Building Systems; Sonolac.
 - b. Bostik, Inc.; Chem-Calk 600.
 - c. Pecora Corporation; AC-20+.
 - d. Tremco Incorporated; Tremflex 834.

2.4 JOINT SEALANT BACKING

- A. General: Provide sealant backings of material that are nonstaining; are compatible with joint substrates, sealants, primers, and other joint fillers; and are approved for applications indicated by sealant manufacturer based on field experience and laboratory testing.
- B. Cylindrical Sealant Backings: ASTM C 1330, Type C (closed-cell material with a surface skin), and of size and density to control sealant depth and otherwise contribute to producing optimum sealant performance.
- C. Bond-Breaker Tape: Polyethylene tape or other plastic tape recommended by sealant manufacturer for preventing sealant from adhering to rigid, inflexible joint-filler materials or joint surfaces at back of joint. Provide self-adhesive tape where applicable.

2.5 MISCELLANEOUS MATERIALS

- A. Primer: Material recommended by joint-sealant manufacturer where required for adhesion of sealant to joint substrates indicated, as determined from preconstruction joint-sealant-substrate tests and field tests.

- B. Cleaners for Nonporous Surfaces: Chemical cleaners acceptable to manufacturers of sealants and sealant backing materials, free of oily residues or other substances capable of staining or harming joint substrates and adjacent nonporous surfaces in any way, and formulated to promote optimum adhesion of sealants to joint substrates.
- C. Masking Tape: Nonstaining, nonabsorbent material compatible with joint sealants and surfaces adjacent to joints.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine joints indicated to receive joint sealants, with Installer present, for compliance with requirements for joint configuration, installation tolerances, and other conditions affecting joint-sealant performance.
- B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

- A. Surface Cleaning of Joints: Clean out joints immediately before installing joint sealants to comply with joint-sealant manufacturer's written instructions and the following requirements:
 - 1. Remove all foreign material from joint substrates that could interfere with adhesion of joint sealant, including dust, paints (except for permanent, protective coatings tested and approved for sealant adhesion and compatibility by sealant manufacturer), old joint sealants, oil, grease, waterproofing, water repellents, water, surface dirt, and frost.
 - 2. Clean porous joint substrate surfaces by brushing, grinding, mechanical abrading, or a combination of these methods to produce a clean, sound substrate capable of developing optimum bond with joint sealants. Remove loose particles remaining after cleaning operations above by vacuuming or blowing out joints with oil-free compressed air. Porous joint substrates include the following:
 - a. Masonry.
 - b. Unglazed surfaces of ceramic tile.
 - c. Portland cement plasterwork (stucco).
 - 3. Remove laitance and form-release agents from concrete.
 - 4. Clean nonporous joint substrate surfaces with chemical cleaners or other means that do not stain, harm substrates, or leave residues capable of interfering with adhesion of joint sealants. Nonporous joint substrates include the following:
 - a. Metal.
 - b. Glass.
 - c. Porcelain enamel.
 - d. Glazed surfaces of ceramic tile.
- B. Joint Priming: Prime joint substrates where recommended by joint-sealant manufacturer or as indicated by preconstruction joint-sealant-substrate tests or prior experience. Apply primer to comply with joint-sealant manufacturer's written instructions. Confine primers to areas of joint-sealant bond; do not allow spillage or migration onto adjoining surfaces.

- C. Masking Tape: Use masking tape where required to prevent contact of sealant or primer with adjoining surfaces that otherwise would be permanently stained or damaged by such contact or by cleaning methods required to remove sealant smears. Remove tape immediately after tooling without disturbing joint seal.

3.3 INSTALLATION OF JOINT SEALANTS

- A. General: Comply with joint-sealant manufacturer's written installation instructions for products and applications indicated, unless more stringent requirements apply.
- B. Sealant Installation Standard: Comply with recommendations in ASTM C 1193 for use of joint sealants as applicable to materials, applications, and conditions indicated.
- C. Install sealant backings of kind indicated to support sealants during application and at position required to produce cross-sectional shapes and depths of installed sealants relative to joint widths that allow optimum sealant movement capability.
 - 1. Do not leave gaps between ends of sealant backings.
 - 2. Do not stretch, twist, puncture, or tear sealant backings.
 - 3. Remove absorbent sealant backings that have become wet before sealant application and replace them with dry materials.
- D. Install bond-breaker tape behind sealants where sealant backings are not used between sealants and backs of joints.
- E. Install sealants using proven techniques that comply with the following and at the same time backings are installed:
 - 1. Place sealants so they directly contact and fully wet joint substrates.
 - 2. Completely fill recesses in each joint configuration.
 - 3. Produce uniform, cross-sectional shapes and depths relative to joint widths that allow optimum sealant movement capability.
- F. Tooling of Nonsag Sealants: Immediately after sealant application and before skinning or curing begins, tool sealants according to requirements specified in subparagraphs below to form smooth, uniform beads of configuration indicated; to eliminate air pockets; and to ensure contact and adhesion of sealant with sides of joint.
 - 1. Remove excess sealant from surfaces adjacent to joints.
 - 2. Use tooling agents that are approved in writing by sealant manufacturer and that do not discolor sealants or adjacent surfaces.
 - 3. Provide concave joint profile per Figure 8A in ASTM C 1193, unless otherwise indicated.
 - 4. Provide flush joint profile where indicated per Figure 8B in ASTM C 1193.
 - 5. Provide recessed joint configuration of recess depth and at locations indicated per Figure 8C in ASTM C 1193.
 - a. Use masking tape to protect surfaces adjacent to recessed tooled joints.

3.4 FIELD QUALITY CONTROL

- A. Evaluation of Field-Adhesion Test Results: Sealants not evidencing adhesive failure from testing or noncompliance with other indicated requirements will be considered satisfactory. Remove sealants that fail to adhere to joint substrates during testing or to

comply with other requirements. Retest failed applications until test results prove sealants comply with indicated requirements.

3.5 CLEANING

- A. Clean off excess sealant or sealant smears adjacent to joints as the Work progresses by methods and with cleaning materials approved in writing by manufacturers of joint sealants and of products in which joints occur.

3.6 PROTECTION

- A. Protect joint sealants during and after curing period from contact with contaminating substances and from damage resulting from construction operations or other causes so sealants are without deterioration or damage at time of Substantial Completion. If, despite such protection, damage or deterioration occurs, cut out and remove damaged or deteriorated joint sealants immediately so installations with repaired areas are indistinguishable from original work.

3.7 JOINT-SEALANT SCHEDULE

- A. Joint-Sealant Application: Exterior joints in vertical surfaces and horizontal nontraffic surfaces.
 - 1. Joint Locations:
 - a. Control and expansion joints in unit masonry.
 - b. Joints in portland cement plasterwork (stucco) finish systems.
 - c. Joints between different materials listed above.
 - d. Perimeter joints between materials listed above and frames of doors, windows and louvers.
 - 2. Silicone Joint Sealant: Single component, nonsag, neutral curing, Class 100/50.
 - 3. Joint-Sealant Color: As selected by Architect from manufacturer's full range of colors.
- B. Joint-Sealant Application: Interior joints in vertical surfaces and horizontal nontraffic surfaces.
 - 1. Joint Locations:
 - a. Perimeter joints of exterior openings where indicated.
 - b. Vertical joints on exposed surfaces of interior unit masonry.
 - c. Perimeter joints between interior wall surfaces and frames of interior doors and windows.
 - 2. Joint Sealant: Latex.
 - 3. Joint-Sealant Color: As selected by Architect from manufacturer's full range of colors.
- C. Joint-Sealant Application: Mildew-resistant interior joints in vertical surfaces and horizontal nontraffic surfaces.
 - 1. Joint Sealant Location:

Medal of Honor Park
PR-001-23

- a. Joints between plumbing fixtures and adjoining walls, floors, and counters.
 - b. Tile control and expansion joints where indicated.
 - c. Other joints as indicated.
2. Joint Sealant: Mildew resistant, single component, nonsag, neutral curing, Silicone.
 3. Joint-Sealant Color: As selected by Architect from manufacturer's full range of colors.

END OF SECTION 02764

SECTION 02821
CHAIN LINK FENCE AND GATES

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:

1. Galvanized coated chain link fencing and accessories.

B. Related Specification Sections include, but are not necessarily limited to:

1. Division 0 - Proposal Requirements, Contract Forms, and Conditions of the Contract
2. Division 1 - General Requirements

1.2 REFERENCES

A. Reference Standards

1. Reference standards cited in this specification refer to the current reference standard published at the time of the latest revision date logged at the end of this specification, unless a date is specifically cited.
2. American Society for Testing and Materials (ASTM):
 - a. A 36, Standard Specification for Carbon Structural Steel
 - b. A 123, Standard Specification for Zinc (Hot-Dip Galvanized) Coatings on Iron and Steel Products
 - c. A 392, Standard Specification for Zinc-Coated Steel Chain-Link Fence Fabric
 - d. A 500, Standard Specification for Cold-Formed Welded and Seamless Carbon Steel Structural Tubing in Rounds and Shapes
 - e. F 626, Standard Specification for Fence Fittings
 - f. F 1043, Standard Specification for Strength and Protective Coatings on Steel Industrial Chain Link Fence Framework
 - g. F 1083, Standard Specification for Pipe, Steel, Hot-Dipped Zinc-Coated (Galvanized) Welded, for Fence Structures
 - h. F 1183, Specification for Aluminum Alloy Chain Link Fence Fabric

1.3 ADMINISTRATIVE REQUIREMENTS (NOT USED)

1.5 SUBMITTALS

A. Shop drawings

1. Layout of fences and gates with dimensions, details, and finishes of components, accessories and post foundations.

B. Product data

1. Manufacturer's catalog cuts indicating material compliance and specified options.

1.6 ACTION SUBMITTALS/INFORMATIONAL SUBMITTALS (NOT USED)

1.7 CLOSEOUT SUBMITTALS (NOT USED)

1.8 MAINTENANCE MATERIAL SUBMITTALS (NOT USED)

1.9 QUALITY ASSURANCE (NOT USED)

1.10 DELIVERY, STORAGE, AND HANDLING (NOT USED)

1.11 FIELD CONDITIONS (NOT USED)

1.12 WARRANTY

- A. Warranty shall be in accordance with the General Conditions and Supplemental Conditions.

PART 2 - PRODUCTS

2.1 OWNER-FURNISHED (NOT USED)

2.2 MANUFACTURED UNITS / MATERIALS

A. Manufacturer

1. Minimum of 5 years of experience manufacturing galvanized coated chain link fencing.

B. Materials (All materials shall be vinyl coated.)

1. Chain Link Fence

a. General

- 1) Posts, gate frames, braces, rails, stretcher bars, truss rods, and tension wire shall be steel.
- 2) Gate hinges, post caps, barbed wire supporting arms, stretcher bar bands, and other parts shall be of steel, malleable iron, ductile iron, or equal.
- 3) Post tops, rail end, ties, and clips may be of aluminum.
- 4) Use only new material, or salvaged/existing material if approved by the Engineer or noted on Drawings.

b. Steel Fabric

1) Fabric

- a) No. 9 gauge
- b) 2-inch mesh
Commercial: match existing or both top and bottom selvages knuckled
(1) Furnish 1-piece fabric widths.

2) Fabric Finish: Galvanized, ASTM A 392, Class I, with not less than 1.2 oz. zinc per square foot of surface.

c. Aluminum Fabric

1) Fabric

- a) ASTM F 1183
- b) No. 9 gauge
- c) 1 3/4-inch mesh, with both top and bottom selvages knuckled.

- d) Furnish 1-piece fabric widths.
- d. Steel Framing
 - 1) Steel pipe - Type I
 - a) ASTM F 1083
 - b) Standard weight schedule 40
 - c) Minimum yield strength: 30,000 psi
 - d) Sizes as indicated
 - e) Hot-dipped galvanized with minimum average 1.8 oz/ft² of coated surface area
 - 2) Steel pipe - Type II
 - a) ASTM F 1043, Group IC
 - b) Minimum yield strength: 50,000 psi
 - c) Sizes as indicated on Drawings
 - d) Protective coating per ASTM F 1043
 - (1) External coating Type B
 - (a) Zinc with organic overcoat
 - (b) 0.9 oz/ft² minimum zinc coating with chromate conversion coating and verifiable polymer film
 - (2) Internal coating Type B
 - (a) Minimum 0.9 oz/ft² zinc or Type D, zinc pigmented, 81 percent nominal coating, minimum 3 mils
 - 3) Formed steel ("C") sections:
 - a) Roll formed steel shapes complying with ASTM F 1043, Group II
 - b) Minimum yield strength: 45,000 psi (310 MPa)
 - c) Sizes as indicated on Drawings
 - d) External coating per ASTM F 1043, Type A
 - (1) Minimum average 2.0 oz/ft² of zinc per ASTM A 123
 - 4) Steel square sections
 - a) ASTM A 500, Grade B
 - b) Minimum yield strength: 40,000 psi
 - c) Sizes as indicated on Drawings
 - d) Hot-dipped galvanized with minimum 1.8 oz/ft² of coated surface area
- e. Accessories
 - 1) Chain link fence accessories
 - a) ASTM F 626
 - b) Provide items required to complete fence system.
 - c) Galvanize each ferrous metal item and finish to match framing.
 - 2) Post caps
 - a) Formed steel or cast malleable iron weather tight closure cap for tubular posts.
 - b) Provide 1 cap for each post.
 - c) Cap to have provision for barbed wire when necessary.
 - d) "C" shaped line post without top rail or barbed wire supporting arms do not require post caps.
 - e) Where top rail is used, provide tops to permit passage of top rail.
 - 3) Top rail and rail ends
 - a) 1 5/8 inch diameter galvanized round pipe for horizontal railing
 - b) Pressed steel per ASTM F626
 - c) For connection of rail and brace to terminal posts
 - 4) Top rail sleeves

- a) 7-inch expansion sleeve with a minimum 0.137 inch wire diameter and 1.80 inch length spring, allowing for expansion and contraction of top rail
 - 5) Wire ties
 - a) 9 gauge galvanized steel wire for attachment of fabric to line posts
 - b) Double wrap 13 gauge for rails and braces.
 - c) Hog ring ties of 12-1/2 gauge for attachment
 - 6) Brace and tension (stretcher bar) bands
 - a) Pressed steel
 - b) Minimum 300 degree profile curvature for secure fence post attachment
 - c) At square post provide tension bar clips.
 - 7) Tension (stretcher) bars:
 - a) 1 piece lengths equal to 2 inches less than full height of fabric
 - b) Minimum cross-section of 3/16 inch x 3/4 inch
 - c) Provide tension (stretcher) bars where chain link fabric meets terminal posts.
 - 8) Tension wire
 - a) Galvanized coated steel wire, 6 gauge, (0.192 inch) diameter wire
 - b) Tensile strength: 75,000 psi
 - 9) Truss rods & tightener
 - a) Steel rods with minimum diameter of 5/16 inch
 - b) Capable of withstanding a tension of minimum 2,000 pounds
 - 10) Nuts and bolts are galvanized.
2. Setting Materials
- a. Concrete
 - 1) Minimum 28 day compressive strength of 3,000 psi
 - 2) Bagged concrete allowed.
 - b. Drive Anchors
 - 1) Galvanized angles
 - 2) ASTM A 36 steel
 - 3) 1 inch x 1 inch x 30 inch galvanized shoe clamps to secure angles to posts.

2.3 ACCESSORIES (NOT USED)

2.4 SOURCE QUALITY CONTROL (NOT USED)

PART 3 - EXECUTION

3.1 INSTALLERS (NOT USED)

3.2 EXAMINATION

A. Verification of Conditions

1. Verify areas to receive fencing are completed to final grades and elevations.
2. Ensure property lines and legal boundaries of work are clearly established

3.3 PREPARATION (NOT USED)

3.4 INSTALLATION

A. Chain Link Fence Framing

1. Locate terminal post at each fence termination and change in horizontal or vertical direction of 30 degrees or more.
2. Space line posts uniformly at 10 feet on center.
3. Set all posts in concrete
 - a. Drill holes in firm, undisturbed or compacted soil.
 - b. Drill hole diameter 4 times greater than outside dimension of post.
 - c. Set post bottom 24 inches below surface when in firm, undisturbed soil.
 - d. Excavate deeper as required for adequate support in soft and loose soils, and for posts with heavy lateral loads.
 - e. Place concrete around posts in a continuous pour. Trowel finish around post. Slope to direct water away from posts.
4. Check each post for vertical and top alignment, and maintain in position during placement and finishing operations.
5. Bracing
 - a. Install horizontal pipe brace at mid-height for fences 6 feet and taller, on each side of terminal posts.
 - b. Firmly attach with fittings.
 - c. Install diagonal truss rods at these points.
 - d. Adjust truss rod, ensuring posts remain plumb.
6. Tension wire
 - a. Provide tension wire at bottom of fabric and at top, if top rail is not specified.
 - b. Install tension wire before stretching fabric and attach to each post with ties.
 - c. Secure tension wire to fabric with 12-1/2 gauge hog rings 24 inches on center.
7. Top rail
 - a. Install lengths, 21 feet
 - b. Connect joints with sleeves for rigid connections for expansion/contraction.
8. Center Rails for fabric height 12 feet and taller.
 - a. Install mid rails between posts with fittings and accessories.
9. Bottom Rails: Install bottom rails between posts with fittings and accessories.

B. Chain Link Fabric Installation

1. Fabric
 - a. Install fabric on security side and attach so that fabric remains in tension after pulling force is released.
 - b. Leave approximately 1-inch between finish grade and bottom selvage.
 - c. Attach fabric with wire ties to line posts at 15 inches on center and to rails, braces, and tension wire at 24 inches on center.
2. Tension (stretcher) bars
 - a. Pull fabric taut.

- b. Thread tension bar through fabric and attach to terminal posts with bands or clips spaced maximum of 15 inches on center.

3. Accessories

- a. Tie wires: Bend ends of wire to minimize hazard to persons and clothing.
- b. Fasteners: Install nuts on side of fence opposite fabric side for added security.
- c. Slats: Install slats in accordance with manufacturer's instructions.

C. Wrought Iron Installation: install per Drawings.

D. Steel Tube Fence: install per Drawings.

3.5 REPAIR/RESTORATION (NOT USED)

3.6 RE-INSTALLATION (NOT USED)

3.7 FIELD QUALITY CONTROL (NOT USED)

3.8 SYSTEM STARTUP (NOT USED)

3.9 ADJUSTING (NOT USED)

3.10 CLEANING (NOT USED)

3.11 CLOSEOUT ACTIVITIES (NOT USED)

3.12 PROTECTION (NOT USED)

3.13 MAINTENANCE (NOT USED)

3.14 ATTACHMENTS (NOT USED)

END OF SECTION 02821

SECTION 024100
SITE DEMOLITION

PART 1 – GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.2 SUBMITTALS

- A. The procedure proposed for the accomplishment of salvage and demolition work shall be submitted for approval. The procedure shall provide for safe conduct of the work, careful removal and disposition of materials specified to be salvaged, protection of property, which is to remain undisturbed, coordination with other work in progress. The procedure shall include a description of the method and equipment to be used for the operation, and the sequence of the operation.

1.3 GENERAL REQUIREMENTS

- A. The work includes demolition or removal of items indicated on the drawings.
- B. The assumed method of demolition of the turf areas is herbicide treatment and tilling of existing grass. Herbicide shall be used per manufacturer's recommendations and per all environmental regulations. Sufficient time shall lapse after applying herbicide to allow visual evidence the application has eradicated all existing vegetation. Herbicide shall be reapplied if green and living vegetation remains. If the Contractor decides to demolish the turf area with a different method other than assumed above, the Contractor shall notify the Landscape Architect before any demolition work occurs.
- C. All materials resulting from demolition work, except as indicated or specified otherwise, shall be the property of the Contractor at the option of the Owner and shall be removed from the limits of the Owner's property. Rubbish and debris shall be removed from the property daily unless otherwise directed so as to not allow accumulation thereof. Materials that cannot be removed daily shall be stored in areas specified by the Owner.

1.4 DUST CONTROL

- A. The amount of dust resulting from demolition shall be controlled to prevent the spread of dust and to avoid creation of a nuisance in the surrounding area. Use of water will only be permitted when it will not result in, or create hazardous or objectionable conditions such as ice, flooding and pollution.

1.5 PROTECTION

- A. Protection of Existing Work: Before beginning any cutting or demolition work, the Contractor shall carefully survey the existing work and examine the drawings and specifications to determine the extent of the work. The Contractor shall take all necessary precautions to insure against damage to existing work to remain in place, and any damage to such work shall be repaired or replaced as approved by the Engineer at no additional cost to the Owner. The Contractor shall carefully coordinate the work of this section with all other work and construct and maintain shoring, bracing and supports, as required. The Contractor shall insure that structural elements are not overloaded and be responsible for increasing structural supports or adding new supports

as may be required as a result of any cutting, removal, or demolition work performed under any part of this contract.

1.6 AVAILABILITY OF WORK AREAS

- A. The area in which demolition work is to be accomplished will be available in accordance with a mutually agreeable schedule to be determined by the Landscape Architect and the Contractor.

PART 2 – PRODUCTS (NOT USED)

PART 3 – EXECUTION

3.1 DISPOSITION OF MATERIAL

A. Title to Materials: Title to all materials and equipment to be demolished, unless otherwise shown, is vested in the Contractor upon receipt of notice to proceed. The Owner will not be responsible for the condition, loss or damage to such property after notice to proceed.

B. Material for Contractor Salvage: Salvage materials shall be removed from the Owner's property before completion of the Contract. Material for salvage shall not be sold on the site.

3.2 CLEAN-UP

A. Debris Control: Debris shall be removed and transported in a manner as to prevent spillage on streets or adjacent areas.

B. Clean up of debris and sediment shall be performed daily at construction entrance and asphalt entry road.

C. Regulations: Local regulations regarding hauling and disposal apply.

END OF SECTION 024100

SECTION 033000
CAST-IN-PLACE CONCRETE

PART 1 - GENERAL

1.1 SUMMARY

1. Section Includes:
 2. Cast-in place concrete, including formwork, reinforcement, concrete materials, mixture design, placement procedures and finishes, for the following:
 - a. Piers
 - b. Footings
 - c. Slabs-on-grade
 - d. Foundation walls
 - e. Retaining walls (ALDOT)
 - f. Suspended slabs
 - g. Blocking
 - h. Cast-in-place manholes
 - i. Concrete vaults for meters and valves
 - j. Concrete encasement of utility lines
- B. Related Specification Sections include, but are not necessarily limited to:
1. Division 0 – Bidding and Contract Requirements
 2. Division 1 – General Requirements

1.2 PRICE AND PAYMENT PROCEDURES

- A. Cast-in-Place Concrete
1. Measurement
 - a. This Item is considered subsidiary to the structure or Items being placed.
 2. Payment
 - a. The work performed and the materials furnished in accordance with this Item are subsidiary to the structure or Items being placed and no other compensation will be allowed.

1.3 REFERENCES

- A. Definitions
1. Cementitious Materials
 - a. Portland cement alone or in combination with 1 or more of the following:
 - 1) Blended hydraulic cement
 - 2) Fly ash
 - 3) Other pozzolans
 - 4) Ground granulated blast-furnace slag
 - 5) Silica fume
 - b. Subject to compliance with the requirements of this specification

B. Reference Standards

1. Reference standards cited in this Specification refer to the current reference standard published at the time of the latest revision date logged at the end of this Specification, unless a date is specifically cited.
2. American Association of State Highway and Transportation (AASHTO):
 - a. M182, Burlap Cloth Made from Jute or Kenaf.
3. American Concrete Institute (ACI):
 - a. ACI 117 Specification for Tolerances for Concrete Construction and Materials
 - b. ACI 301 Specifications for Structural Concrete
 - c. ACI 305.1 Specification for Hot Weather Concreting
 - d. ACI 306.1 Standard Specification for Cold Weather Concreting
 - e. ACI 308.1 Standard Specification for Curing Concrete
 - f. ACI 318 Building Code Requirements for Structural Concrete
 - g. ACI 347 Guide to Formwork for Concrete
4. American Institute of Steel Construction (AISC):
 - a. 303, Code of Standard Practice for Steel Buildings and Bridges.
5. ASTM International (ASTM):
 - a. A36, Standard Specification for Carbon Structural Steel.
 - b. A153, Standard Specification for Zinc Coating (Hot-Dip) on Iron and Steel Hardware.
 - c. A193, Standard Specification for Alloy-Steel and Stainless Steel Bolting Materials for High-Temperature Service and Other Special Purpose Applications.
 - d. A615, Standard Specification for Deformed and Plain Carbon-Steel Bars for Concrete Reinforcement.
 - e. A706, Standard Specification for Low-Alloy Steel Deformed and Plain Bars for Concrete Reinforcement.
 - f. C31, Standard Practice for Making and Curing Concrete Test Specimens in the Field.
 - g. C33, Standard Specification for Concrete Aggregates.
 - h. C39, Standard Test Method for Compressive Strength of Cylindrical Concrete Specimens.
 - i. C42, Standard Test Method for Obtaining and Testing Drilled Cores and Sawed Beams of Concrete.
 - j. C94, Standard Specification for Ready-Mixed Concrete.
 - k. C109, Standard Test Method for Compressive Strength of Hydraulic Cement Mortars (Using 2-inch or {50-milimeter} Cube Specimens)
 - l. C143, Standard Test Method for Slump of Hydraulic-Cement Concrete.
 - m. C171, Standard Specification for Sheet Materials for Curing Concrete.
 - n. C150, Standard Specification for Portland Cement.
 - o. C172, Standard Practice for Sampling Freshly Mixed Concrete.
 - p. C219, Standard Terminology Relating to Hydraulic Cement.
 - q. C231, Standard Test Method for Air Content of Freshly Mixed Concrete by the Pressure Method.
 - r. C260, Standard Specification for Air-Entraining Admixtures for Concrete.
 - s. C309, Standard Specification for Liquid Membrane-Forming Compounds for Curing Concrete.
 - t. C494, Standard Specification for Chemical Admixtures for Concrete.

- u. C618, Standard Specification for Coal Fly Ash and Raw or Calcined Natural Pozzolan for Use in Concrete.
 - v. C881, Standard Specification for Epoxy-Resin-Base Bonding Systems for Concrete.
 - w. C989, Standard Specification for Ground Granulated Blast-Furnace Slag for Use in Concrete and Mortars.
 - x. C1017, Standard Specification for Chemical Admixtures for Use in Producing Flowing Concrete.
 - y. C1059, Standard Specification for Latex Agents for Bonding Fresh to Hardened Concrete.
 - z. C1064, Standard Test Method for Temperature of Freshly Mixed Hydraulic-Cement Concrete.
 - aa. C1240, Standard Specification for Silica Fume Used in Cementitious Mixtures.
 - bb. E1155, Standard Test Method for Determining F_F Floor Flatness and F_L Floor Levelness Numbers.
 - cc. F436, Standard Specification for Hardened Steel Washers.
- 6. American Welding Society (AWS).
 - a. D1.1, Structural Welding Code - Steel.
 - b. D1.4, Structural Welding Code - Reinforcing Steel.
 - 7. Concrete Reinforcing Steel Institute (CRSI)
 - a. Manual of Standard Practice
 - 8. Alabama Department of Transportation
 - a. Standard Specification for Highway Construction

1.4 ADMINISTRATIVE REQUIREMENTS

A. Work Included

- 1. Design, fabrication, erection, and stripping of formwork for cast-in-place concrete including shoring, reshoring, falsework, bracing, proprietary forming systems, prefabricated forms, void forms, permanent metal forms, bulkheads, keys, blockouts, sleeves, pockets, and accessories.
 - a. Erection shall include installation in formwork of items furnished by other trades.
- 2. Furnish all labor and materials required to fabricate, deliver and install reinforcement and embedded metal assemblies for cast-in-place concrete, including steel bars, welded steel wire fabric, ties, supports and sleeves.
- 3. Furnish all labor and materials required to perform the following:
 - a. Cast-in-place concrete
 - b. Concrete mix designs
 - c. Grouting

1.5 SUBMITTALS

- A. Submittals shall be in accordance with Section 01330.
- B. All submittals shall be approved by the Engineer prior to delivery and/or fabrication for specials.

1.6 ACTION SUBMITTALS/INFORMATIONAL SUBMITTALS

- A. Product Data

1. Required for each type of product indicated.

B. Design Mixtures

1. For each concrete mixture submit proposed mix designs in accordance with ACI 318, chapter 5.
2. Submit each proposed mix design with a record of past performance.
3. Submit alternate design mixtures when characteristics of materials, Project conditions, weather, test results or other circumstances warrant adjustments.
4. Indicate amounts of mixing water to be withheld for later addition at Site.
 - a. Include this quantity on delivery ticket.

C. Steel Reinforcement Submittals for Information

1. Mill test certificates of supplied concrete reinforcing, indicating physical and chemical analysis.

1.7 CLOSEOUT SUBMITTALS [NOT USED]

1.8 MAINTENANCE MATERIAL SUBMITTALS [NOT USED]

1.9 QUALITY ASSURANCE

A. Manufacturer Qualifications

1. A firm experienced in manufacturing ready-mixed concrete products and that complies with ASTM C94 requirements for production facilities and equipment
2. Manufacturer certified according to NRMCA's "Certification of Ready Mixed Concrete Production Facilities"

B. Source Limitations

1. Obtain each type or class of cementitious material of the same brand from the same manufacturer's plant, obtain aggregate from a single source and obtain admixtures through a single source from a single manufacturer.

C. ACI Publications

1. Comply with the following unless modified by requirements in the Contract Documents:
 - a. ACI 301 Sections 1 through 5
 - b. ACI 117

D. Concrete Testing Service

1. Engage a qualified independent testing agency to perform material evaluation tests.

1.10 DELIVERY, STORAGE, AND HANDLING

A. Steel Reinforcement

1. Deliver, store, and handle steel reinforcement to prevent bending and damage.
2. Avoid damaging coatings on steel reinforcement.

B. Waterstops

1. Store waterstops under cover to protect from moisture, sunlight, dirt, oil and other contaminants.

1.11 FIELD CONDITIONS [NOT USED]

1.12 WARRANTY [NOT USED]

PART 2 - PRODUCTS

2.1 OWNER-FURNISHED PRODUCTS [NOT USED]

2.2 PRODUCT TYPES AND MATERIALS

A. Manufacturers

1. In other Part 2 articles where titles below introduce lists, the following requirements apply to product selection:
 - a. Available Products: Subject to compliance with requirements, products that may be incorporated into the Work include, but are not limited to, products specified.
 - b. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include, but are not limited to, manufacturers specified.

B. Form-Facing Materials

1. Rough-Formed Finished Concrete
 - a. Plywood, lumber, metal or another approved material
 - b. Provide lumber dressed on at least 2 edges and 1 side for tight fit.
2. Chamfer Strips
 - a. Wood, metal, PVC or rubber strips
 - b. 3/4-inch x 3/4-inch, minimum
3. Rustication Strips
 - a. Wood, metal, PVC or rubber strips
 - b. Kerfed for ease of form removal
4. Form-Release Agent
 - a. Commercially formulated form-release agent that will not bond with, stain or adversely affect concrete surfaces
 - b. Shall not impair subsequent treatments of concrete surfaces
 - c. For steel form-facing materials, formulate with rust inhibitor.
5. Form Ties
 - a. Factory-fabricated, removable or snap-off metal or glass-fiber-reinforced plastic form ties designed to resist lateral pressure of fresh concrete on forms and to prevent spalling of concrete on removal.
 - b. Furnish units that will leave no corrodible metal closer than 1 inch to the plane of exposed concrete surface.
 - c. Furnish ties that, when removed, will leave holes no larger than 1 inch in diameter in concrete surface.
 - d. Furnish ties with integral water-barrier plates to walls indicated to receive dampproofing or waterproofing.

C. Steel Reinforcement

1. Reinforcing Bars
 - a. ASTM A615, Grade 60, deformed
- D. Reinforcement Accessories
 1. Smooth Dowel Bars
 - a. ASTM A615, Grade 60, steel bars (smooth)
 - b. Cut bars true to length with ends square and free of burrs.
 2. Bar Supports
 - a. Bolsters, chairs, spacers and other devices for spacing, supporting and fastening reinforcing bars and welded wire reinforcement in place
 - b. Manufacture bar supports from steel wire, plastic or precast concrete according to CRSI's "Manual of Standard Practice," of greater compressive strength than concrete and as follows:
 - 1) For concrete surfaces exposed to view where legs of wire bar supports contact forms, use CRSI Class 1 plastic-protected steel wire or CRSI Class 2 stainless-steel bar supports.
 - 2) For slabs-on-grade, provide sand plates, horizontal runners or precast concrete blocks on bottom where base material will not support chair legs or where vapor barrier has been specified.
- E. Embedded Metal Assemblies
 1. Steel Shapes and Plates: ASTM A36
 2. Headed Studs: Heads welded by full-fusion process, as furnished by TRW Nelson Stud Welding Division or approved equal
- F. Expansion Anchors
 1. Available Products
 - a. Wej-it Bolt, Wej-it Corporation, Tulsa, Oklahoma
 - b. Kwik Bolt II, Hilti Fastening Systems, Tulsa, Oklahoma
 - c. Trubolt, Ramset Fastening Systems, Paris, Kentucky
- G. Adhesive Anchors and Dowels
 1. Adhesive anchors shall consist of threaded rods anchored with an adhesive system into hardened concrete or grout-filled masonry.
 - a. The adhesive system shall use a 2-component adhesive mix and shall be injected with a static mixing nozzle following manufacturer's instructions.
 - b. The embedment depth of the rod shall provide a minimum allowable bond strength that is equal to the allowable yield capacity of the rod, unless otherwise specified.
 2. Available Products
 - a. Hilti HIT HY 150 Max
 - b. Simpson Acrylic-Tie
 - c. Powers Fasteners AC 100+ Gold
 3. Threaded Rods: ASTM A193
 - a. Nuts: ASTM A563 hex carbon steel
 - b. Washers: ASTM F436 hardened carbon steel
 - c. Finish: Hot-dip zinc coating, ASTM A153, Class C
- H. Inserts

1. Provide metal inserts required for anchorage of materials or equipment to concrete construction where not supplied by other trades:
 - a. In vertical concrete surfaces for transfer of direct shear loads only, provide adjustable wedge inserts of malleable cast iron complete with bolts, nuts and washers.
 - 1) Provide $\frac{3}{4}$ -inch bolt size, unless otherwise indicated.
 - b. In horizontal concrete surfaces and whenever inserts are subject to tension forces, provide threaded inserts of malleable cast iron furnished with full depth bolts.
 - 1) Provide $\frac{3}{4}$ -inch bolt size, unless otherwise indicated.
- I. Concrete Materials
 1. Cementitious Material
 - a. Use the following cementitious materials, of the same type, brand, and source, throughout Project:
 - 1) Portland Cement
 - a) ASTM C150, Type I/II, gray
 - b) Supplement with the following:
 - (1) Fly Ash
 - (a) ASTM C618, Class C or F
 - (2) Ground Granulated Blast-Furnace Slag
 - (a) ASTM C989, Grade 100 or 120.
 - 2) Silica Fume
 - a) ASTM C1240, amorphous silica
 - 3) Normal-Weight Aggregates
 - a) ASTM C33, Class 3S coarse aggregate or better, graded
 - b) Provide aggregates from a single source.
 - 4) Maximum Coarse-Aggregate Size
 - a) $\frac{3}{4}$ -inch nominal
 - 5) Fine Aggregate
 - a) Free of materials with deleterious reactivity to alkali in cement
 - 6) Water
 - a) ASTM C94 and potable
 - J. Admixtures
 1. Air-Entraining Admixture
 - a. ASTM C260
 2. Chemical Admixtures
 - a. Provide admixtures certified by manufacturer to be compatible with other admixtures and that will not contribute water-soluble chloride ions exceeding those permitted in hardened concrete.
 - b. Do not use calcium chloride or admixtures containing calcium chloride.
 - c. Water-Reducing Admixture
 - 1) ASTM C494, Type A
 - d. Retarding Admixture
 - 1) ASTM C494, Type B
 - e. Water-Reducing and Retarding Admixture
 - 1) ASTM C494, Type D
 - f. High-Range, Water-Reducing Admixture
 - 1) ASTM C494, Type F
 - g. High-Range, Water-Reducing and Retarding Admixture

- 1) ASTM C494, Type G
- h. Plasticizing and Retarding Admixture
 - 1) ASTM C1017, Type II

K. Waterstops

- 1. Self-Expanding Butyl Strip Waterstops
 - a. Manufactured rectangular or trapezoidal strip, butyl rubber with sodium bentonite or other hydrophilic polymers, for adhesive bonding to concrete, ¾-inch x 1-inch.
 - b. Available Products
 - 1) Colloid Environmental Technologies Company; Volclay Waterstop-RX
 - 2) Concrete Sealants Inc.; Conseal CS-231
 - 3) Greenstreak; Swellstop
 - 4) Henry Company, Sealants Division; Hydro-Flex
 - 5) JP Specialties, Inc.; Earthshield Type 20
 - 6) Progress Unlimited, Inc.; Superstop
 - 7) TCMiraDRI; Mirastop

L. Curing Materials

- 1. Absorptive Cover
 - a. AASHTO M182, Class 2, burlap cloth made from jute or kenaf, weighing approximately 9 ounces/square yard when dry
- 2. Moisture-Retaining Cover
 - a. ASTM C171, polyethylene film or white burlap-polyethylene sheet
- 3. Water
 - a. Potable
- 4. Clear, Waterborne, Membrane-Forming Curing Compound
 - a. ASTM C309, Type 1, Class B, dissipating
 - b. Available Products
 - 1) Anti-Hydro International, Inc.; AH Curing Compound #2 DR WB
 - 2) Burke by Edoco; Aqua Resin Cure
 - 3) ChemMasters; Safe-Cure Clear
 - 4) Conspec Marketing & Manufacturing Co., Inc., a Dayton Superior Company; W.B. Resin Cure
 - 5) Dayton Superior Corporation; Day Chem Rez Cure (J-11-W)
 - 6) Euclid Chemical Company (The); Kurez DR VOX
 - 7) Kaufman Products, Inc.; Thinfilm 420
 - 8) Lambert Corporation; Aqua Kure-Clear
 - 9) L&M Construction Chemicals, Inc.; L&M Cure R
 - 10) Meadows, W. R., Inc.; 1100 Clear
 - 11) Nox-Crete Products Group, Kinsman Corporation; Resin Cure E
 - 12) Symons Corporation, a Dayton Superior Company; Resi-Chem Clear Cure
 - 13) Tamms Industries, Inc.; Horncure WB 30
 - 14) Unitex; Hydro Cure 309
 - 15) US Mix Products Company; US Spec Maxcure Resin Clear
 - 16) Vexcon Chemicals, Inc.; Certi-Vex Enviocure 100

M. Related Materials

1. Bonding Agent
 - a. ASTM C1059, Type II, non-redispersible, acrylic emulsion or styrene butadiene.
2. Epoxy Bonding Adhesive
 - a. ASTM C881, 2-component epoxy resin, capable of humid curing and bonding to damp surfaces, of class suitable for application temperature and of grade to suit requirements, and as follows:
 - 1) Types I and II, non-load bearing
 - 2) IV and V, load bearing, for bonding
 - 3) Hardened or freshly mixed concrete to hardened concrete
3. Reglets
 - a. Fabricate reglets of not less than 0.0217-inch thick, galvanized steel sheet
 - b. Temporarily fill or cover face opening of reglet to prevent intrusion of concrete or debris.
4. Sleeves and Blockouts
 - a. Formed with galvanized metal, galvanized pipe, polyvinyl chloride pipe, fiber tubes or wood
5. Nails, Spikes, Lag Bolts, Through Bolts, Anchorages
 - a. Sized as required
 - b. Shall be of strength and character to maintain formwork in place while placing concrete

N. Repair Materials

1. Repair Underlayment
 - a. Cement-based, polymer-modified, self-leveling product that can be applied in thicknesses of 1/8 inch or greater
 - 1) Do not feather.
 - b. Cement Binder
 - 1) ASTM C150, portland cement or hydraulic or blended hydraulic cement as defined in ASTM C219
 - c. Primer
 - 1) Product of underlayment manufacturer recommended for substrate, conditions, and application
 - d. Aggregate
 - 1) Well-graded, washed gravel, 1/8 to 1/4 inch or coarse sand as recommended by underlayment manufacturer
 - e. Compressive Strength
 - 1) Not less than 4100 psi at 28 days when tested according to ASTM C109/C109M
2. Repair Overlayment
 - a. Cement-based, polymer-modified, self-leveling product that can be applied in thicknesses of 1/8 inch or greater
 - 1) Do not feather.
 - b. Cement Binder
 - 1) ASTM C150, portland cement or hydraulic or blended hydraulic cement as defined in ASTM C219
 - c. Primer
 - 1) Product of topping manufacturer recommended for substrate, conditions, and application

- d. Aggregate
 - 1) Well-graded, washed gravel, 1/8 to 1/4 inch or coarse sand as recommended by topping manufacturer
- e. Compressive Strength
 - 1) Not less than 5000 psi at 28 days when tested according to ASTM C109

O. Concrete Mixtures, General

- 1. Prepare design mixtures for each type and strength of concrete, proportioned on the basis of laboratory trial mixture or field test data, or both, according to ACI 301.
 - a. Required average strength above specified strength
 - 1) Based on a record of past performance
 - a) Determination of required average strength above specified strength shall be based on the standard deviation record of the results of at least 30 consecutive strength tests in accordance with ACI 318, Chapter 5.3 by the larger amount defined by formulas 5-1 and 5-2.
 - 2) Based on laboratory trial mixtures
 - a) Proportions shall be selected on the basis of laboratory trial batches prepared in accordance with ACI 318, Chapter 5.3.3.2 to produce an average strength greater than the specified strength f'_c by the amount defined in table 5.3.2.2.
 - 3) Proportions of ingredients for concrete mixes shall be determined by an independent testing laboratory or qualified concrete supplier.
 - 4) For each proposed mixture, at least 3 compressive test cylinders shall be made and tested for strength at the specified age.
 - a) Additional cylinders may be made for testing for information at earlier ages.
- 2. Cementitious Materials
 - a. Limit percentage, by weight, of cementitious materials other than portland cement in concrete as follows, unless specified otherwise:
 - 1) Fly Ash: 25 percent
 - 2) Combined Fly Ash and Pozzolan: 25 percent
 - 3) Ground Granulated Blast-Furnace Slag: 50 percent
 - 4) Combined Fly Ash or Pozzolan and Ground Granulated Blast-Furnace Slag: 50 percent
 - 5) Portland cement minimum, with fly ash or pozzolan not exceeding 25 percent
 - 6) Silica Fume: 10 percent
 - 7) Combined Fly Ash, Pozzolans, and Silica Fume: 35 percent with fly ash or pozzolans not exceeding 25 percent and silica fume not exceeding 10 percent
 - 8) Combined Fly Ash or Pozzolans, Ground Granulated Blast-Furnace Slag, and Silica Fume: 50 percent with fly ash or pozzolans not exceeding 25 percent and silica fume not exceeding 10 percent
- 3. Limit water-soluble, chloride-ion content in hardened concrete to:
 - a. 0.30 percent by weight of cement if concrete will have no exposure to chlorides (typical)
 - b. 0.15 percent by weight if concrete will be exposed to chlorides

- c. 1.0 percent by weight if concrete will have no exposure to chlorides and will be continually dry and protected.
- 4. Admixtures
 - a. Use admixtures according to manufacturer's written instructions.
 - b. Do not use admixtures which have not been incorporated and tested in accepted mixes.
 - c. Use water-reducing high-range water-reducing or plasticizing admixture in concrete, as required, for placement and workability.
 - d. Use water-reducing and retarding admixture when required by high temperatures, low humidity or other adverse placement conditions.
 - e. Use water-reducing admixture in pumped concrete, concrete for heavy-use industrial slabs and parking structure slabs, concrete required to be watertight, and concrete with a water-cementitious materials ratio below 0.50.
 - f. Use corrosion-inhibiting admixture in concrete mixtures where indicated.
- P. Concrete Mixtures
 - 1. Refer to ALDOT "Standard Specifications for Highway Construction" for:
 - a. Culverts
 - b. Headwalls
 - c. Wingwalls
 - 2. Proportion normal-weight concrete mixture as follows:
 - a. Minimum Compressive Strength: 3,000 psi at 28 days
 - b. Maximum Water-Cementitious Materials Ratio: 0.50
 - c. Slump Limit: 5 inches or 8 inches for concrete with verified slump of 2 to 4 inches before adding high-range water-reducing admixture or plasticizing admixture, plus or minus 1 inch
 - d. Air Content: 6 percent, plus or minus 1.5 percent at point of delivery for 3/4-inch nominal maximum aggregate size
- Q. Fabricating Reinforcement
 - 1. Fabricate steel reinforcement according to CRSI's "Manual of Standard Practice."
- R. Fabrication of Embedded Metal Assemblies
 - 1. Fabricate metal assemblies in the shop. Holes shall be made by drilling or punching. Holes shall not be made by or enlarged by burning. Welding shall be in accordance with AWS D1.1.
 - 2. Metal assemblies exposed to earth, weather or moisture shall be hot dip galvanized. All other metal assemblies shall be either hot dip galvanized or painted with an epoxy paint. Repair galvanizing after welding with a Cold Galvanizing compound installed in accordance with the manufacturer's instructions. Repair painted assemblies after welding with same type of paint.
- S. Concrete Mixing
 - 1. Ready-Mixed Concrete: Measure, batch, mix, and deliver concrete according to ASTM C94, and furnish batch ticket information.

- a. When air temperature is between 85 and 90 degrees Fahrenheit, reduce mixing and delivery time from 1-1/2 hours to 75 minutes; when air temperature is above 90 degrees Fahrenheit, reduce mixing and delivery time to 60 minutes.
2. Project-Site Mixing: Measure, batch, and mix concrete materials and concrete according to ASTM C94/C94M. Mix concrete materials in appropriate drum-type batch machine mixer.
 - a. For mixer capacity of 1 cubic yard or smaller, continue mixing at least 1-1/2 minutes, but not more than 5 minutes after ingredients are in mixer, before any part of batch is released.
 - b. For mixer capacity larger than 1 cubic yard, increase mixing time by 15 seconds for each additional 1 cubic yard.
 - c. Provide batch ticket for each batch discharged and used in the Work, indicating Project identification name and number, date, mixture type, mixture time, quantity, and amount of water added. Record approximate location of final deposit in structure.

2.3 ACCESSORIES [NOT USED]

2.4 SOURCE QUALITY CONTROL [NOT USED]

PART 3 - EXECUTION

3.1 INSTALLERS [NOT USED]

3.2 EXAMINATION [NOT USED]

3.3 PREPARATION [NOT USED]

3.4 INSTALLATION

A. Formwork

1. Design, erect, shore, brace, and maintain formwork, according to ACI 301, to support vertical, lateral, static, and dynamic loads, and construction loads that might be applied, until structure can support such loads.
2. Construct formwork so concrete members and structures are of size, shape, alignment, elevation, and position indicated, within tolerance limits of ACI 117.
 - a. Vertical alignment
 - 1) Lines, surfaces and arises less than 100 feet in height - 1 inch.
 - 2) Outside corner of exposed corner columns and control joints in concrete exposed to view less than 100 feet in height - 1/2 inch.
 - 3) Lines, surfaces and arises greater than 100 feet in height - 1/1000 times the height but not more than 6 inches.
 - 4) Outside corner of exposed corner columns and control joints in concrete exposed to view greater than 100 feet in height - 1/2000 times the height but not more than 3 inches.
 - b. Lateral alignment
 - 1) Members - 1 inch.
 - 2) Centerline of openings 12 inches or smaller and edge location of larger openings in slabs - 1/2 inch.

- 3) Sawcuts, joints, and weakened plane embedments in slabs - 3/4 inch.
- c. Level alignment
 - 1) Elevation of slabs-on-grade - 3/4 inch.
 - 2) Elevation of top surfaces of formed slabs before removal of shores - 3/4 inch.
 - 3) Elevation of formed surfaces before removal of shores - 3/4 inch.
- d. Cross-sectional dimensions: Overall dimensions of beams, joists, and columns and thickness of walls and slabs.
 - 1) 12 inch dimension or less - plus 1/2 inch to minus 1/4 inch.
 - 2) Greater than 12 inch to 3 foot dimension - plus 1/2 inch to minus 3/8 inch.
 - 3) Greater than 3 foot dimension - plus 1 inch to minus 3/4 inch.
- e. Relative alignment
 - 1) Stairs
 - a) Difference in height between adjacent risers - 1/8 inch.
 - b) Difference in width between adjacent treads - 1/4 inch.
 - c) Maximum difference in height between risers in a flight of stairs - 3/8 inch.
 - d) Maximum difference in width between treads in a flight of stairs - 3/8 inch.
 - 2) Grooves
 - a) Specified width 2 inches or less - 1/8 inch.
 - b) Specified width between 2 inches and 12 inches - 1/4 inch.
 - 3) Vertical alignment of outside corner of exposed corner columns and control joint grooves in concrete exposed to view - 1/4 inch in 10 feet.
 - 4) All other conditions - 3/8 inch in 10 feet.
3. Limit concrete surface irregularities, designated by ACI 347R as abrupt or gradual, as follows:
 - a. Class B, 1/4 inch for smooth-formed finished surfaces.
 - b. Class C, 1/2 inch for rough-formed finished surfaces.
4. Construct forms tight enough to prevent loss of concrete mortar.
5. Fabricate forms for easy removal without hammering or prying against concrete surfaces. Provide crush or wrecking plates where stripping may damage cast concrete surfaces. Provide top forms for inclined surfaces steeper than 1.5 horizontal to 1 vertical.
 - a. Install keyways, reglets, recesses, and the like, for easy removal.
 - b. Do not use rust-stained steel form-facing material.
6. Set edge forms, bulkheads, and intermediate screed strips for slabs to achieve required elevations and slopes in finished concrete surfaces. Provide and secure units to support screed strips; use strike-off templates or compacting-type screeds.
7. Construct formwork to cambers shown or specified on the Drawings to allow for structural deflection of the hardened concrete. Provide additional elevation or camber in formwork as required for anticipated formwork deflections due to weight and pressures of concrete and construction loads.

8. Foundation Elements: Form the sides of all below grade portions of beams, pier caps, walls, and columns straight and to the lines and grades specified. Do no earth form foundation elements unless specifically indicated on the Drawings.
 9. Provide temporary openings for cleanouts and inspection ports where interior area of formwork is inaccessible. Close openings with panels tightly fitted to forms and securely braced to prevent loss of concrete mortar. Locate temporary openings in forms at inconspicuous locations.
 10. Chamfer exterior corners and edges of permanently exposed concrete.
 11. Form openings, chases, offsets, sinkages, keyways, reglets, blocking, screeds, and bulkheads required in the Work. Determine sizes and locations from trades providing such items.
 12. Clean forms and adjacent surfaces to receive concrete. Remove chips, wood, sawdust, dirt, and other debris just before placing concrete.
 13. Retighten forms and bracing before placing concrete, as required, to prevent mortar leaks and maintain proper alignment.
 14. Coat contact surfaces of forms with form-release agent, according to manufacturer's written instructions, before placing reinforcement, anchoring devices, and embedded items.
 - a. Do not apply form release agent where concrete surfaces are scheduled to receive subsequent finishes which may be affected by agent. Soak contact surfaces of untreated forms with clean water. Keep surfaces wet prior to placing concrete.
- B. Embedded Items
1. Place and secure anchorage devices and other embedded items required for adjoining work that is attached to or supported by cast-in-place concrete. Use setting drawings, templates, diagrams, instructions, and directions furnished with items to be embedded.
 - a. Install anchor rods, accurately located, to elevations required and complying with tolerances in AISC 303, Section 7.5.
 - 1) Spacing within a bolt group: 1/8 inch
 - 2) Location of bolt group (center): 1/2 inch
 - 3) Rotation of bolt group: 5 degrees
 - 4) Angle off vertical: 5 degrees
 - 5) Bolt projection: ± 3/8 inch
 - b. Install reglets to receive waterproofing and to receive through-wall flashings in outer face of concrete frame at exterior walls, where flashing is shown at lintels, shelf angles, and other conditions.
- C. Removing and Reusing Forms
1. Do not backfill prior to concrete attaining 70 percent of its 28-day design compressive strength.
 2. General: Formwork for sides of beams, walls, columns, and similar parts of the Work that does not support weight of concrete may be removed after cumulatively curing at not less than 50 degrees Fahrenheit for 24 hours after placing concrete, if concrete is hard enough to not be damaged by form-removal operations and curing and protection operations are maintained.

- a. Leave formwork for beam soffits, joists, slabs, and other structural elements that supports weight of concrete in place until concrete has achieved at least 70 percent of its 28-day design compressive strength.
 - b. Do not remove formwork supporting conventionally reinforced concrete until concrete has attained 70 percent of its specified 28-day compressive strength as established by tests of field cured cylinders. In the absence of cylinder tests, supporting formwork shall remain in place until the concrete has cured at a temperature of at least 50 degrees Fahrenheit for the minimum cumulative time periods given in ACI 347, Section 3.7.2.3. Add the period of time when the surrounding air temperature is below 50 degrees Fahrenheit, to the minimum listed time period. Formwork for 2-way conventionally reinforced slabs shall remain in place for at least the minimum cumulative time periods specified for 1-way slabs of the same maximum span.
 - c. Immediately reshore 2-way conventionally reinforced slabs after formwork removal. Reshores shall remain until the concrete has attained the specified 28-day compressive strength.
 - d. Minimum cumulative curing times may be reduced by the use of high-early strength cement or forming systems which allow form removal without disturbing shores, but only after the Contractor has demonstrated to the satisfaction of the Engineer that the early removal of forms will not cause excessive sag, distortion or damage to the concrete elements.
 - e. Completely remove wood forms. Provide temporary openings if required.
 - f. Provide adequate methods of curing and thermal protection of exposed concrete if forms are removed prior to completion of specified curing time.
 - g. Reshore areas required to support construction loads in excess of 20 pounds per square foot to properly distribute construction loading. Construction loads up to the rated live load capacity may be placed on unshored construction provided the concrete has attained the specified 28-day compressive strength.
 - h. Obtaining concrete compressive strength tests for the purposes of form removal is the responsibility of the Contractor.
 - i. Remove forms only if shores have been arranged to permit removal of forms without loosening or disturbing shores.
3. Clean and repair surfaces of forms to be reused in the Work. Split, frayed, delaminated, or otherwise damaged form-facing material will not be acceptable for exposed surfaces. Apply new form-release agent.
 4. When forms are reused, clean surfaces, remove fins and laitance, and tighten to close joints. Align and secure joints to avoid offsets. Do not use patched forms for exposed concrete surfaces unless approved by Engineer.
- D. Shores and Reshores
1. The Contractor is solely responsible for proper shoring and reshoring.
 2. Comply with ACI 318 and ACI 301 for design, installation, and removal of shoring and reshoring.
 - a. Do not remove shoring or reshoring until measurement of slab tolerances is complete.

3. Plan sequence of removal of shores and reshore to avoid damage to concrete. Locate and provide adequate reshoring to support construction without excessive stress or deflection.

E. Steel Reinforcement

1. General: Comply with CRSI's "Manual of Standard Practice" for placing reinforcement.
 - a. Do not cut or puncture vapor retarder. Repair damage and reseal vapor retarder before placing concrete.
2. Clean reinforcement of loose rust and mill scale, earth, ice, and other foreign materials that would reduce bond to concrete.
3. Accurately position, support, and secure reinforcement against displacement. Locate and support reinforcement with bar supports to maintain minimum concrete cover. Do not tack weld crossing reinforcing bars.
 - a. Weld reinforcing bars according to AWS D1.4, where indicated. Only steel conforming to ASTM A706 may be welded.
4. Installation tolerances
 - a. Top and bottom bars in slabs, girders, beams and joists:
 - 1) Members 8 inches deep or less: $\pm 3/8$ inch
 - 2) Members more than 8 inches deep: $\pm 1/2$ inch
 - b. Concrete Cover to Formed or Finished Surfaces: $\pm 3/8$ inches for members 8 inches deep or less; $\pm 1/2$ inches for members over 8 inches deep, except that tolerance for cover shall not exceed $1/3$ of the specified cover.
5. Concrete Cover
 - a. Reinforcing in structural elements deposited against the ground: 3 inches
 - b. Reinforcing in formed beams, columns and girders: 1-1/2 inches
 - c. Grade beams and exterior face of formed walls and columns exposed to weather or in contact with the ground: 2 inches
 - d. Interior faces of walls: 1 inches
 - e. Slabs: 3/4 inches
6. Splices: Provide standard reinforcement splices by lapping and tying ends. Comply with ACI 318 for minimum lap of spliced bars where not specified on the documents. Do not lap splice no. 14 and 18 bars.
7. Field Welding of Embedded Metal Assemblies
 - a. Remove all paint and galvanizing in areas to receive field welds.
 - b. Field Prepare all areas where paint or galvanizing has been removed with the specified paint or cold galvanizing compound, respectively.

F. Joints

1. General: Construct joints true to line with faces perpendicular to surface plane of concrete.
2. Construction Joints: Install so strength and appearance of concrete are not impaired, at locations indicated or as approved by Engineer.

- a. Place joints perpendicular to main reinforcement. Continue reinforcement across construction joints, unless otherwise indicated. Do not continue reinforcement through sides of strip placements of floors and slabs.
 - b. Form keyed joints as indicated. Embed keys at least 1-1/2 inches into concrete.
 - c. Locate joints for beams, slabs, joists, and girders in the middle third of spans. Offset joints in girders a minimum distance of twice the beam width from a beam-girder intersection.
 - d. Locate horizontal joints in walls and columns at underside of floors, slabs, beams, and girders and at the top of footings or floor slabs.
 - e. Space vertical joints in walls as indicated. Locate joints beside piers integral with walls, near corners, and in concealed locations where possible.
 - f. Use a bonding agent at locations where fresh concrete is placed against hardened or partially hardened concrete surfaces.
3. Doweled Joints: Install dowel bars and support assemblies at joints where indicated. Lubricate or asphalt coat 1-1/2 of dowel length to prevent concrete bonding to 1 side of joint.

G. Waterstops

1. Flexible Waterstops: Install in construction joints and at other joints indicated to form a continuous diaphragm. Install in longest lengths practicable. Support and protect exposed waterstops during progress of the Work. Field fabricate joints in waterstops according to manufacturer's written instructions.
2. Self-Expanding Strip Waterstops: Install in construction joints and at other locations indicated, according to manufacturer's written instructions, adhesive bonding, mechanically fastening, and firmly pressing into place. Install in longest lengths practicable.

H. Adhesive Anchors

1. Comply with the manufacturer's installation instructions on the hole diameter and depth required to fully develop the tensile strength of the adhesive anchor or reinforcing bar.
2. Properly clean out the hole utilizing a wire brush and compressed air to remove all loose material from the hole, prior to installing adhesive material.

I. Concrete Placement

1. Before placing concrete, verify that installation of formwork, reinforcement, and embedded items is complete and that required inspections have been performed.
2. Do not add water to concrete during delivery, at Project site, or during placement unless approved by Engineer.
3. Before test sampling and placing concrete, water may be added at Project site, subject to limitations of ACI 301.
 - a. Do not add water to concrete after adding high-range water-reducing admixtures to mixture.
 - b. Do not exceed the maximum specified water/cement ratio for the mix.

4. Deposit concrete continuously in 1 layer or in horizontal layers of such thickness that no new concrete will be placed on concrete that has hardened enough to cause seams or planes of weakness. If a section cannot be placed continuously, provide construction joints as indicated. Deposit concrete to avoid segregation.
 - a. Deposit concrete in horizontal layers of depth to not exceed formwork design pressures, 15 feet maximum and in a manner to avoid inclined construction joints.
 - b. Consolidate placed concrete with mechanical vibrating equipment according to ACI 301.
 - c. Do not use vibrators to transport concrete inside forms. Insert and withdraw vibrators vertically at uniformly spaced locations to rapidly penetrate placed layer and at least 6 inches into preceding layer. Do not insert vibrators into lower layers of concrete that have begun to lose plasticity. At each insertion, limit duration of vibration to time necessary to consolidate concrete and complete embedment of reinforcement and other embedded items without causing mixture constituents to segregate.
 - d. Do not permit concrete to drop freely any distance greater than 10 feet for concrete containing a high range water reducing admixture (superplasticizer) or 5 feet for other concrete. Provide chute or tremie to place concrete where longer drops are necessary. Do not place concrete into excavations with standing water. If place of deposit cannot be pumped dry, pour concrete through a tremie with its outlet near the bottom of the place of deposit.
 - e. Discard pump priming grout and do not use in the structure.
5. Deposit and consolidate concrete for floors and slabs in a continuous operation, within limits of construction joints, until placement of a panel or section is complete.
 - a. Consolidate concrete during placement operations so concrete is thoroughly worked around reinforcement and other embedded items and into corners.
 - b. Maintain reinforcement in position on chairs during concrete placement.
 - c. Screed slab surfaces with a straightedge and strike off to correct elevations.
 - d. Slope surfaces uniformly to drains where required.
 - e. Begin initial floating using bull floats or darbies to form a uniform and open-textured surface plane, before excess bleedwater appears on the surface. Do not further disturb slab surfaces before starting finishing operations.
6. Cold-Weather Placement: Comply with ACI 306.1 and as follows. Protect concrete work from physical damage or reduced strength that could be caused by frost, freezing actions, or low temperatures.
 - a. When average high and low temperature is expected to fall below 40 degrees Fahrenheit for 3 successive days, maintain delivered concrete mixture temperature within the temperature range required by ACI 301.
 - b. Do not use frozen materials or materials containing ice or snow. Do not place concrete on frozen subgrade or on subgrade containing frozen materials.

- c. Do not use calcium chloride, salt, or other materials containing antifreeze agents or chemical accelerators unless otherwise specified and approved in mixture designs.
 7. Hot-Weather Placement: Comply with ACI 305.1 and as follows:
 - a. Maintain concrete temperature below 95 degrees Fahrenheit at time of placement. Chilled mixing water or chopped ice may be used to control temperature, provided water equivalent of ice is calculated to total amount of mixing water. Using liquid nitrogen to cool concrete is Contractor's option.
 - b. Fog-spray forms, steel reinforcement, and subgrade just before placing concrete. Keep subgrade uniformly moist without standing water, soft spots, or dry areas.
- J. Finishing Formed Surfaces
 1. Rough-Formed Finish: As-cast concrete texture imparted by form-facing material with tie holes and defects repaired and patched. Remove fins and other projections that exceed specified limits on formed-surface irregularities.
 - a. Apply to concrete surfaces not exposed to public view.
 2. Related Unformed Surfaces: At tops of walls, horizontal offsets, and similar unformed surfaces adjacent to formed surfaces, strike off smooth and finish with a texture matching adjacent formed surfaces. Continue final surface treatment of formed surfaces uniformly across adjacent unformed surfaces, unless otherwise indicated.
- K. Miscellaneous Concrete Items
 1. Filling In: Fill in holes and openings left in concrete structures, unless otherwise indicated, after work of other trades is in place. Mix, place, and cure concrete, as specified, to blend with in-place construction. Provide other miscellaneous concrete filling indicated or required to complete the Work.
 2. Curbs: Provide monolithic finish to interior curbs by stripping forms while concrete is still green and by steel-troweling surfaces to a hard, dense finish with corners, intersections, and terminations slightly rounded.
 3. Equipment Bases and Foundations: Provide machine and equipment bases and foundations as shown on Drawings. Set anchor bolts for machines and equipment at correct elevations, complying with diagrams or templates from manufacturer furnishing machines and equipment.
 - a. Housekeeping pads: Normal weight concrete (3000 psi), reinforced with #3@16 inches on center set at middepth of pad. Trowel concrete to a dense, smooth finish. Set anchor bolts for securing mechanical or electrical equipment during pouring of concrete fill.
 4. Protective slabs ("Mud slabs"): Normal weight concrete (2500 psi minimum) with a minimum thickness of 3-1/2 inches. Finish slab to a wood float finish.
- L. Concrete Protecting and Curing
 1. General: Protect freshly placed concrete from premature drying and excessive cold or hot temperatures. Comply with ACI 306.1 for cold-weather protection and ACI 305.1 for hot-weather protection during curing.

2. Formed Surfaces: Cure formed concrete surfaces, including underside of beams, supported slabs, and other similar surfaces. If forms remain during curing period, moist cure after loosening forms. If removing forms before end of curing period, continue curing for the remainder of the curing period.
3. Unformed Surfaces: Begin curing immediately after finishing concrete. Cure unformed surfaces, including floors and slabs, concrete floor toppings, and other surfaces.
4. Cure concrete according to ACI 308.1, by 1 or a combination of the following methods:
 - a. Moisture Curing: Keep surfaces continuously moist for not less than 7 days with the following materials:
 - 1) Water
 - 2) Continuous water-fog spray
 - 3) Absorptive cover, water saturated, and kept continuously wet.
Cover concrete surfaces and edges with 12-inch lap over adjacent absorptive covers
 - b. Moisture-Retaining-Cover Curing: Cover concrete surfaces with moisture-retaining cover for curing concrete, placed in widest practicable width, with sides and ends lapped at least 12 inches, and sealed by waterproof tape or adhesive. Cure for not less than 7 days. Immediately repair any holes or tears during curing period using cover material and waterproof tape.
 - 1) Moisture cure or use moisture-retaining covers to cure concrete surfaces to receive floor coverings.
 - 2) Moisture cure or use moisture-retaining covers to cure concrete surfaces to receive penetrating liquid floor treatments.
 - 3) Cure concrete surfaces to receive floor coverings with either a moisture-retaining cover or a curing compound that the manufacturer certifies will not interfere with bonding of floor covering used on Project.
 - c. Curing Compound: Apply uniformly in continuous operation by power spray or roller according to manufacturer's written instructions. Recoat areas subjected to heavy rainfall within 3 hours after initial application. Maintain continuity of coating and repair damage during curing period.

3.5 REPAIR

A. Concrete Surface Repairs

1. Defective Concrete: Repair and patch defective areas when approved by Engineer. Remove and replace concrete that cannot be repaired and patched to Engineer's approval.
2. Patching Mortar: Mix dry-pack patching mortar, consisting of 1 part portland cement to 2-1/2 parts fine aggregate passing a No. 16 sieve, using only enough water for handling and placing.
3. Repairing Formed Surfaces: Surface defects include color and texture irregularities, cracks, spalls, air bubbles, honeycombs, rock pockets, fins and other projections on the surface, and stains and other discolorations that cannot be removed by cleaning.

- a. Immediately after form removal, cut-out honeycombs, rock pockets, and voids more than 1/2 inch in any dimension in solid concrete, but not less than 1 inch in depth. Make edges of cuts perpendicular to concrete surface. Clean, dampen with water, and brush-coat holes and voids with bonding agent. Fill and compact with patching mortar before bonding agent has dried. Fill form-tie voids with patching mortar or cone plugs secured in place with bonding agent.
 - b. Repair defects on surfaces exposed to view by blending white portland cement and standard portland cement so that, when dry, patching mortar will match surrounding color. Patch a test area at inconspicuous locations to verify mixture and color match before proceeding with patching. Compact mortar in place and strike off slightly higher than surrounding surface.
 - c. Repair defects on concealed formed surfaces that affect concrete's durability and structural performance as determined by Engineer.
4. Repairing Unformed Surfaces: Test unformed surfaces, such as floors and slabs, for finish and verify surface tolerances specified for each surface. Correct low and high areas. Test surfaces sloped to drain for trueness of slope and smoothness; use a sloped template.
- a. Repair finished surfaces containing defects. Surface defects include spalls, pop outs, honeycombs, rock pockets, crazing and cracks in excess of 0.01 inch wide or that penetrate to reinforcement or completely through unreinforced sections regardless of width, and other objectionable conditions.
 - b. After concrete has cured at least 14 days, correct high areas by grinding.
 - c. Correct localized low areas during or immediately after completing surface finishing operations by cutting out low areas and replacing with patching mortar. Finish repaired areas to blend into adjacent concrete.
 - d. Repair defective areas, except random cracks and single holes 1 inch or less in diameter, by cutting out and replacing with fresh concrete. Remove defective areas with clean, square cuts and expose steel reinforcement with at least a 3/4-inch clearance all around. Dampen concrete surfaces in contact with patching concrete and apply bonding agent. Mix patching concrete of same materials and mixture as original concrete except without coarse aggregate. Place, compact, and finish to blend with adjacent finished concrete. Cure in same manner as adjacent concrete.
 - e. Repair random cracks and single holes 1 inch or less in diameter with patching mortar. Groove top of cracks and cut out holes to sound concrete and clean off dust, dirt, and loose particles. Dampen cleaned concrete surfaces and apply bonding agent. Place patching mortar before bonding agent has dried. Compact patching mortar and finish to match adjacent concrete. Keep patched area continuously moist for at least 72 hours.
5. Perform structural repairs of concrete, subject to Engineer's approval, using epoxy adhesive and patching mortar.
6. Repair materials and installation not specified above may be used, subject to Engineer's approval.

3.6 RE-INSTALLATION [NOT USED]

3.7 FIELD QUALITY CONTROL

- A. Tests by the Contractor
 - 1. Contractor shall perform quality control testing as required to verify Work is in compliance with the Contract Documents.
- B. Testing and Inspecting by Owner: Owner will engage a special inspector and qualified testing and inspecting agency to perform field tests and inspections and prepare test reports.
- C. Inspections
 - 1. Steel reinforcement placement
 - 2. Headed bolts and studs
 - 3. Verification of use of required design mixture
 - 4. Concrete placement, including conveying and depositing
 - 5. Curing procedures and maintenance of curing temperature
 - 6. Verification of concrete strength before removal of shores and forms from beams and slabs
- D. Concrete Tests: Perform testing of composite samples of fresh concrete obtained according to ASTM C172 according to the following requirements:
 - 1. Testing Frequency: Obtain 1 composite sample for each day's pour of each concrete mixture exceeding 5 cubic yard, but less than 25 cubic yard, plus 1 set for each additional 50 cubic yard or fraction thereof.
 - 2. Slump: ASTM C143; 1 test at point of placement for each composite sample, but not less than 1 test for each day's pour of each concrete mixture. Perform additional tests when concrete consistency appears to change.
 - 3. Air Content: ASTM C231, pressure method, for normal-weight concrete; 1 test for each composite sample, but not less than 1 test for each day's pour of each concrete mixture.
 - 4. Concrete Temperature: ASTM C1064; 1 test hourly when air temperature is 40 degrees Fahrenheit and below and when 80 degrees Fahrenheit and above, and 1 test for each composite sample.
 - 5. Compression Test Specimens: ASTM C31.
 - a. Cast and laboratory cure 4 cylinders for each composite sample.
 - 1) Do not transport field cast cylinders until they have cured for a minimum of 24 hours.
 - 6. Compressive-Strength Tests: ASTM C39;
 - a. Test 1 cylinder at 7 days.
 - b. Test 2 cylinders at 28 days.
 - c. Hold 1 cylinder for testing at 56 days as needed.
 - 7. When strength of field-cured cylinders is less than 85 percent of companion laboratory-cured cylinders, evaluate operations and provide corrective procedures for protecting and curing in-place concrete.

8. Strength of each concrete mixture will be satisfactory if every average of any 3 consecutive compressive-strength tests equals or exceeds specified compressive strength and no compressive-strength test value falls below specified compressive strength by more than 500 psi.
 9. Report test results in writing to Engineer, concrete manufacturer, and Contractor within 48 hours of testing. Reports of compressive-strength tests shall contain Project identification name and number, date of concrete placement, name of concrete testing and inspecting agency, location of concrete batch in Work, design compressive strength at 28 days, concrete mixture proportions and materials, compressive breaking strength, and type of break for both 7- and 28-day tests.
 10. Additional Tests: Testing and inspecting agency shall make additional tests of concrete when test results indicate that slump, air entrainment, compressive strengths, or other requirements have not been met, as directed by Engineer. Testing and inspecting agency may conduct tests to determine adequacy of concrete by cored cylinders complying with ASTM C42 or by other methods as directed by Engineer.
 - a. When the strength level of the concrete for any portion of the structure, as indicated by cylinder tests, falls below the specified requirements, provide improved curing conditions and/or adjustments to the mix design as required to obtain the required strength. If the average strength of the laboratory control cylinders falls so low as to be deemed unacceptable, follow the core test procedure set forth in ACI 301, Chapter 17. Locations of core tests shall be approved by the Engineer. Core sampling and testing shall be at Contractor's expense.
 - b. If the results of the core tests indicate that the strength of the structure is inadequate, any replacement, load testing, or strengthening as may be ordered by the Engineer shall be provided by the Contractor without cost to the Owner.
 11. Additional testing and inspecting, at Contractor's expense, will be performed to determine compliance of replaced or additional work with specified requirements.
 12. Correct deficiencies in the Work that test reports and inspections indicate does not comply with the Contract Documents.
- E. Measure floor and slab flatness and levelness according to ASTM E1155 within 48 hours of finishing.
- F. Concrete Finish Measurement and Tolerances
1. All floors are subject to measurement for flatness and levelness and comply with the following:
 - a. Slabs shall be flat within a tolerance of 5/16 inches in 10 feet when tested with a 10 foot long straightedge. Apply straightedge to the slab at 3 foot intervals in both directions, lapping straightedge 3 feet on areas previously checked. Low spots shall not exceed the above dimension anywhere along the straightedge. Flatness shall be checked the next work day after finishing.
 - b. Slabs shall be level within a tolerance of $\pm 1/4$ inch in 10 feet, not to exceed 3/4 inches total variation, anywhere on the floor, from elevations indicated on the Drawings. Levelness shall be checked on a 10 foot grid using a level after removal of forms.

- c. Measurement Standard: All floors are subject to measurement for flatness and levelness, according to ASTM E1155.
2. 2 Tiered Measurement Standard
 - a. Each floor test section and the overall floor area shall conform to the 2-tiered measurement standard as specified herein.
 - 1) Minimum Local Value: The minimum local FF/FL values represent the absolute minimum surface profile that will be acceptable for any 1 test sample (line of measurements) anywhere within the test area.
 - 2) Specified Overall Value: The specified overall FF/FL values represent the minimum values acceptable for individual floor sections as well as the floor as a whole.
3. Floor Test Sections
 - a. A floor test section is defined as the smaller of the following areas:
 - 1) The area bounded by column and/or wall lines
 - 2) The area bounded by construction and/or control joint lines
 - 3) Any combination of column lines and/or control joint lines
 - b. Test sample measurement lines within each test section shall be multidirectional along 2 orthogonal lines, as defined by ASTM E1155, at a spacing to be determined by the Engineer.
 - c. The precise layout of each test section shall be determined by the Engineer.
4. Concrete Floor Finish Tolerance
 - a. The following values apply before removal of shores. Levelness values (FL) do not apply to intentionally sloped or cambered areas, nor to slabs poured on metal deck or precast concrete.
 - 1) Slabs

Overall Value	FF45/FL30
Minimum Local Value	FF30/FL20
5. Floor Elevation Tolerance Envelope
 - a. The acceptable tolerance envelope for absolute elevation of any point on the slab surface, with respect to the elevation shown on the Drawings, is as follows:
 - 1) Slab-on-Grade Construction: $\pm \frac{3}{4}$ inch
 - 2) Top surfaces of formed slabs measured prior to removal of supporting shores: $\pm \frac{3}{4}$ inch
 - 3) Top surfaces of all other slabs: $\pm \frac{3}{4}$ inch
 - 4) Slabs specified to slope shall have a tolerance from the specified slope of $\frac{3}{8}$ inch in 10 feet at any point, up to $\frac{3}{4}$ inch from theoretical elevation at any point.

G. Testing by the Owner does not relieve the Contractor's responsibility to complete the Work in accordance with the Contract Documents and passing tests shall not be considered acceptance by the Owner.

3.8 SYSTEM STARTUP [NOT USED]

3.9 ADJUSTING [NOT USED]

3.10 CLEANING

A. Defective Work

1. Imperfect or damaged work or any material damaged or determined to be defective before final completion and acceptance of the entire job shall be satisfactorily replaced at the Contractor's expense, and in conformity with all of the requirements of the Drawings and Specifications.
2. Perform removal and replacement of concrete work in such manner as not to impair the appearance or strength of the structure in any way.

B. Cleaning

1. Upon completion of the work remove from the site all forms, equipment, protective coverings and any rubbish resulting therefrom.
2. After sweeping floors, wash floors with clean water.
3. Leave finished concrete surfaces in a clean condition, satisfactory to the Owner.

3.11 CLOSEOUT ACTIVITIES [NOT USED]

3.12 PROTECTION [NOT USED]

3.13 MAINTENANCE [NOT USED]

3.14 ATTACHMENTS [NOT USED]

END OF SECTION 033000

SECTION 329100
PLAYING FIELD CONSTRUCTION

PART 1 – GENERAL

1.1 SUMMARY

- A. Furnish all labor, materials, facilities, transportation, and services to complete all playing field construction and related work as shown on the Drawings and specified herein.
- B. Scope of work: The general extent of the playing fields are shown on the Drawings and can include, but may not be limited to the following:
 - 1. Placement of a uniform depth of topsoil on prepared subgrade (herein after referred to as the “Topsoil”).
 - 2. Placement of uniform 6” depth of infield clay on prepared sub-grade.
 - 3. Incorporation of pre-plant fertilizer into the topsoil.
 - 4. Establishment and Verification of Finish Grade.

1.2 RELATED SECTIONS

- A. Drawings and general provision of the Contract, including General and Supplementary Conditions and applicable Division One and Division Two Specifications sections, apply to work of this section.

1.3 REFERENCES AND REGULATORY REQUIREMENTS

- A. American Society for Testing and Materials (ASTM)
 - 1. ASTM C136 – Sieve Analysis of Fine & Coarse Aggregates
 - 2. ASTM – D3665 – Random Sampling of Construction Materials
 - 3. ASTM D854 – Specific Gravity of Soils
 - 4. ASTM D2974 – Standard Test Method for Moisture, Ash and Organic Matter of Peat and Other Organic Soils
 - 5. ASTM F1632 – Standard Test Method for Particle Size Analysis and Sand Shape Grading Putting Greens and Sports Field Root Zone Mixes
 - 6. ASTM F1647 – Standard Test Method for Organic Matter Content of Putting Greens and Sports Field Root Zone Mixes (Method B)

1.4 SUBMITTALS

- A. Conform to requirements of applicable Division One and Contract specifications, General Conditions and Special Conditions.
- B. Bidder Qualifications: Contractor shall be actively and directly engaged in constructing native soil natural grass athletic fields for a period of five (5) or more years. Provide proof of three (3) such installations that have been in use for three (3) or more years.

1. Projected Schedule: All contractors shall submit a proposed schedule for the project.
- C. Existing Topsoil Material Samples: Contractor shall submit to Owner's Testing Agent a one-gallon sample of existing topsoil from the field. This sample shall be a composite sample taken from five different locations evenly spread around existing field. Thoroughly mix the material after all samples are taken. Remove one gallon out of the bucket to fill a zip-lock bag. Double bag the composite sample. Label the composite sample appropriately with a permanent marker.
- D. Imported Topsoil Material Samples: Contractor shall submit to Owner's Testing Agent a one-gallon sample of topsoil to be imported. This sample shall be a composite sample taken from the respective stockpiled material allocated for this work. Thoroughly mix the material after all samples are taken. Remove one gallon out of the bucket to fill a zip-lock bag. Double bag the composite sample. Label the composite sample appropriately with a permanent marker indicating from which stockpile the sample was taken. Contractor shall maintain a photographic record of the sampled stockpile.
- E. The Owner's Testing Agent will evaluate this material using the appropriate testing protocols to determine nutrient content of the soil.
- F. Certificates: Submit "cut-sheets" or other product literature showing certified chemical analysis of the following:
 1. All infield clay, fertilizers, soil amendments, herbicides.

1.5 DELIVERY, STORAGE, AND HANDLING

- A. General:
 1. Handle and store all products of this Section in such a manner as to protect them from damage at all times.
 2. Storage of products on-site be coordinated by the contractor in an orderly manner so as not to unnecessarily impede the work or reasonable use of the project site.
- B. Fertilizers:
 1. Deliver in original, unopened containers with original labels intact and legible which state the guaranteed chemical analysis.
- C. Bulk Material:
 1. Coordinate delivery and storage of bulk material with Owner's Representative.
 2. Confine materials to neat piles in areas acceptable to Owner's Representative.

1.6 PROJECT / SITE CONDITIONS

- A. Comply with the environmental protection and safety requirements of the Owner and all governmental authorities having jurisdiction. Keep dust to a minimum. Maintain streets and walks free of mud, dirt, and debris.
- B. Restoration of Damaged Property: When or where in the execution of the work under this contract, any direct or indirect damage injury is done to public or private property by

or on account of any act, omission, neglect, or misconduct, the Contractor, at no additional cost to the Owner, shall restore the damaged property to a condition equal to that existing before damage or injury was done. Repair, rebuild or otherwise restore property as directed or make good such damage or injury in an acceptable manner.

- C. Playing Field Construction operations shall not be conducted under the following conditions:
 - 1. Freezing weather
 - 2. High winds
 - 3. Excessively wet conditions.
- D. Construction Surveying: The Contractor shall be responsible for all construction surveying required for the proper location of all work covered hereunder. The Contractor shall provide survey services to perform the final grade conformance survey. Any required additional survey costs shall be paid by the contractor.
- E. The Playing Field subgrade shall be a smooth, clean basin free of any debris and/or loose soil to the tolerances specified.

1.7 GUARANTY

- A. All work executed and all materials provided under or used under this Section shall be guaranteed to be free of defects and poor workmanship as set forth in the contract documents.
- B. Repair all defective materials and work as acceptable to the Owner's Representative during guaranty period.

PART 2 – PRODUCTS

2.1 TOPSOIL MATERIALS

- A. Topsoil for Playing Fields
 - 1. Topsoil shall be a natural friable soil, possessing characteristics of representative productive soils in the vicinity from which it is obtained.
 - 2. Topsoil shall be classified according to the USDA soil textural classification. USDA definitions are as follows:
 - Sand – 270 mesh (0.05 mm) to 18 mesh (1.0 mm)
 - Silt – 0.002 mm to 0.05 mm
 - Clay - < 0.002 mm
 - 3. The soil shall meet classification requirements for a sandy loam to silt loam texture. Soils approved for use in specific planting areas shall remain consistent in sand, silt, and clay composition.
 - 4. The topsoil shall be free from subsoil, clay lumps, stones or similar objects larger the 3/8" in greatest diameter, brush, stumps, roots, objectionable weeds or litter, excess acid or alkali or any other material or substance which may be harmful to plant

growth or in hindrance to subsequent smooth grading, planting, and maintenance operations. Foreign material shall not exceed 2% by volume or weight. Texture to be defined by % sand, % clay, and % silt taken from sample material provided for testing.

5. The source of topsoil shall be the existing soil on the site and currently and on the playing fields. If additional is required, the stockpiled source should be made known to the Landscape Architect. The topsoil shall be stockpiled and tested and approved prior to placement on the site. Consistent composition of topsoil will be required throughout the entire project.

2.2 PRE-PLANT FERTILIZERS

A. GCO Granular Humic Acid (or Approved Equal)

Gulf Coast Organic, Inc.
17588 Highway 98 West
Foley, AL 36535
Phone: 251-952-4769
www.gcogrows.com

B. Dolomitic Lime

1. Pelletized Dolomitic Lime (or Approved Equal)

Gulf Coast Organic, Inc.
17588 Highway 98 West
Foley, AL 36535
Phone: 251-952-4769
www.gcogrows.com

C. Pre-Plant Fertilizer

1. Primeria Organic 3-3-3 Fertilizer (or Approved Equal)

Gulf Coast Organic, Inc.
17588 Highway 98 West
Foley, AL 36535
Phone: 251-952-4769
www.gcogrows.com

2.3 INFIELD MATERIALS FOR SKINNED AREAS AND MOUND AREAS (NOT USED)

- A. The infield skinned areas shall be installed to a uniform depth of 6" min. over a compacted subgrade to 95% standard proctor.
- B. The Infield Materials for Skinned Area shall be 70% Clay and 30% Sand and intended for use for infields and pitching mounds. The color must be red to brown in color.
- C. The Infield Materials for the Skinned Areas shall be GCO Infield Mix as distributed by:

Gulf Coast Organic, Inc. (or Approved Equal)
17588 Highway 98 West

Foley, AL 36535
Phone: 251-952-4769
www.gcogrows.com

2.4 INFIELD CONDITIONER (NOT USED)

- A. Infield Conditioner shall be an illite clay with 60% minimum amorphous silica. Material must be processed in a rotary kiln operation at temperatures not less than 1300 degrees Fahrenheit. Product must then be screened and de-dusted.
- B. The Infield Conditioner shall be Turface MVP as distributed by:

Gulf Coast Organic, Inc.(or Approved Equal)
17588 Highway 98 West
Foley, AL 36535
Phone: 251-952-4769
www.gcogrows.com

PART 3 – EXECUTION

3.1 PLACING TOPSOIL MATERIALS

- A. Materials shall be saturated, nor have excessive free water during mixing. Materials shall be evenly and uniformly distributed in the amended soil mix.
- B. In performing this work, Contractor shall avoid damage to any existing structures or features or the playing field or features under construction, such as grading, drainage and irrigation systems. The Contractor shall repair any such damage at his own expense.
- C. The topsoil material shall be placed at the edge of the field and pushed to the center with low weight displacement track equipment. Alternative methods shall be approved by the Landscape Architect.
 - 1. Under no circumstances will loaded rubber-tired vehicles or equipment with a loading rate in excess of 5-lbs/in² be allowed on the drainage fill layer prior to or during the spreading of the topsoil material. The Contractor shall not leave any wheel ruts and the subgrade must remain smooth.
- D. Prevent contamination or mixing of topsoil with other materials. Remove contaminated materials as directed by the Owner's Representative.
- E. Truck delivery of materials into the site must be accomplished in such a manner as to not alter the subgrade and/or damage irrigation equipment and systems.
- F. Provide Topsoil material throughout the playing fields in a smooth and compacted finished condition. Bring topsoil material to the designed grade by alternatively raking, watering, and rolling. The entire playing field shall then be checked for irregularities and adjusted to a uniform grade.
- G. Contractor shall avoid using the same path to place and install the topsoil to minimize and avoid compaction of the soil during construction. If an area seems to be consistent

with over-trafficking and compaction, at the discretion of the Landscape Architect, the Contractor shall replace the area with new topsoil material.

3.2 APPLYING PRE-PLANT FERTILIZER

- A. Apply pre-plant fertilizer (3-3-3) at a rate of 600 lbs. per acre and incorporated into topsoil to a depth of 1 to 3 inches. Pre-plant fertilizer should be applied to surface and watered with two (2) passes of an irrigation head. Pre-plant fertilizer should not be applied more than four (4) hours before grassing operations.
- B. Apply Dolomitic Lime at a rate of 1000 lbs. per acre. Dolomitic Lime shall be spread over the field and incorporated into topsoil to a depth of 1 to 3 inches.

3.3 FINISHED GRADE VERIFICATION

- 1. Contractor shall schedule a site inspection with Landscape Architect with a minimum of 48 hours notice to review onsite finished grades. Contractor shall have at minimum a calibrated laser transit set up during meeting and be prepared to spot check grades for verification. No sodding shall take place until finished grade verification inspection is complete.
- 2. Contractor shall address and repair elevations found to deviate from the drawings and that do not ensure smoother, consistent, positive drainage off of field.

END OF SECTION 329100

SECTION 329113
SOIL PREPARATION

PART 1 – GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

- A. Section includes planting soils specified by composition of the mixes.
- B. Related Requirements:
 - 1. Section 329200 “Playing Field Sodding” for placing planting soil for turf and grasses.

1.3 DEFINITIONS

- A. AAPFCO: Association of American Plant Food Control Officials.
- B. Backfill: The earth used to replace or the act of replacing earth in an excavation. This can be amended or unamended soil as indicated.
- C. CEC: Cation exchange capacity.
- D. Compost: The product resulting from the controlled biological decomposition of organic material that has been sanitized through the generation of heat and stabilized to the point that it is beneficial to plant growth.
- E. Duff Layer: A surface layer of soil, typical of forested areas, that is composed of mostly decayed leaves, twigs, and detritus.
- F. Imported Soil: Soil that is transported to Project site for use.
- G. Layered Soil Assembly: A designed series of planting soils, layered on each other, that together produce an environment for plant growth.
- H. Manufactured Soil: Soil produced by blending soils, sand, stabilized organic soil amendments, and other materials to produce planting soil.
- I. NAPT: North American Proficiency Testing Program. An SSSA program to assist soil-, plant-, and water-testing laboratories through interlaboratory sample exchanges and statistical evaluation of analytical data.
- J. Organic Matter: The total of organic materials in soil exclusive of undecayed plant and animal tissues, their partial decomposition productions, and the soil biomass; also called “humus” or “soil organic matter”.
- K. Planting Soil: Existing, on-site soil; imported soil; or manufactured soil that has been modified as specified with soil amendments and perhaps fertilizers to produce a soil mixture best for plant growth.

- L. RCRA Metals: Hazardous metals identified by the EPA under the Resource Conservation and Recovery Act.
- M. SSSA: Soil Science Society of America.
- N. Subgrade: Surface or elevation of subsoil remaining after excavation is complete, or the top surface of a fill or backfill before planting soil is placed.
- O. Subsoil: Soil beneath the level of subgrade; soil beneath the topsoil layers of a naturally occurring soil profile, typified by less than 1 percent organic matter and few soil organisms.
- P. Surface Soil: Existing, on-site soil; imported soil; or manufactured soil that has been modified as specified with soil amendments and perhaps fertilizers to produce a soil mixture best for plant growth.
- Q. USCC: U.S. Composting Council.

1.4 ACTION SUBMITTALS

- A. Product Data: For each type of product.
 - 1. Include test data substantiating that products comply with requirements.
 - 2. Include sieve analysis for aggregate materials.
 - 3. Material Certificates: For each type of imported soil and soil amendment and fertilizer before delivery to the site, according to the following:
 - a. Manufacturer's qualified testing agency's certified analysis of standard products.
 - b. Analysis of fertilizers, by a qualified testing agency, made according to AAPFCO methods for testing and labeling and according to AAPFCO's SUIP #25.
 - c. Analysis of nonstandard materials, by a qualified testing agency, made according to SSSA methods, where applicable.
- B. Samples: For each bulk-supplied material, 1-quart volume of each in sealed containers labeled with content, source, and date obtained. Each sample shall be typical of the lot of material to be furnished; provide an accurate representation of composition, color, and texture.

1.5 INFORMATIONAL SUBMITTALS

- A. Qualification Data: For each testing agency.
- B. Preconstruction Test Reports: For preconstruction soil analyses specified in "Preconstruction Testing" Article.
- C. Field quality-control reports.

1.6 QUALITY ASSURANCE

- A. Testing Agency Qualifications: An independent, state-operated, or university-operated laboratory; experienced in soil science, soil testing, and plant nutrition; with the experience and capability to conduct the testing indicated; and the specializes in types of tests to be performed.
 - 1. Laboratories: Subject to compliance with requirements, provide testing by one of the following:
 - a. Auburn University Extension Service or similar
334-844-3958
aces.edu/soiltest
soiltest@auburn.edu
 - 2. Multiple Laboratories: At Contractor's option, work may be divided among qualified testing laboratories specializing in physical testing, chemical testing, and fertility testing.

1.7 SOIL-SAMPLING REQUIREMENTS

- A. General: Extract soil samples according to requirements in this article and after subgrade is established for the natural fields.
- B. Sample Collection and Labeling: Have samples taken and labeled by Contractor in presence of Architect:
 - 1. Number and Location of Samples: Minimum of four representative soil samples from each natural field for each soil to be used or amended for landscaping purposes.
 - 2. Procedures and Depth of Samples: Collect a representative blend of soil from 0-6" deep at each location and combine into one sample per field.
 - 3. Division of Samples: Split each sample into two, equal parts. Send half to the testing agency and half to Owner for its records.
 - 4. Labeling: Label each sample with the date, located keyed to a site plan or other location system, visible soil condition, and sampling depth.

1.8 TESTING REQUIREMENTS

- A. General: Perform tests on soil samples according to requirements in this article.
- B. Physical Testing:
 - 1. Soil Texture: Soil-particle, size-distribution analysis by one of the following methods according to SSSA's "Methods of Soil Analysis – Part 1-Physical and Mineralogical Methods":
 - a. Sieving Method: Report sand-gradation percentages for very coarse, coarse, medium, fine, and very fine sand; and fragment-gradation (gravel) percentages for fine, medium, and coarse fragments; according to USDA sand and fragment sizes.
 - b. Hydrometer Method: Report percentages of sand, silt, and clay.
- C. Fertility Testing: Soil-fertility analysis according to standard laboratory protocol, including the following:

1. Percentage of organic matter.
 2. CEC, calcium percent of CEC, and magnesium percent of CEC.
 3. Soil reaction (acidity/alkalinity pH value).
 4. Nitrogen ppm.
 5. Phosphorous ppm.
 6. Potassium ppm.
 7. Presence and quantities of problem materials including salts and metals cited in Standard protocol. If such problem materials are present, provide additional recommendations for corrective action.
- D. Organic-Matter Content: Analysis using loss-by-ignition method according in SSSA's "Methods of Soil Analysis – Part 3 – Chemical Methods".
- E. Recommendations: Based on the test results, state recommendations for soil treatments and soil amendments to be incorporated to produce satisfactory planting soil suitable for healthy, viable plants indicated. Include, at a minimum, recommendations for nitrogen, phosphorous, and potassium fertilization, and for micronutrients.
1. Fertilizers and Soil Amendment Rates: State recommendations in weight per 1000 sq. ft.
 2. Soil Reaction: State the recommended liming rates for raising pH or sulfur for lowering pH according to the buffered acidity or buffered alkalinity in weight per 1000 sq. ft.

1.9 DELIVERY, STORAGE, AND HANDLING

- A. Packaged Materials: Deliver packaged materials in original, unopened containers showing weight, certified analysis, name and address of manufacturer, and compliance with state and Federal laws if applicable.
- B. Bulk Materials:
1. Do not dump or store bulk materials near structures, utilities, walkways and pavements, or on existing turf areas or plants.
 2. Provide erosion-control measures to prevent erosion or displacement of bulk materials, discharge of soil-bearing water runoff, and airborne dust reaching adjacent properties, water conveyance systems, or walkways.
 3. Do not move or handle materials when they are wet or frozen.
 4. Accompany each delivery of bulk fertilizer and soil amendments with appropriate certificates.

PART 2 – PRODUCTS

2.1 PLANTING SOILS SPECIFIED BY COMPOSITION

- A. General: Soil amendments, fertilizers, and rates of application specified in this article are guidelines that may need revision based on testing laboratory's recommendations after preconstruction soil analyses are performed.
- B. Planting-Soil Type for Natural Turf Fields: Imported, naturally formed soil from off-site sources and consisting of light brown, sandy loam, screened subsoil; and modified to produce viable planting soil.
 - 1. Sources: Take imported, unamended soil from sources that are naturally well-drained sites where topsoil occurs at least 4 inches deep, not from agricultural land, bogs, or marshes; and that do not contain undesirable organisms; disease-causing plant pathogens; or obnoxious weeds and invasive plants including, but not limited to, quackgrass, Johnsongrass, poison ivy, nutsedge, nimblewell, Canada thistle, bindweed, bentgrass, wild garlic, ground ivy, perennial sorrel, and bromegrass.
 - 2. Additional Properties of Imported Soil before Amending: Soil reaction of pH 6 to 7 and minimum of 6 percent organic-matter content, friable, and with sufficient structure to give good tilth and aeration.
 - 3. Unacceptable Properties: Clean soil of the following:
 - a. Unacceptable Materials: Concrete slurry, concrete layers or chunks, cement, plaster, building debris, oils, gasoline, diesel fuel, paint thinner, turpentine, tar, roofing compound, acid, and other extraneous materials that are harmful to plant growth.
 - b. Unsuitable Materials: Stones, roots, plants, sod, clay lumps, and pockets of coarse sand that exceed a combined maximum of 8 percent by dry weight of the imported soil.
 - c. Large Materials: Stones, clods, roots, clay lumps, and pockets of coarse sand exceeding 1 inches in any dimensions.
 - 4. Material:
 - a. Screened, Light brown, sandy subsoil.

2.2 FERTILIZERS

- A. Refer to Section 329200 "Lawns and Grasses".

PART 3 – EXECUTION

3.1 GENERAL

- A. Place planting soil and fertilizers according to requirements in other Specification Sections.
- B. Verify that no foreign or deleterious material or liquid such as paint, paint washout, concrete slurry, concrete layers or chunks, cement, plaster, oils, gasoline, diesel fuel, paint thinner, turpentine, tar, roofing compound, or acid has been deposited in planting soil.
- C. Proceed with placement only after unsatisfactory conditions have been corrected.

3.2 PLACING AND MIXING PLANTING SOIL OVER EXPOSED SUBGRADE

- A. General: Apply and mix unamended soil with amendments on-site to produce required planting soil. Do not apply materials or till if existing soil or subgrade is frozen, muddy, or excessively wet.
- B. Subgrade Preparation: Till subgrade to a minimum depth of 2 inches. Remove stones larger than 1 inches any dimension and sticks, roots, rubbish, and other extraneous matter and legally dispose of them off Owner's property.
- C. Mixing: Spread unamended soil to total depth of 4 inches but not less than required to meet finish grades after mixing with amendments and natural settlement. Do not spread if soil or subgrade is frozen, muddy, or excessively wet.
 - 1. Amendments: Apply soil amendments and fertilizer, if required, evenly on surface, and thoroughly blend them with unamended soil to produce planting soil.
 - a. Mix fertilizer with planting soil no more than seven days before planting.
- D. Compaction: Compact each blended lift of planting soil to 70 percent of maximum Standard Proctor density according to ASTM D 698 and tested in-place.
- E. Finish Grading: Grade planting soil to a smooth, uniform surface plan with loose, uniformly fine texture. Roll and rake, remove ridges, and fill descriptions to meet finish grades as specified on drawings.

3.3 FIELD QUALITY CONTROL

- A. Testing Agency: Engage a qualified testing agency to perform tests and inspections.
- B. Perform the following tests:
 - 1. Compaction: Test planting-soil compaction after placing each lift and at completion using a densitometer or soil-compaction meter calibrated to a reference test value based on laboratory testing according to ASTM D 698. Space tests at no less than one for each 5000 sq. ft. of in-place soil or part thereof.
 - 2. See Section 014000 "Quality Requirements" for retesting and reinspecting requirements and Section 017300 "Execution" for requirements for correcting the Work.
- C. Soil will be considered defective if it does not pass tests.
- D. Prepare test reports.
- E. Label each sample and test report with the date, location keyed to a site plan or other location system, visible conditions when and where sample was taken, and sampling depth.

3.4 PROTECTION

- A. Protect areas of in-place soil from additional compaction, disturbance, and contamination. Prohibit the following practices within these areas except as required to perform planting operations:

1. Storage of construction materials, debris, or excavated material.
 2. Parking vehicles or equipment.
 3. Vehicle traffic.
 4. Foot traffic.
 5. Erection of sheds or structures.
 6. Impoundment of water.
 7. Excavation or other digging unless otherwise indicated.
- B. If planting soil or subgrade is over compacted, disturbed, or contaminated by foreign or deleterious materials or liquids, remove the planting soil and contamination; restore the subgrade as directed by Architect and replace contaminated planting soil with new planting soil.

3.5 CLEANING

- A. Protect areas adjacent to planting-soil preparation and placement areas from contamination. Keep adjacent paving and construction clean and work area in an orderly condition.
- B. Remove surplus soil and waste material including excess subsoil, unsuitable materials, trash, and debris and legally dispose of them off Owner's property unless otherwise indicated.
1. Dispose of excess subsoil and unsuitable materials on-site where directed by Owner.

END OF SECTION 329113

SECTION 329200
PLAYING FIELD SODDING

PART 1 – GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 – Specification sections, apply to work of this section.

1.2 DESCRIPTION

- A. This section covers furnishing, delivery, installation of turf sod, and maintenance during turf establishment in accordance with this specification at the locations indicated on the Drawings.

- B. Sod installation includes, but is not limited to, the following:

- 1. Installation of turfgrass sod in designated areas.
- 2. Maintenance of sod during grow-in and turf establishment unless otherwise noted by the Owner or Owner's Representative.

- C. Related sections include:

- 1. Included Division 2 through Division 16 technical specifications.

1.3 REFERENCES

- A. The publications listed below form a part of this specification to the extent referenced. The publications are referred to in the text by the basic designation only.

- 1. American Sod Producers Association (ASPA)
- 2. ASPA GSS 1988 Guideline Specifications for Sodding
- 3. Commercial Item Descriptions (CID)
- 4. CID A-A-1909 Fertilizer
- 5. Department of Agriculture (DOA) DOA FSA 1985 Federal Seed Act Rules DOA SSIR 1984 Soil Survey Laboratory Methods and Procedures for Collecting Soil Samples

1.4 SUBMITTALS

- A. Furnish digital PDF of manufacturer literature, samples, certifications, or laboratory analytical data for the following items.

- 1. Sod:
 - a. Address of grower
 - b. Location of growing field.
 - c. Seed Certification.
- 2. Fertilizer (certification or laboratory analytical data).

1.5 JOB CONDITIONS

A. This Contract shall include harvesting (cutting) the turf at the approved sod farm, transporting the turf to the site, and installing the turf at the site. All supplied turf shall meet the quality requirements of this specification.

B. Schedule: Installed turfgrass sod shall be mature and suitable for foot traffic per date to be established by the Owner. See this Section for "Acceptance of Turf" for additional parameters.

PART 2 -PRODUCTS

2.1 SOD FOR FIELDS

A. Turfgrass Sod (for Playing Field areas):

1. Sod shall be nursery grown variety as specified on drawings.
2. Sod may be harvested and arrive on-site netted, but the netting shall be removed during installation of the sod.
3. Machine cut sod at a uniform thickness of 0.75 inches within a tolerance of ± 0.25 inches, excluding top growth and thatch.
4. Sod shall be composed of healthy living stems and roots providing a heavy and dense sod not less than 10 months old that is mature and free of weeds and disease and insects.

2.2 QUALITY FACTORS

- A. Uniformity of cut is required. Sod thickness shall be 0.75 inches across the width and length of each section with a maximum deviation of 1/4 inch. Thickness and width shall be kept to strict dimensions. Broken strips, irregularly shaped pieced, and torn or uneven ends will be rejected. Edges shall be cut at 90-degree angles to provide for tight fit during installation.
- B. Quality Control: Sod shall be subject to inspection and approval by Owner's Representative at place of growth and upon delivery for conformity to specifications. Such approvals shall not impair the right of inspection and rejection during progress of the Work. Owner may reject sod not meeting specification as determined by the Owner's sole judgement.
- C. Mowing height: Sod shall be mowed and maintained uniformly at a height of 1.50 to 2.00 inches depending on environmental conditions for a period of 4 weeks prior to harvesting. Before shipping, sod shall be groomed.
- D. Diseases and soil borne insects: State Nursery and/or Plant Material laws require that all soil entering Interstate Commerce be inspected and approved for sale.
- E. Weeds: Cultivated sod shall be free from objectionable grassy and broadleaf weeds. Sod will not be acceptable if it contains any weeds or if it is not true to species.
- F. Moisture Content: Sod shall not be harvested or transplanted when moisture content (excessively dry or wet) may adversely affect survival of the sod.

2.3 FERTILIZER

1. Refer to Playing Field Construction Section 329100

PART 3 – EXECUTION

3.1 HARVESTING TURF MATERIALS

- A. Sod must be cut in full 42" to 48" width rolls minimum fielding lengths that can be transported and installed.
- B. The Contractor shall be solely responsible for the safe transportation of turf to the site and condition upon arrival. Turf damaged, dehydrated or abused during transit or storage will be rejected.
- C. Coordinate harvesting and planting operations to prevent exposure of sod to the sun for more than 8 hours.

3.2 INSTALLATION OF SOD

- A. Prior to laying of any sod, the topsoil must be completely settled and smoothed to the required grades for sod installation. The topsoil surface should be scarified and loosened prior to placement of amendments and installation of sod.
- B. Sod exhibiting heat or drought stress and not installed within 36 hours after cutting will be rejected. Sod cutting and shipping shall be coordinated with the sod grower. Moisten prepared areas before sod installation to a depth of 4 inches.
- C. When placing sod, the Contractor shall use great care so as not to disturb the finished grades of the topsoil. Contractor will make provisions to avoid rutting of the topsoil. Equipment used to lay sod shall have tracks or large floatation tires. Equipment shall not be allowed to drive over laid sod.
- D. The first row of sod should, if possible, be laid in a straight line with subsequent rows placed parallel and tightly against one another. Lateral joints shall be staggered 36 inches minimum to promote more uniform growth and strength. Do not stretch or overlap sod pieces. All joints are butted tight in order to prevent voids. Lap ends of sod rolls 6 inches and cut new tight joint.
- E. Sod laid adjacent to hard surfaces shall be laid 1/2 inch above the tops of adjacent surfaces.
- F. Water and Rolling: The sod shall be watered immediately after installation to prevent drying during progress of the work. The Contractor shall have adequate equipment available to water the sod as specified herein. As sod installation is completed in any one section, the entire area shall be thoroughly irrigated to a one-inch depth below the new sod pad. After a short drying period, the sod should be rolled to firm the sod pad.

3.3 TURN MAINTENANCE

- A. Current cultural management practices may be modified in accordance with tissue test results or environmental conditions.
- B. The Owner will not assume maintenance of the turf until after Substantial Completion and after the turf has been inspected and approved by the Owner's Representative. Until that time, the Contractor shall perform all maintenance.
- C. The Contractor shall be responsible for the performance and operation of the turfgrass areas during the construction, maintenance period and until final acceptance. The Contractor shall keep technically qualified personnel on-site and

maintain adequate labor, equipment and supplies in reserve to immediately repair the system or components in the event of any deficiency or failure during the interim maintenance period.

- D. The Contractor shall provide all operations necessary to maintain the field through the date of acceptance. The following list of items represents the minimum operations necessary to maintain the turfgrass lawn areas.
- E. Mowing: Cutting height will be determined by environmental conditions, condition of sod, and time of year or activities. Turf height will be maintained using only sharp, clean equipment capable of cutting heights of 1.50 to 2.25 inches. Not more than 1/3 of the grass leaf will be removed by the initial cutting or subsequent cuttings. Turf will be maintained to a neat appearance.
- F. Weed and Pest Control: The Contractor is to maintain the turf free from disease and infestation. Required treatments will be made according to the needs of the turf as determined by the Owner's Representative. Comply with applicable requirements of Federal, State, and Local laws, regulations and codes having jurisdiction over chemical treatments. Apply a brown patch preventative fungicide as per manufacturer's recommendations either at the sod farm or after sod installation.

3.4 ACCEPTANCE OF TURF

- A. The Owner's Representative will inspect the turf. Final acceptance will follow Owner's Representative's final approval of the punch list and the following criteria:
 - 1. Turf has rooted into the Topsoil to a depth of 1 inch.
 - 2. The turfgrass surface has a smooth appearance.
 - 3. Turf is free of dead or bare spots in excess of 3 square inches.

END OF SECTION 329200

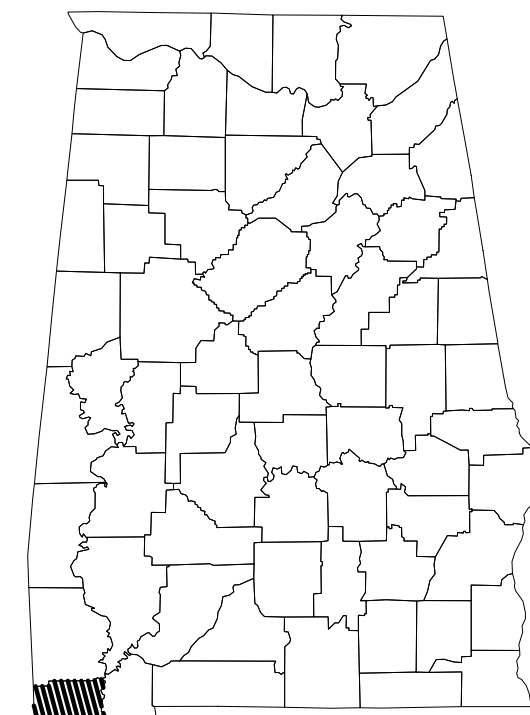
CITY OF MOBILE

MEDAL OF HONOR PARK SITE AND LIGHTING IMPROVEMENTS

PROJECT NO. PR-001-23

MOBILE COUNTY, ALABAMA

FEBRUARY 2024



PROJECT LOCATION

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SANDY STIMPSON

COUNCIL MEMBERS:
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WILLIAM CARROLL
C.J. SMALL
BEN REYNOLDS
JOEL DAVES
JOSH WOODS
GINA GREGORY

DISTRICT 1
DISTRICT 2
DISTRICT 3
DISTRICT 4
DISTRICT 5
DISTRICT 6
DISTRICT 7

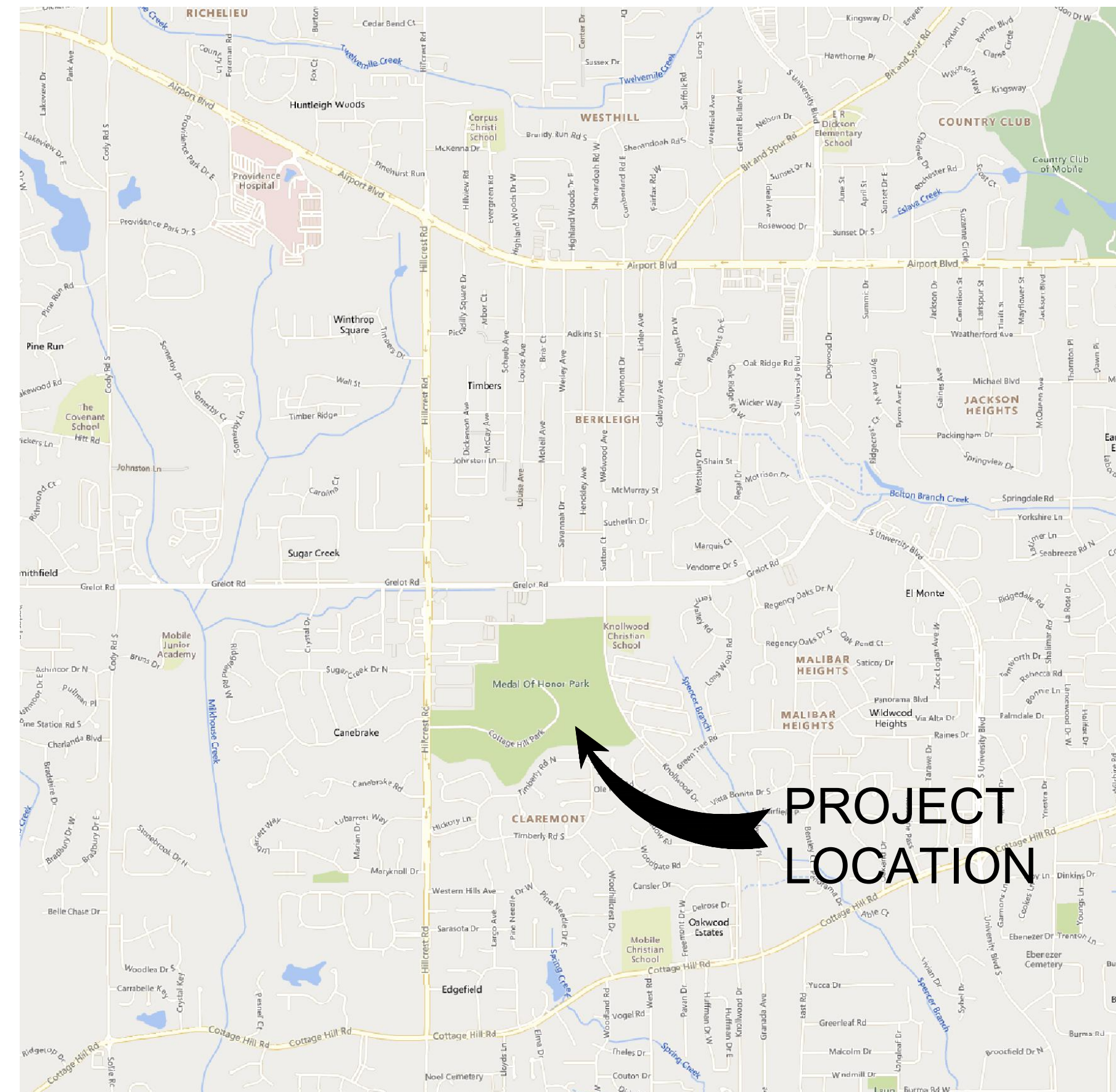
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LOCATION MAP
N.T.S.

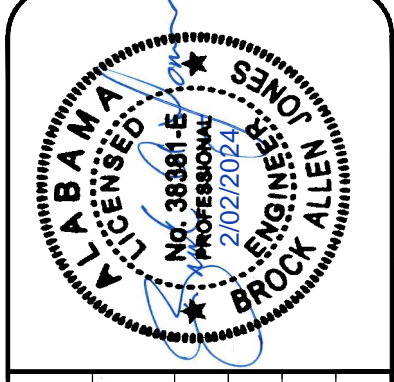
PREPARED BY
Kimley»Horn

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SHEET LIST TABLE	
SHEET NUMBER	SHEET TITLE
GENERAL	
G-01	COVER
G-02	GENERAL NOTES
G-03	GENERAL NOTES
G-04	KEY MAP
G-05	SITE PHASING PLAN
CIVIL	
C-01	EXISTING CONDITIONS
C-02	PARKING LOT DEMOLITION PLAN
C-03	PARKING LOT SITE PLAN
C-04	PARKING LOT GRADING & DRAINAGE
C-05	PARKING LOT STRIPING & SIGNAGE PLAN
C-06	FOOTBALL FIELD IMPROVEMENTS
C-07	ADDITIVE ALTERNATE #2 - SOFTBALL FIELD DEMOLITION PLAN
C-08	ADDITIVE ALTERNATE #2 - SOFTBALL FIELD IMPROVEMENTS
C-09	ADDITIVE ALTERNATE #1 - AMPHITHEATER IMPROVEMENTS
C-10	ADDITIVE ALTERNATE #3 - TENNIS COURTS IMPROVEMENTS
C-11	EROSION CONTROL PLAN PARKING LOT
C-12	EROSION CONTROL PLAN FOOTBALL FIELD
C-13	ADDITIVE ALTERNATE #1 - EROSION CONTROL PLAN AMPHITHEATER
C-14	ADDITIVE ALTERNATE #2 - EROSION CONTROL PLAN BASEBALL FIELD
C-15 THRU C-17	CIVIL DETAIL SHEETS
C-18	EROSION CONTROL DETAILS
LANDSCAPE & IRRIGATION	
L1-01	ADDITIVE ALTERNATE #1 - LANDSCAPE PLAN AMPHITHEATER
L1-02	LANDSCAPE PLAN PARKING LOT
L1-03	LANDSCAPE PLAN FOOTBALL FIELD
L1-04	ADDITIVE ALTERNATE #2 - LANDSCAPE PLAN BASEBALL FIELD2
L2-01	LANDSCAPE DETAILS
L2-02	LANDSCAPE NOTES
L3-00	HARDSCAPE DETAILS
IR1-00	IRRIGATION PLAN OVERALL
IR1-01	IRRIGATION PLAN PARKING LOT
IR1-03	ADDITIVE ALTERNATE #1 - IRRIGATION PLAN AMPHITHEATER1
IR2-01	IRRIGATION DETAILS
ARCHITECT	
AD100.0	ADDITIVE ALTERNATE #1 - AMPHITHEATER DEMOLITION PLAN
A100.0	ADDITIVE ALTERNATE #1 - AMPHITHEATER NEW FLOOR PLAN
A200.0	ADDITIVE ALTERNATE #1 - AMPHITHEATER PARTIAL ELEVATIONS
ELECTRICAL	
E1.0	ELECTRICAL SPECIFICATIONS
E1.1	ELECTRICAL LEGEND AND ABBREVIATIONS
E2.0	EXISTING OVERALL PLAN
E2.1	EXISTING SOFTBALL FIELD LAYOUT
E2.2	EXISTING TENNIS COURT LAYOUT
E2.3	ADDITIVE ALTERNATE #1 - EXISTING AMPHITHEATER LAYOUT
E3.0	NEW WORK OVERALL PLAN
E3.1	NEW WORK SOFTBALL FIELD LAYOUT
E3.2	NEW WORK TENNIS COURT LAYOUT
E3.3	ADDITIVE ALTERNATE #1 - NEW WORK AMPHITHEATER LAYOUT
E4.0	ELECTRICAL DETAILS
E4.1	ELECTRICAL SCHEDULES
E4.2	ELECTRICAL RISERS
E4.3	ADDITIVE ALTERNATE #1 AMPHITHEATER SCHEDULES & DETAILS

NO.	REVISIONS	DATE	BY

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KHA PROJECT	142920003	SCALE:	AS SHOWN	DESIGNED BY:	BAJ	SEEN		CHECKED BY:	JNF
DATE	2/2/2024	DRAWN BY:							

MEDAL OF HONOR PARK SITE AND LIGHTING IMPROVEMENTS
PREPARED FOR
CITY OF MOBILE
ALABAMA

SHEET NUMBER
G-01

This document, together with the concepts and designs presented herein, is intended only for the specific purpose and subject for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.

GENERAL CONSTRUCTION NOTES

- THE CONTRACTOR AND SUBCONTRACTORS SHALL OBTAIN A COPY OF THE ALABAMA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" (LATEST EDITION) AND BECOME FAMILIAR WITH THE CONTENTS PRIOR TO COMMENCING WORK, AND, UNLESS OTHERWISE NOTED, ALL WORK SHALL CONFORM AS APPLICABLE TO THESE STANDARDS AND SPECIFICATIONS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING ALL MATERIAL AND LABOR TO CONSTRUCT THE FACILITY AS SHOWN AND DESCRIBED IN THE CONSTRUCTION DOCUMENTS IN ACCORDANCE WITH THE APPROPRIATE APPROVING AUTHORITIES, SPECIFICATIONS AND REQUIREMENTS. CONTRACTOR SHALL CLEAR AND GRUB ALL AREAS UNLESS OTHERWISE INDICATED, REMOVING TREES, STUMPS, ROOTS, MUCK, EXISTING PAVEMENT AND ALL OTHER DELETERIOUS MATERIAL.
- EXISTING UTILITIES SHOWN ARE LOCATED ACCORDING TO THE INFORMATION AVAILABLE TO THE ENGINEER AT THE TIME OF THE TOPOGRAPHIC SURVEY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR THE ENGINEER. GUARANTEE IS NOT MADE THAT ALL EXISTING UNDERGROUND UTILITIES ARE SHOWN OR THAT THE LOCATION OF THOSE SHOWN ARE ENTIRELY ACCURATE. FINDING THE ACTUAL LOCATION OF ANY EXISTING UTILITIES IS THE CONTRACTOR'S RESPONSIBILITY AND SHALL BE DONE BEFORE COMMENCING ANY WORK IN THE VICINITY. FURTHERMORE, THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES DUE TO THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES. THE OWNER OR ENGINEER WILL ASSUME NO LIABILITY FOR ANY DAMAGES SUSTAINED OR COST INCURRED BECAUSE OF THE OPERATIONS IN THE VICINITY OF EXISTING UTILITIES OR STRUCTURES, NOR FOR TEMPORARY BRACING AND SHORING OF SAME. IF IT IS NECESSARY TO SHORE, BRACE, SWING OR RELOCATE A UTILITY, THE UTILITY COMPANY OR DEPARTMENT AFFECTED SHALL BE CONTACTED AND THEIR PERMISSION OBTAINED REGARDING THE METHOD TO USE FOR SUCH WORK.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE VARIOUS UTILITY COMPANIES WHICH MAY HAVE BURIED OR AERIAL UTILITIES WITHIN OR NEAR THE CONSTRUCTION AREA BEFORE COMMENCING WORK. THE CONTRACTOR SHALL PROVIDE 48 HOURS MINIMUM NOTICE TO ALL UTILITY COMPANIES PRIOR TO BEGINNING CONSTRUCTION. AN APPROXIMATE LIST OF THE UTILITY COMPANIES WHICH THE CONTRACTOR MUST CALL BEFORE COMMENCING WORK IS PROVIDED ON THE COVER SHEET OF THESE CONSTRUCTION PLANS. THIS LIST SERVES AS A GUIDE ONLY AND IS NOT INTENDED TO LIMIT THE UTILITY COMPANIES WHICH THE CONTRACTOR MAY WISH TO NOTIFY.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL REQUIRED CONSTRUCTION PERMITS AND BOND PRIOR TO CONSTRUCTION.
- THE CONTRACTOR SHALL HAVE AVAILABLE AT THE JOB SITE AT ALL TIMES ONE COPY OF THE CONSTRUCTION DOCUMENTS INCLUDING PLANS, SPECIFICATIONS, GEOTECHNICAL REPORT AND SPECIAL CONDITIONS AND COPIES OF ANY REQUIRED CONSTRUCTION PERMITS.
- ANY DISCREPANCIES ON THE DRAWINGS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE OWNER AND ENGINEER BEFORE COMMENCING WORK. NO FIELD CHANGES OR DEVIATIONS FROM DESIGN ARE TO BE MADE WITHOUT PRIOR APPROVAL OF THE OWNER AND NOTIFICATION TO THE ENGINEER.
- ALL COPIES OF COMPACTION, CONCRETE AND OTHER REQUIRED TEST RESULTS ARE TO BE SENT TO THE OWNER AND DESIGN ENGINEER OF RECORD DIRECTLY FROM THE TESTING AGENCY.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR SUBMITTING TO THE ENGINEER A CERTIFIED RECORD SURVEY SIGNED AND SEALED BY A PROFESSIONAL LAND SURVEYOR REGISTERED IN THE STATE OF ALABAMA DEPICTING THE ACTUAL FIELD LOCATION OF ALL CONSTRUCTED IMPROVEMENTS THAT ARE REQUIRED BY THE JURISDICTIONAL AGENCIES FOR THE CERTIFICATION PROCESS. ALL SURVEY COSTS WILL BE THE CONTRACTORS RESPONSIBILITY.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR DOCUMENTING AND MAINTAINING AS-BUILT INFORMATION WHICH SHALL BE RECORDED AS CONSTRUCTION PROGRESSES OR AT THE COMPLETION OF APPROPRIATE CONSTRUCTION INTERVALS AND SHALL BE RESPONSIBLE FOR PROVIDING AS-BUILT DRAWINGS TO THE OWNER FOR THE PURPOSE OF CERTIFICATION TO JURISDICTIONAL AGENCIES AS REQUIRED. ALL AS-BUILT DATA SHALL BE COLLECTED BY A STATE OF ALABAMA PROFESSIONAL LAND SURVEYOR WHOSE SERVICES ARE ENGAGED BY THE CONTRACTOR.
- ANY WELLS DISCOVERED ON SITE THAT WILL HAVE NO USE MUST BE PLUGGED BY A LICENSED WELL DRILLING CONTRACTOR IN A MANNER APPROVED BY ALL JURISDICTIONAL AGENCIES. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ANY WELL ABANDONMENT PERMITS REQUIRED.
- ANY WELL DISCOVERED DURING EARTH MOVING OR EXCAVATION SHALL BE REPORTED TO THE APPROPRIATE JURISDICTIONAL AGENCIES WITHIN 24 HOURS AFTER DISCOVERY IS MADE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THAT THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS DO NOT CONFLICT WITH ANY KNOWN EXISTING OR OTHER PROPOSED IMPROVEMENTS. IF ANY CONFLICTS ARE DISCOVERED, THE CONTRACTOR SHALL NOTIFY THE OWNER PRIOR TO INSTALLATION OF ANY PORTION OF THE SITE WORK THAT WOULD BE AFFECTED. FAILURE TO NOTIFY OWNER OF AN IDENTIFIABLE CONFLICT PRIOR TO PROCEEDING WITH INSTALLATION RELIEVES OWNER OF ANY OBLIGATION TO PAY FOR A RELATED CHANGE ORDER.
- ANY CONSTRUCTION ADJACENT TO A WETLAND AREA SHALL BE PERFORMED FROM THE UPLAND SIDE OF THE AREA. CONSTRUCTION ENROACHMENT INTO A WETLAND AREA IS NOT ALLOWED UNLESS PERMITTED BY THE JURISDICTIONAL AGENCY.
- TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH THE CURRENT ALDOT DESIGN STANDARD INDEX (SERIES 74000-74007) AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
- IF PREHISTORIC OR HISTORIC ARTIFACTS, SUCH AS POTTERY OR CERAMICS, PROJECTILE POINTS, DUGOUT CANOES, METAL IMPLEMENTS, HISTORIC BUILDING MATERIALS, OR ANY OTHER PHYSICAL REMAINS THAT COULD BE ASSOCIATED WITH NATIVE AMERICAN, EARLY EUROPEAN, OR AMERICAN SETTLEMENT ARE ENCOUNTERED AT ANY TIME WITHIN THE PROJECT SITE AREA THE PERMITTED PROJECT SHALL CEASE ALL ACTIVITIES INVOLVING SUBSURFACE DISTURBANCE IN THE VICINITY OF THE DISCOVERY. THE APPLICANT SHALL CONTACT THE ALABAMA DEPARTMENT OF STATE, DIVISION OF HISTORICAL RESOURCES, COMPLIANCE REVIEW SECTION AT (334)-242-3184. PROJECT ACTIVITIES SHALL NOT RESUME WITHOUT VERBAL AND/OR WRITTEN AUTHORIZATION. IN THE EVENT THAT UNMARKED HUMAN REMAINS ARE ENCOUNTERED DURING PERMITTED ACTIVITIES, ALL WORK SHALL STOP IMMEDIATELY AND THE PROPER AUTHORITIES NOTIFIED IN ACCORDANCE WITH ACT (93-905), ALABAMA STATUTES.

RECORD DRAWINGS

- CONTRACTOR SHALL PROVIDE TO THE ENGINEER AND OWNER A MINIMUM OF 2 HARD COPIES OF A PAVING, GRADING AND DRAINAGE RECORD DRAWING AND A SEPARATE UTILITY RECORD DRAWING, AS WELL AS BOTH IN AUTOCAD 2018 OR LATER, BOTH PREPARED BY A ALABAMA REGISTERED SURVEYOR. THE RECORD DRAWINGS SHALL VERIFY ALL DESIGN INFORMATION INCLUDED ON THE DESIGN PLANS OF THE SAME NAME.

PAVING, GRADING AND DRAINAGE NOTES

- ALL PAVING, CONSTRUCTION, MATERIALS, AND WORKMANSHIP WITHIN JURISDICTION'S RIGHT-OF-WAY SHALL BE IN ACCORDANCE WITH LOCAL OR COUNTY SPECIFICATIONS AND STANDARDS (LATEST EDITION) OR ALDOT SPECIFICATIONS AND STANDARDS (LATEST EDITION) IF NOT COVERED BY LOCAL OR COUNTY REGULATIONS.
- ALL UNPAVED AREAS IN EXISTING RIGHTS-OF-WAY DISTURBED BY CONSTRUCTION SHALL BE REGRADED AND SODDED.
- THE CONTRACTOR SHALL GRADE THE SITE TO THE ELEVATIONS INDICATED AND SHALL REGRADE WASHOUTS WHERE THEY OCCUR AFTER EVERY RAINFALL UNTIL A GRASS STAND IS WELL ESTABLISHED OR ADEQUATE STABILIZATION OCCURS.
- ALL OPEN AREAS WITHIN THE PROJECT SITE SHALL BE SODDED UNLESS INDICATED OTHERWISE ON THE LANDSCAPE PLAN.
- ALL AREAS INDICATED AS PAVEMENT SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE TYPICAL PAVEMENT SECTIONS AS INDICATED ON THE DRAWINGS.
- WHERE EXISTING PAVEMENT IS INDICATED TO BE REMOVED AND REPLACED, THE CONTRACTOR SHALL SAW CUT A MINIMUM 2' DEEP FOR A SMOOTH AND STRAIGHT JOINT AND REPLACE THE PAVEMENT WITH THE SAME TYPE AND DEPTH OF MATERIAL AS EXISTING OR AS INDICATED.
- WHERE NEW PAVEMENT MEETS THE EXISTING PAVEMENT, THE CONTRACTOR SHALL SAW CUT THE EXISTING PAVEMENT A MINIMUM 2' DEEP FOR A SMOOTH AND STRAIGHT JOINT AND MATCH THE EXISTING PAVEMENT ELEVATION WITH THE PROPOSED PAVEMENT UNLESS OTHERWISE INDICATED.
- THE CONTRACTOR SHALL INSTALL FILTER FABRIC OVER ALL DRAINAGE STRUCTURES FOR THE DURATION OF CONSTRUCTION AND UNTIL ACCEPTANCE OF THE PROJECT BY THE OWNER. ALL DRAINAGE STRUCTURES SHALL BE CLEANED OF DEBRIS AS REQUIRED DURING AND AT THE END OF CONSTRUCTION TO PROVIDE POSITIVE DRAINAGE FLOWS.
- IF DEWATERING IS REQUIRED, THE CONTRACTOR SHALL OBTAIN ANY APPLICABLE REQUIRED PERMITS. THE CONTRACTOR IS TO COORDINATE WITH THE OWNER AND THE DESIGN ENGINEER PRIOR TO ANY EXCAVATION.
- STRIP TOPSOIL AND ORGANIC MATTER FROM ALL AREAS OF THE SITE AS REQUIRED. IN SOME CASES TOPSOIL MAY BE STOCKPILED ON SITE FOR PLACEMENT WITHIN LANDSCAPED AREAS BUT ONLY AS DIRECTED BY THE OWNER.
- FIELD DENSITY TESTS SHALL BE TAKEN AT INTERVALS IN ACCORDANCE WITH THE LOCAL JURISDICTIONAL AGENCY OR TO ALDOT STANDARDS. IN THE EVENT THAT THE CONTRACT DOCUMENTS AND THE JURISDICTIONAL AGENCY REQUIREMENTS ARE NOT IN AGREEMENT, THE MOST STRINGENT SHALL GOVERN.
- ALL SLOPES AND AREAS DISTURBED BY CONSTRUCTION SHALL BE GRADED AS PER PLANS. THE AREAS SHALL THEN BE SODDED OR SEEDED AS SPECIFIED IN THE PLANS, FERTILIZED, MULCHED, WATERED AND MAINTAINED UNTIL HARDY GRASS GROWTH IS ESTABLISHED IN ALL AREAS. ANY AREAS DISTURBED FOR ANY REASON PRIOR TO FINAL ACCEPTANCE OF THE JOB SHALL BE CORRECTED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER. ALL EARTHEN AREAS WILL BE SODDED OR SEEDED AND MULCHED AS SHOWN ON THE LANDSCAPING PLAN.
- ALL CUT OR FILL SLOPES SHALL BE 3 (HORIZONTAL) :1 (VERTICAL) OR FLATTER UNLESS OTHERWISE SHOWN.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONTROL OF DUST AND DIRT RISING AND SCATTERING IN THE AIR DURING CONSTRUCTION AND SHALL PROVIDE WATER SPRINKLING OR OTHER SUITABLE METHODS OF CONTROL. THE CONTRACTOR SHALL COMPLY WITH ALL GOVERNING REGULATIONS PERTAINING TO ENVIRONMENTAL PROTECTION.
- THE CONTRACTOR SHALL TAKE ALL REQUIRED MEASURES TO CONTROL TURBIDITY, INCLUDING BUT NOT LIMITED TO THE INSTALLATION OF TURBIDITY BARRIERS AT ALL LOCATIONS WHERE THE POSSIBILITY OF TRANSFERRING SUSPENDED SOLIDS INTO THE RECEIVING WATER BODY EXISTS DUE TO THE PROPOSED WORK. TURBIDITY BARRIERS MUST BE MAINTAINED IN EFFECTIVE CONDITION AT ALL LOCATIONS UNTIL CONSTRUCTION IS COMPLETED AND DISTURBED SOIL AREAS ARE STABILIZED. THEREAFTER, THE CONTRACTOR MUST REMOVE THE BARRIERS. AT NO TIME SHALL THERE BE ANY OFF-SITE DISCHARGE WHICH VIOLATES THE WATER QUALITY STANDARDS IN CHAPTER 335-6-10, ALABAMA ADMINISTRATIVE CODE.
- SOD, WHERE CALLED FOR, MUST BE INSTALLED AND MAINTAINED ON EXPOSED SLOPES WITHIN 48 HOURS OF COMPLETING FINAL GRADING, AND AT ANY OTHER TIME AS NECESSARY, TO PREVENT EROSION, SEDIMENTATION OR TURBID DISCHARGES.
- THE CONTRACTOR MUST REVIEW AND MAINTAIN A COPY OF THE ENVIRONMENTAL RESOURCE PERMIT COMPLETE WITH ALL CONDITIONS, ATTACHMENTS, EXHIBITS, AND PERMIT MODIFICATIONS IN GOOD CONDITION AT THE CONSTRUCTION SITE. THE COMPLETE PERMIT MUST BE AVAILABLE FOR REVIEW UPON REQUEST BY WATER MANAGEMENT DISTRICT REPRESENTATIVES.
- THE CONTRACTOR SHALL ENSURE THAT ISLAND PLANTING AREAS AND OTHER PLANTING AREAS ARE NOT COMPACTED AND DO NOT CONTAIN ROAD BASE MATERIALS. THE CONTRACTOR SHALL ALSO EXCAVATE AND REMOVE ALL UNDESIRABLE MATERIAL FROM ALL AREAS ON THE SITE TO BE PLANTED AND PROPERLY DISPOSED OF IN A LEGAL MANNER.
- THE CONTRACTOR SHALL INSTALL ALL UNDERGROUND STORM WATER PIPING PER MANUFACTURER'S RECOMMENDATIONS.

MAINTENANCE

ALL MEASURES STATED ON THE EROSION AND SEDIMENT CONTROL PLAN, AND IN THE STORM WATER POLLUTION PREVENTION PLAN, SHALL BE MAINTAINED IN FULLY FUNCTIONAL CONDITION UNTIL NO LONGER REQUIRED FOR A COMPLETED PHASE OF WORK OR FINAL STABILIZATION OF THE SITE. ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE CHECKED BY A QUALIFIED PERSON AT LEAST ONCE EVERY SEVEN CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A 0.75" RAINFALL EVENT, AND CLEANED AND REPAIRED IN ACCORDANCE WITH THE FOLLOWING:

- INLET PROTECTION DEVICES AND BARRIERS SHALL BE REPAIRED OR REPLACED IF THEY SHOW SIGNS OF UNDERMINING, OR DETERIORATION.
- ALL SEEDED AREAS SHALL BE CHECKED REGULARLY TO SEE THAT A GOOD STRAND IS MAINTAINED. AREAS SHOULD BE FERTILIZED, WATERED AND RESEEDED AS NEEDED. FOR MAINTENANCE REQUIREMENTS REFER TO SECTION 665 OF THE ALDOT 2022 STANDARD SPECIFICATIONS.
- SILT FENCES SHALL BE REPAIRED TO THEIR ORIGINAL CONDITIONS IF DAMAGED. SEDIMENT SHALL BE REMOVED FROM THE SILT FENCES WHEN IT REACHES ONE-THIRD THE HEIGHT OF THE SILT FENCE.
- THE CONSTRUCTION ENTRANCES SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING OF THE CONSTRUCTION ENTRANCES AS CONDITIONS DEMAND.
- THE TEMPORARY PARKING AND STORAGE AREA SHALL BE KEPT IN GOOD CONDITION (SUITABLE FOR PARKING AND STORAGE). THIS MAY REQUIRE PERIODIC TOP DRESSING OF THE TEMPORARY PARKING AS CONDITIONS DEMAND.
- OUTLET STRUCTURES IN THE SEDIMENTATION BASINS SHALL BE MAINTAINED IN OPERATIONAL CONDITIONS AT ALL TIMES. SEDIMENT SHALL BE REMOVED FROM SEDIMENT BASINS OR TRAPS WHEN THE DESIGN CAPACITY HAS BEEN REDUCED BY 55 CUBIC YARDS / ACRE.
- ALL MAINTENANCE OPERATIONS SHALL BE DONE IN A TIMELY MANNER BUT IN NO CASE LATER THAN 2 CALENDAR DAYS FOLLOWING THE INSPECTION.

WATER AND SEWER UTILITY NOTES

- ALL WATER AND SEWER CONSTRUCTION SHALL CONFORM TO MAWSS AND ADEM STANDARDS AND SPECIFICATIONS.
- THE CONTRACTOR SHALL CONSTRUCT GRAVITY SEWER LATERALS, MANHOLES GRAVITY SEWER LINES AND DOMESTIC WATER AND FIRE PROTECTION SYSTEM AS SHOWN ON THESE PLANS. THE CONTRACTOR SHALL FURNISH ALL NECESSARY MATERIALS, EQUIPMENT, MACHINERY, TOOLS, MEANS OF TRANSPORTATION AND LABOR NECESSARY TO COMPLETE THE WORK IN FULL AND COMPLETE ACCORDANCE WITH THE SHOWN, DESCRIBED AND REASONABLY INTENDED REQUIREMENTS OF THE CONTRACT DOCUMENTS AND JURISDICTIONAL AGENCY REQUIREMENTS. IN THE EVENT THAT THE CONTRACT DOCUMENTS AND THE JURISDICTIONAL AGENCY REQUIREMENTS ARE NOT IN AGREEMENT, THE MOST STRINGENT SHALL GOVERN.
- ALL EXISTING UNDERGROUND UTILITY LOCATIONS SHOWN ARE APPROXIMATE. THE CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS FOR UTILITY LOCATION AND COORDINATION IN ACCORDANCE WITH THE NOTES CONTAINED IN THE GENERAL CONSTRUCTION SECTION OF THIS SHEET.
- DEFLECTION OF PIPE JOINTS AND CURVATURE OF PIPE SHALL NOT EXCEED THE MANUFACTURER'S SPECIFICATIONS. SECURELY CLOSE ALL OPEN ENDS OF PIPE AND FITTINGS WITH A WATERTIGHT PLUG WHEN WORK IS NOT IN PROGRESS. THE INTERIOR OF ALL PIPES SHALL BE CLEAN AND JOINT SURFACES WIPED CLEAN AND DRY AFTER THE PIPE HAS BEEN LOWERED INTO THE TRENCH. VALVES SHALL BE PLUMB AND LOCATED ACCORDING TO THE PLANS.
- ALL PHASES OF INSTALLATION, INCLUDING UNLOADING, TRENCHING, LAYING AND BACK FILLING, SHALL BE DONE IN A FIRST CLASS WORKMANLIKE MANNER. ALL PIPE AND FITTINGS SHALL BE CAREFULLY STORED FOLLOWING MANUFACTURER'S RECOMMENDATIONS. CARE SHALL BE TAKEN TO AVOID DAMAGE TO THE COATING OR LINING IN ANY D.I. PIPE FITTINGS. ANY PIPE OR FITTING WHICH IS DAMAGED OR WHICH HAS FLAWS OR IMPERFECTIONS WHICH, IN THE OPINION OF THE ENGINEER OR OWNER, RENDERS IT UNFIT FOR USE, SHALL NOT BE USED. ANY PIPE NOT SATISFACTORY FOR USE SHALL BE CLEARLY MARKED AND IMMEDIATELY REMOVED FROM THE JOB SITE, AND SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
- UNDERGROUND UTILITIES SHALL BE SURVEYED BY A STATE OF ALABAMA PROFESSIONAL LAND SURVEYOR PRIOR TO BACK FILLING.
- CONTRACTOR SHALL PERFORM, AT HIS OWN EXPENSE, ANY AND ALL TESTS REQUIRED BY THE SPECIFICATIONS AND/OR ANY AGENCY HAVING JURISDICTION. THESE TESTS MAY INCLUDE BUT MAY NOT BE LIMITED TO, INFILTRATION AND EXFILTRATION, TELEVISION INSPECTION AND A MANDREL TEST ON GRAVITY SEWER. A COPY OF THE TEST RESULTS SHALL BE PROVIDED TO THE UTILITY PROVIDER, OWNER AND JURISDICTIONAL AGENCY AS REQUIRED.


EROSION CONTROL NOTES

- THE CONTRACTOR SHALL UTILIZE EROSION CONTROL BEST MANAGEMENT PRACTICES (BMP'S) TO PREVENT THE DISCHARGE OF SEDIMENT-BEARING WATER RUNOFF OR AIRBORNE DUST FROM THE PROJECT SITE IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS DURING CONSTRUCTION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AN NPDES PERMIT FOR STORMWATER DISCHARGE FROM THE CONSTRUCTION SITE(S) FOR ALL WORK DESCRIBED IN THESE SPECIFICATIONS AND SHOWN ON THE DRAWINGS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MEET ALL REQUIREMENTS AND OBLIGATIONS OF THE PERMIT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY COSTS ASSOCIATED WITH MAKING APPLICATION FOR THE PERMIT AND FOR MEETING THE REQUIREMENTS OF THE PERMIT.

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSPECTION AND MAINTENANCE OF ALL BMP'S IN ACCORDANCE WITH THE REQUIREMENTS OF THE PERMITTING AUTHORITY.
- THE CONTRACTOR SHALL ENSURE THAT ALL DOWNSLOPE BMP'S ARE INSTALLED AND FUNCTIONAL BEFORE ANY LAND DISTURBING ACTIVITIES ARE COMMENCED ON ANY PORTION OF THE SITE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF ADDITIONAL BMP'S IF REQUIRED BY FIELD CONDITIONS. THE ARCHITECT/ENGINEER OR A PERMITTING AUTHORITY HAVING JURISDICTION OVER THE SITE.
- THE STORM WATER POLLUTION PREVENTION PLAN ("SWPPP") IS COMPRISED OF THIS EROSION CONTROL PLAN, THE STANDARD DETAILS, THE PLAN NARRATIVE, ATTACHMENTS INCLUDED IN SPECIFICATIONS OF THE SWPPP, PLUS THE PERMIT AND ALL SUBSEQUENT REPORTS AND RELATED DOCUMENTS.
- ALL CONTRACTORS AND SUBCONTRACTORS INVOLVED WITH STORM WATER POLLUTION PREVENTION SHALL OBTAIN A COPY OF THE STORM WATER POLLUTION PREVENTION PLAN AND THE STATE OF ALABAMA NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM GENERAL PERMIT (NPDES PERMIT) AND BECOME FAMILIAR WITH THEIR CONTENTS.
- THE CONTRACTOR SHALL IMPLEMENT BEST MANAGEMENT PRACTICES AS REQUIRED BY THE SWPPP. ADDITIONAL BEST MANAGEMENT PRACTICES SHALL BE IMPLEMENTED AS DICTATED BY CONDITIONS AT NO ADDITIONAL COST TO THE OWNER THROUGHOUT ALL PHASES OF CONSTRUCTION.
- BEST MANAGEMENT PRACTICES (BMP'S) AND CONTROLS SHALL CONFORM TO FEDERAL, STATE, OR LOCAL REQUIREMENTS OR MANUAL OF PRACTICE, AS APPLICABLE. THE CONTRACTOR SHALL IMPLEMENT ADDITIONAL CONTROLS AS DIRECTED BY THE PERMITTING AGENCY OR OWNER.
- PERMITS FOR ANY CONSTRUCTION ACTIVITY IMPACTING STATE WATERS OR REGULATED WETLANDS MUST BE MAINTAINED ON SITE AT ALL TIMES.
- THE CONTRACTOR SHALL MINIMIZE CLEARING TO THE MAXIMUM EXTENT PRACTICAL OR AS REQUIRED BY THE GENERAL PERMIT.
- ALL WASH WATER (CONCRETE TRUCKS, VEHICLE CLEANING, EQUIPMENT CLEANING, ETC.) SHALL BE DETAINED AND PROPERLY TREATED OR DISPOSED.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR DUST CONTROL ON SITE. THE USE OF MOTOR OILS AND OTHER PETROLEUM BASED OR TOXIC LIQUIDS FOR DUST SUPPRESSION OPERATIONS IS PROHIBITED.
- RUBBISH, TRASH, GARBAGE, LITTER, OR OTHER SUCH MATERIALS SHALL BE DEPOSITED INTO SEALED CONTAINERS. MATERIALS SHALL BE PREVENTED FROM LEAVING THE PREMISES THROUGH THE ACTION OF WIND OR STORM WATER DISCHARGE INTO DRAINAGE DITCHES OR WATERS OF THE STATE.
- ALL STORM WATER POLLUTION PREVENTION MEASURES PRESENTED ON THE PLAN, SHALL BE INITIATED AS SOON AS PRACTICABLE.
- STABILIZATION PRACTICES SHOULD BE INITIATED AS SOON AS PRACTICAL, BUT IN NO CASE MORE THAN 7 DAYS WHERE CONSTRUCTION HAS TEMPORARILY CEASED.
- DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITY HAS PERMANENTLY STOPPED SHALL BE PERMANENTLY SEEDED OR SODDED. THESE AREAS SHALL BE ADDRESSED NO LATER THAN 7 DAYS AFTER THE LAST CONSTRUCTION ACTIVITY OCCURRED IN THESE AREAS.
- IF THE ACTION OF VEHICLES TRAVELING OVER THE GRAVEL CONSTRUCTION ENTRANCES IS NOT SUFFICIENT TO REMOVE THE MAJORITY OF DIRT OR MUD, THEN THE TIRES MUST BE WASHED BEFORE THE VEHICLES ENTER A PUBLIC ROAD. IF WASHING IS USED, PROVISIONS MUST BE MADE TO INTERCEPT THE WASH WATER AND TRAP THE SEDIMENT BEFORE IT IS CARRIED OFF THE SITE.
- ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLES ONTO ROADWAYS OR INTO STORM DRAINS MUST BE REMOVED AS SOON AS POSSIBLE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING SEDIMENT IN THE DETENTION POND AND ANY SEDIMENT THAT MAY HAVE COLLECTED IN THE STORM SEWER DRAINAGE SYSTEMS IN CONJUNCTION WITH THE STABILIZATION OF THE SITE.
- ON-SITE & OFF SITE SOIL STOCKPILE AND BORROW AREAS SHALL BE PROTECTED FROM EROSION AND SEDIMENTATION THROUGH IMPLEMENTATION OF BEST MANAGEMENT PRACTICES. STOCKPILE AND BORROW AREA LOCATIONS SHALL BE NOTED ON THE EROSION CONTROL PLAN AND PERMITTED IN ACCORDANCE WITH GENERAL PERMIT REQUIREMENTS.
- SLOPES SHALL BE LEFT IN A ROUGHENED CONDITION DURING THE GRADING PHASE TO REDUCE RUNOFF VELOCITIES AND EROSION. ONCE GRADING IS COMPLETE, SLOPES SHALL BE STABILIZED WITH SOD AS SOON AS PRACTICAL.
- DUE TO GRADE CHANGES DURING THE DEVELOPMENT OF THE PROJECT, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTING THE EROSION CONTROL MEASURES (SILT FENCES, ETC.) TO PREVENT EROSION.
- ALL CONSTRUCTION SHALL BE STABILIZED AT THE END OF EACH WORKING DAY. THIS INCLUDES BACK FILLING OF TRENCHES FOR UTILITY CONSTRUCTION AND PLACEMENT OF GRAVEL OR BITUMINOUS PAVING FOR ROAD CONSTRUCTION.
- ALL PROPOSED SILT FENCE LOCATED WITHIN THE CRITICAL PROTECTION ZONE OF A TREE SHALL BE OF A NON-TRENCHED VARIETY, UNLESS ARBORICULTURAL MITIGATION STATES OTHERWISE.

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KHA PROJECT
142920003

DATE
2/2/2024

SCALE AS SHOWN

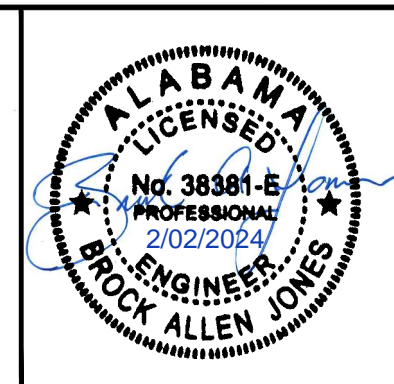
DESIGNED BY: BAJ

DRAWN BY: SDN

CHECKED BY: JLG

MEDAL OF HONOR PARK SITE AND LIGHTING IMPROVEMENTS
 PREPARED FOR
CITY OF MOBILE

CITY OF MOBILE ALABAMA



GENERAL NOTES

SHEET NUMBER
G-02

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EROSION CONTROL NOTES CONT'D

21. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER INSTALLATION OF THE EROSION CONTROL DEVICES, AS SHOWN ON THE CONSTRUCTION PLANS. PRIOR TO ANY SITE CLEARING AND/OR DEMOLITION, REFER TO THE "EROSION CONTROL NOTES" SECTION CONTAINED HEREIN FOR ADDITIONAL REQUIREMENTS.
22. PRIOR TO ANY SITE CLEARING, ALL TREES SHOWN TO REMAIN, AS INDICATED ON THE CONSTRUCTION PLANS, SHALL BE PROTECTED IN ACCORDANCE WITH LOCAL TREE ORDINANCES AND DETAILS CONTAINED IN THESE PLANS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN THESE TREES IN GOOD CONDITION. NO TREE(S) SHOWN TO REMAIN SHALL BE REMOVED WITHOUT WRITTEN APPROVAL FROM THE OWNER AND THE LOCAL AGENCY HAVING JURISDICTION OVER THESE ACTIVITIES.
23. THE TOP 4" TO 6" OF GROUND REMOVED DURING CLEARING AND GRUBBING ACTIVITIES SHALL BE STOCKPILED, TO BE USED FOR LANDSCAPING PURPOSES, UNLESS OTHERWISE DIRECTED BY THE OWNER. REMAINING EARTHWORK THAT RESULTS FROM CLEARING AND GRUBBING OR SITE EXCAVATION IS TO BE UTILIZED ON-SITE, PROVIDED THE MATERIAL IS DEEMED SUITABLE BY THE OWNER'S SOILS TESTING COMPANY. EXCESS MATERIAL IS TO EITHER BE STOCKPILED ON-SITE, AS DIRECTED BY THE OWNER OR OWNER'S ENGINEER, OR REMOVED FROM THE SITE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ACQUIRING ANY PERMITS THAT ARE NECESSARY FOR REMOVING ANY EXCESS MATERIAL FROM THE SITE.
24. ALL EXISTING DEBRIS (ABOVE OR BELOW GROUND), CONSTRUCTION DEBRIS AND OTHER WASTE MATERIAL SHALL BE DISPOSED OF OFF-SITE BY THE CONTRACTOR, IN ACCORDANCE WITH APPLICABLE REGULATORY AGENCY REQUIREMENTS.
25. THE CONTRACTOR SHALL REMOVE ALL VEGETATION, SURPLUS SOIL, DEMOLITION RUBBLE, AND OTHER UNDESIRABLE MATERIALS. SUCH MATERIALS SHALL BE PROMPTLY HAULED FROM THE SITE AND DISPOSED OF IN ACCORDANCE WITH GOVERNING LAWS AND CODES.
26. PROTECTION OF EXISTING STORM SEWER SYSTEMS: DURING CONSTRUCTION, ALL STORM SEWER INLETS IN THE VICINITY OF THE PROJECT SHALL BE PROTECTED BY SEDIMENT TRAPS SUCH AS SECURED HAY BALES, SOD, STONE, ETC., WHICH SHALL BE MAINTAINED AND MODIFIED AS REQUIRED BY CONSTRUCTION PROGRESS, AND WHICH MUST BE APPROVED BY THE ENGINEER BEFORE INSTALLATION.
27. SWALES, DITCHES AND CHANNELS: CHANNELS LEADING FROM THE SITE SHALL BE SODDED WITH BERMUDA WITHIN THREE (3) DAYS OF EXCAVATION.
28. ALL EROSION AND SILTATION CONTROL DEVICES: SHALL BE REGULARLY INSPECTED AND MAINTAINED, (ESPECIALLY AFTER EACH RAINFALL) AND WILL BE CLEANED OUT AND/OR REPAIRED AS REQUIRED.
29. APPLICATION RATES AND METHODS FOR USE OF FERTILIZERS AND PESTICIDES AT THE CONSTRUCTION SITE SHALL CONFORM WITH ALL LOCAL AND STATE ORDINANCES. NUTRIENTS SHALL BE APPLIED ONLY AT RATES NECESSARY TO ESTABLISH AND MAINTAIN VEGETATION SUCH THAT DISCHARGES WILL NOT CAUSE OR CONTRIBUTE TO VIOLATIONS OF STATE SURFACE OR GROUNDWATER QUALITY STANDARDS.

CITY OF MOBILE ENGINEERING NOTES

1. THE CONTRACTOR SHALL NOTIFY THE CITY OF MOBILE ENGINEERING PERMITTING DEPARTMENT VIA EMAIL AT LAND.DISTURBANCE@CITYOFMOBILE.ORG A MINIMUM OF 24 HOURS PRIOR TO BEGINNING ANY WORK ON THE SITE FOR ASSIGNMENT OF THE CITY ENGINEERING INSPECTOR AND TO SCHEDULE AN INITIAL ON-SITE BMP INSPECTION. FAILURE TO CONTACT THE CITY ENGINEERING DEPARTMENT PRIOR TO BEGINNING ANY WORK IS A VIOLATION OF THE STORM WATER MANAGEMENT AND FLOOD CONTROL ORDINANCE AND MAY INVOKE ENFORCEMENT ACTION IN THE FORM OF A MUNICIPAL OFFENSE TICKET.
 - a. A VIDEO SHALL BE SUBMITTED TO THE CITY SHOWING THE NEW DRAINAGE PIPES. THE PIPE MUST BE VIDEOED AFTER THE PROJECT'S COMPLETION. SUBMIT THE VIDEO TO THE CITY OF MOBILE WITH THE ENGINEER'S AS-BUILT CERTIFICATION PACKAGE. THE VIDEO NEEDS TO BE REVIEWED BY THE PROJECT ENGINEER BEFORE BEING SUBMITTED TO THE CITY. EACH JOINT NEEDS TO BE PANNED LEFT AND RIGHT AS WELL AS ANY DEFICIENCIES BEING WELL DOCUMENTED VIA VIDEOGRAPHY, INCLUDING A WRITTEN REPORT.
 - b. THE CONTRACTOR IS RESPONSIBLE FOR DAILY INSPECTION AND CONTINUED MAINTENANCE OF EROSION CONTROL ELEMENTS.
 - c. ANY DISTURBED AREAS MAY NOT REMAIN DENUDED LONGER THAN 10 DAYS.
2. THE LAND DISTURBANCE PERMIT SHALL EXPIRE UPON THE COMPLETION OF THE WORK OR NOT LATER THAN ONE (1) YEAR FROM THE DATE OF APPROVAL. (COM ORDINANCE CH. 17-6.A)
3. THE CONTRACTOR SHALL SIZE, INSTALL, AND MAINTAIN ADEQUATE CONTROLS FOR THE SITE. REFER TO THE ALABAMA HANDBOOK FOR EROSION CONTROL, SEDIMENT CONTROL AND STORMWATER MANAGEMENT ON CONSTRUCTION SITES AND URBAN AREAS, LATEST EDITION.
4. THE CONTRACTOR IS RESPONSIBLE FOR DAILY INSPECTION AND CONTINUED MAINTENANCE OF EROSION CONTROL ELEMENTS.
5. THE CONTRACTOR SHALL WORK TO MINIMIZE DISTURBED AREAS ON THE SITE AS MUCH AS PRACTICALLY POSSIBLE. ANY DISTURBED AREA(S) SHALL NOT REMAIN DENUDED LONGER THAN 10 DAYS.
6. IF THE DISTURBED AREA INCREASES DURING CONSTRUCTION (I.E. THE EXISTING ASPHALT PAVEMENT IS REMOVED INSTEAD OF OVERLAID) TO OVER 1 ACRE, THEN WORK SHALL STOP UNTIL AN ADEM GENERAL CONSTRUCTION PERMIT AND A CITY OF MOBILE TIER 1 LAND DISTURBANCE PERMIT IS OBTAINED AND APPROVED.
7. UPON PROJECT COMPLETION, AN AS-BUILT ACCEPTANCE PACKAGE SHALL BE SUBMITTED TO THE CITY OF MOBILE INCLUDING:
 - a. ENGINEER'S AS-BUILT CERTIFICATION FOR COMMERCIAL AND RESIDENTIAL SITE WORK
 - b. TWO (2) HARDCOPIES AND PDF OF THE AS-BUILT PLANS
 - c. CAD (DXF, DWG, OR DGN) OR GIS (SHP) FILE OF THE AS-BUILT PLANS SHOWING ALL
 - d. DRAINAGE AND/OR UTILITY INSTALLATIONS CONSTRUCTED CORRECTLY REFERENCED TO NAD83 ALABAMA STATE PLANE COORDINATE SYSTEM (WEST ZONE) IN U.S. SURVEY FEET OR IN A FORMAT APPROVED BY THE ENGINEERING AND GIS DEPARTMENT COMPATIBLE WITH THE CITY OF MOBILE GIS SYSTEM

- e. EXECUTED AND RECORDED DETENTION AREA AND WATER QUALITY MAINTENANCE PLAN/AGREEMENT AND CITY RIGHTOF ENTRY-EASEMENT
- f. ADEM NOTICE OF TERMINATION
- g. STORM DRAINAGE VIDEO FILES AND A WRITTEN REPORT FOR ALL DRAINAGE PIPES UTILIZED FOR PRIVATE UNDERGROUND DETENTION, CONNECTING TO OR PLACED WITHIN THE ROW OR PUBLIC EASEMENTS (E.G. OUTFALL TO CITY DRAINAGE SYSTEM CONNECTION), OR EXISTING DRAINAGE PIPES CARRYING CITY OF MOBILE SYSTEM STORMWATER THROUGH PRIVATE PROPERTY. THE VIDEO SHALL PAN LEFT AND RIGHT AT ALL JOINTS AND PROVIDE ADEQUATE VIDEO-GRAPHIC DOCUMENTATION OF ANY DEFICIENCIES. THE REPORT SHALL INCLUDE PIPE LAYOUT PLAN WITH NOMENCLATURE MATCHING THE AS-BUILT DRAINAGE PLANS AND, FOR EACH PIPE VIDEOED, A SHEET DETAILING THE PIPE PROPERTIES (E.G NAME, SIZE, MATERIAL, ETC.) WITH A DIAGRAM SHOWING THE STATIONS AND VIDEO TIME STAMPS OF THE BEGINNING, END, AND ANY DEFICIENCIES NOTED. THE VIDEO AND REPORT SHALL BE REVIEWED BY THE ENGINEER OF RECORD PRIOR TO SUBMISSION WITH ANY NECESSARY COMMENTS PROVIDED ON THE ENGINEER'S AS-BUILT CERTIFICATION.
8. DETENTION POND MAINTENANCE RESPONSIBILITY LIES SOLELY ON THE OWNER. THE CITY OF MOBILE IS NOT RESPONSIBLE.

CITY OF MOBILE URBAN FORESTRY

1. A PERMIT FROM THE URBAN FORESTER IS REQUIRED FOR REMOVING, TRIMMING, OR RELOCATING HERITAGE TREES, INCLUDING 24 INCH OR LARGER LIVE OAKS, ON PRIVATE PROPERTY.
2. ALL WORK BEING DONE BEHIND THE CURB AND UNDER THE DRIP LINE OF THE TREES SHALL BE HAND DUG TO A DEPTH OF 24 INCHES BEFORE THE MECHANICAL EQUIPMENT CAN BE USED.
3. NO TREE ROOTS 3 INCHES IN DIAMETER OR LARGER WILL BE CUT PRIOR TO APPROVAL BY THE CITY OF MOBILE CERTIFIED ARBORIST.
4. ALL ROOTS ON TREES IN THE PROJECT AREA THAT REQUIRE CUTTING SHALL BE CLEAN CUT WITH A SHARP CUTTING TOOL.
5. NO LIMBS SHALL BE REMOVED ON EXISTING TREES WITHOUT AUTHORIZATION BY CITY OF MOBILE CERTIFIED ARBORIST.
6. NO CHEMICALS OR WASTE SHALL BE DISPOSED OF ON CITY RIGHT-OF-WAY OR WITHIN CRITICAL ROOT ZONE.
7. AT LOCATIONS WHERE TREES ARE ON THE CITY RIGHT-OF-WAY, NO VEHICLES, HEAVY EQUIPMENT, OR CONSTRUCTION MATERIALS SHALL BE STORED OR PARKED NEXT TO OR BENEATH THE TREES.
8. WORK INSIDE THE CRITICAL ROOT ZONE WILL BE HAND DUG AND ROOTS WILL BE AVOIDED FOR SERVICE CONNECTIONS. THE CRITICAL ROOT ZONE IS THE DIAMETER OF THE TREE MEASURED IN INCHES AT 4 ½ FEET ABOVE THE GROUND. THE MEASUREMENT IS CHANGED INTO FEET. DIVIDED IN HALF AND MEASURED FROM THE TRUNK OF THE TREE IN ALL DIRECTIONS. THE CRZ DOES NOT EXTEND INTO THE ROAD. PLEASE CALL PETER TOLER AT 208-1522 WITH ANY QUESTIONS REGARDING THE CRITICAL ROOT ZONE.
9. TEMPORARY FENCING SHALL BE INSTALLED DURING CONSTRUCTION AROUND ALL TREES THAT ARE SCHEDULED TO REMAIN TO PREVENT DAMAGE TO THE TREE. FENCING SHALL BE PLACED AT THE DRIPLINE OF THE TREE. IF IT IS NOT POSSIBLE TO LOCATE FENCING AT THE DRIPLINE THEN FENCING SHALL BE LOCATED OUTSIDE THE CRITICAL ROOT ZONE. TREE FENCING SHALL BE PLACED AT A RADIUS OF TEN FEET (10) FROM THE TREE BASE, WHERE THIS CONFLICTS WITH PROPOSED STRUCTURES (INCLUDING BUT NOT LIMITED TO CURB, PAVEMENT, AND SIDEWALK) THE FENCE AREA SHALL BE PLACED AT THE MAXIMUM RADIUS TO ALLOW CONSTRUCTION AND NOT LESS THAN 5 FEET (5) FROM THE TREE BASE. FOR GRADING, SEEDING, OR PAVING WORK THAT MUST BE PERFORMED AND COMPLETED NEXT TO/NEAR THE TREE. THE FENCING MAY BE REMOVED AT THE TIME THE WORK IS STARTED IN THIS AREA AND REPLACED IMMEDIATELY FOLLOWING COMPLETION OF WORK IN THIS AREA. THIS IS TO PROTECT THE TRUNK OF THE TREE AND THE BASE OF THE TREE FROM DAMAGE DURING CONSTRUCTION AS REQUIRED IN CHAPTER 64 SECTION H TREE PROTECTION OF THE CITY CODE.
10. BORE PITS AND SPLICE PITS SHALL BE LOCATED OUTSIDE OF THE DRIP LINE OF EXISTING TREES WHEN POSSIBLE. IF NOT POSSIBLE TO LOCATE BORE PITS AND SPLICE PITS OUTSIDE OF THE DRIP LINE, THEN BORE PITS AND SPLICE PITS SHALL BE LOCATED OUTSIDE THE CRITICAL ROOT ZONE OF EXISTING TREE ON RIGHT-OF-WAY. THE CRITICAL ROOT ZONE IS THE DIAMETER OF THE TREE MEASURED IN INCHES AT 4 ½ FEET ABOVE THE GROUND. THE MEASUREMENT IS CHANGED INTO FEET. DIVIDED IN HALF AND MEASURED FROM THE TRUNK OF THE TREE IN ALL DIRECTIONS. THE CRZ DOES NOT EXTEND INTO THE ROAD. PLEASE CALL PETER TOLER AT 208-1522 WITH ANY QUESTIONS REGARDING THE CRITICAL ROOT ZONE.

No.	REVISIONS	DATE	BY

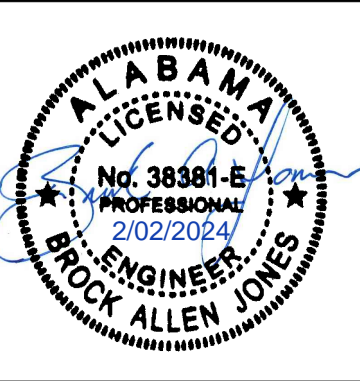


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KHA PROJECT	142920003
DATE	2/2/2024
SCALE	AS SHOWN
DESIGNED BY:	BAJ
DRAWN BY:	SDN
CHECKED BY:	JLG

MEDAL OF HONOR PARK SITE AND LIGHTING IMPROVEMENTS
 PREPARED FOR
CITY OF MOBILE

CITY OF MOBILE ALABAMA



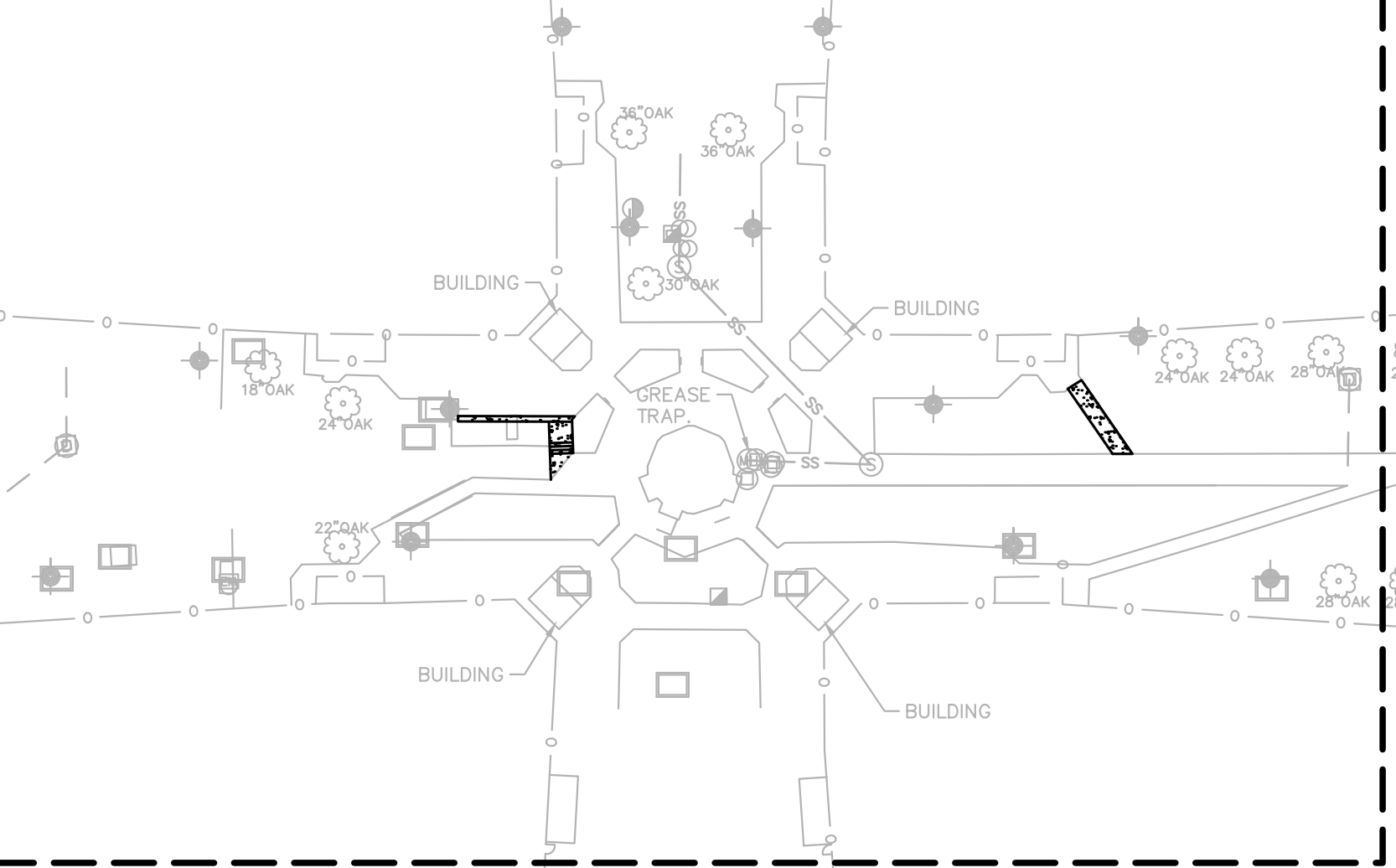
GENERAL NOTES

SHEET NUMBER	G-03
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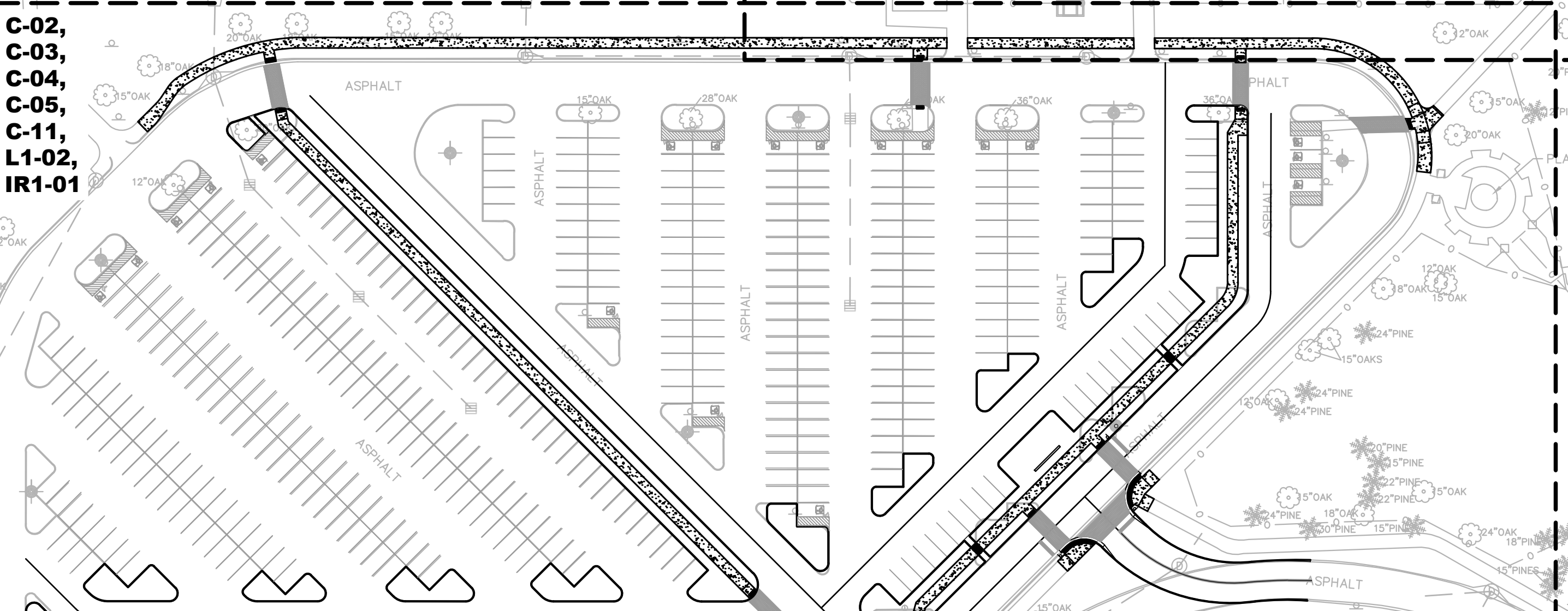
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C-14,
L1-04**



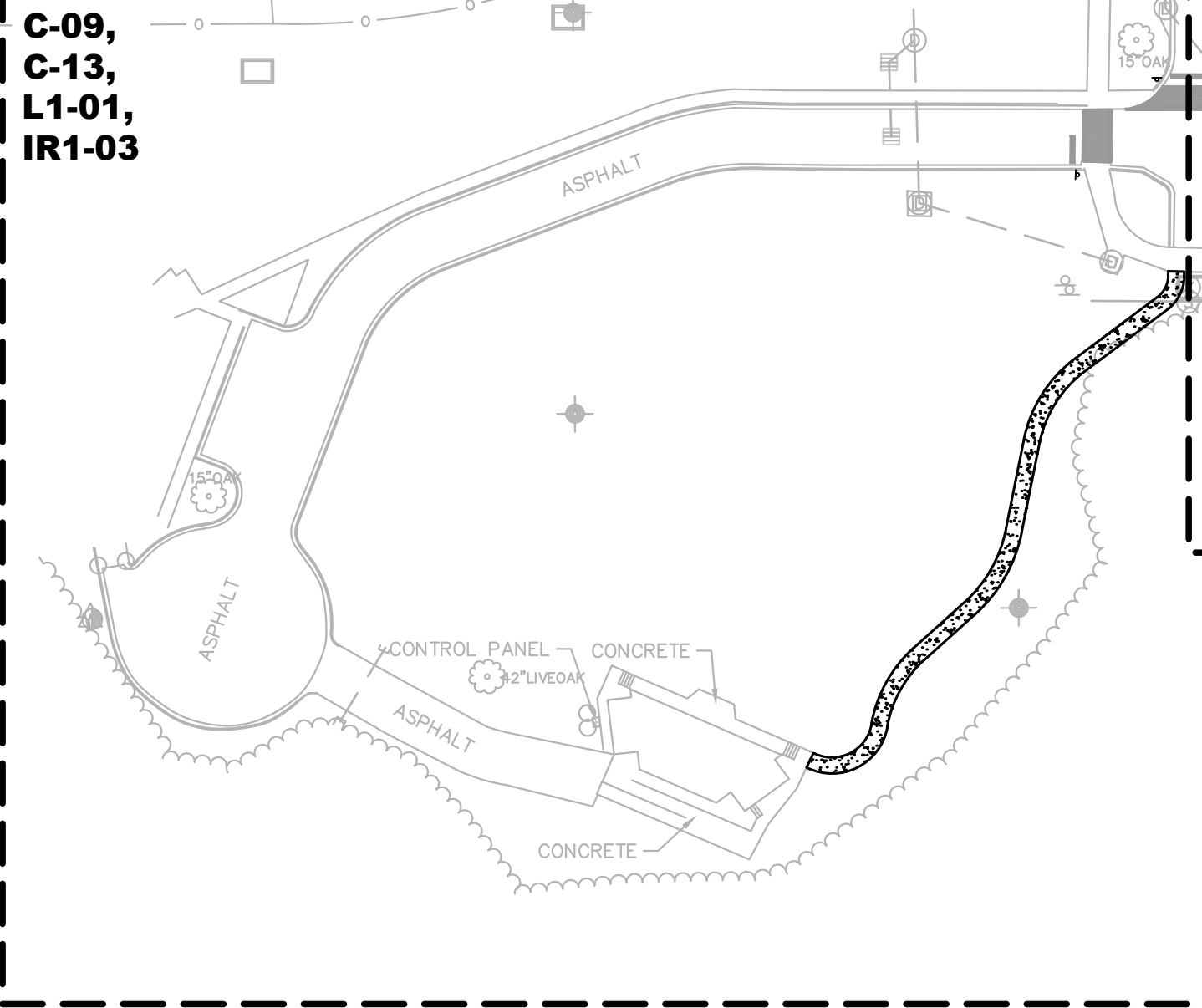
PARKING LOT IMPROVEMENTS

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C-03,
C-04,
C-05,
C-11,
L1-02,
IR1-01**



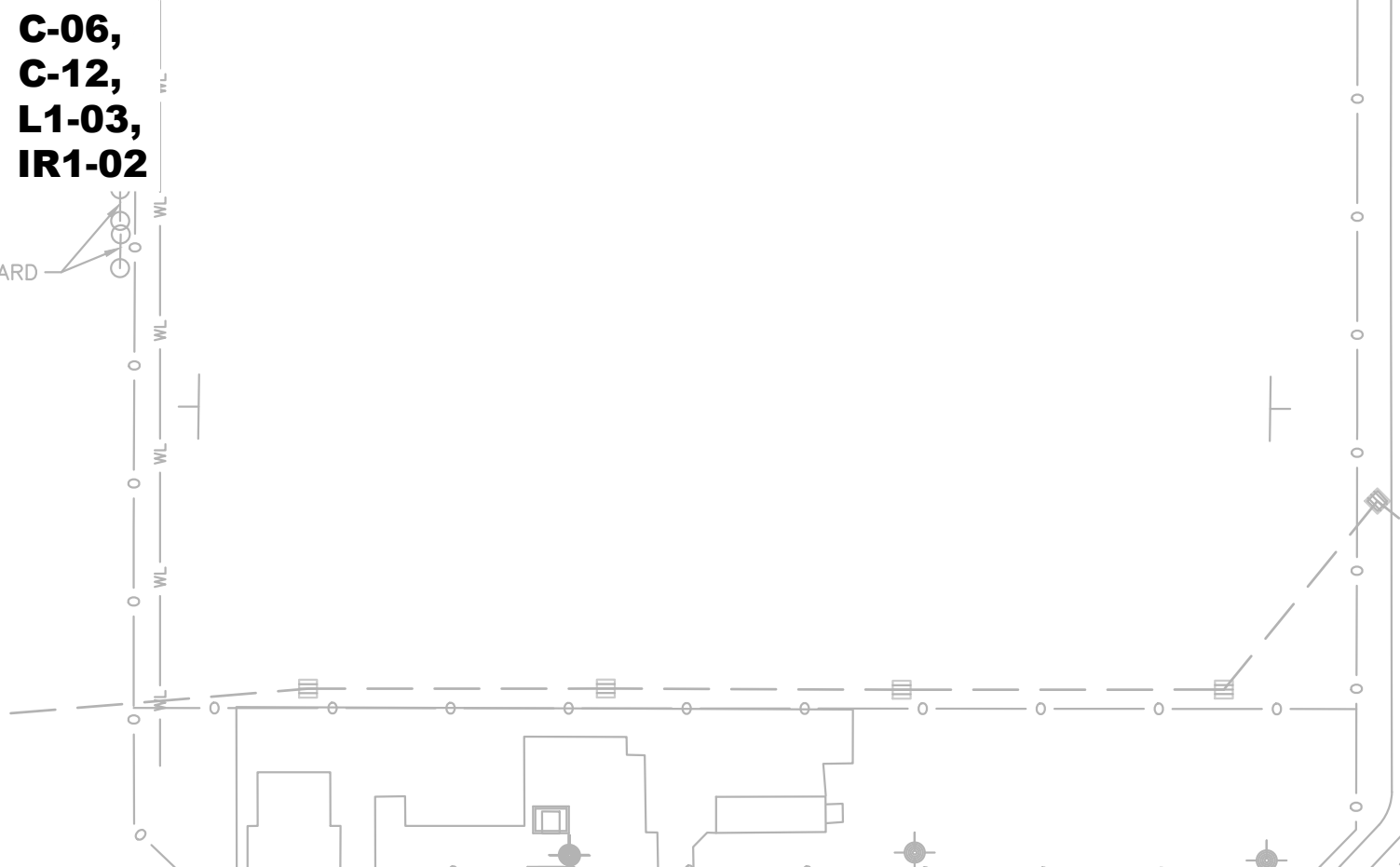
AMPHITHEATER IMPROVEMENTS

**C-09,
C-13,
L1-01,
IR1-03**



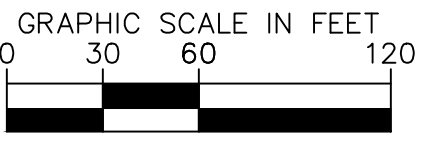
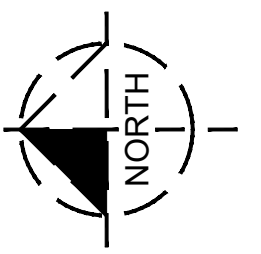
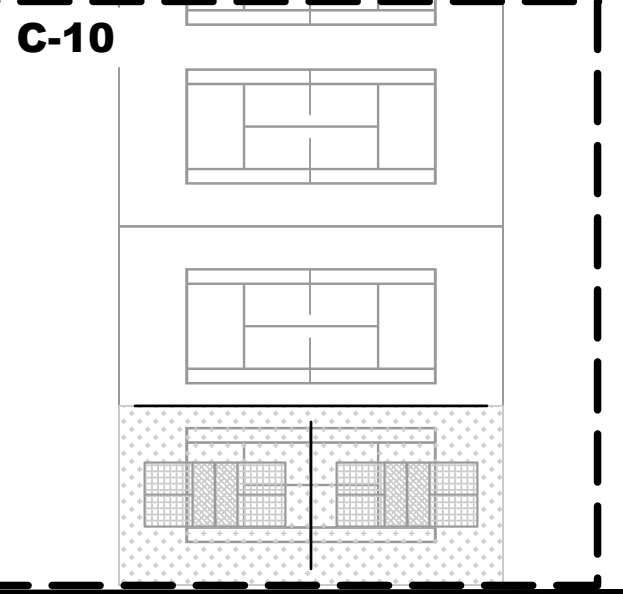
FOOTBALL FIELD IMPROVEMENTS

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C-12,
L1-03,
IR1-02**



TENNIS / PICKLEBALL COMPLEX IMPROVEMENTS

C-10



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KHA PROJECT
142920003
DATE
2/2/2024
SCALE AS SHOWN
DESIGNED BY: BAJ
DRAWN BY: SDN
CHECKED BY: JLG

MEDAL OF HONOR PARK SITE AND LIGHTING IMPROVEMENTS
PREPARED FOR
CITY OF MOBILE

CITY OF MOBILE

ALABAMA



KEY MAP

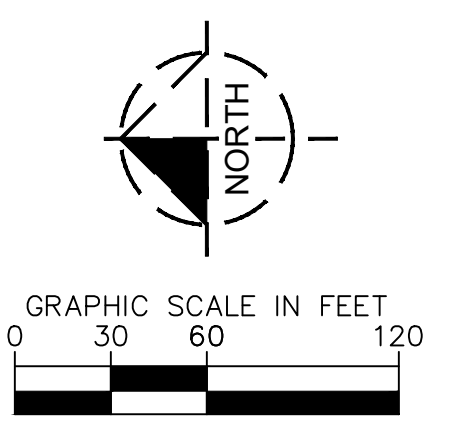
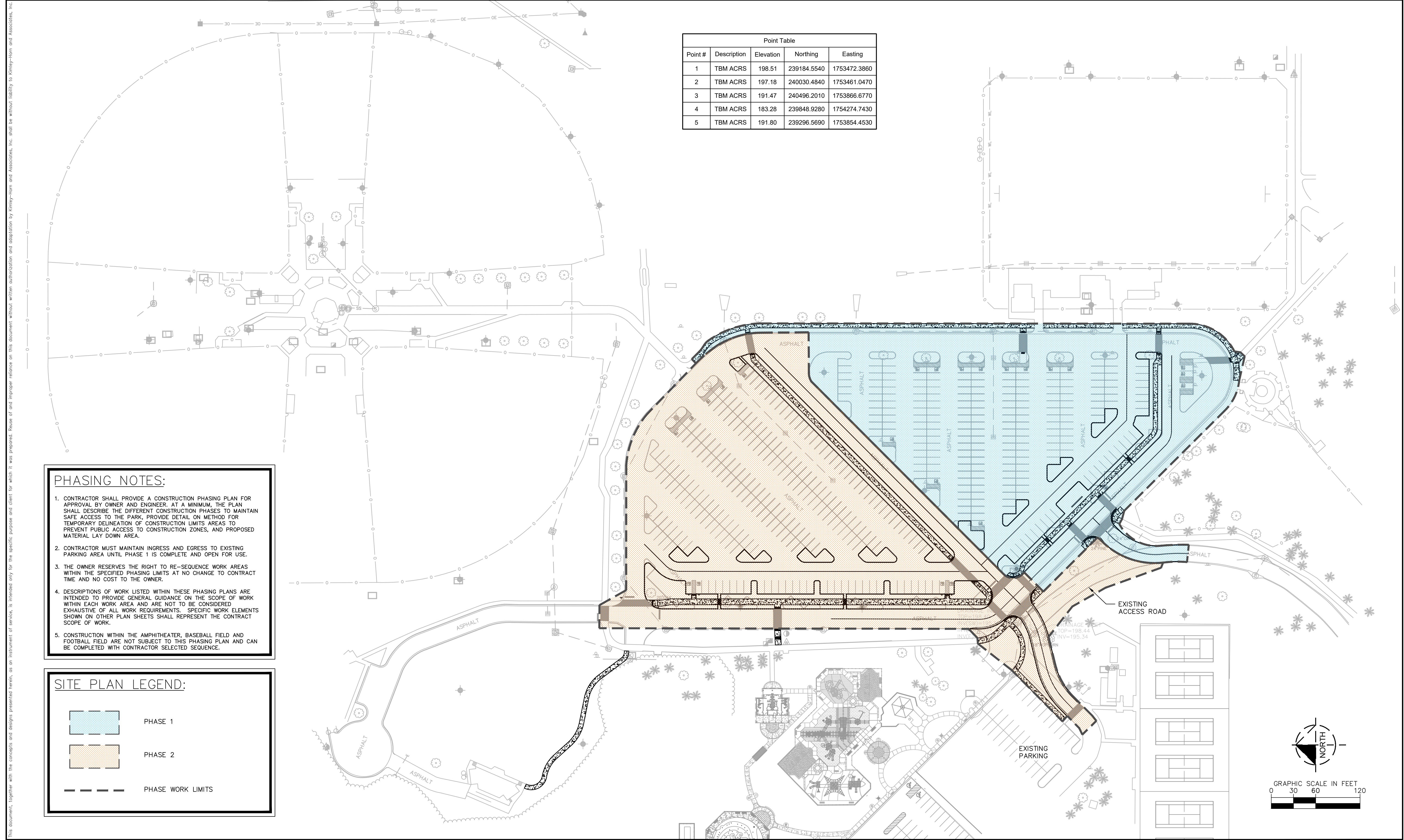
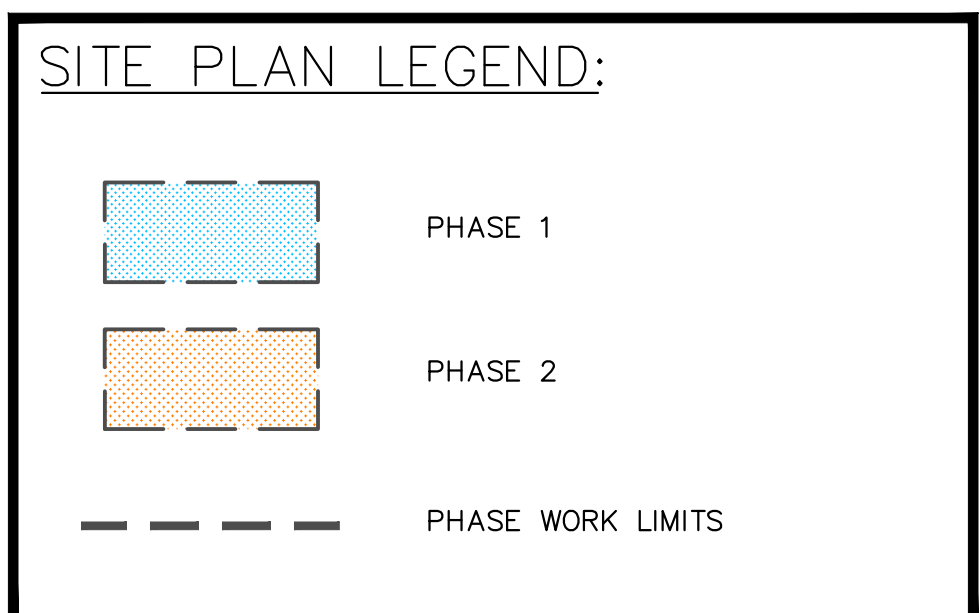
SHEET NUMBER

G-04

No.	REVISIONS	DATE	BY

Point Table				
Point #	Description	Elevation	Northing	Easting
1	TBM ACRS	198.51	239184.5540	1753472.3860
2	TBM ACRS	197.18	240030.4840	1753461.0470
3	TBM ACRS	191.47	240496.2010	1753866.6770
4	TBM ACRS	183.28	239848.9280	1754274.7430
5	TBM ACRS	191.80	239296.5690	1753854.4530

- PHASING NOTES:**
1. CONTRACTOR SHALL PROVIDE A CONSTRUCTION PHASING PLAN FOR APPROVAL BY OWNER AND ENGINEER. AT A MINIMUM, THE PLAN SHALL DESCRIBE THE DIFFERENT CONSTRUCTION PHASES TO MAINTAIN SAFE ACCESS TO THE PARK, PROVIDE DETAIL ON METHOD FOR TEMPORARY DELINEATION OF CONSTRUCTION LIMITS AREAS TO PREVENT PUBLIC ACCESS TO CONSTRUCTION ZONES, AND PROPOSED MATERIAL LAY DOWN AREA.
 2. CONTRACTOR MUST MAINTAIN INGRESS AND EGRESS TO EXISTING PARKING AREA UNTIL PHASE 1 IS COMPLETE AND OPEN FOR USE.
 3. THE OWNER RESERVES THE RIGHT TO RE-SEQUENCE WORK AREAS WITHIN THE SPECIFIED PHASING LIMITS AT NO CHANGE TO CONTRACT TIME AND NO COST TO THE OWNER.
 4. DESCRIPTIONS OF WORK LISTED WITHIN THESE PHASING PLANS ARE INTENDED TO PROVIDE GENERAL GUIDANCE ON THE SCOPE OF WORK WITHIN EACH WORK AREA AND ARE NOT TO BE CONSIDERED EXHAUSTIVE OF ALL WORK REQUIREMENTS. SPECIFIC WORK ELEMENTS SHOWN ON OTHER PLAN SHEETS SHALL REPRESENT THE CONTRACT SCOPE OF WORK.
 5. CONSTRUCTION WITHIN THE AMPHITHEATER, BASEBALL FIELD AND FOOTBALL FIELD ARE NOT SUBJECT TO THIS PHASING PLAN AND CAN BE COMPLETED WITH CONTRACTOR SELECTED SEQUENCE.



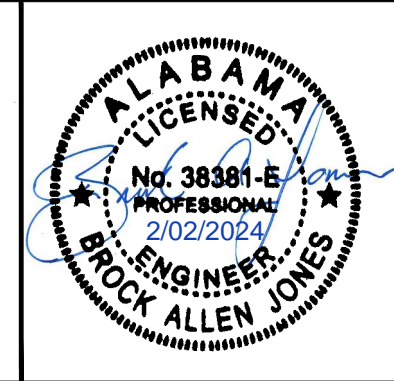
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MEDAL OF HONOR PARK SITE AND LIGHTING IMPROVEMENTS
 PREPARED FOR
CITY OF MOBILE
 CITY OF MOBILE ALABAMA



SITE PHASING PLAN

SHEET NUMBER
G-05

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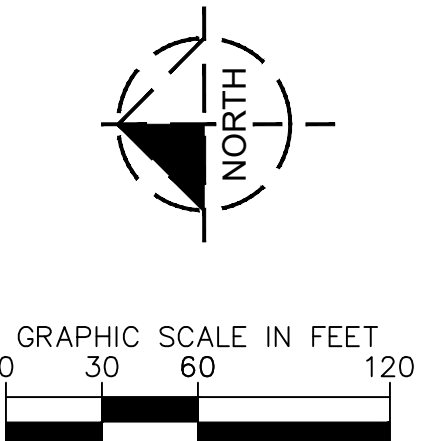
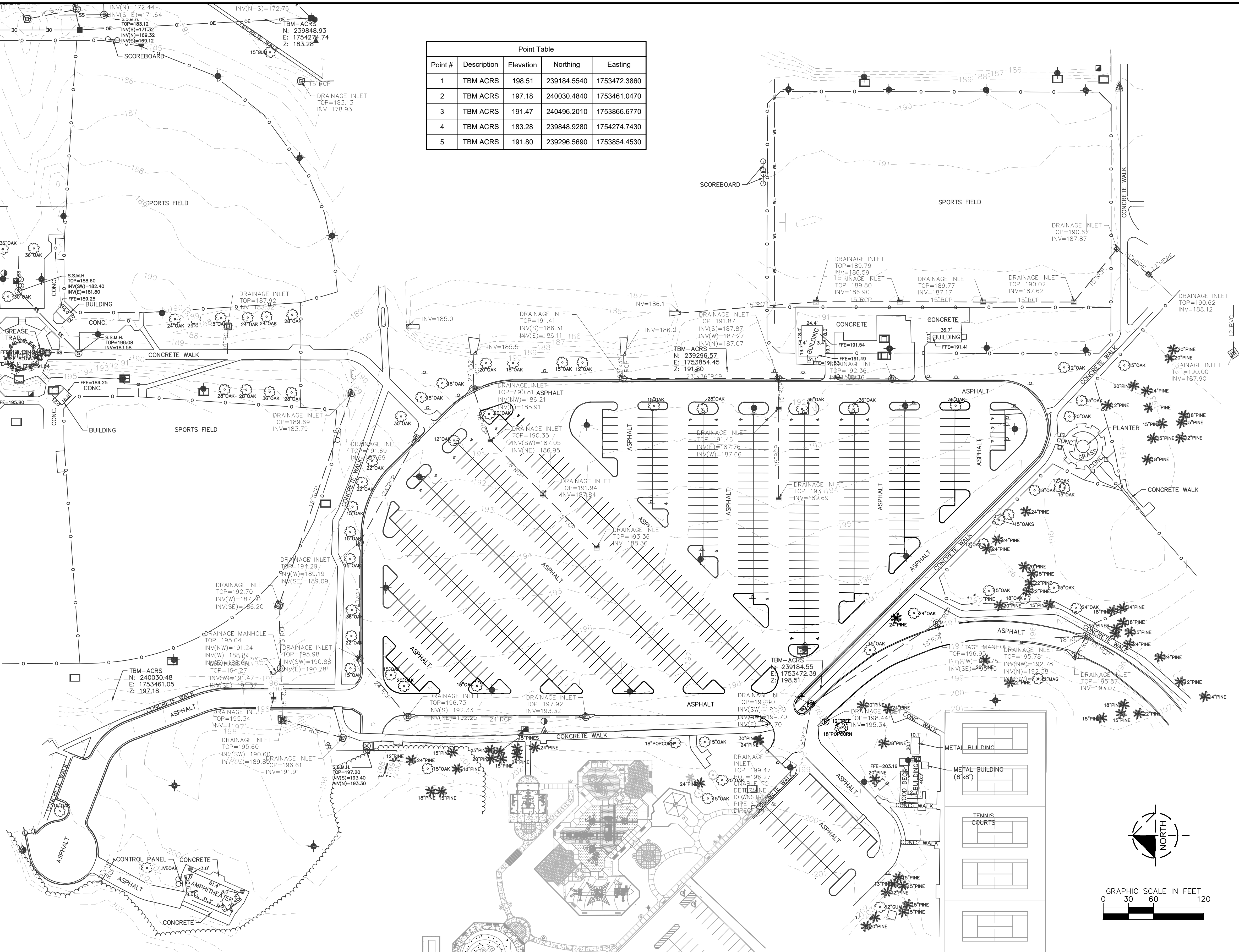
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5	TBM ACRS	191.80	239296.5690	1753854.4530

EXISTING CONDITIONS LEGEND:

● ACRS ALUMINUM CAPPED REBAR SET	PVC POLYVINYL CHLORIDE PIPE
XFEE FINISHED FLOOR ELEVATION	RCP REINFORCED CONCRETE PIPE
■ AIR CONDITIONING UNIT	HDPE HIGH DENSITY POLYETHYLENE
■ POWER POLE	INV PIPE INVERT
▲ GUY WIRE	S.S.M.H. SANITARY SEWER MANHOLE
● LIGHT POLE	ELEV ELEVATION
⊖ ELECTRIC METER	CONC CONCRETE
■ WATER METER	--- WOODS LINE
▲ WATER VALVE	— GUARD RAIL
▲ FIRE HYDRANT	— SS SANITARY SEWER
▲ IRRIGATION CONTROL VALVE	— CHAIN LINK FENCE
● TELEPHONE PEDESTAL	— OE OVERHEAD ELECTRIC
⊕ CLEAN OUT	194 --- 1' CONTOUR
⊕ SANITARY SEWER MANHOLE	195 --- 5' CONTOUR
⊕ MANHOLE	--- DRAINAGE PIPE
⊕ DRAINAGE MANHOLE	□ SERVICE CABINET
⊕ DRAINAGE INLET (GRATE)	▲ SIGN
⊕ BURIED UTILITY MARKER	○ POST
★ PINE TREE	□ RECTANGULAR POST
● VARIOUS TREES	♿ HANDICAPPED PARKING

EXISTING CONDITIONS NOTES:

- EXISTING CONDITIONS SHOWN HEREON ARE FROM A SURVEY FILE PROVIDED BY McCORRY WILLIAMS DATED 4/07/2022.
- UTILITIES MAY EXIST WHICH ARE NOT SHOWN ON THE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING ALL UTILITY COMPANIES HAVING UTILITIES WITHIN OR ADJACENT TO THE WORK AREA. THE CONTRACTOR SHALL HAVE THE UTILITIES FIELD LOCATED AND COORDINATE WITH THE UTILITY COMPANIES TO HAVE CONFLICTS RELOCATED WHEN NECESSARY OR ADAPTED FOR TIE-INS.
- WHERE EXISTING RUNOFF LEAVES THE SITE IN A SHEET FLOW CONDITION, RUNOFF SHALL LEAVE THE SITE IN A SHEET FLOW CONDITION AFTER DEVELOPMENT.



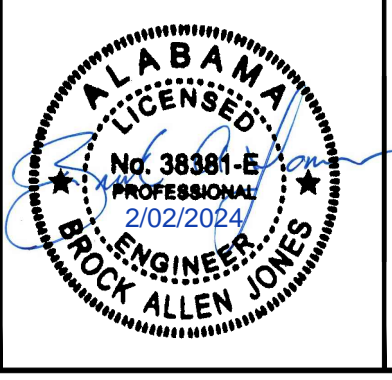
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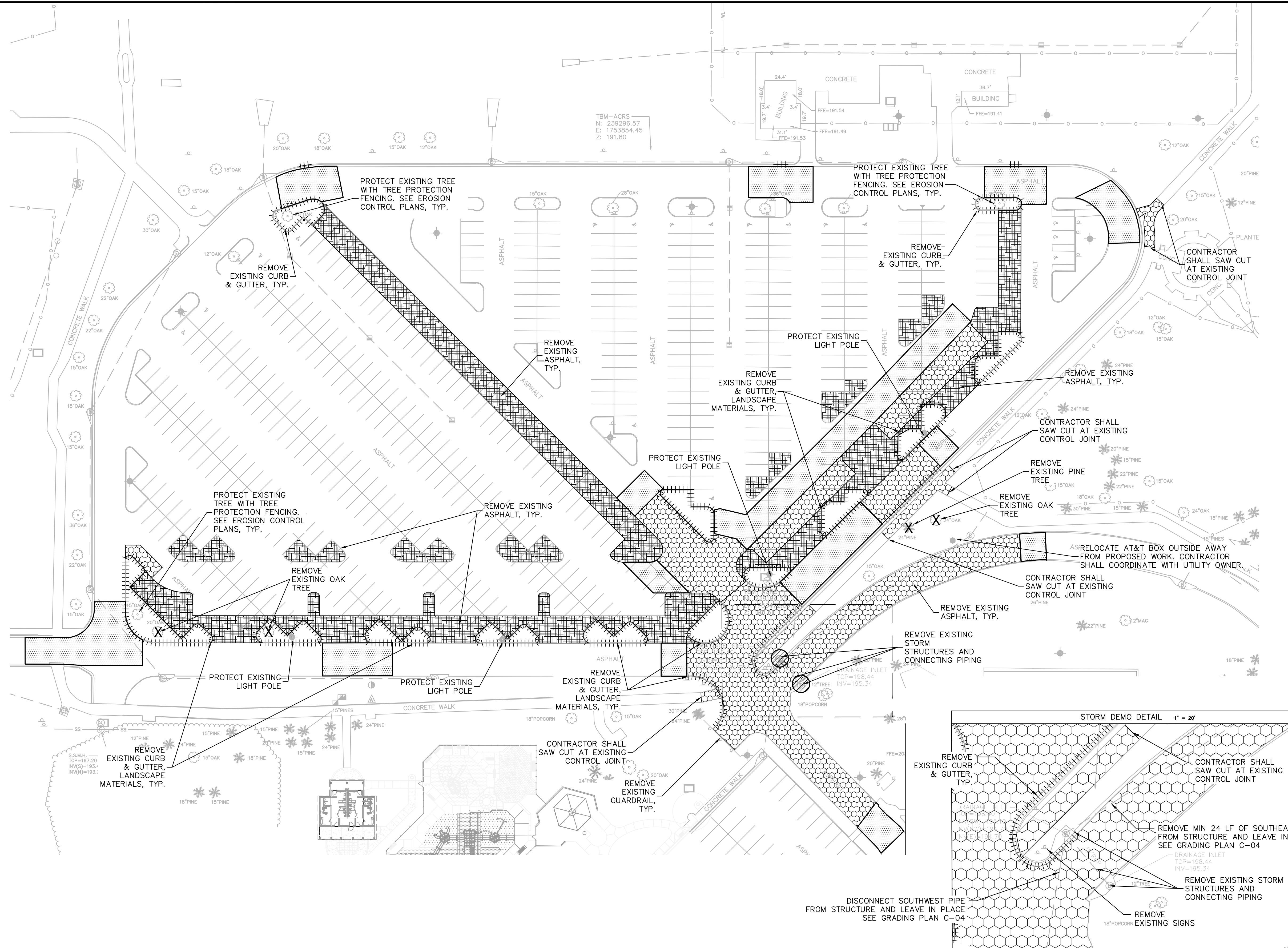
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 CITY OF MOBILE ALABAMA



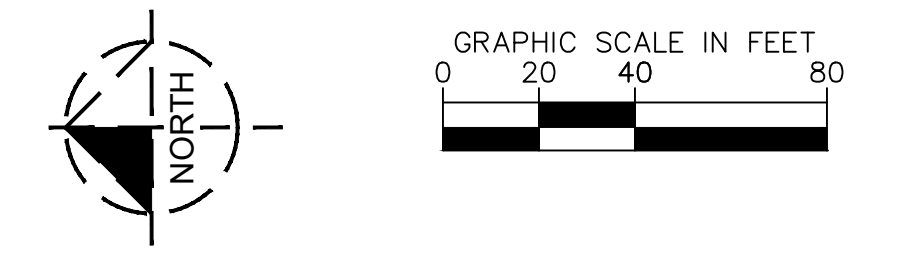
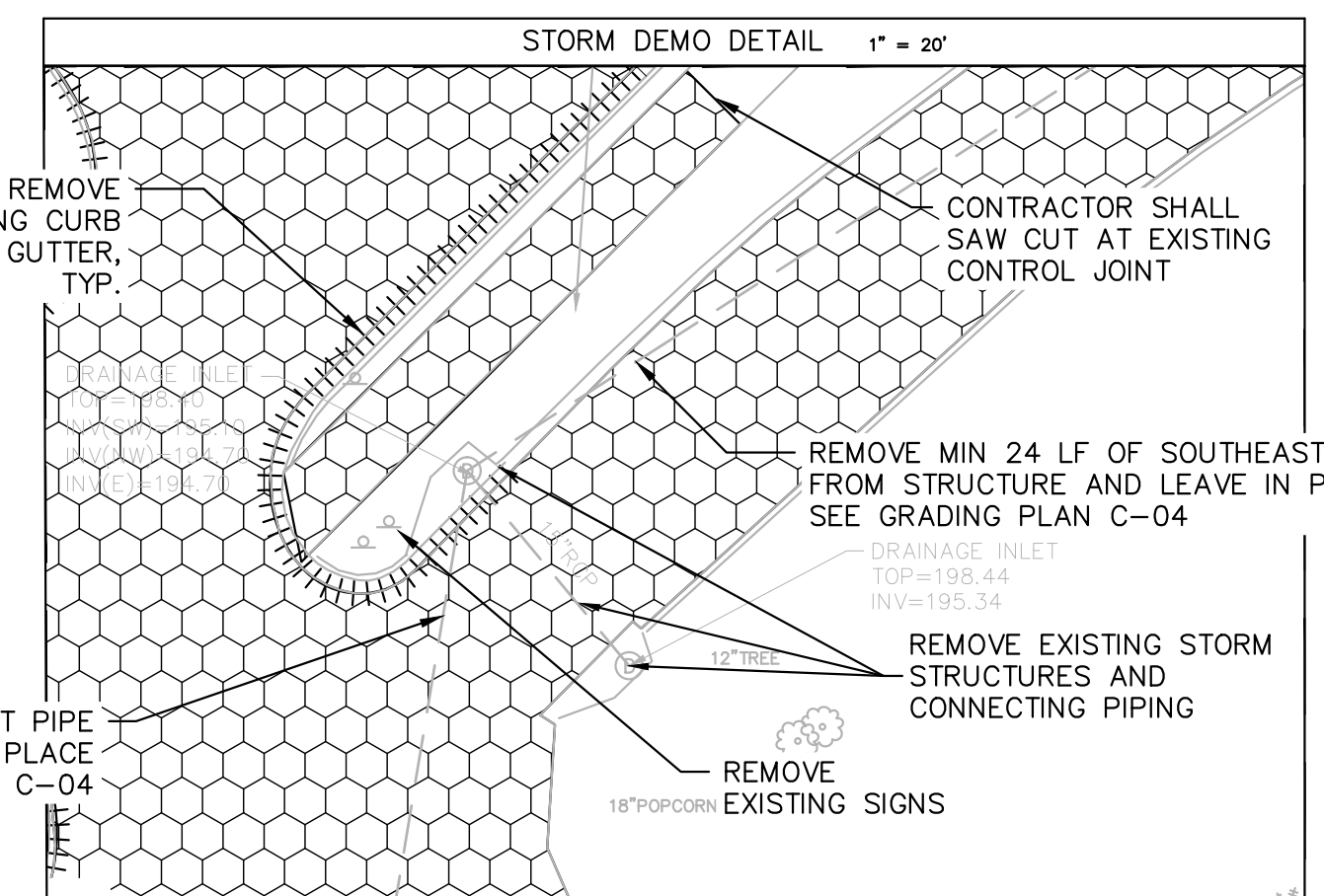
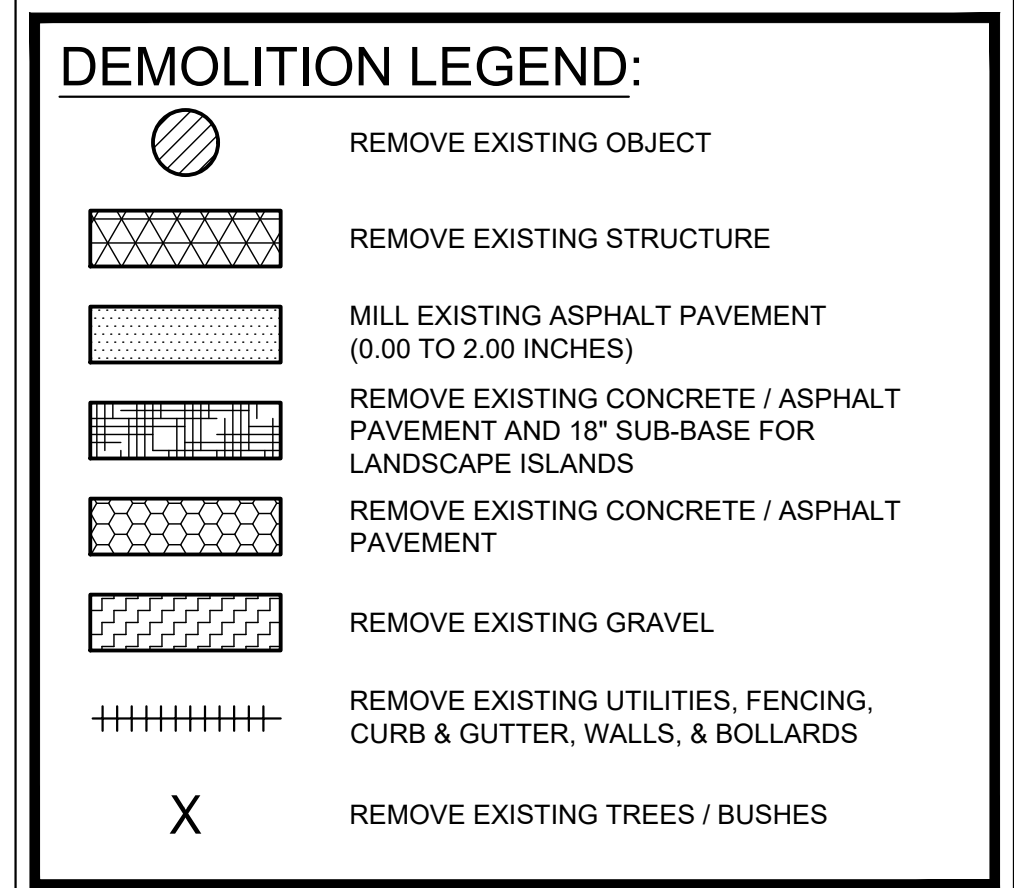
EXISTING CONDITIONS

SHEET NUMBER
C-01

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- ### DEMOLITION NOTES:
- UTILITIES MAY EXIST WHICH ARE NOT SHOWN ON THE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING ALL UTILITY COMPANIES HAVING UTILITIES WITHIN OR ADJACENT TO THE WORK AREA. THE CONTRACTOR SHALL HAVE THE UTILITIES FIELD LOCATED AND COORDINATE WITH THE UTILITY COMPANIES TO HAVE CONFLICTS RELOCATED WHEN NECESSARY OR ADAPTED FOR TIE-INS.
 - RECEIPT OF ALL PERMITS AND APPROVALS IS REQUIRED BEFORE ANY CONSTRUCTION ACTIVITY.
 - TREES TO REMAIN MUST BE PROTECTED DURING DEMOLITION AND CONSTRUCTION PHASE WITH TREE PROTECTION. SEE EROSION CONTROL PLANS.
 - CONSTRUCTION FENCING OR SILT FENCE SHALL NOT OBSTRUCT TRAFFIC FLOW ON EXISTING STREETS UNLESS CLOSURE PERMIT IS OBTAINED.
 - CONTRACTOR SHALL CONTROL DUST LEAVING THE SITE DURING DEMOLITION AND CONSTRUCTION.
 - CONTRACTOR SHALL COORDINATE UTILITY DEMOLITION AND RELOCATION WITH APPROPRIATE UTILITY PROVIDER.
 - CONTRACTOR SHALL PROTECT SURROUNDING BUILDING UTILITY SERVICES DURING CONSTRUCTION AND COORDINATE ALL SERVICE IMPACTS WITH OWNER.
 - NO GRADED SLOPE SHALL EXCEED 3H:1V.
 - REFER TO THE TOPOGRAPHIC SURVEY FOR ADDITIONAL DETAILS OF EXISTING STRUCTURES, ETC., LOCATED WITHIN THE PROJECT SITE. UNLESS OTHERWISE NOTED, ALL EXISTING BUILDINGS, STRUCTURES, SLABS, CONCRETE, ASPHALT, DEBRIS PILES, SIGNS, AND ALL APPURTENANCES ARE TO BE REMOVED FROM THE SITE BY THE CONTRACTOR AND PROPERLY DISPOSED OF IN A LEGAL MANNER AS PART OF THIS CONTRACT. IF ANY ITEMS ARE IN QUESTION, THE CONTRACTOR SHALL CONTACT THE OWNER PRIOR TO REMOVAL OF SAID ITEMS.
 - CONTRACTOR SHALL ADJUST GRADE OF ANY EXISTING UTILITIES TO REMAIN. COORDINATE WITH UTILITY PROVIDER.
 - CONTRACTOR TO SAW-CUT EDGE TO ENSURE CLEAN SMOOTH EDGE OF PAVEMENT AT DEMOLITION LIMITS.
 - CONTRACTOR TO REMOVE EXISTING ASPHALT AND A MINIMUM OF 18" OF SUB-BASE MATERIAL TO PROVIDE SUITABLE BACKFILL MATERIAL FOR NEW LANDSCAPE PLANTING AREAS.
 - CONTRACTOR SHALL COORDINATE WITH LANDSCAPE ARCHITECT FOR REMOVAL / REUSE OF SUB-BASE MATERIAL IN EXISTING ISLANDS.



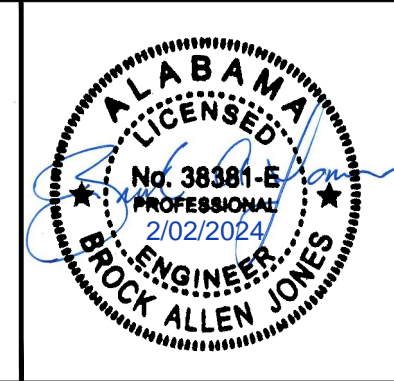
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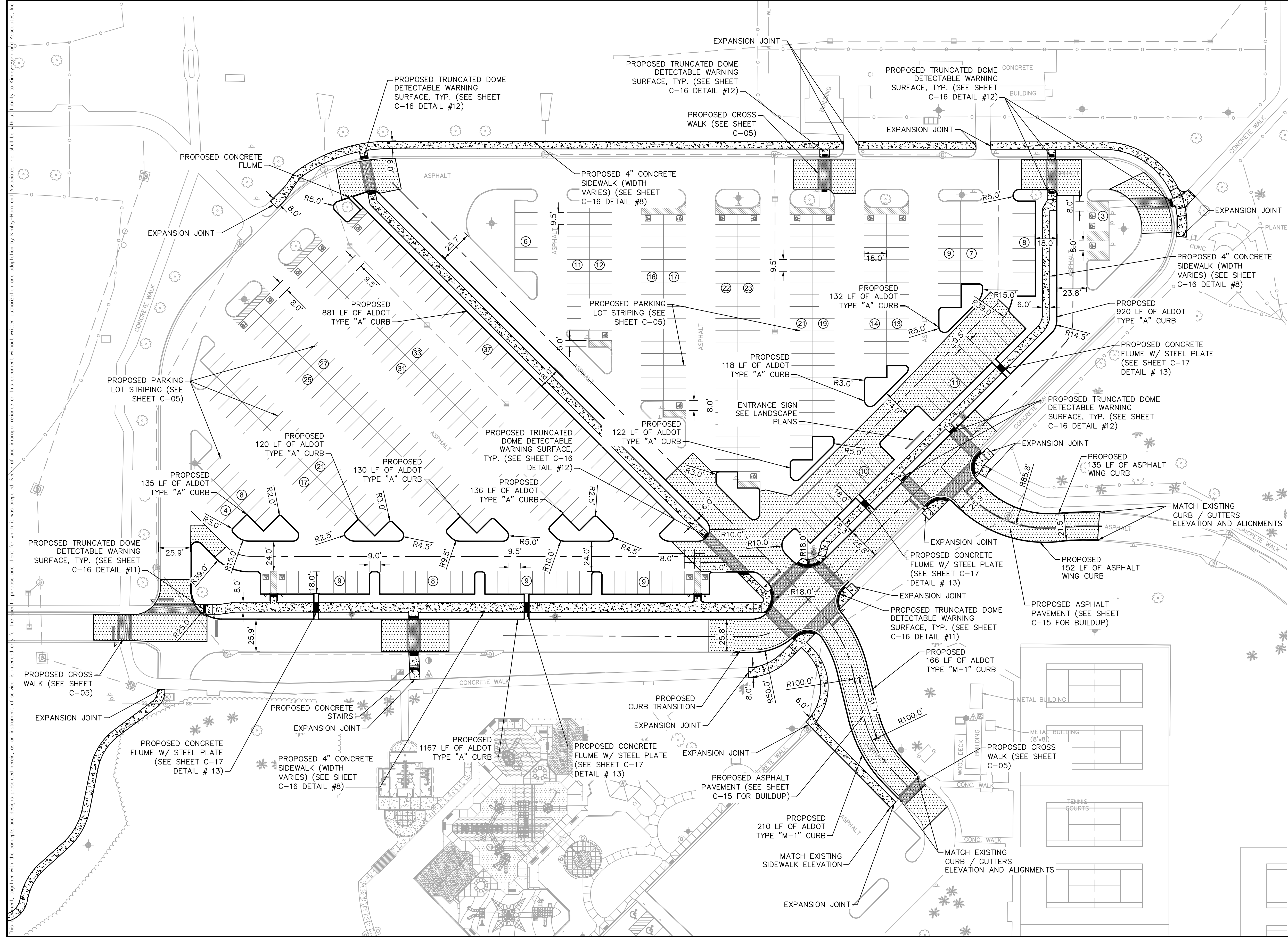
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MEDAL OF HONOR PARK SITE AND LIGHTING IMPROVEMENTS
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 CITY OF MOBILE ALABAMA



PARKING LOT DEMOLITION PLAN

SHEET NUMBER
C-02



SITE NOTES:

- EXISTING CONDITIONS SHOWN HEREON ARE FROM A SURVEY FILE PROVIDED BY McCRORY WILLIAMS, DATED 4/07/2023.
- ALL DIMENSIONS ARE FROM FACE OF CURB TO FACE OF CURB UNLESS OTHERWISE NOTED.
- SIDEWALK INSTALLED AGAINST BACK OF CURB SHALL BE INSTALLED PER THE PLAN AS MEASURED FROM THE BACK OF CURB.
- ALL SIGNAGE AND STRIPING MUST MEET THE LATEST REQUIREMENTS SET FORTH BY MUTCD, ALDOT, AND ALABAMA STATE CODE.
- REFERENCE LANDSCAPE PLANS FOR ALL HARDSCAPE AND LANDSCAPE DETAILS AND SPECIFICATIONS.
- CONTRACTOR SHALL PLACE METAL LOCATING PINS AT EACH CORNER OF FOOTBALL FIELD.

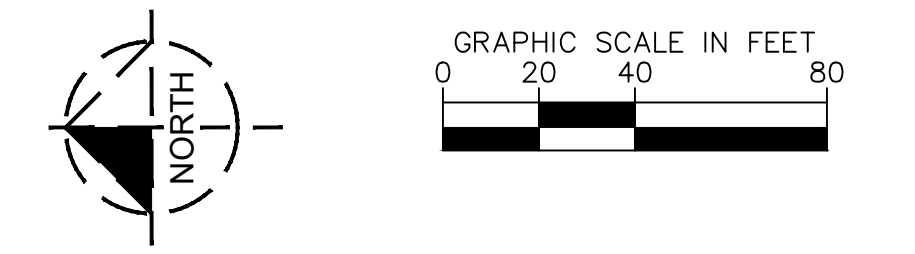
DEVELOPMENT SUMMARY:

PARKING SUMMARY:

EXISTING PARKING:	609 SPACES (TOTAL)
STANDARD	590 SPACES
HANDICAP	19 SPACES
PROPOSED PARKING:	465 SPACES (TOTAL)
STANDARD	446 SPACES
HANDICAP	19 SPACES

SITE PLAN LEGEND:

- PROPERTY LINE
- [Pattern] STANDARD DUTY ASPHALT PAVEMENT
- [Pattern] STANDARD DUTY CONCRETE SIDEWALK
- (10) PARKING COUNT



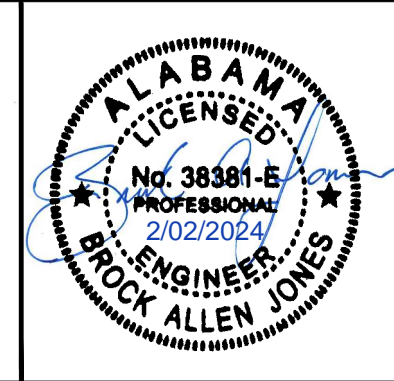
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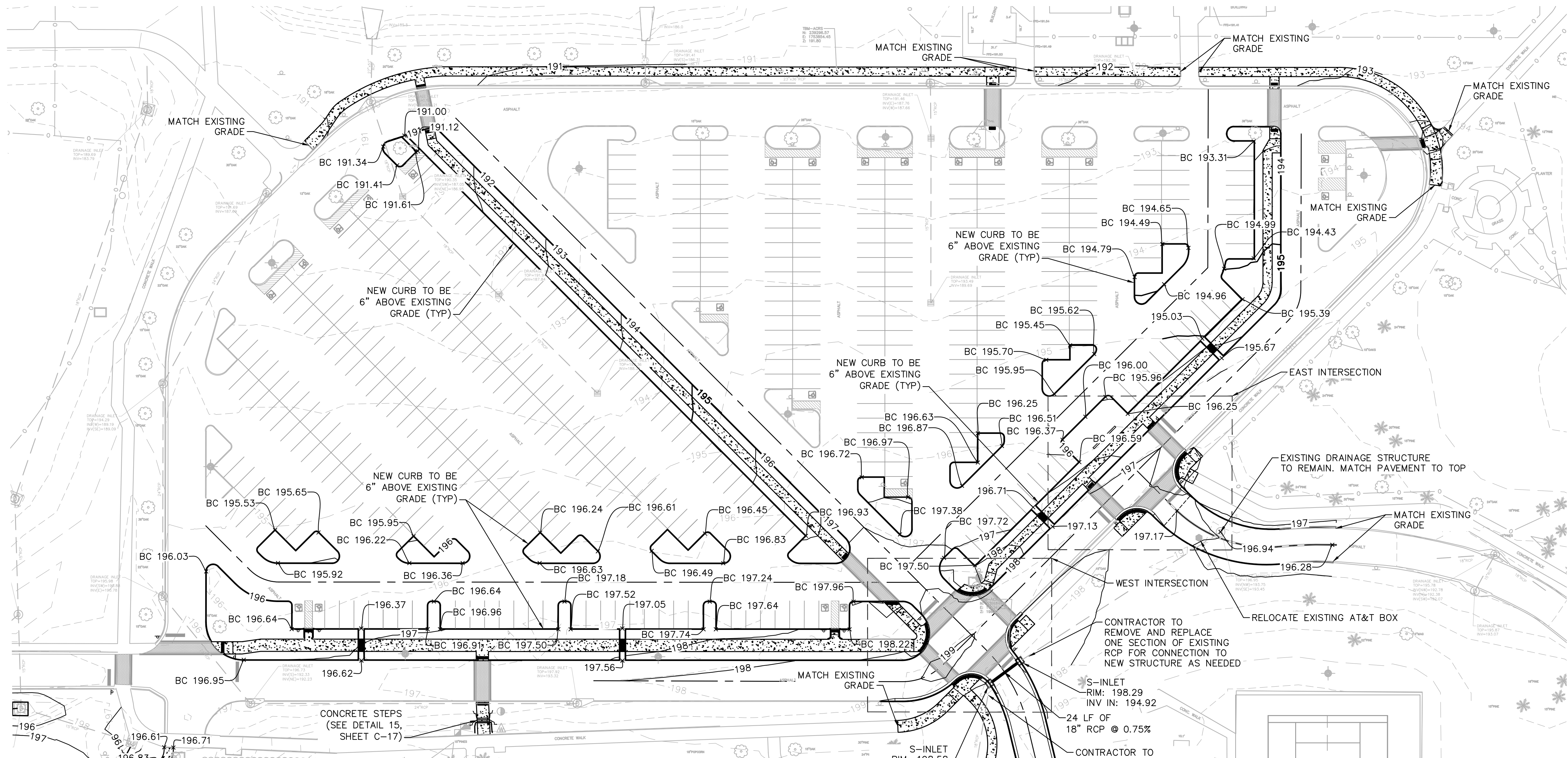
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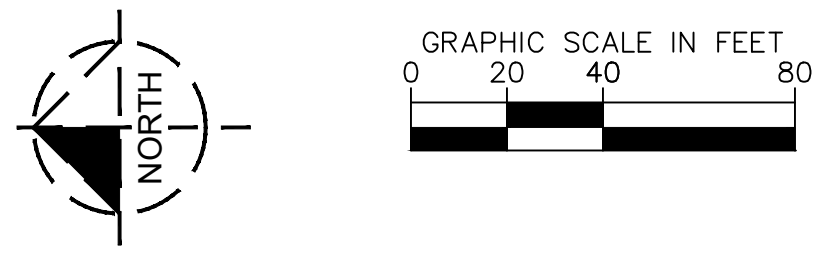
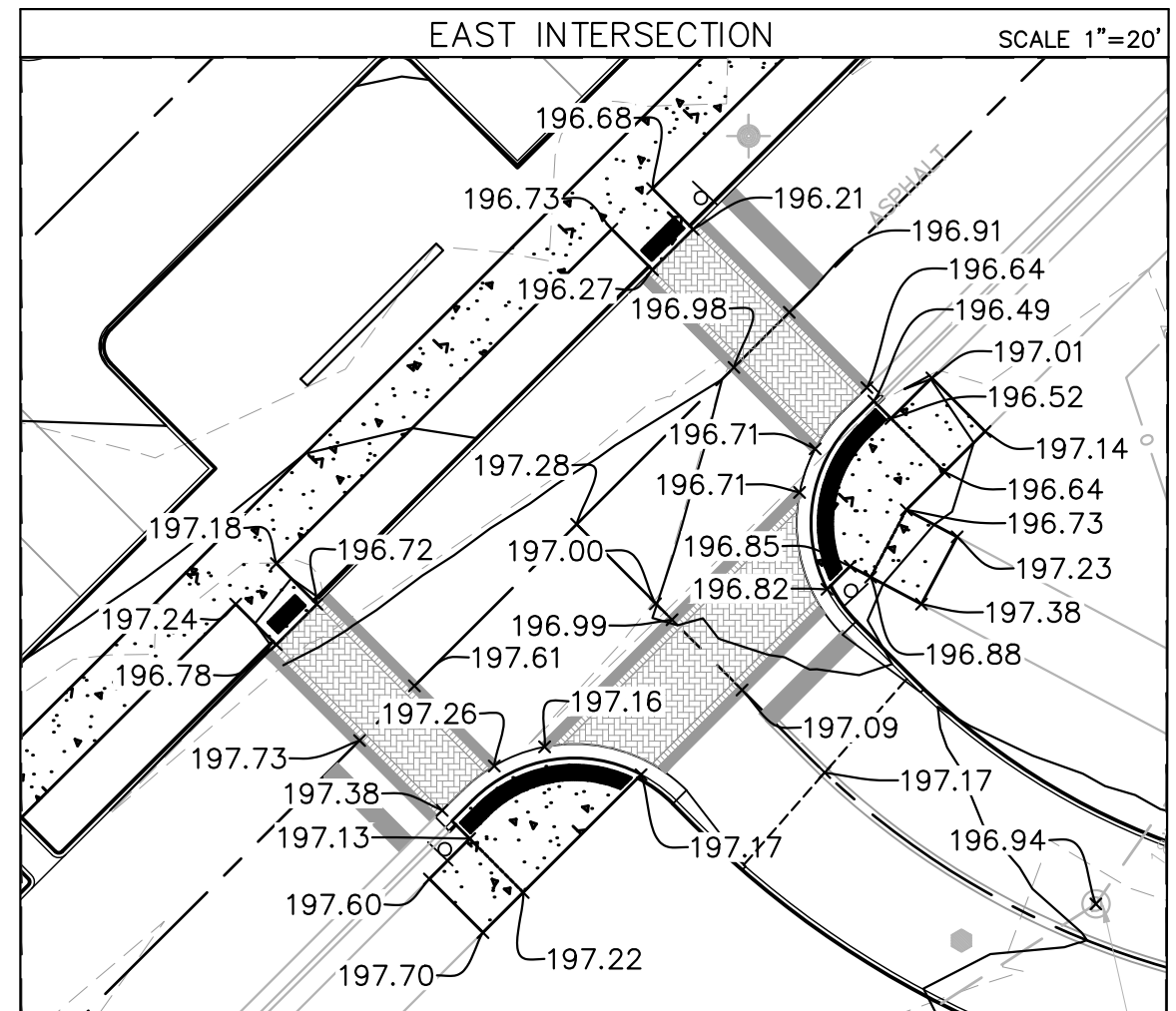
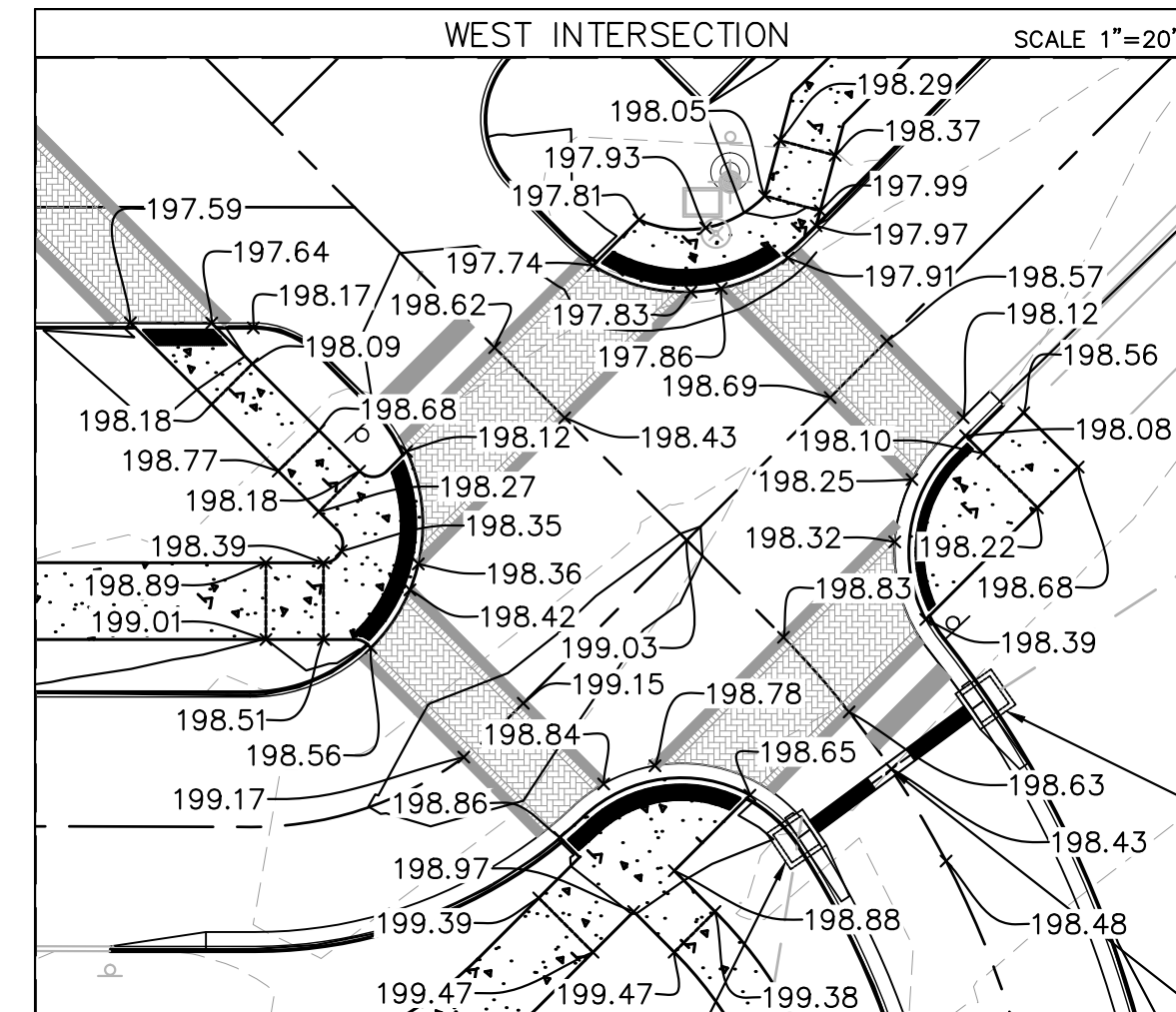
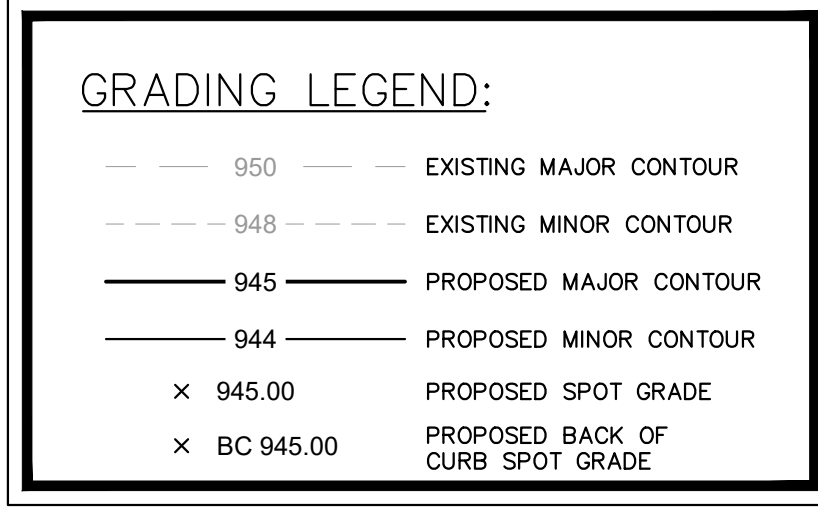
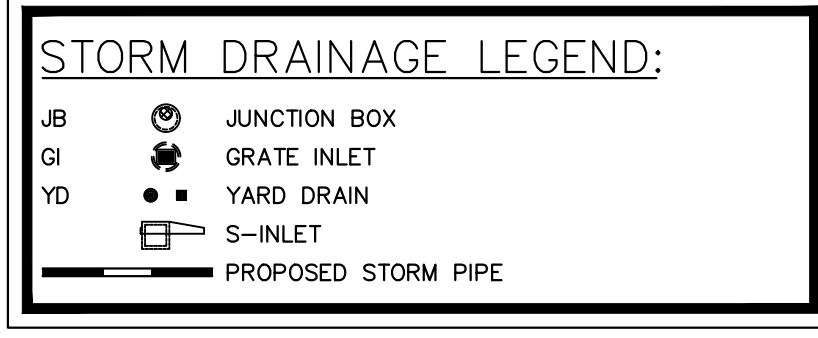
PARKING LOT SITE PLAN

SHEET NUMBER
C-03

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- GRADING & DRAINAGE NOTES:**
1. SITE AREA: 132.75 ACRES
DISTURBED AREA: 6.3 ACRES
 2. CRITICAL SPOT GRADES ARE TO PAVEMENT GRADE UNLESS OTHERWISE NOTED.
 3. CONTRACTOR SHALL CONSTRUCT ALL SIDEWALKS AND CROSSWALKS WITH A 2.0% MAXIMUM CROSS SLOPE AND A 5.0% MAXIMUM RUNNING SLOPE, UNLESS NOTED AS A RAMP. GRADES WITHIN ADA HANDICAP PARKING AREAS NOT TO EXCEED A 2% MAXIMUM SLOPE IN ANY DIRECTION.
 4. ALL PIPE LENGTHS SPECIFIED IN THESE PLANS ARE THE HORIZONTAL DISTANCE AND ARE SHOWN FOR REFERENCE ONLY. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE ACTUAL LENGTHS BASED ON PROPOSED PIPE SLOPE. PIPE LENGTHS IN PLANS ARE MEASURED FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE UNLESS OTHERWISE NOTED.
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 6. CONTRACTOR TO FIELD VERIFY EXISTING INVERT FOR SANITARY SEWER AND STORM DRAINAGE SERVICE CONNECTIONS PRIOR TO CONSTRUCTION. CONTRACTOR SHALL NOTIFY ENGINEER OF DISCREPANCY PRIOR TO PROCEEDING.



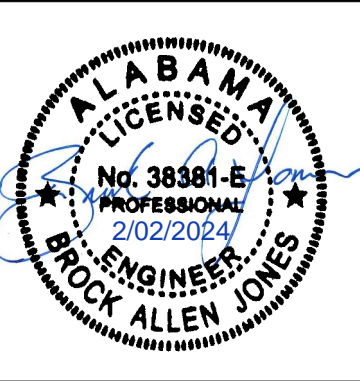
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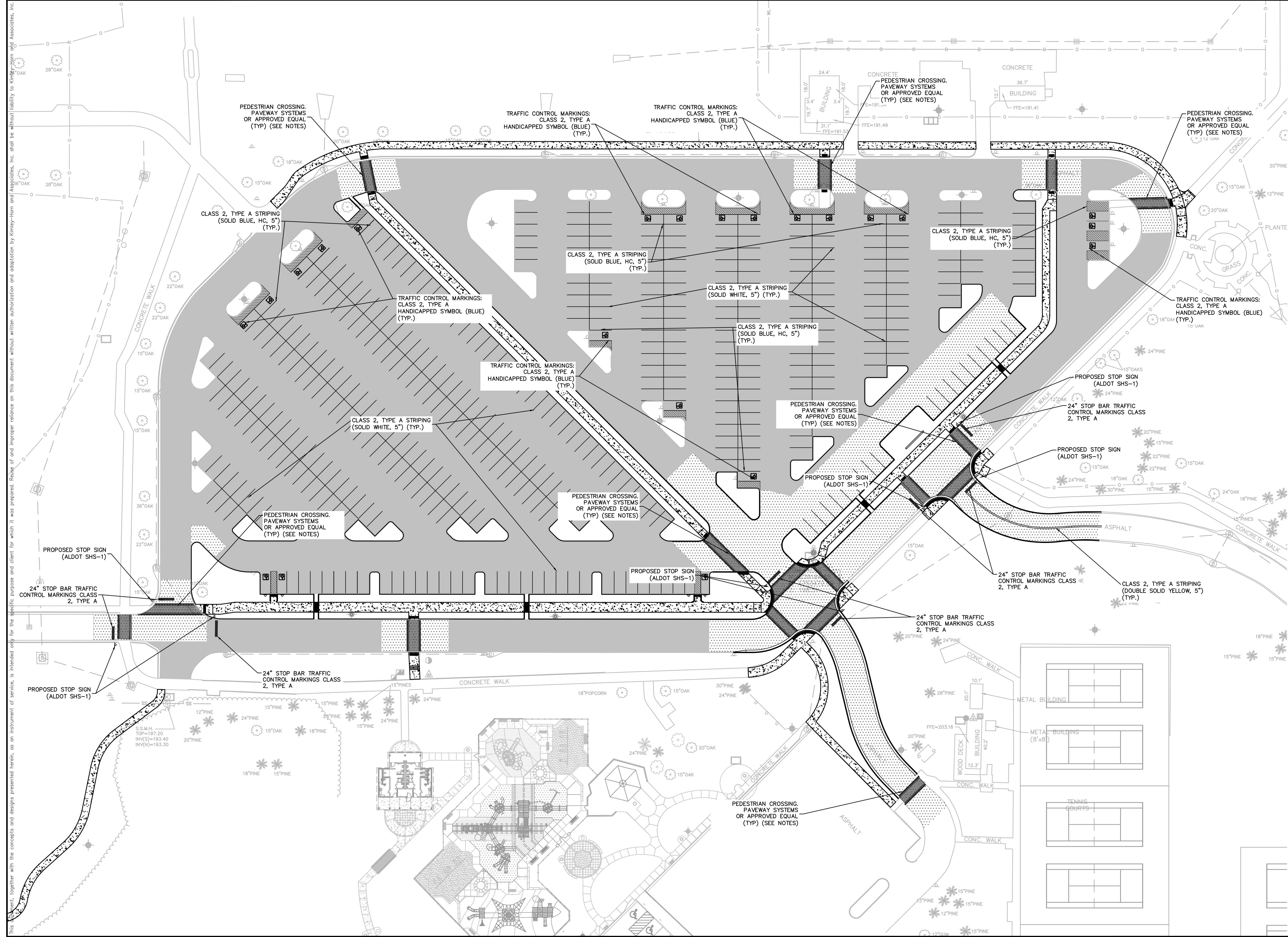
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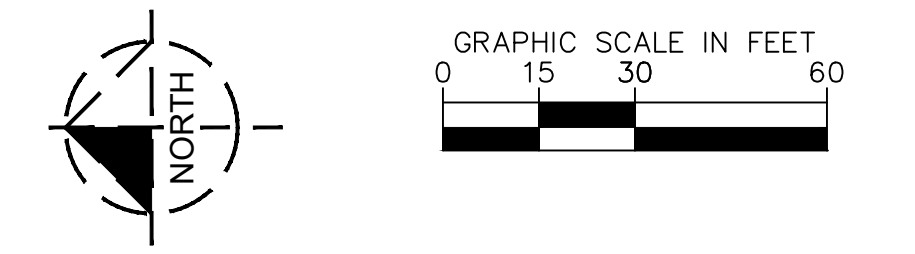
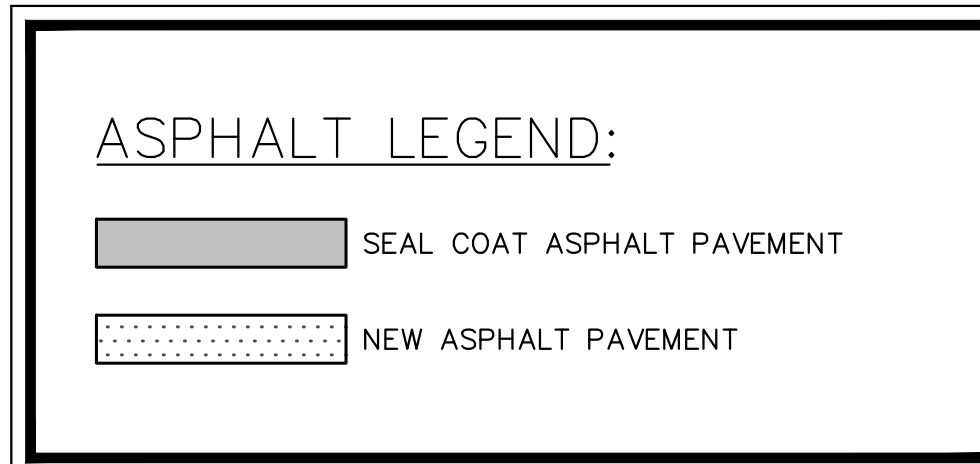


PARKING LOT GRADING & DRAINAGE

SHEET NUMBER
C-04



- CROSSWALK INSTALLATION NOTES:**
- CROSSWALKS SHALL BE PAVEWAY STS OR APPROVED EQUAL. THE CROSSWALK WILL BE COMPRISED OF DIAMOND CENTERED OCTAGON PATTERN IN AQUARIUM B18 WITH A SOLDIER CURSE BORDER IN AQUARIUM B18, AND A 12-INCH WIDE TRAFFIC STRIPE ON BOTH SIDES OF THE CROSSWALK.
 - INSTALLATION IS TO TAKE PLACE ON A FULLY CURED SUBSTRATE. FOR ASPHALT SURFACES, FULL CURE IN 14 DAYS. FOR CONCRETE SURFACES, FULL CURE IS 28 DAYS.
 - SURFACE PREPARATION IS TO BE DONE MECHANICALLY, NOT CHEMICALLY. MEANS OF MECHANIC SURFACE PREPARATION INCLUDE BROOMS, HIGH POWERED BLOWER, OIL-FREE COMPRESSED AIR, PRESSURE WASHING (WITH APPROPRIATE DRYING TIME), DIAMOND GRINDING OR SHOT BLASTING. HEATING AN ASPHALT SUBSTRATE WITH THE INTENTION TO SOFTEN THE SURFACE IS NOT ALLOWED.
 - TEMPLATES, IN SELECTED PATTERN, ARE TO BE ALIGNED AND JOINED TOGETHER USING APPROPRIATE ADHESIVE.
 - INSTALLATION CAN PROCEED WHEN SURFACE TEMPERATURES ARE 55 DEGREES F AND RISING. THE BINDER IS TO BE SPREAD OVER THE TEMPLATE AT AN AVERAGE THICKNESS OF 5 MILS. IMMEDIATELY AFTER THE BINDER IS SPREAD, BEGIN BROADCASTING SELECTED AGGREGATE TO THE POINT OF REJECTION AND THE BINDER IS FULLY INFUSED.
 - CURE TIME WILL VARY AND THE AREA CAN BE OPENED FOR TRAFFIC BETWEEN 1-3 HOURS AFTER COMPLETION. BEFORE FULLY CURED, SWEEP OFF EXCESS AGGREGATE AND REMOVE THE TEMPLATE, REVEALING THE SELECTED PATTERN. UPON FULL CURE, SWEEP OR SCRAPE THE AREA AGGRESSIVELY TO REMOVE ANY REMAINING LOOSE AGGREGATE.
 - PAVEWAY STS OR EQUIVALENT PRODUCT WILL BE 100% SOLIDS, THERMOSET BINDER. IT WILL BE SOLVENT FREE, LOW MODULUS, BONDING AGENT. IT WILL BE TOPPED AND IMBEDDED INTO, WITH ANGULAR AGGREGATES THAT EXHIBIT A HIGH POLISHED STONE VALUE (PSV). THROUGH COLOR, HIGH POLISHED STONE VALUE AGGREGATES SHOULD HAVE A NOMINAL SIZE RANGING FROM 0.04 MILS TO 0.125 MILS.
 - INSTALLED THICKNESS OF PAVEWAY STS OR EQUIVALENT PRODUCT WILL BE 5/32" NOMINAL ABOVE SUBSTRATE.
 - PAVEWAY STS OR EQUIVALENT PRODUCT WILL EXHIBIT F40R FRICTION PERFORMANCE VALUES IN EXCESS OF 65 AFTER INITIAL INSTALLATION AND IN EXCESS OF 45 AFTER A PERIOD OF 30 MONTHS.



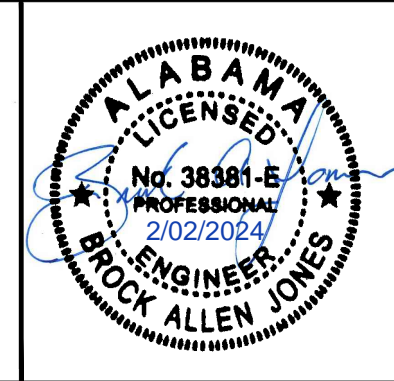
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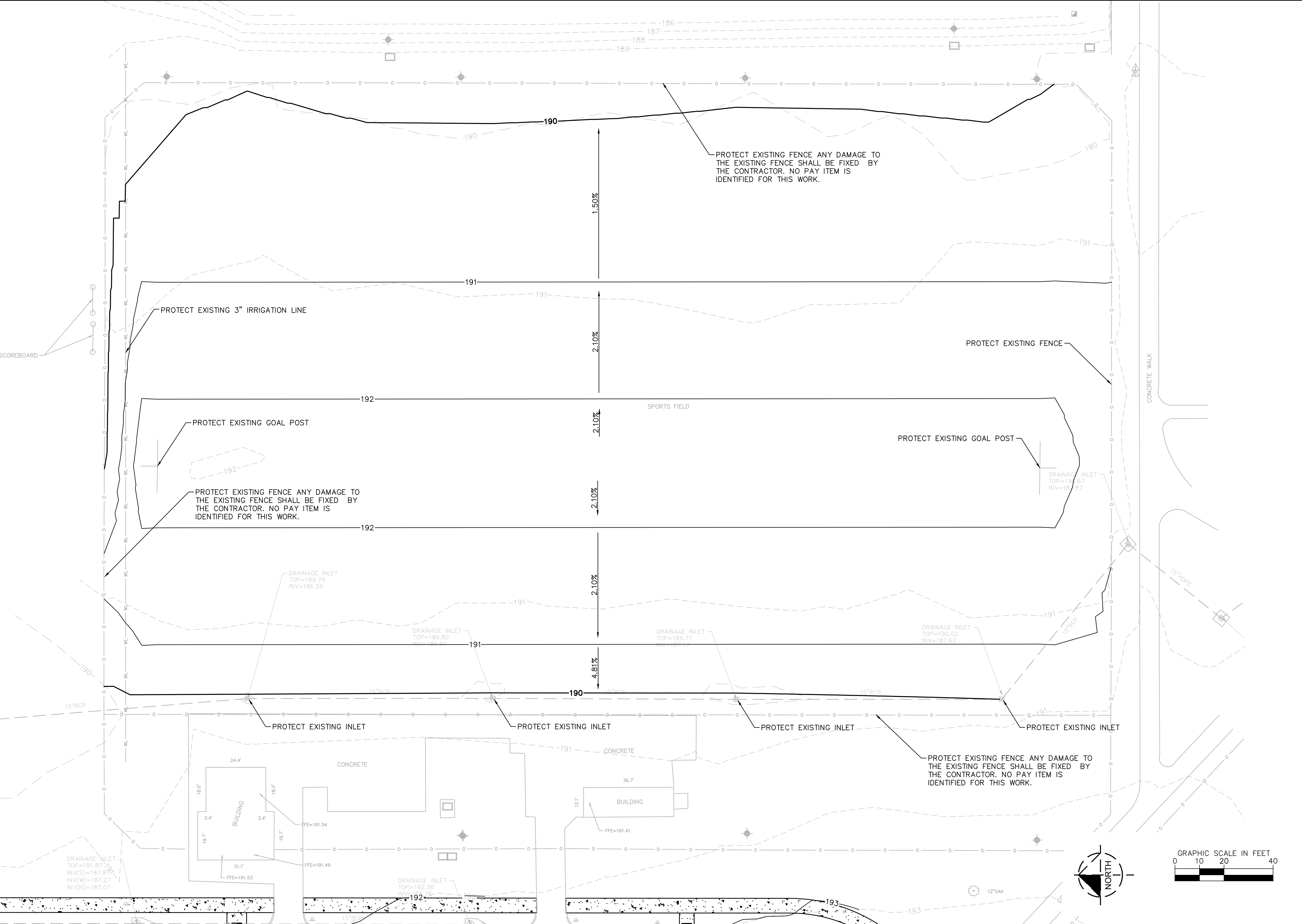
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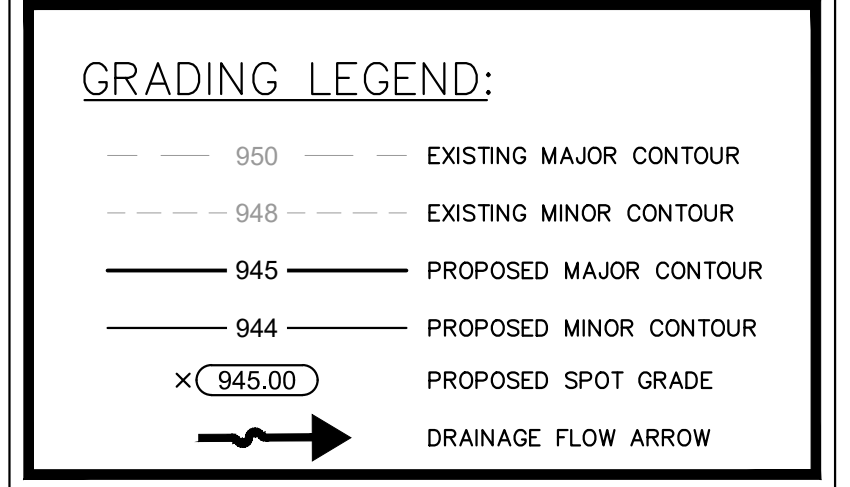
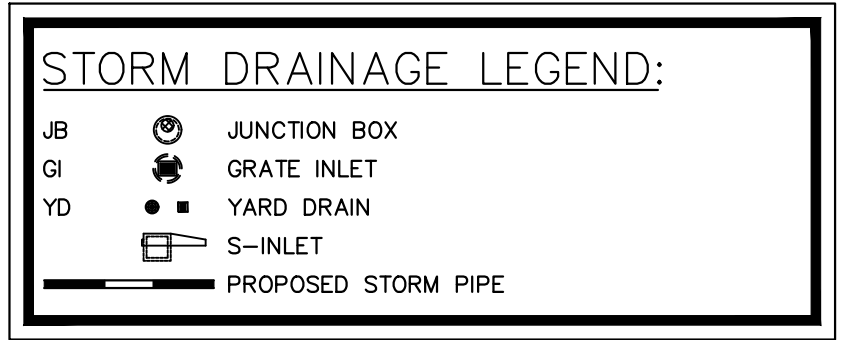
PARKING LOT STRIPING & SIGNAGE PLAN

SHEET NUMBER
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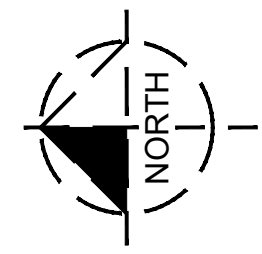
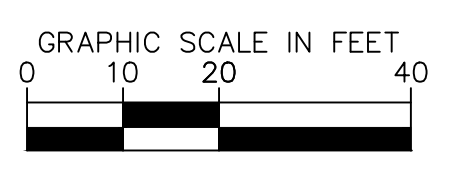


- GRADING & DRAINAGE NOTES:**
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 2. CRITICAL SPOT GRADES ARE TO PAVEMENT GRADE UNLESS OTHERWISE NOTED.
 3. CONTRACTOR SHALL CONSTRUCT ALL SIDEWALKS AND CROSSWALKS WITH A 2.0% MAXIMUM CROSS SLOPE AND A 5.0% MAXIMUM RUNNING SLOPE, UNLESS NOTED AS A RAMP. GRADES WITHIN ADA HANDICAP PARKING AREAS NOT TO EXCEED A 2% MAXIMUM SLOPE IN ANY DIRECTION.
 4. ALL PIPE LENGTHS SPECIFIED IN THESE PLANS ARE THE HORIZONTAL DISTANCE AND ARE SHOWN FOR REFERENCE ONLY. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE ACTUAL LENGTHS BASED ON PROPOSED PIPE SLOPE. PIPE LENGTHS IN PLANS ARE MEASURED FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE UNLESS OTHERWISE NOTED.
 5. UTILITIES MAY EXIST WHICH ARE NOT SHOWN ON THE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING ALL UTILITY COMPANIES HAVING UTILITIES WITHIN OR ADJACENT TO THE WORK AREA. THE CONTRACTOR SHALL HAVE THE UTILITIES FIELD LOCATED AND COORDINATE WITH THE UTILITY COMPANIES TO HAVE CONFLICTS RELOCATED WHEN NECESSARY OR ADAPTED FOR TIE-INS.
 6. CONTRACTOR TO FIELD VERIFY EXISTING INVERT FOR SANITARY SEWER AND STORM DRAINAGE SERVICE CONNECTIONS PRIOR TO CONSTRUCTION. CONTRACTOR SHALL NOTIFY ENGINEER OF DISCREPANCY PRIOR TO PROCEEDING.
 7. ANY DAMAGE TO THE EXISTING FENCE SHALL BE FIXED BY THE CONTRACTOR. NO PAY ITEM IS IDENTIFIED FOR THIS WORK.
 8. CONTRACTOR SHALL CONFIRM ELEVATION OF FOOTBALL GOAL CROSSBAR IS AT 10-FEET FROM NEW GRADE. CONTRACTOR SHALL ADJUST EXISTING GOAL POST AS NECESSARY.



- DEMOLITION NOTES:**
1. REMOVE ALL EXISTING IRRIGATION WITHIN GRADED AREA OF FOOTBALL FIELD.

- SITE NOTES:**
1. EXISTING CONDITIONS SHOWN HEREON ARE FROM A SURVEY FILE PROVIDED BY McCRORY WILLIAMS, DATED 4/07/2023.
 2. REFERENCE LANDSCAPE PLANS FOR ALL HARDSCAPE AND LANDSCAPE DETAILS AND SPECIFICATIONS.
 3. CONTRACTOR SHALL PLACE METAL LOCATING PINS AT EACH CORNER OF FOOTBALL FIELD.



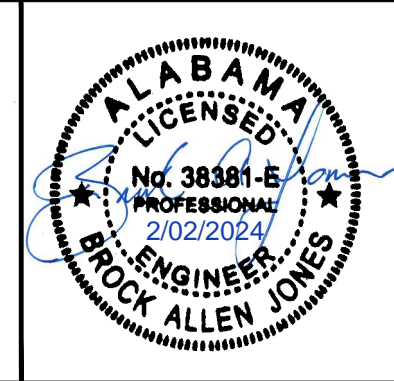
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KHA PROJECT
142920003
DATE
2/2/2024
SCALE AS SHOWN
DESIGNED BY: BAJ
DRAWN BY: SDN
CHECKED BY: JLG

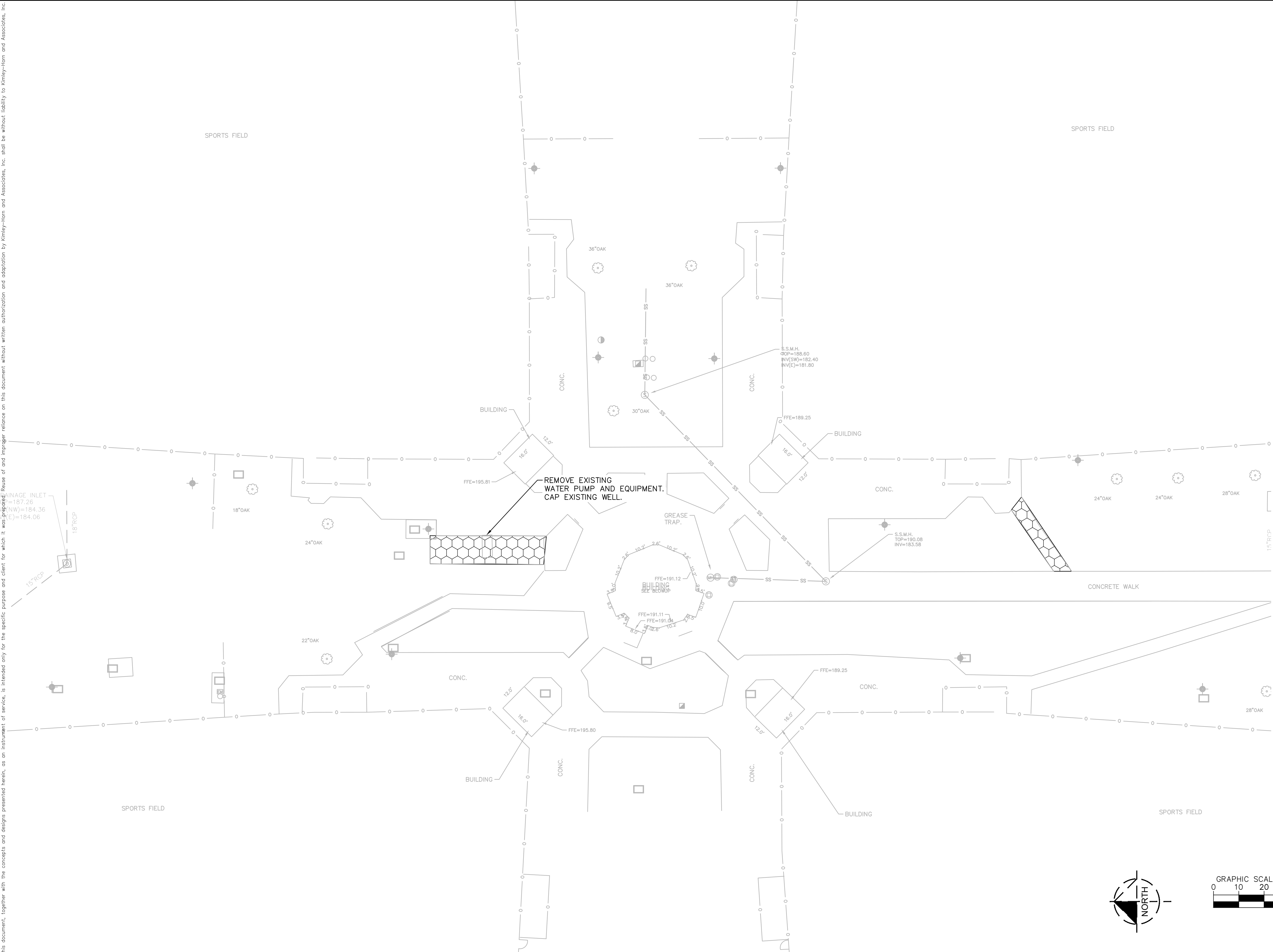
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CITY OF MOBILE
CITY OF MOBILE ALABAMA



FOOTBALL FIELD IMPROVEMENTS


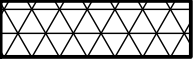

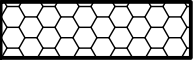

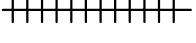

SHEET NUMBER
C-06

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- DEMOLITION NOTES:**
- UTILITIES MAY EXIST WHICH ARE NOT SHOWN ON THE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING ALL UTILITY COMPANIES HAVING UTILITIES WITHIN OR ADJACENT TO THE WORK AREA. THE CONTRACTOR SHALL HAVE THE UTILITIES FIELD LOCATED AND COORDINATE WITH THE UTILITY COMPANIES TO HAVE CONFLICTS RELOCATED WHEN NECESSARY OR ADAPTED FOR TIE-INS.
 - RECEIPT OF ALL PERMITS AND APPROVALS IS REQUIRED BEFORE ANY CONSTRUCTION ACTIVITY.
 - TREES TO REMAIN MUST BE PROTECTED DURING DEMOLITION AND CONSTRUCTION PHASE.
 - CONSTRUCTION FENCING OR SILT FENCE SHALL NOT OBSTRUCT TRAFFIC FLOW ON EXISTING STREETS UNLESS CLOSURE PERMIT IS OBTAINED.
 - CONTRACTOR SHALL CONTROL DUST LEAVING THE SITE DURING DEMOLITION AND CONSTRUCTION.
 - CONTRACTOR SHALL COORDINATE UTILITY DEMOLITION AND RELOCATION WITH APPROPRIATE UTILITY PROVIDER.
 - CONTRACTOR SHALL PROTECT SURROUNDING BUILDING UTILITY SERVICES DURING CONSTRUCTION AND COORDINATE ALL SERVICE IMPACTS WITH OWNER.
 - NO GRADED SLOPE SHALL EXCEED 3H:1V.
 - REFER TO THE TOPOGRAPHIC SURVEY FOR ADDITIONAL DETAILS OF EXISTING STRUCTURES, ETC., LOCATED WITHIN THE PROJECT SITE. UNLESS OTHERWISE NOTED, ALL EXISTING BUILDINGS, STRUCTURES, SLABS, CONCRETE, ASPHALT, DEBRIS PILES, SIGNS, AND ALL APPURTENANCES ARE TO BE REMOVED FROM THE SITE BY THE CONTRACTOR AND PROPERLY DISPOSED OF IN A LEGAL MANNER AS PART OF THIS CONTRACT. IF ANY ITEMS ARE IN QUESTION, THE CONTRACTOR SHALL CONTACT THE OWNER PRIOR TO REMOVAL OF SAID ITEMS.
 - CONTRACTOR SHALL ADJUST GRADE OF ANY EXISTING UTILITIES TO REMAIN.

DEMOLITION LEGEND:

-  REMOVE EXISTING OBJECT
-  REMOVE EXISTING STRUCTURE
-  MILL EXISTING ASPHALT PAVEMENT
-  REMOVE EXISTING CONCRETE / ASPHALT PAVEMENT
-  REMOVE EXISTING GRAVEL
-  REMOVE EXISTING UTILITIES, FENCING, CURB & GUTTER, WALLS, & BOLLARDS
-  REMOVE EXISTING TREES / BUSHES

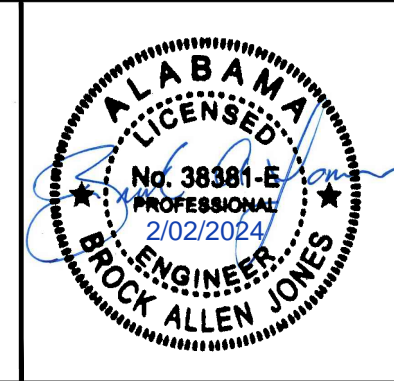
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142920003
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 SCALE AS SHOWN
 DESIGNED BY: BAJ
 DRAWN BY: SDN
 CHECKED BY: JLG

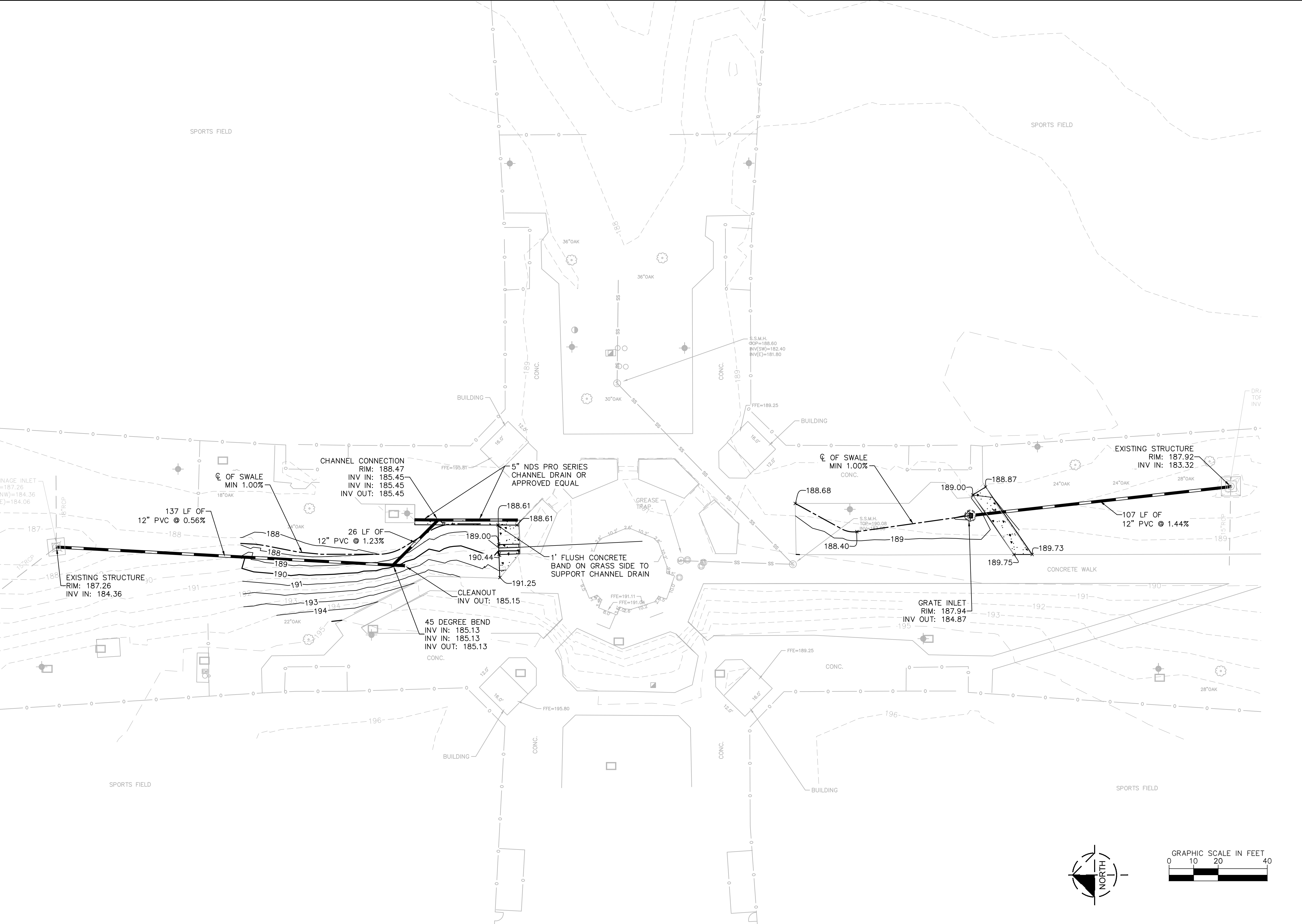
MEDAL OF HONOR PARK SITE AND LIGHTING IMPROVEMENTS
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CITY OF MOBILE
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ADDITIVE ALTERNATE #2 - SOFTBALL FIELD DEMOLITION PLAN

SHEET NUMBER
C-07

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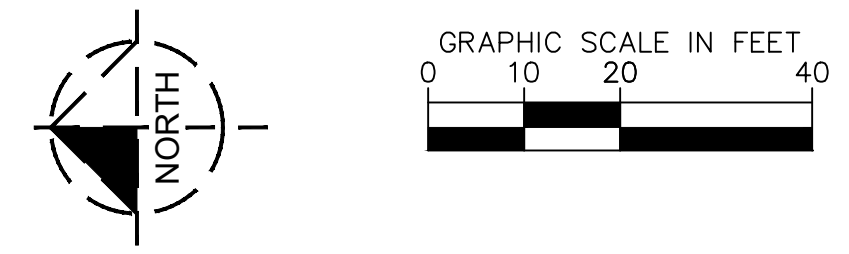
- GRADING & DRAINAGE NOTES:**
1. SITE AREA: 132.75 ACRES
DISTURBED AREA: 6.3 ACRES
 2. CRITICAL SPOT GRADES ARE TO PAVEMENT GRADE UNLESS OTHERWISE NOTED.
 3. CONTRACTOR SHALL CONSTRUCT ALL SIDEWALKS AND CROSSWALKS WITH A 2.0% MAXIMUM CROSS SLOPE AND A 5.0% MAXIMUM RUNNING SLOPE, UNLESS NOTED AS A RAMP. GRADES WITHIN ADA HANDICAP PARKING AREAS NOT TO EXCEED A 2% MAXIMUM SLOPE IN ANY DIRECTION.
 4. ALL PIPE LENGTHS SPECIFIED IN THESE PLANS ARE THE HORIZONTAL DISTANCE AND ARE SHOWN FOR REFERENCE ONLY. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE ACTUAL LENGTHS BASED ON PROPOSED PIPE SLOPE. PIPE LENGTHS IN PLANS ARE MEASURED FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE UNLESS OTHERWISE NOTED.
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 6. CONTRACTOR TO FIELD VERIFY EXISTING INVERT FOR SANITARY SEWER AND STORM DRAINAGE SERVICE CONNECTIONS PRIOR TO CONSTRUCTION. CONTRACTOR SHALL NOTIFY ENGINEER OF DISCREPANCY PRIOR TO PROCEEDING.

- STORM DRAINAGE LEGEND:**
- JB JUNCTION BOX
 - GI GRATE INLET
 - YD YARD DRAIN
 - S-INLET
 - PROPOSED STORM PIPE

- GRADING LEGEND:**
- 950 EXISTING MAJOR CONTOUR
 - 948 EXISTING MINOR CONTOUR
 - 945 PROPOSED MAJOR CONTOUR
 - 944 PROPOSED MINOR CONTOUR
 - 945.00 PROPOSED SPOT GRADE
 - DRAINAGE FLOW ARROW

- SITE NOTES:**
1. EXISTING CONDITIONS SHOWN HEREON ARE FROM A SURVEY FILE PROVIDED BY McCRORY WILLIAMS, DATED 4/07/2023.
 2. REFERENCE LANDSCAPE PLANS FOR ALL HARDSCAPE AND LANDSCAPE DETAILS AND SPECIFICATIONS.

- SITE PLAN LEGEND:**
- PROPERTY LINE
 - STANDARD DUTY ASPHALT PAVEMENT
 - STANDARD DUTY CONCRETE SIDEWALK
 - 10 PARKING COUNT



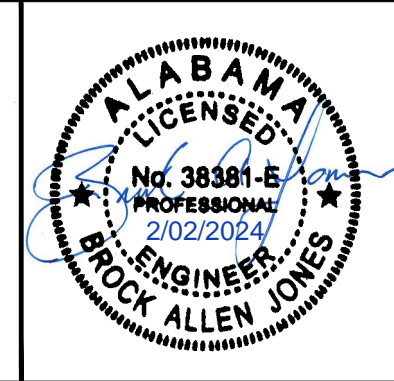
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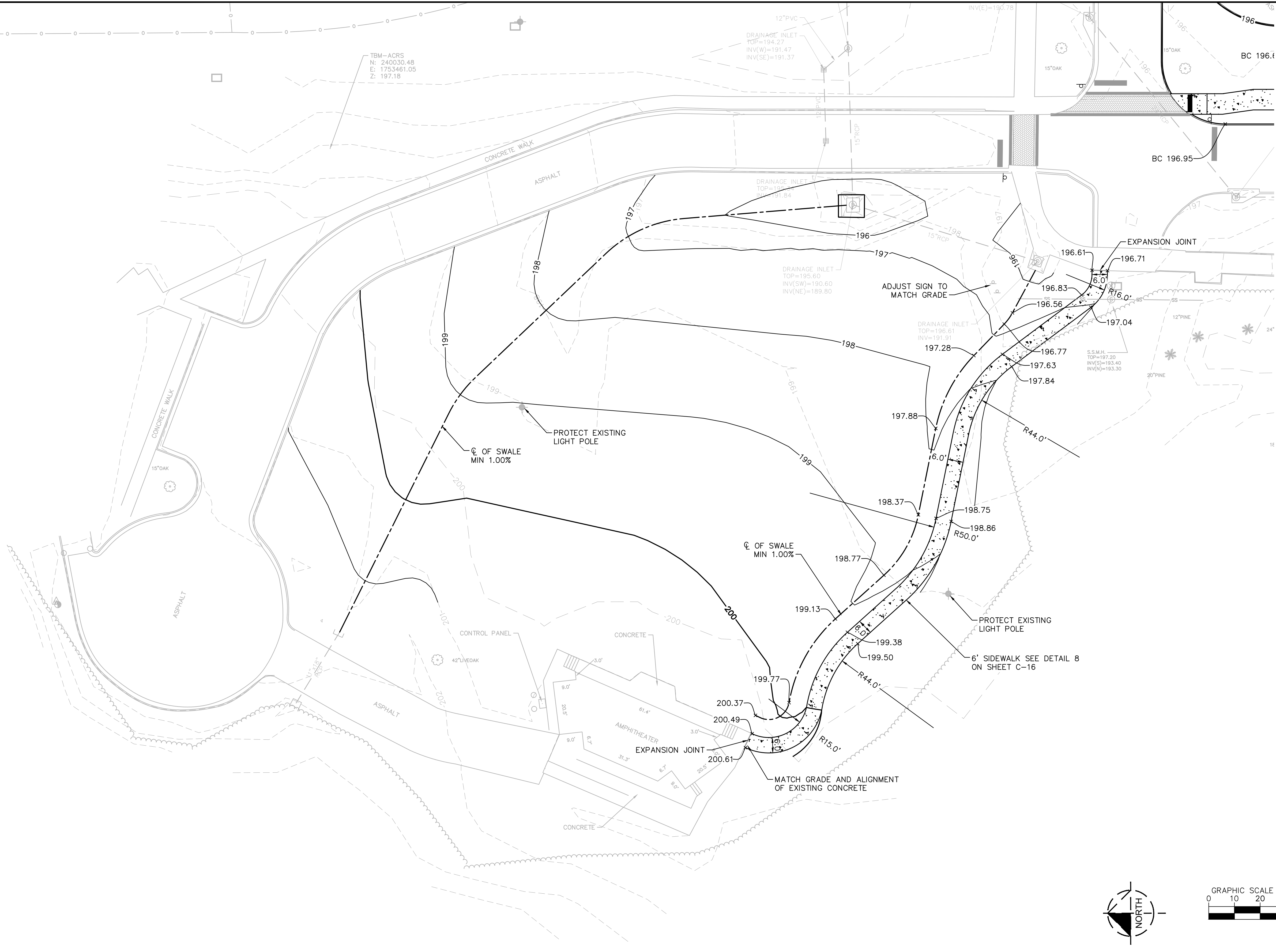
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ADDITIVE ALTERNATE #2 - SOFTBALL FIELD IMPROVEMENTS

SHEET NUMBER
C-08

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- GRADING & DRAINAGE NOTES:**
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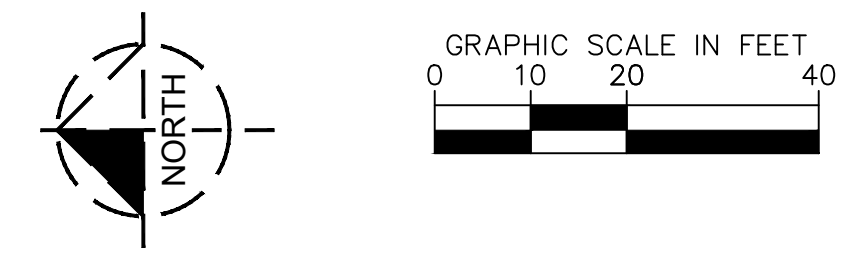
- STORM DRAINAGE LEGEND:**
- JB JUNCTION BOX
 - GI GRATE INLET
 - YD YARD DRAIN
 - S-INLET S-INLET
 - PROPOSED STORM PIPE

- GRADING LEGEND:**
- 950 EXISTING MAJOR CONTOUR
 - 948 EXISTING MINOR CONTOUR
 - 945 PROPOSED MAJOR CONTOUR
 - 944 PROPOSED MINOR CONTOUR
 - 945.00 PROPOSED SPOT GRADE
 - DRAINAGE FLOW ARROW

- DEMOLITION NOTES:**
1. REMOVE ALL EXISTING IRRIGATION WITHIN GRADED AREA OF AMPHITHEATER.

- SITE NOTES:**
1. EXISTING CONDITIONS SHOWN HEREON ARE FROM A SURVEY FILE PROVIDED BY McCRORY WILLIAMS, DATED 4/07/2023.
 2. REFERENCE LANDSCAPE PLANS FOR ALL HARDSCAPE AND LANDSCAPE DETAILS AND SPECIFICATIONS.

- SITE PLAN LEGEND:**
- PROPERTY LINE
 - STANDARD DUTY ASPHALT PAVEMENT
 - STANDARD DUTY CONCRETE SIDEWALK
 - 10 PARKING COUNT



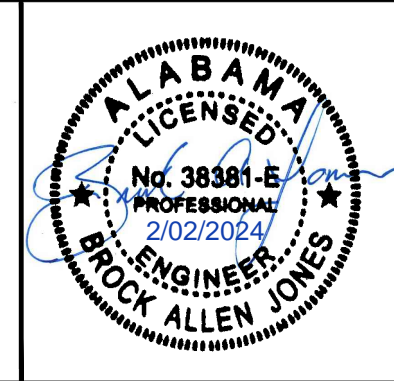
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DESIGNED BY: BAJ
DRAWN BY: SDN
CHECKED BY: JLG

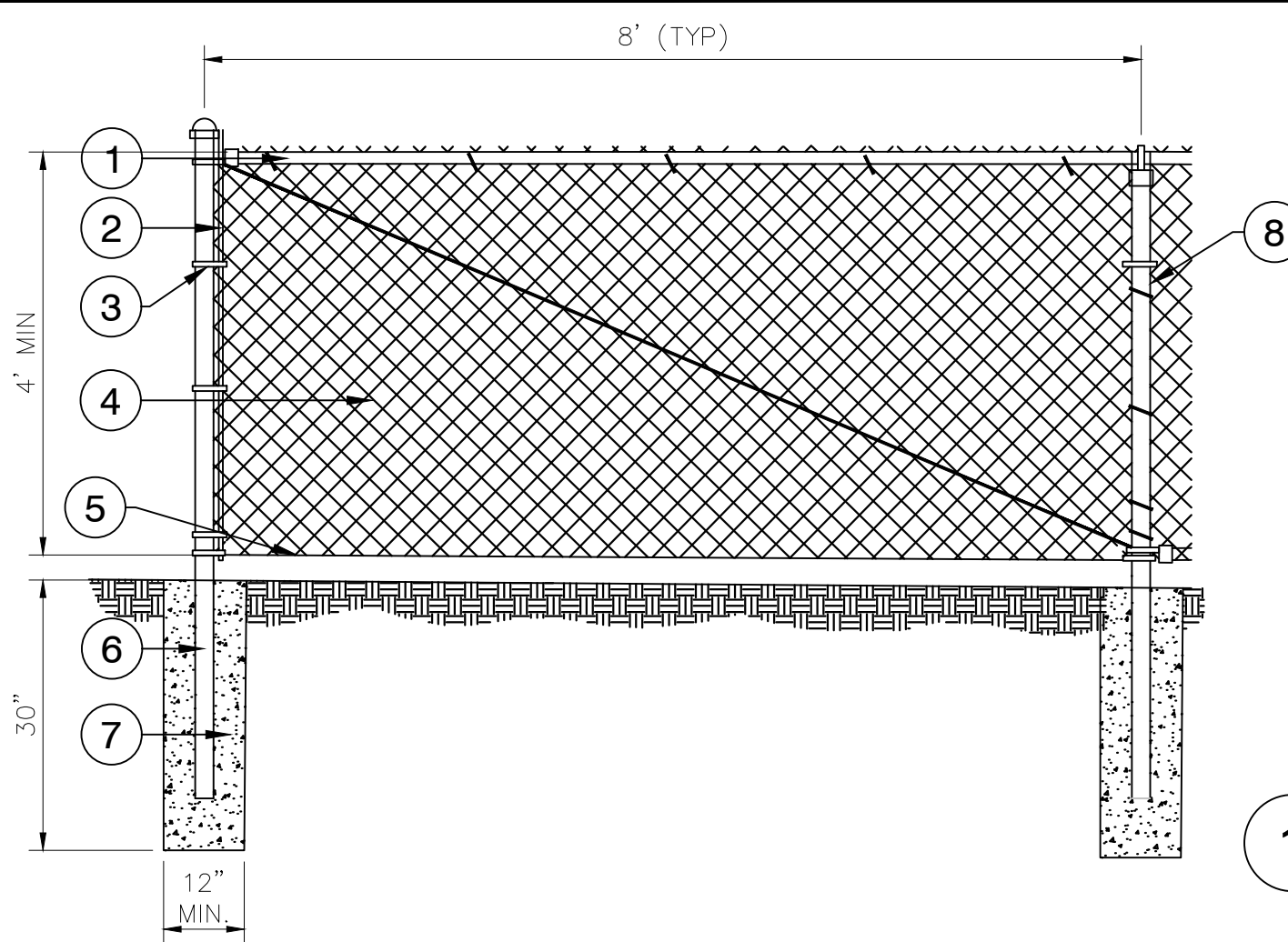
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CITY OF MOBILE ALABAMA



ADDITIVE ALTERNATE #1 - AMPHITHEATER IMPROVEMENTS

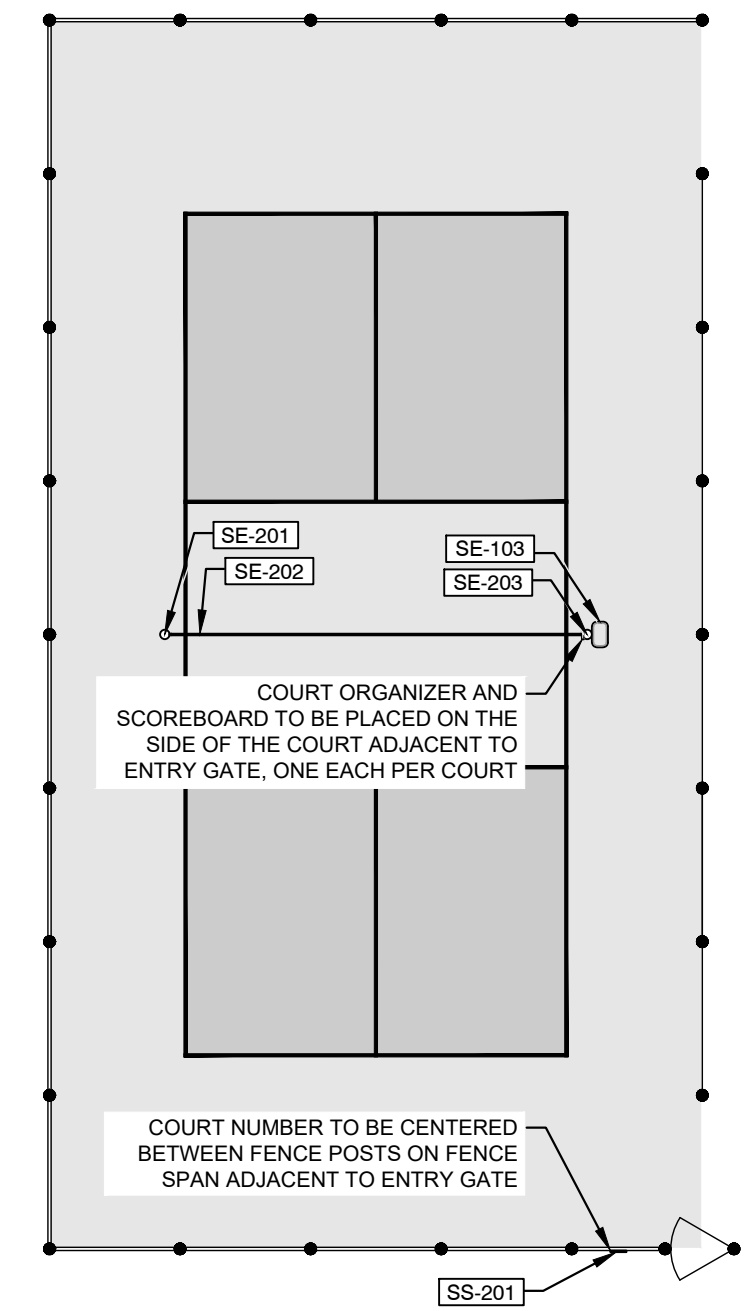
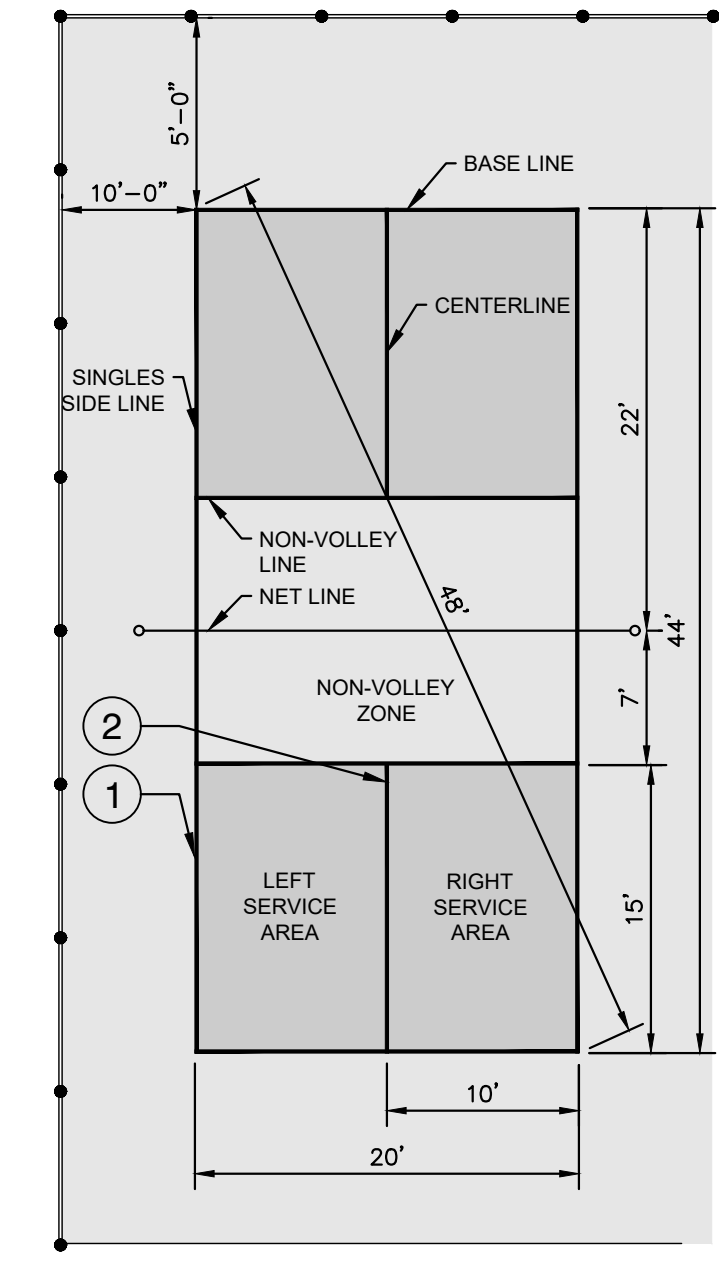
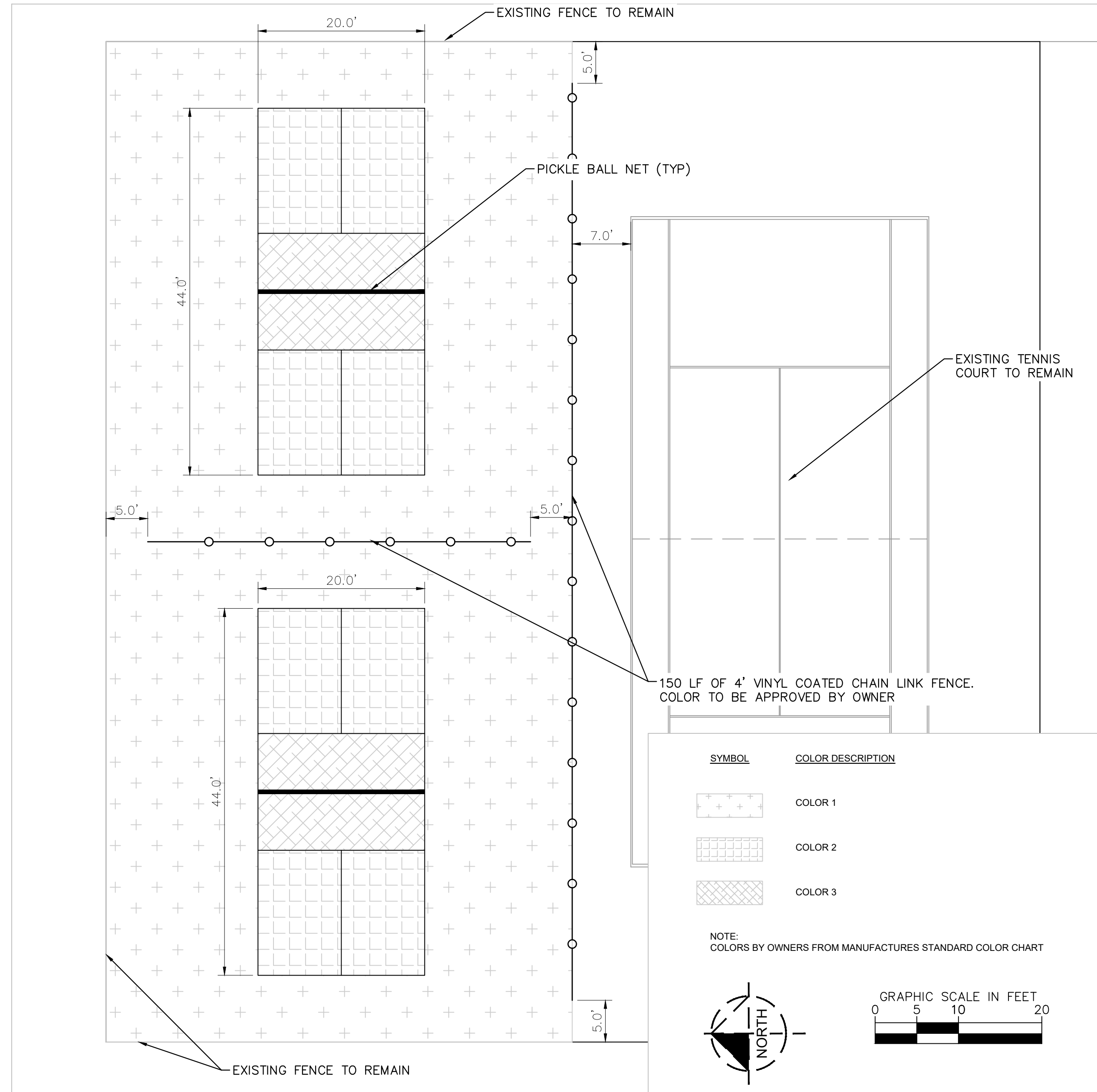
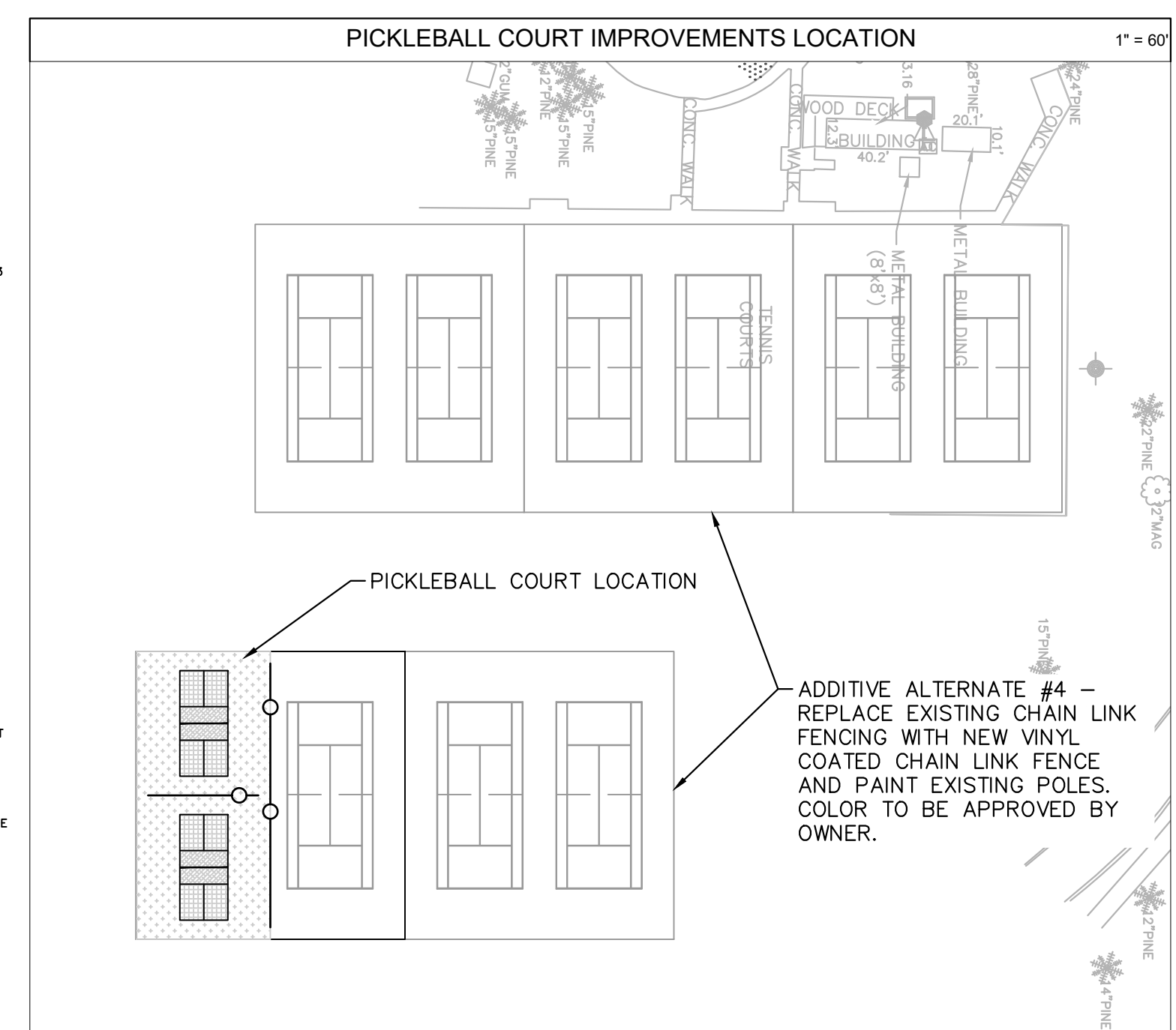
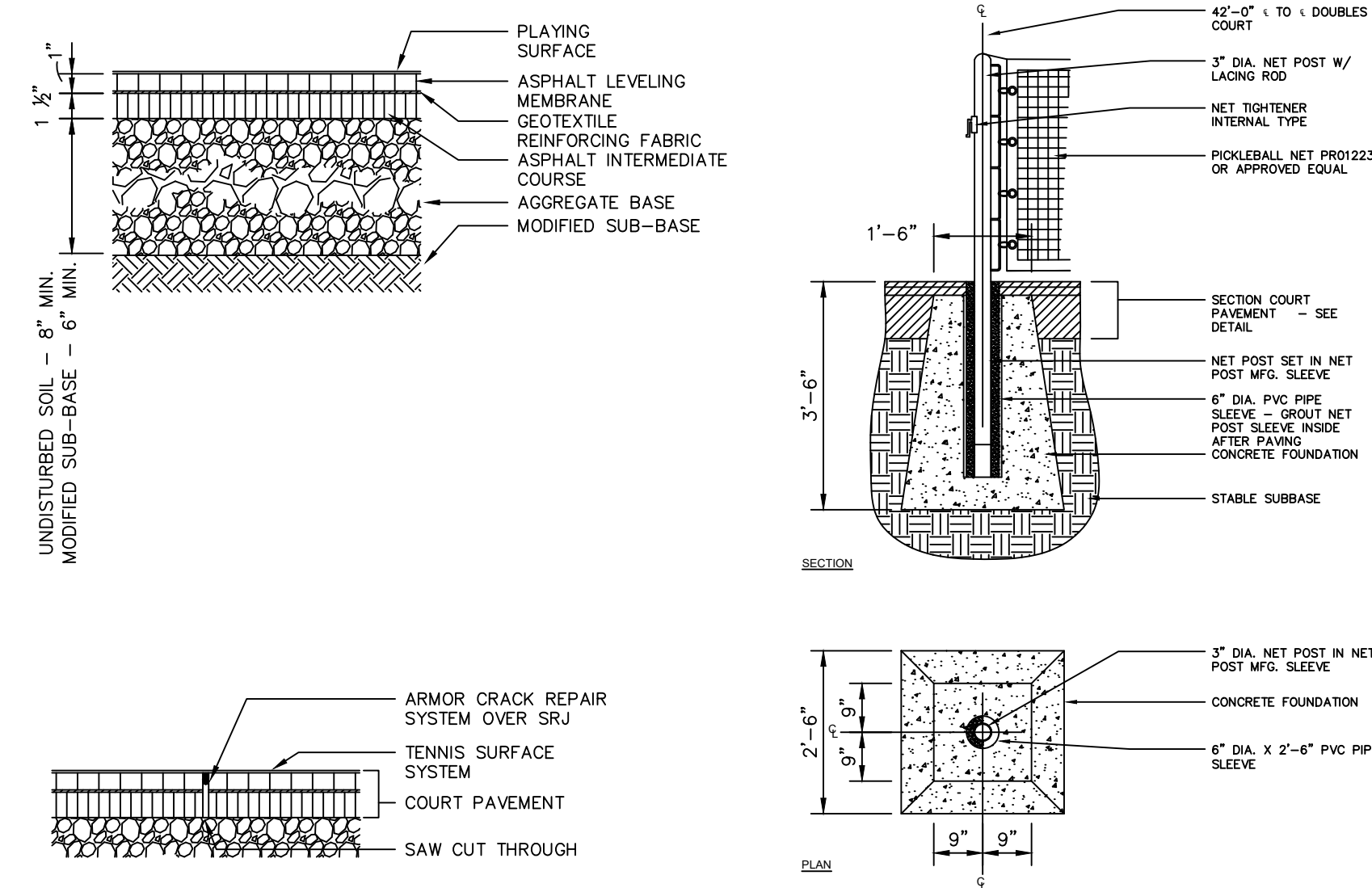
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- FENCING NOTES:**
1. STAKE FENCE PRIOR TO INSTALLATION FOR APPROVAL
 2. ALL FENCE TO BE GREEN VINYL COATED
- 1 TOP RAIL: 1-5/8" PIPE
 - 2 1/4" X 3/4" TENSION BAR
 - 3 TENSION BAR BAND CLAMP
 - 4 11 GA. CORE / 8GA. FINISH: KNUCKLE TOP AND BOTTOM: CHAINLINK FABRIC 2" MESH) CONTINUOUS
 - 5 7 GA. COIL SPRING TENSION WIRE
 - 6 TERMINAL POST: 2-7/8" POST AND CAP
 - 7 3000 PSI CONCRETE ENCASEMENT FOOTING
 - 8 LINE POST: 1-7/8" POST AND CAP

1 4 FT CHAIN LINK DIVIDER FENCE
NOT TO SCALE



PICKLEBALL REFERENCE NOTES SCHEDULE

SYMBOL	SPORTS EQUIPMENT DESCRIPTION
SE-103	COURT ORGANIZER
SE-201	PICKLEBALL NET POST
SE-202	PICKLEBALL NET
SE-203	PICKLEBALL SCOREBOARD

- NOTE:**
1. ALL DIMENSIONS ARE TO THE OUTSIDE EDGE OF THE PLAYING LINE, WITH THE EXCEPTION OF THE CENTER LINES WHICH ARE MEASURED OUT TO CENTER.
 2. THE CENTER SERVICE LINE AND CENTER MARKS SHALL BE 2 INCHES WIDE. OTHER LINES SHALL BE BETWEEN 1" AND 2" WIDE, EXCEPT THE BASE LINES MAY BE UP TO 4 INCHES WIDE.

PICKLEBALL COURT LAYOUT 1" = 10'

PICKLEBALL COURT FURNISHING LAYOUT 1" = 10'

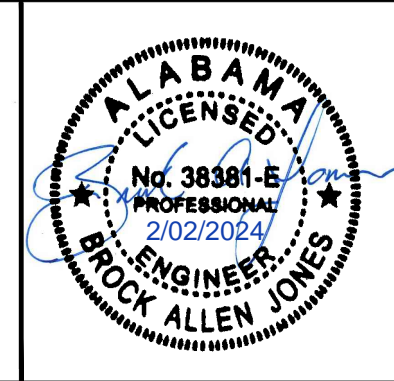
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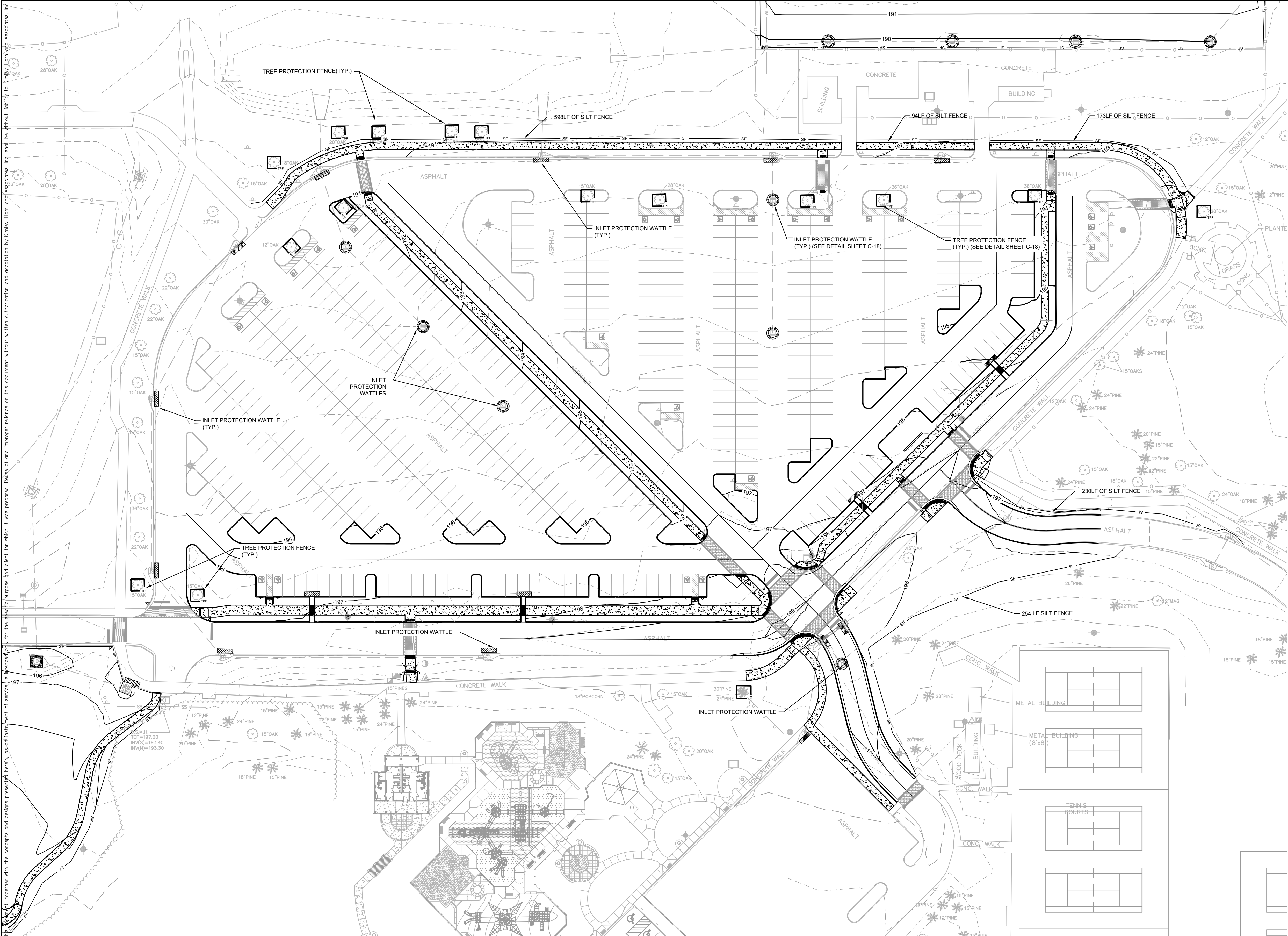
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DATE	2/2/2024
SCALE	AS SHOWN
DESIGNED BY:	BAJ
DRAWN BY:	SDN
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PREPARED FOR
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ADDITIVE ALTERNATE #3 - TENNIS COURTS IMPROVEMENTS

SHEET NUMBER
C-10



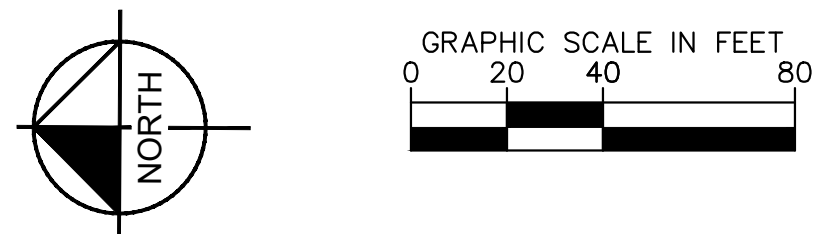
EROSION CONTROL LEGEND:

Sd1-A	SILT FENCE - TYPE A	SF
Co	CONSTRUCTION EXIT	
Sd2-F	INLET SEDIMENT TRAP: CURB INLET PROTECTION	
Sd2-F	INLET SEDIMENT TRAP: FILTER FABRIC	
Sd2-SS	INLET SEDIMENT TRAP: SILT SAVER	
St	STORM DRAIN OUTLET PROTECTION	
Fr	FILTER RING	
IPW	INLET PROTECTION (WATTLE)	
W	WATTLE	
IPW	INLET PROTECTION WATTLE	
Di	DIVERSION	
Cd	CHECK DAM	
Sd3	TEMPORARY SEDIMENT BASIN	
Ch	CHANNEL STABILIZATION	
Ds1	DISTURBED AREA STABILIZATION (MULCHING)	
Ds2	DISTURBED AREA STABILIZATION (TEMPORARY SEEDING)	
Ds3	DISTURBED AREA STABILIZATION (PERMANENT VEGETATION)	
Ss	SLOPE STABILIZATION	
Tr	TREE PROTECTION FENCE	TPF

SITE AREA SUMMARY:
 TOTAL SITE AREA = 23.8 ACRES
 TOTAL DISTURBED AREA = 6 ACRES

24-HOUR CONTACT:
 NAME: BROCK JONES
 COMPANY: KIMLEY - HORN
 NUMBER: (251) 263 - 8323

NOTE: ALL DISTURBED AREAS SHALL BE SODDED AND STABILIZED IN ACCORDANCE WITH THE LANDSCAPE PLANS. SEE SHEET L1-01 THRU L1-04



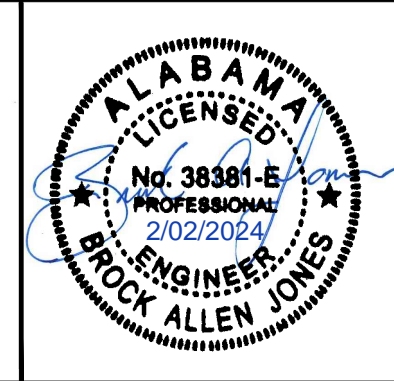
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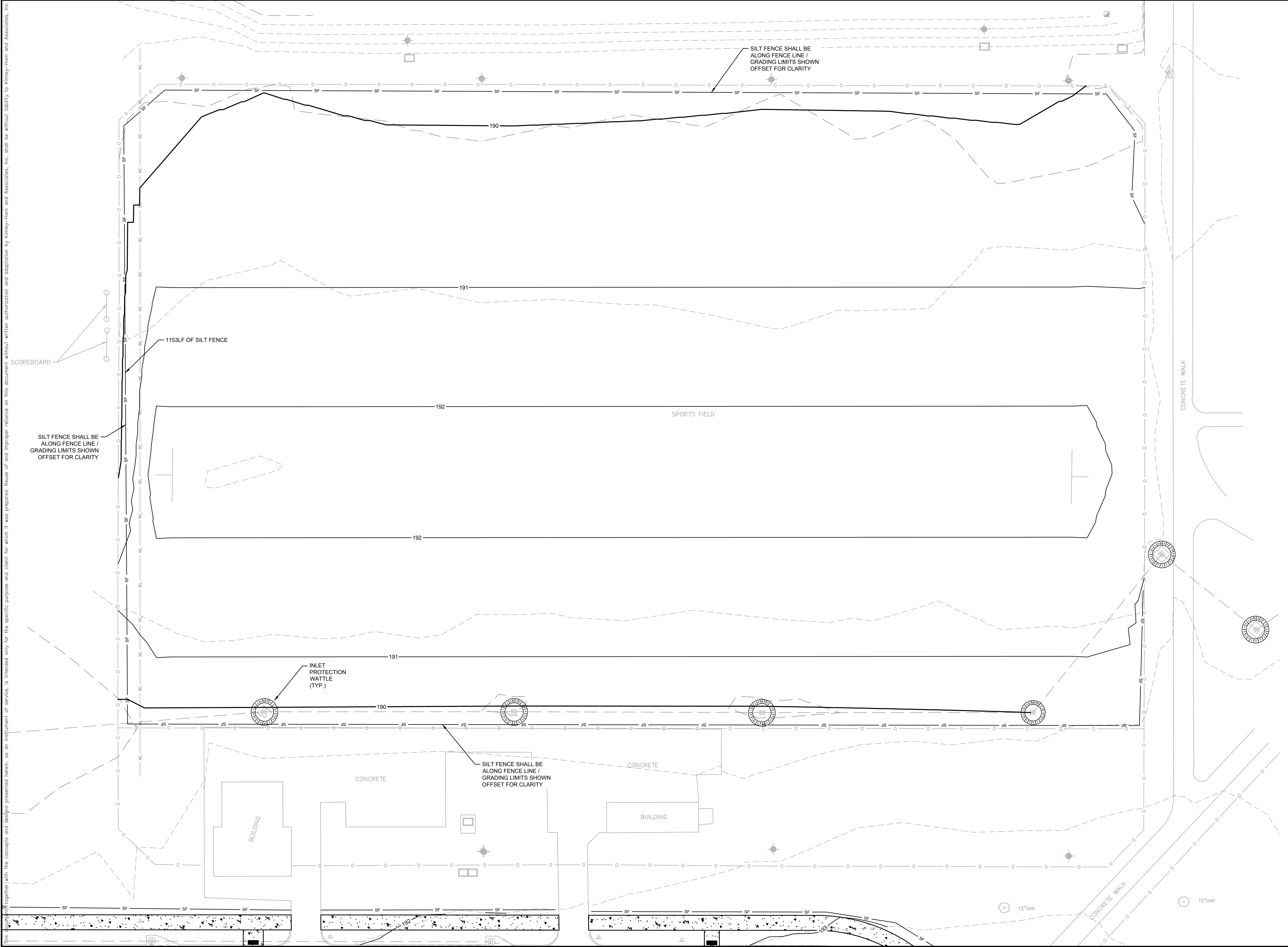
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 SCALE AS SHOWN
 DESIGNED BY: BAJ
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 CHECKED BY: JLG

MEDAL OF HONOR PARK SITE AND LIGHTING IMPROVEMENTS
 PREPARED FOR
CITY OF MOBILE
 CITY OF MOBILE ALABAMA



EROSION CONTROL PLAN
PARKING LOT

SHEET NUMBER
C-11



EROSION CONTROL LEGEND:

Sd1-A	SILT FENCE - TYPE A	SF
Co	CONSTRUCTION EXIT	[Symbol]
Sd2-F	INLET SEDIMENT TRAP: CURB INLET PROTECTION	[Symbol]
Sd2-F	INLET SEDIMENT TRAP: FILTER FABRIC	[Symbol]
Sd2-SS	INLET SEDIMENT TRAP: SILT SAVER	[Symbol]
St	STORM DRAIN OUTLET PROTECTION	[Symbol]
Fr	FILTER RING	[Symbol]
IPW	INLET PROTECTION (WATTLE)	[Symbol]
W	WATTLE	[Symbol]
IPW	INLET PROTECTION WATTLE	[Symbol]
Di	DIVERSION	[Symbol]
Cd	CHECK DAM	[Symbol]
Sd3	TEMPORARY SEDIMENT BASIN	[Symbol]
Ch	CHANNEL STABILIZATION	[Symbol]
Ds1	DISTURBED AREA STABILIZATION (MULCHING)	[Symbol]
Ds2	DISTURBED AREA STABILIZATION (TEMPORARY SEEDING)	[Symbol]
Ds3	DISTURBED AREA STABILIZATION (PERMANENT VEGETATION)	[Symbol]
Ss	SLOPE STABILIZATION	[Symbol]
Tr	TREE PROTECTION FENCE	[Symbol]

SITE AREA SUMMARY:
 TOTAL SITE AREA = 23.8 ACRES
 TOTAL DISTURBED AREA = 6 ACRES

24-HOUR CONTACT:
 NAME: BROCK JONES
 COMPANY: KIMLEY - HORN
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NOTE: ALL DISTURBED AREAS SHALL BE SODDED AND STABILIZED IN ACCORDANCE WITH THE LANDSCAPE PLANS. SEE SHEET L1-01 THRU L1-04

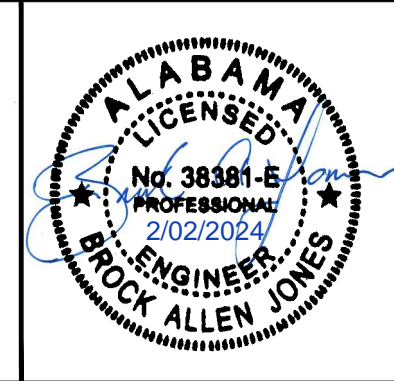
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EROSION CONTROL PLAN
FOOTBALL FIELD

SHEET NUMBER
C-12

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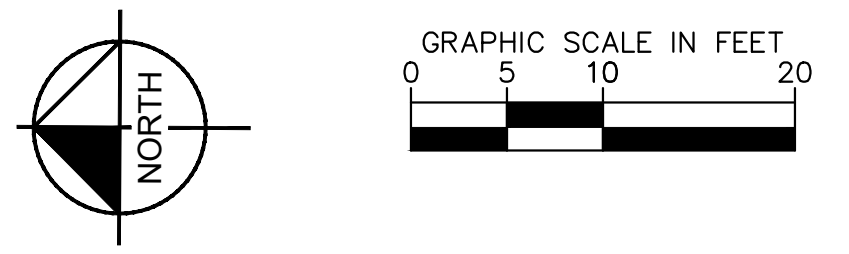


EROSION CONTROL LEGEND:	
(Sd1-A)	SILT FENCE - TYPE A
(Co)	CONSTRUCTION EXIT
(Sd2-F)	INLET SEDIMENT TRAP: CURB INLET PROTECTION
(Sd2-F)	INLET SEDIMENT TRAP: FILTER FABRIC
(Sd2-SS)	INLET SEDIMENT TRAP: SILT SAVER
(St)	STORM DRAIN OUTLET PROTECTION
(Fr)	FILTER RING
(IPW)	INLET PROTECTION (WATTLE)
(W)	WATTLE
(IPW)	INLET PROTECTION WATTLE
(Di)	DIVERSION
(Cd)	CHECK DAM
(Sd3)	TEMPORARY SEDIMENT BASIN
(Ch)	CHANNEL STABILIZATION
(Ds1)	DISTURBED AREA STABILIZATION (MULCHING)
(Ds2)	DISTURBED AREA STABILIZATION (TEMPORARY SEEDING)
(Ds3)	DISTURBED AREA STABILIZATION (PERMANENT VEGETATION)
(Ss)	SLOPE STABILIZATION
(Tr)	TREE PROTECTION FENCE

SITE AREA SUMMARY:
 TOTAL SITE AREA = 23.8 ACRES
 TOTAL DISTURBED AREA = 6 ACRES

24-HOUR CONTACT:
 NAME: BROCK JONES
 COMPANY: KIMLEY - HORN
 NUMBER: (251) 263 - 8323

NOTE: ALL DISTURBED AREAS SHALL BE SODDED AND STABILIZED IN ACCORDANCE WITH THE LANDSCAPE PLANS. SEE SHEET L1-01 THRU L1-04



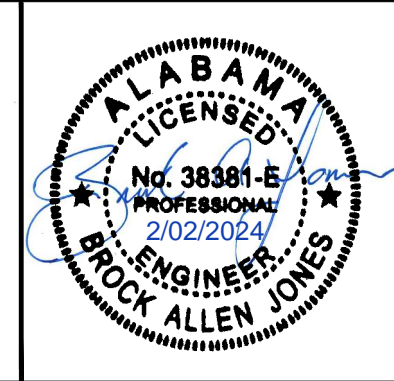
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KHA PROJECT
 142920003
 DATE
 2/2/2024
 SCALE AS SHOWN
 DESIGNED BY: BAJ
 DRAWN BY: SDN
 CHECKED BY: JLG

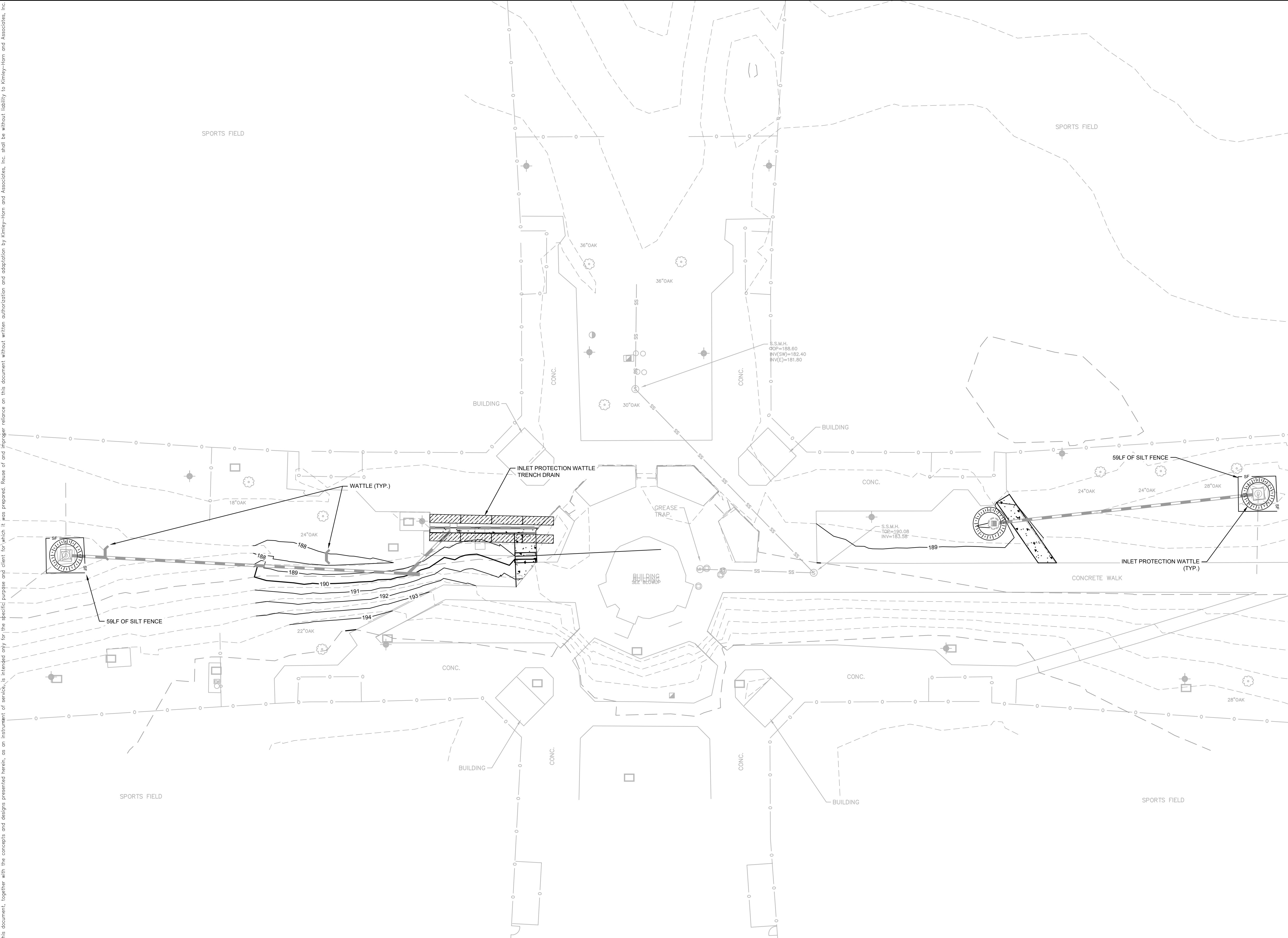
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 CITY OF MOBILE ALABAMA



ADDITIVE ALTERNATE #1 - EROSION CONTROL PLAN AMPHITHEATER

SHEET NUMBER
C-13

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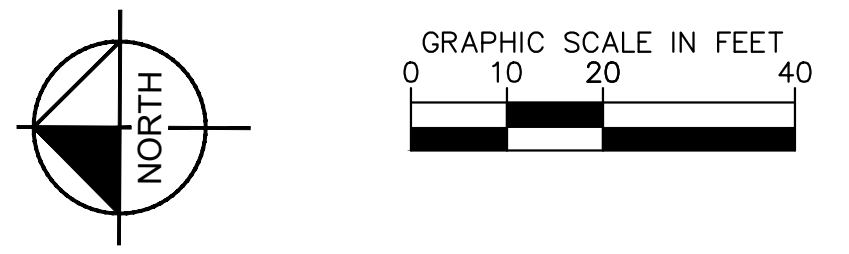


EROSION CONTROL LEGEND:	
(Sd1-A)	SILT FENCE - TYPE A
(Co)	CONSTRUCTION EXIT
(Sd2-F)	INLET SEDIMENT TRAP: CURB INLET PROTECTION
(Sd2-F)	INLET SEDIMENT TRAP: FILTER FABRIC
(Sd2-SS)	INLET SEDIMENT TRAP: SILT SAVER
(St)	STORM DRAIN OUTLET PROTECTION
(Fr)	FILTER RING
(IPW)	INLET PROTECTION (WATTLE)
(W)	WATTLE
(IPW)	INLET PROTECTION WATTLE
(Di)	DIVERSION
(Cd)	CHECK DAM
(Sd3)	TEMPORARY SEDIMENT BASIN
(Ch)	CHANNEL STABILIZATION
(Ds1)	DISTURBED AREA STABILIZATION (MULCHING)
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(Ss)	SLOPE STABILIZATION
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NOTE: ALL DISTURBED AREAS SHALL BE SODDED AND STABILIZED IN ACCORDANCE WITH THE LANDSCAPE PLANS. SEE SHEET L1-01 THRU L1-04



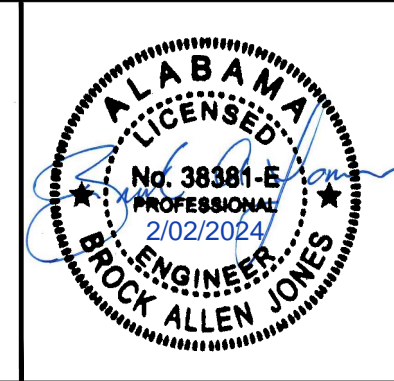
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DATE	2/2/2024
SCALE	AS SHOWN
DESIGNED BY:	BAJ
DRAWN BY:	SDN
CHECKED BY:	JLG

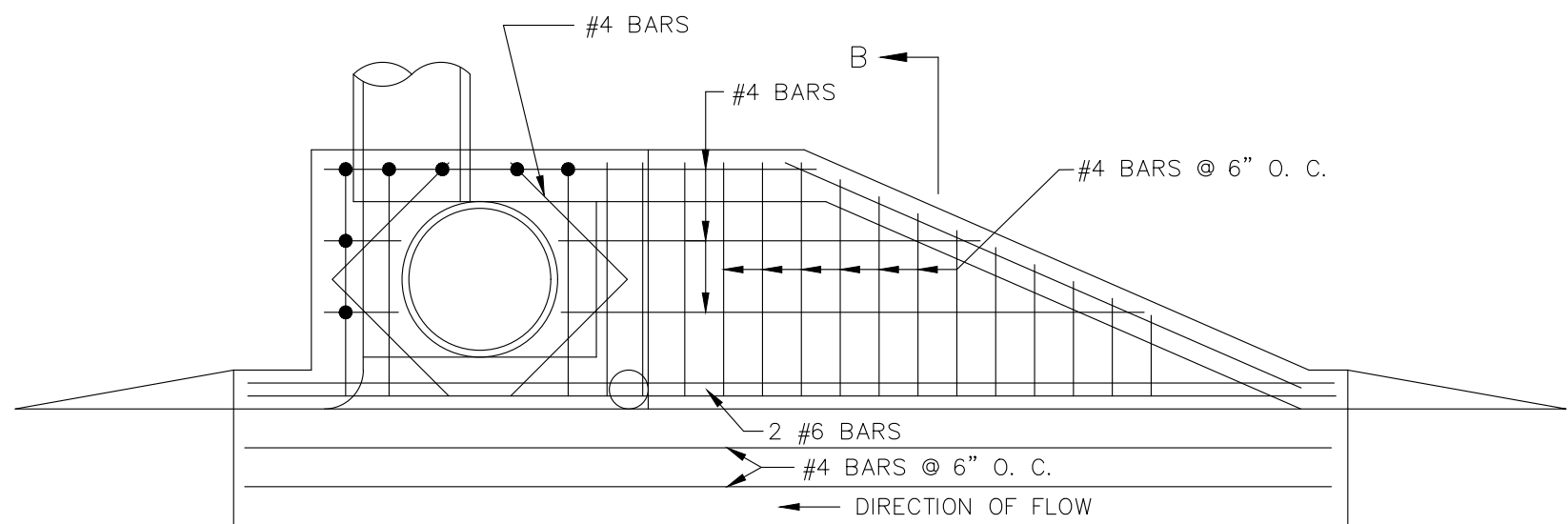
MEDAL OF HONOR PARK SITE AND LIGHTING IMPROVEMENTS
 PREPARED FOR
CITY OF MOBILE
 ALABAMA



ADDITIVE ALTERNATE #2 - EROSION CONTROL PLAN
BASEBALL FIELD

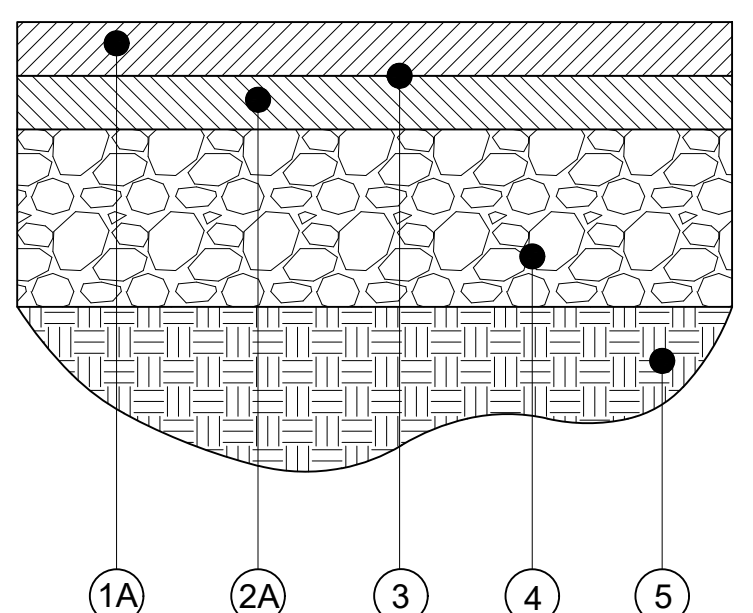
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C-14

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DETAIL OF SINGLE WING - TYPE "S" INLET
N.T.S.

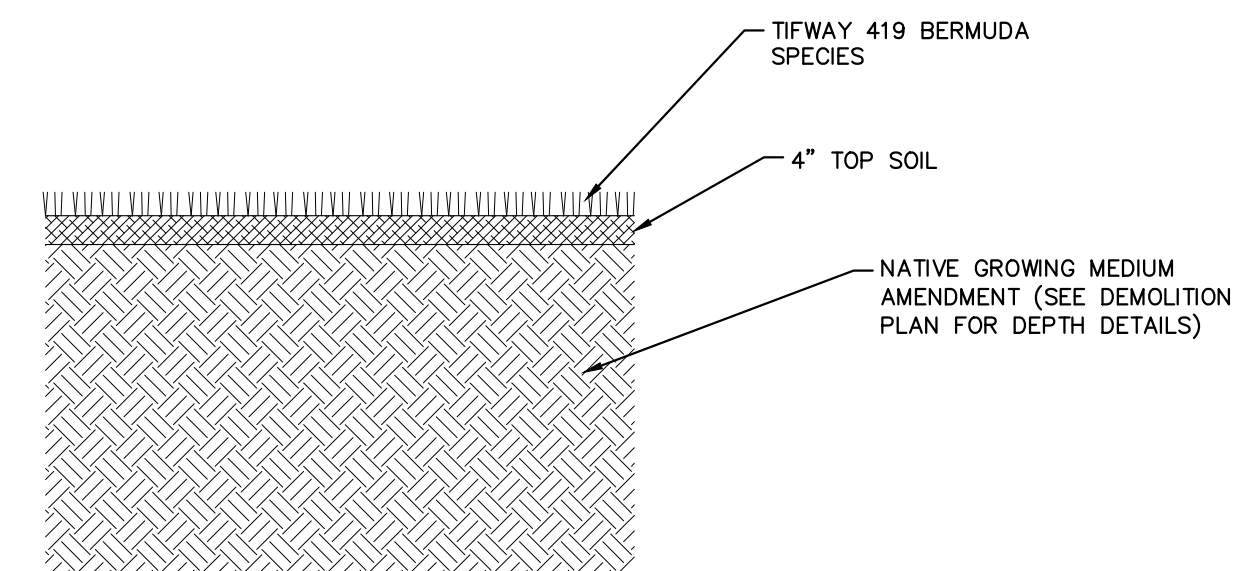
1 S-INLET
N.T.S.



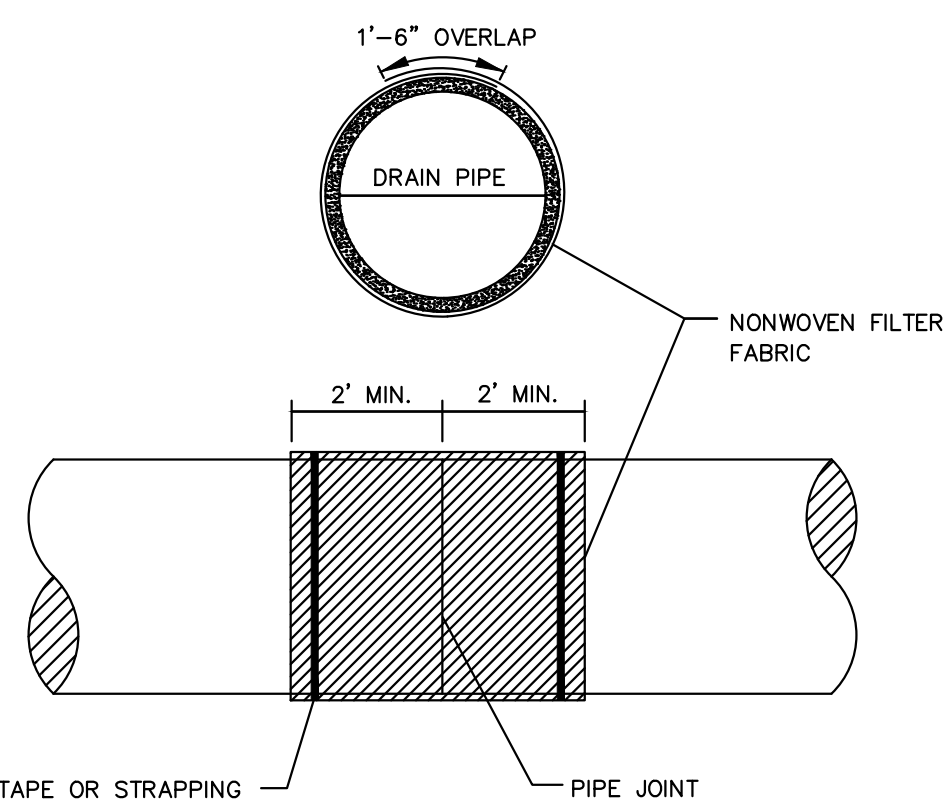
NOTE: TO BE CONSTRUCTED PER ALDOT SPECIFICATIONS (SECTIONS 210, 301, 401, & 424) & GEOTECHNICAL ENGINEERING REPORT.

- 1A 424-A 165#/SY SUPERPAVE BITUMINOUS CONCRETE WEARING SURFACE LAYER 1 1/2" MAX. AGG. SIZE MIX, ESAL RANGE A
- 2A 424-B 220#/SY SUPERPAVE BITUMINOUS CONCRETE BINDER LAYER 1 1/2" MAX. AGG. SIZE MIX, ESAL RANGE A
- 3 401-A BITUMINOUS TREATMENT A
- 4 301-A CRUSHED AGGREGATE BASE COURSE, PLANT MIXED 8" COMPACTED THICKNESS
- 5 210-A/210-B UNCLASSIFIED/BORROW EXCAVATION

2 TYPICAL ASPHALT BUILD-UP
N.T.S.

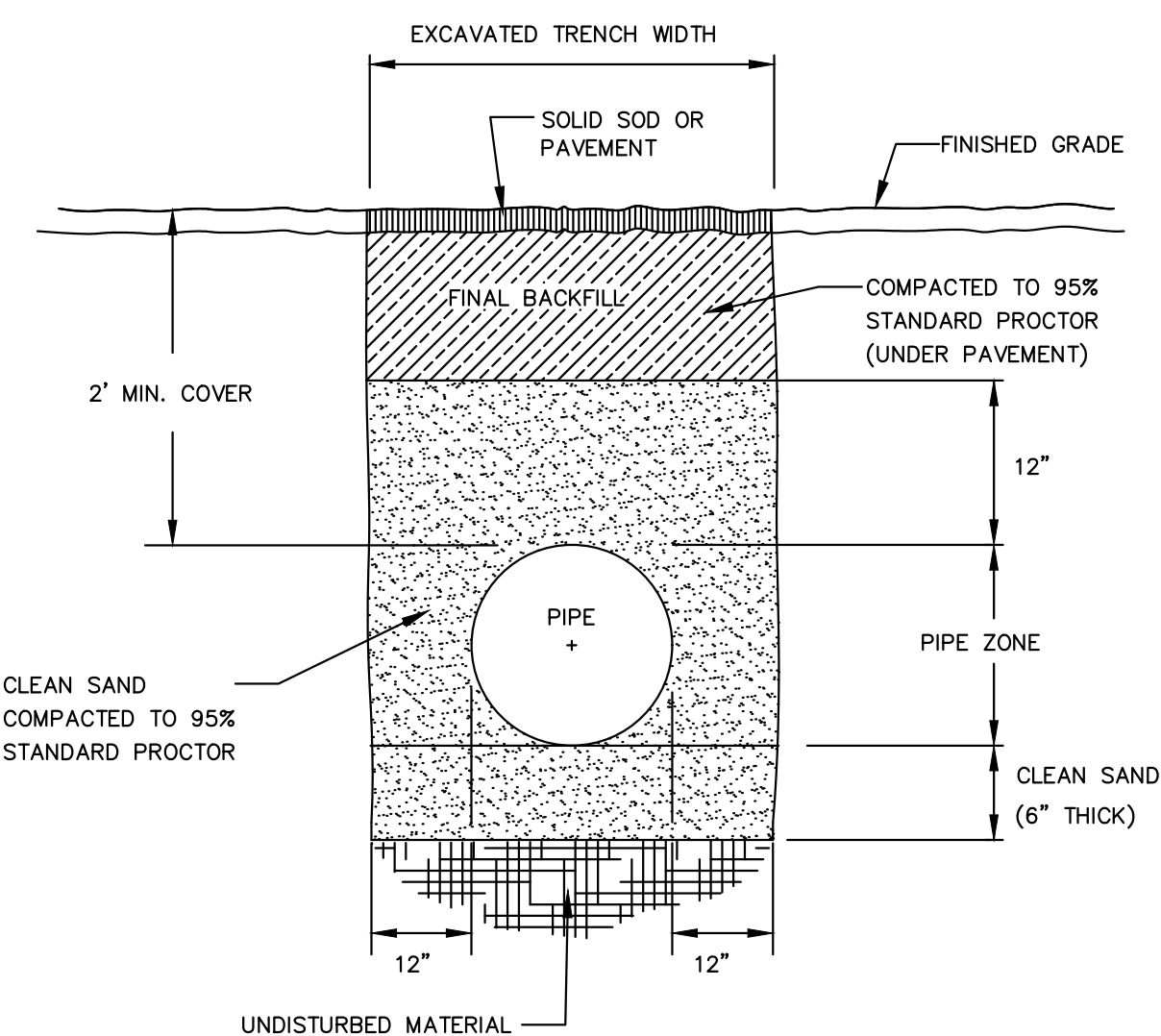


3 SPORTS FIELD GROWING MEDIUM
1 1/2"=1'-0"

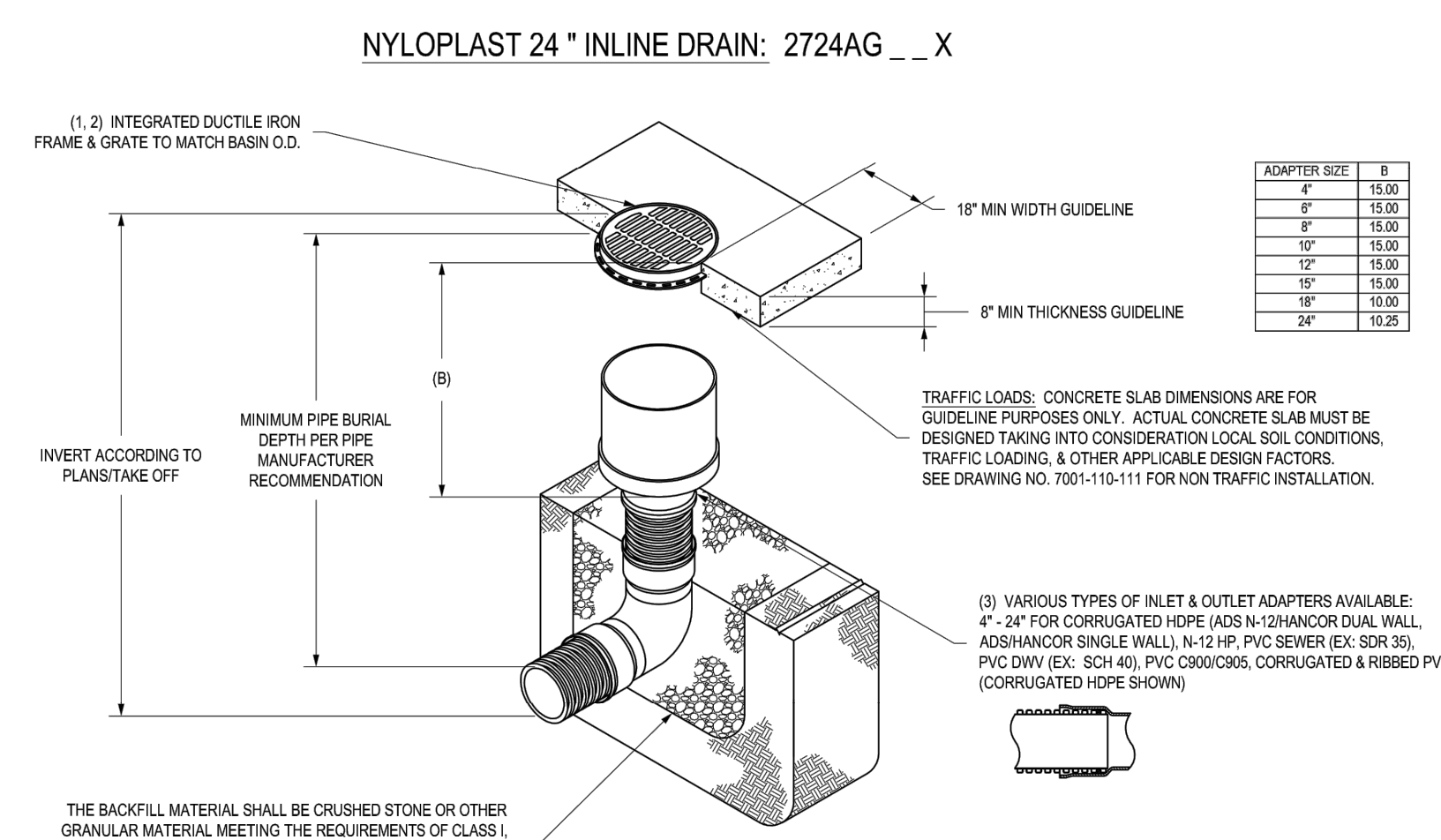


NOTE:
JOINTS ON ALL STORM DRAIN PIPES SHALL BE PIPE WRAPPED WITH A NON-WOVEN FILTER FABRIC AS SHOWN IN THIS DETAIL.

4 PIPE JOINT WRAP
N.T.S.



5 PIPE TRENCH BACKFILL
N.T.S.



6 NYLOPLAST 24" INLINE DRAIN
N.T.S.

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DESIGNED BY: BAJ

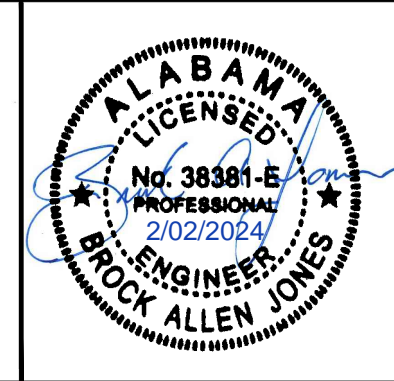
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MEDAL OF HONOR PARK SITE AND LIGHTING IMPROVEMENTS

PREPARED FOR
CITY OF MOBILE

CITY OF MOBILE ALABAMA



CIVIL DETAIL SHEET (1 OF 3)

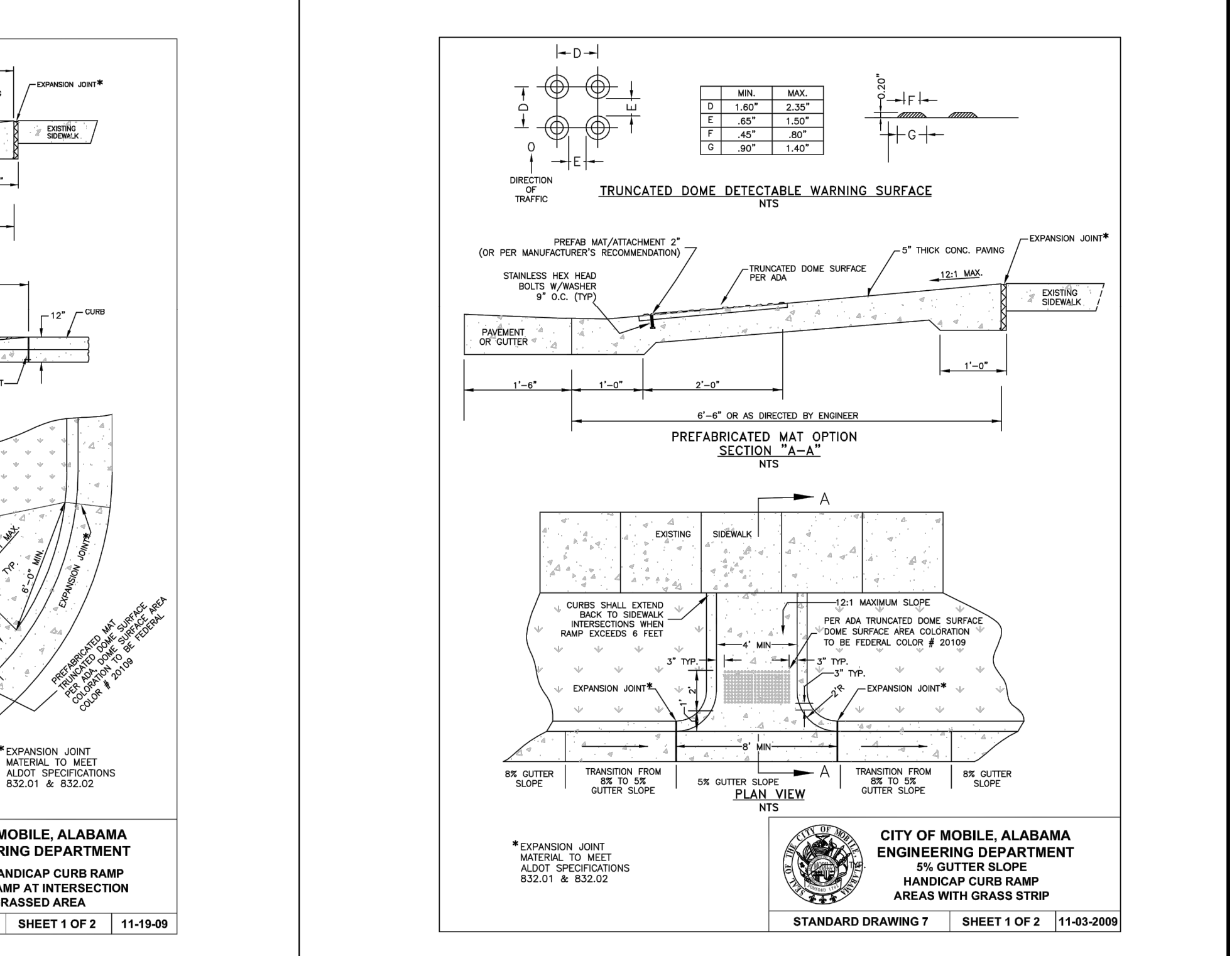
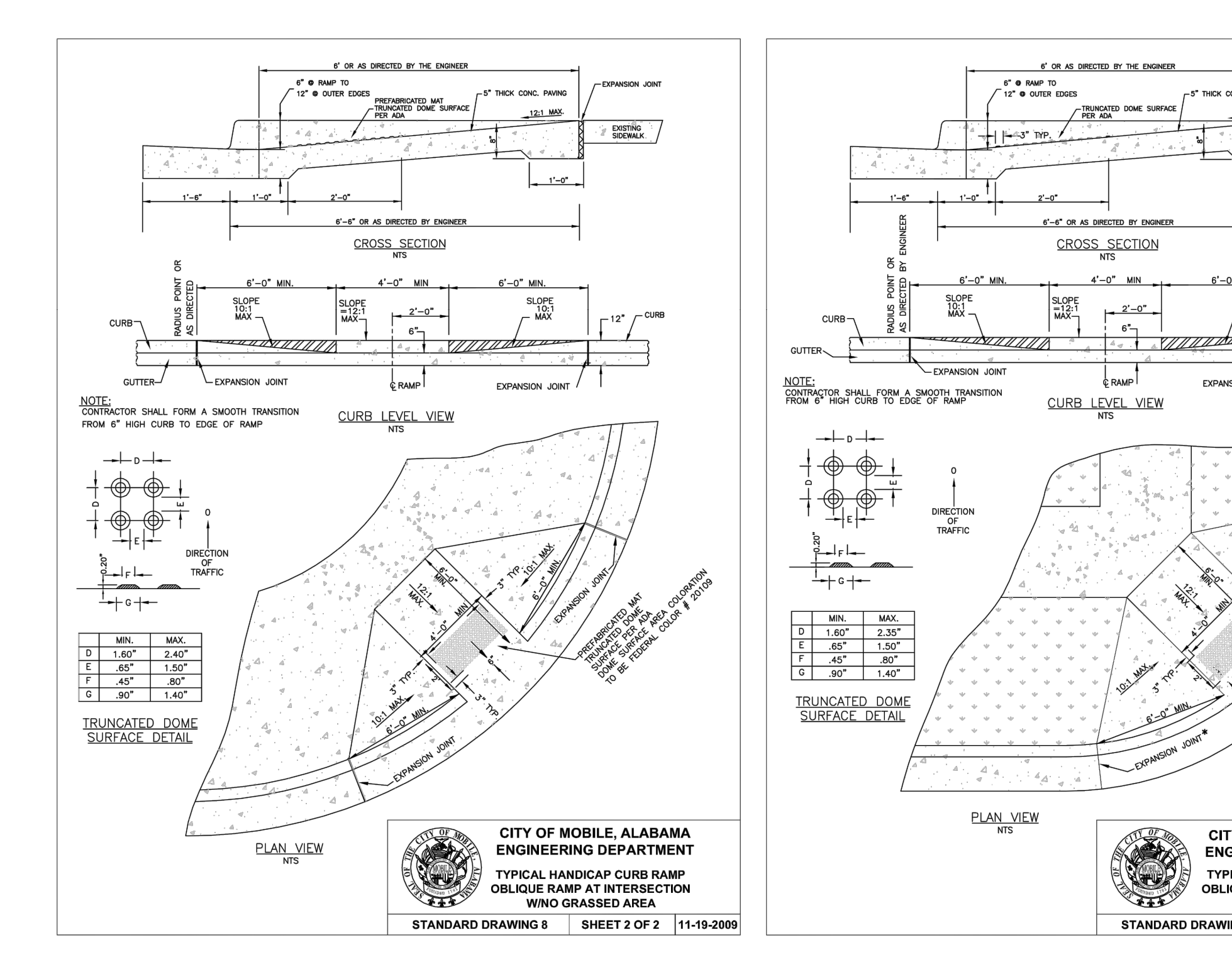
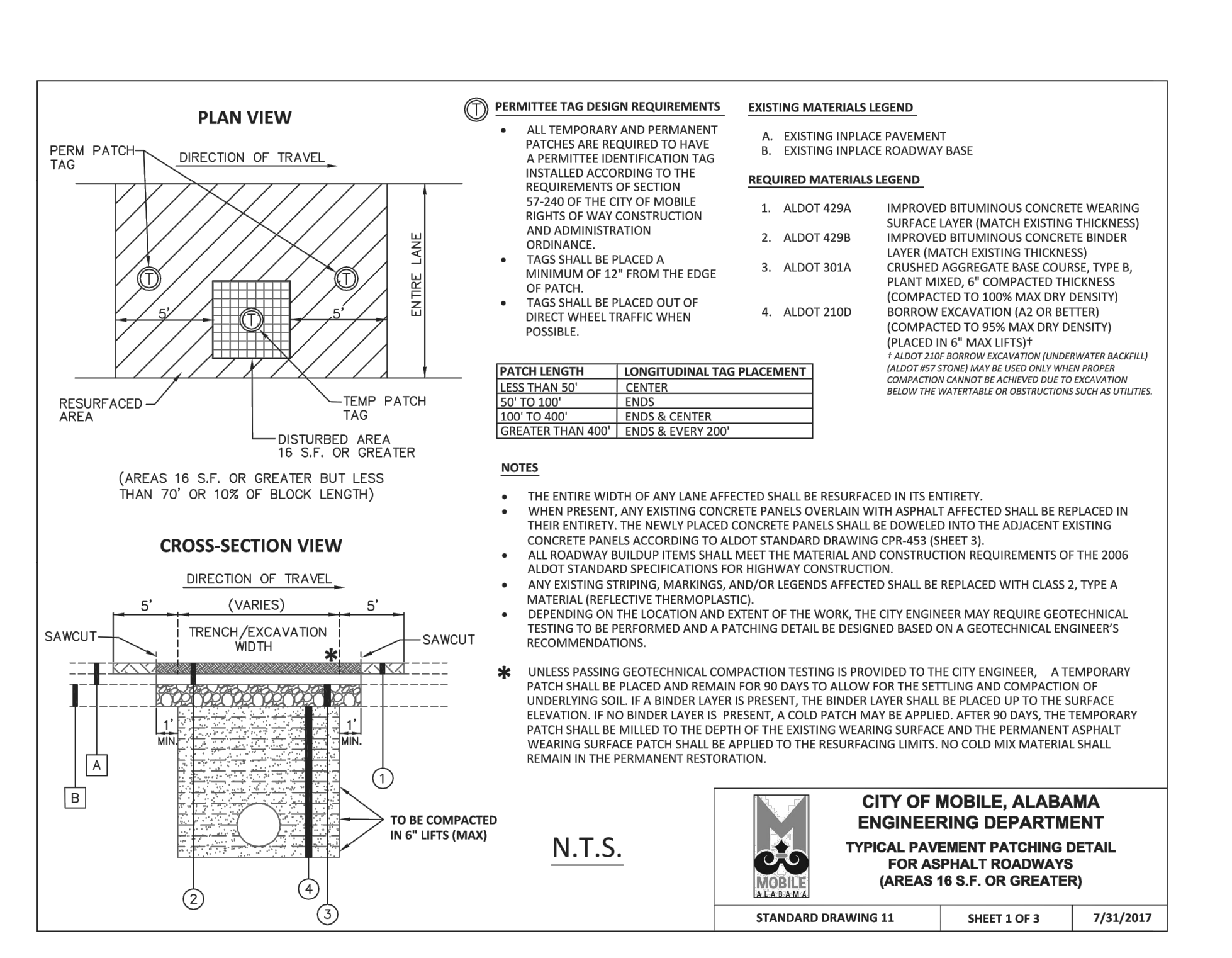
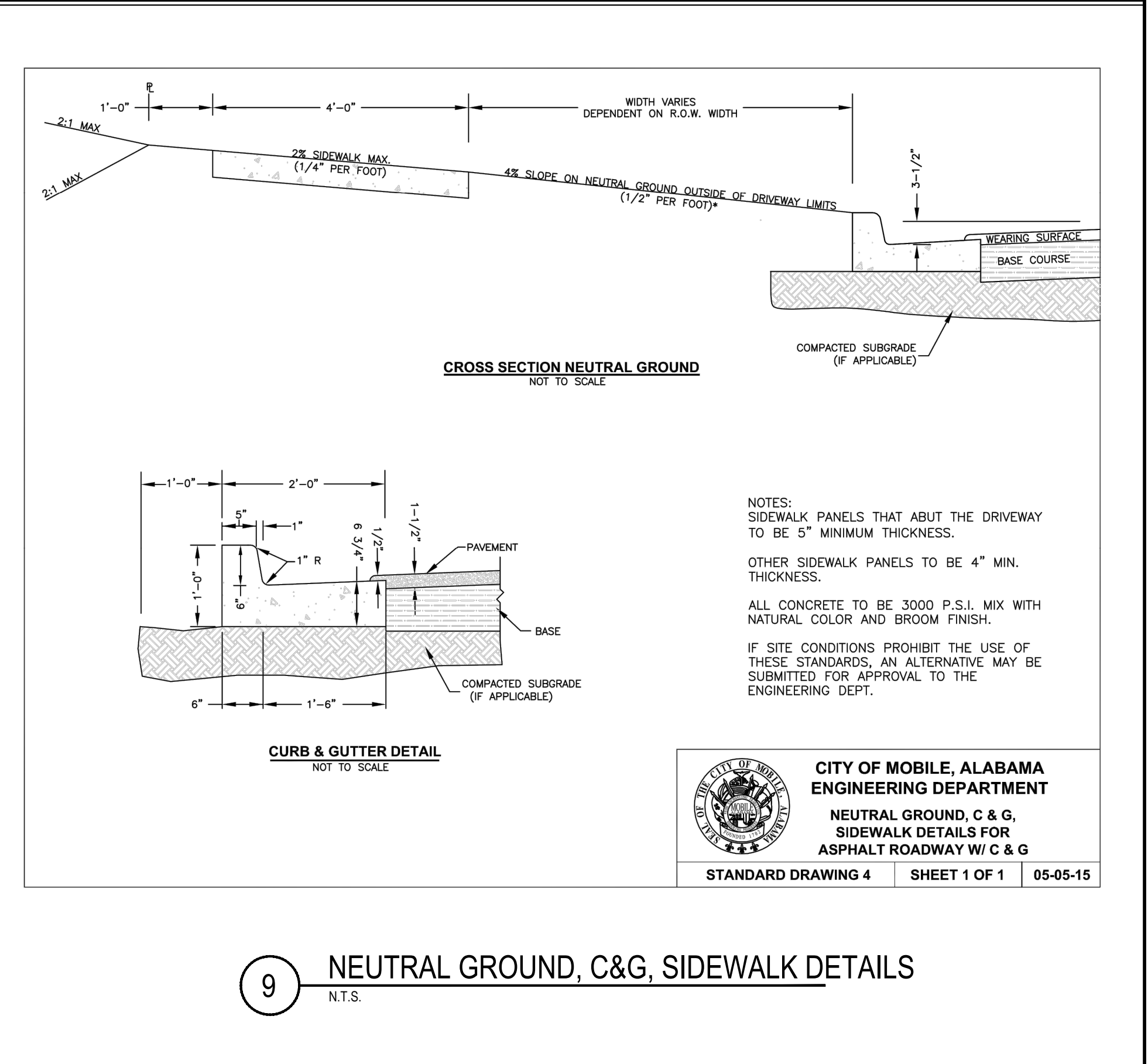
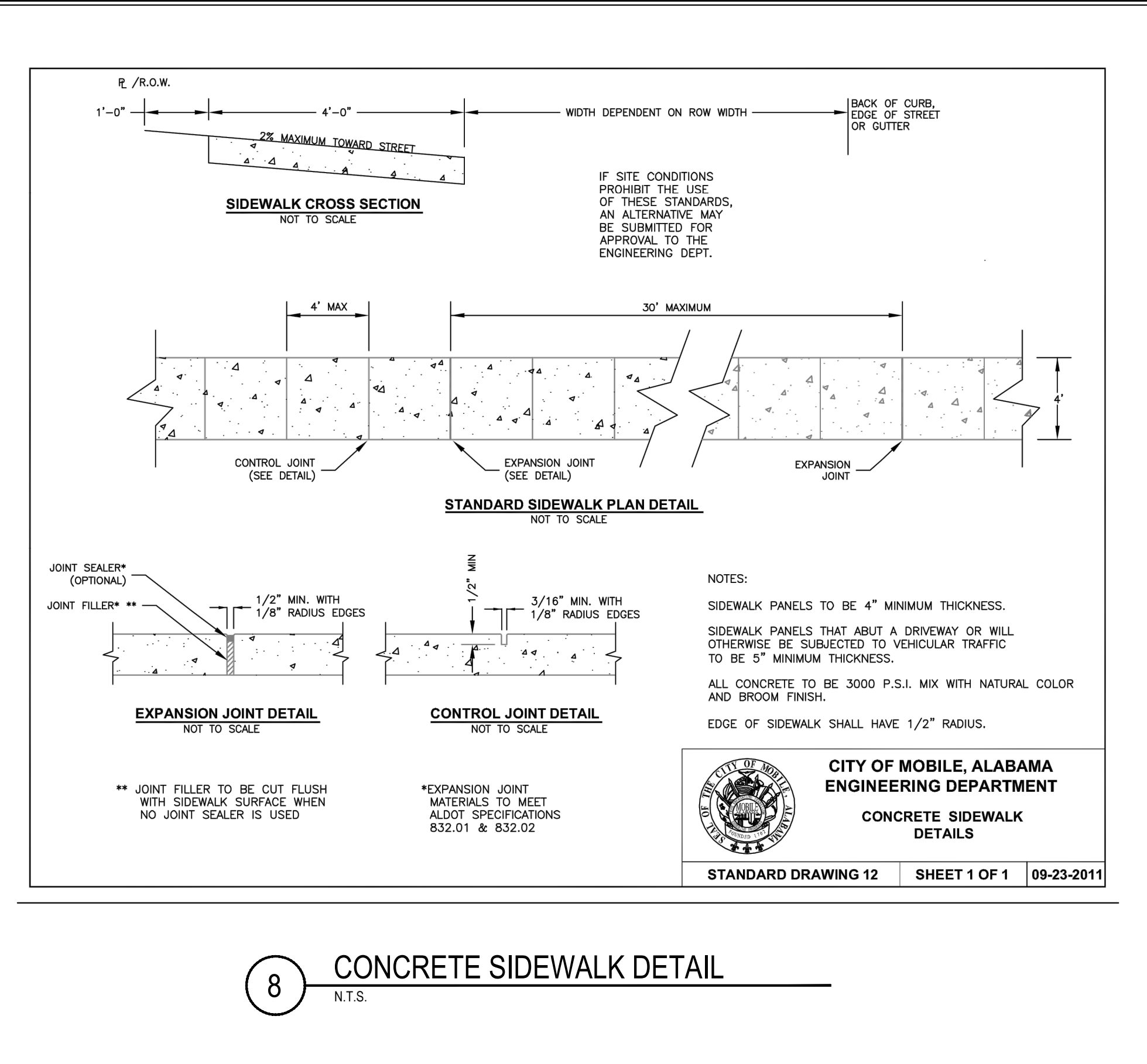
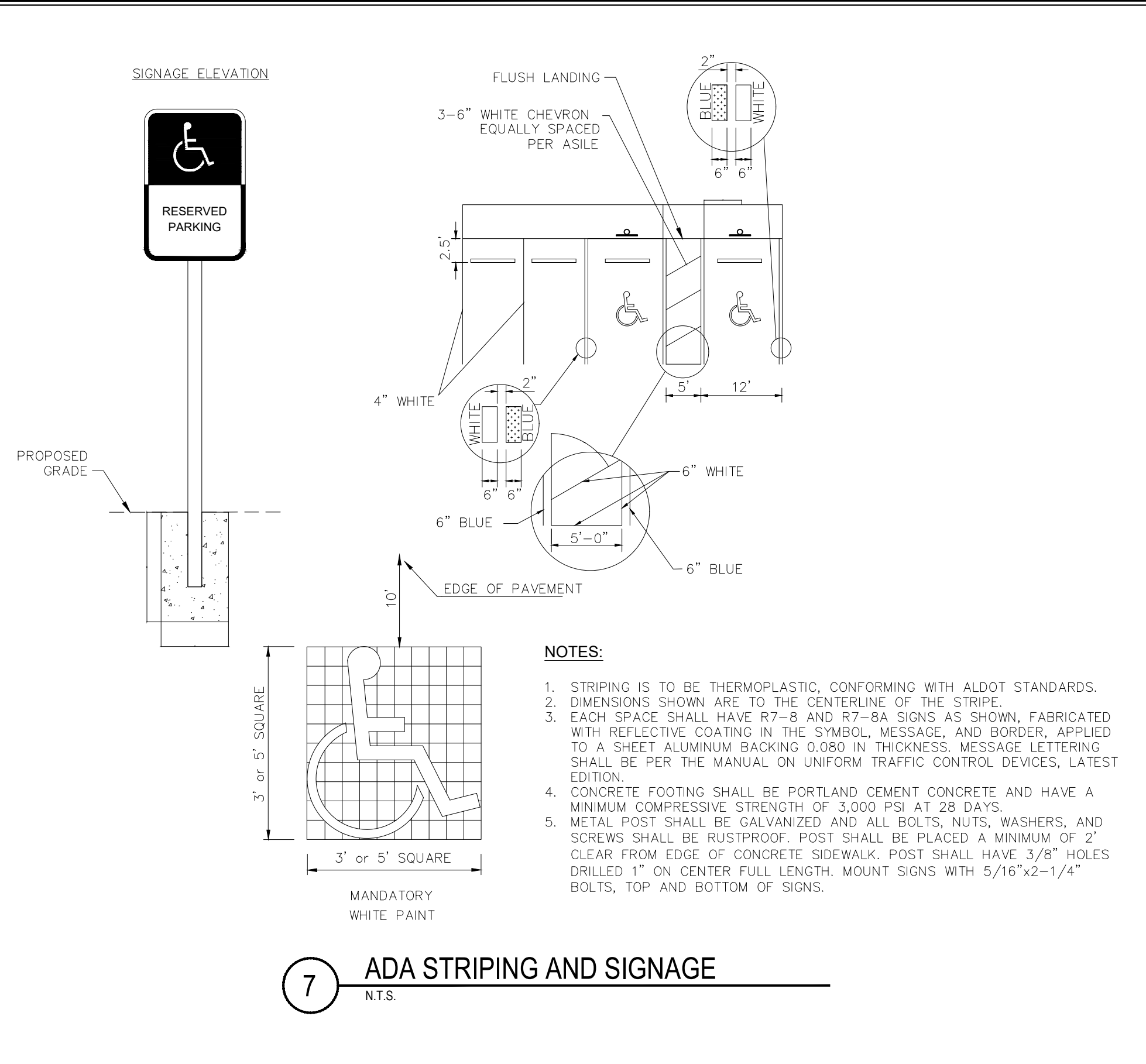
3150 VERONA AVE
BIRMINGHAM, AL 35218
PH (205) 932-2442
FAX (205) 932-2490
www.kha.com

Nyloplast

24 IN INLINE DRAIN QUICK SPEC INSTALLATION DETAIL

DWG NO. 7005-110-028 REV E

SHEET NUMBER
C-15



No.	REVISIONS	DATE	BY

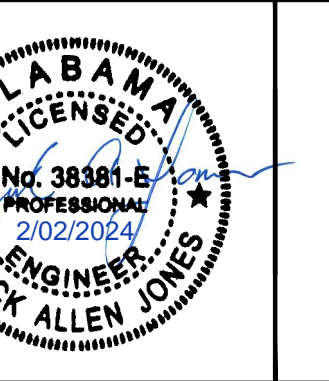
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SCALE AS SHOWN
DESIGNED BY: BAJ
DRAWN BY: SDN
CHECKED BY: JLG

MEDAL OF HONOR PARK SITE AND LIGHTING IMPROVEMENTS
PREPARED FOR
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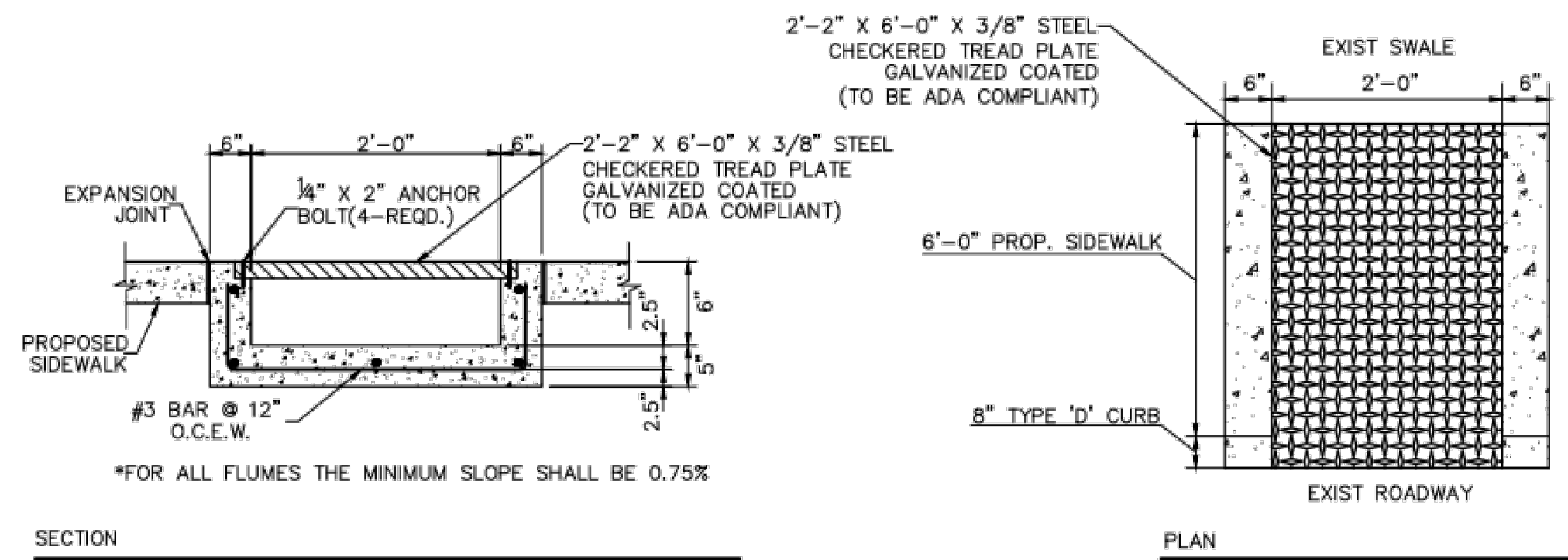
CITY OF MOBILE ALABAMA



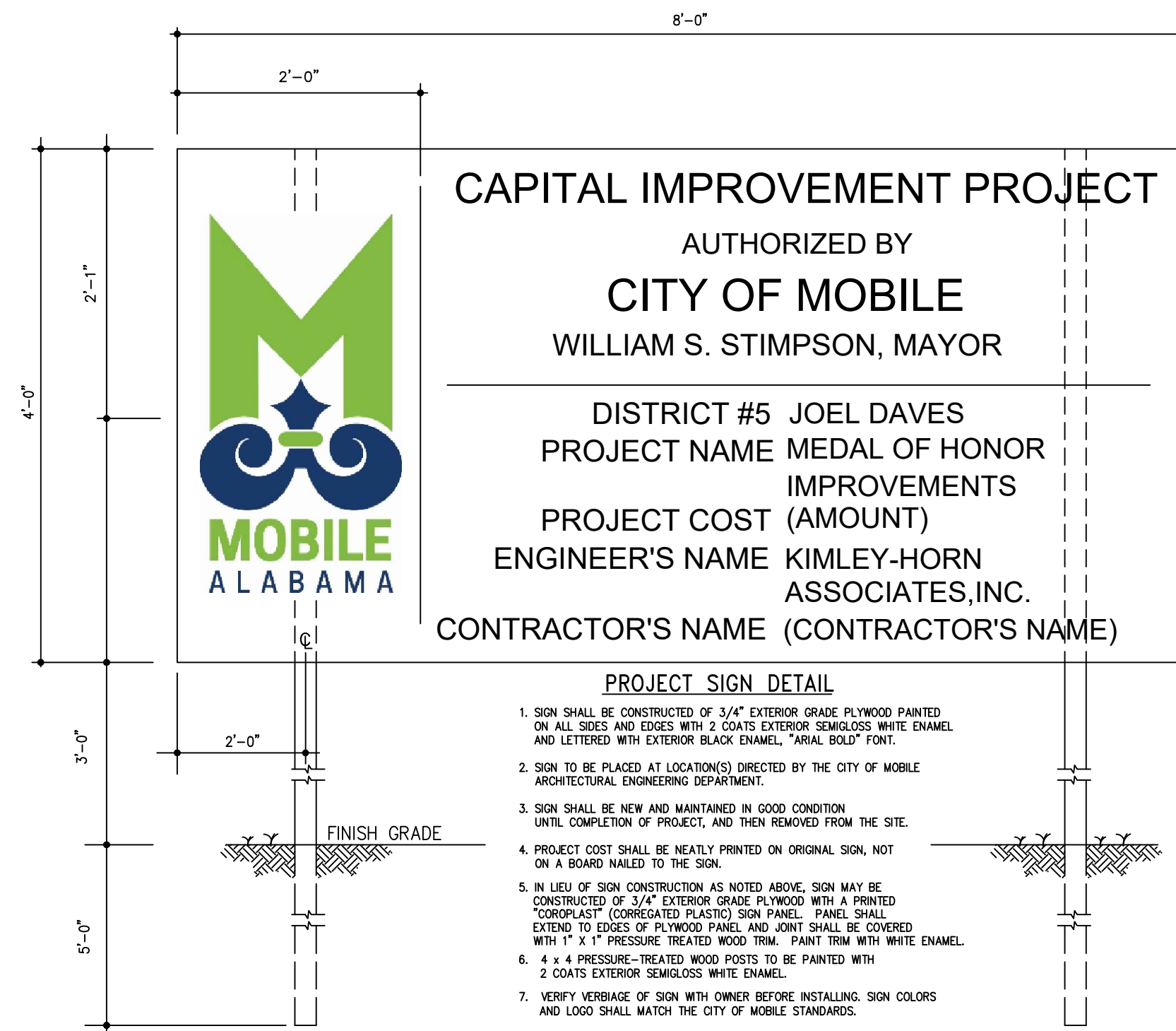
CIVIL DETAIL SHEET (2 OF 3)

SHEET NUMBER **C-16**

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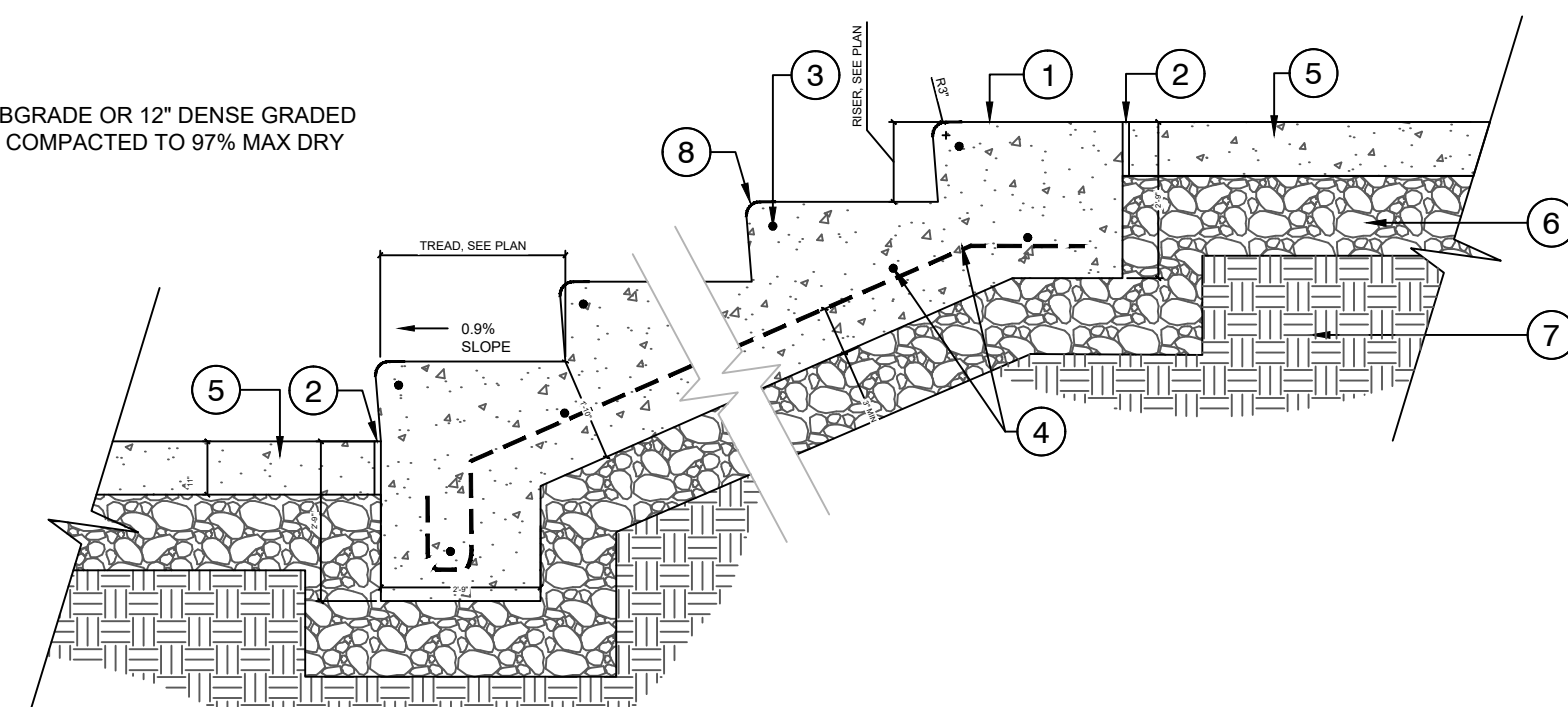


13 CONCRETE FLUME WITH TREAD PLATE COVER
N.T.S.



14 CITY IMPROVEMENT SIGN
N.T.S.

- 1 CLASS A STANDARD CONCRETE STEPS AND LANDINGS, MIN 4000 PSI, FINISH TBD
- 2 3/8" WIDE ASPHALT IMPREGNATED FIBROUS EXPANSION JOINT, EACH END
- 3 NO. 3 NOSING BAR, BEND DOWN 4" AT ENDS
- 4 NO. 4 BAR 9" O.C. E.W., 3" MIN CLEARANCE FROM FACE
- 5 ADJACENT PAVING, SEE PLANS
- 6 COMPACTED AGGREGATE BASE
- 7 BUILD FORM ON UNDISTURBED SUBGRADE OR 12" DENSE GRADED CRUSHED STONE OVERFILL, BOTH COMPACTED TO 97% MAX DRY DENSITY
- 8 1/2" BULLNOSE ON ALL STEPS



15 CONCRETE STEPS
N.T.S.

No.	REVISIONS	DATE	BY

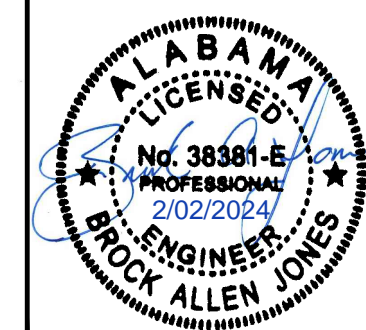
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DESIGNED BY:	BAJ
DRAWN BY:	SDN
CHECKED BY:	JLG

MEDAL OF HONOR PARK SITE AND LIGHTING IMPROVEMENTS
PREPARED FOR
CITY OF MOBILE

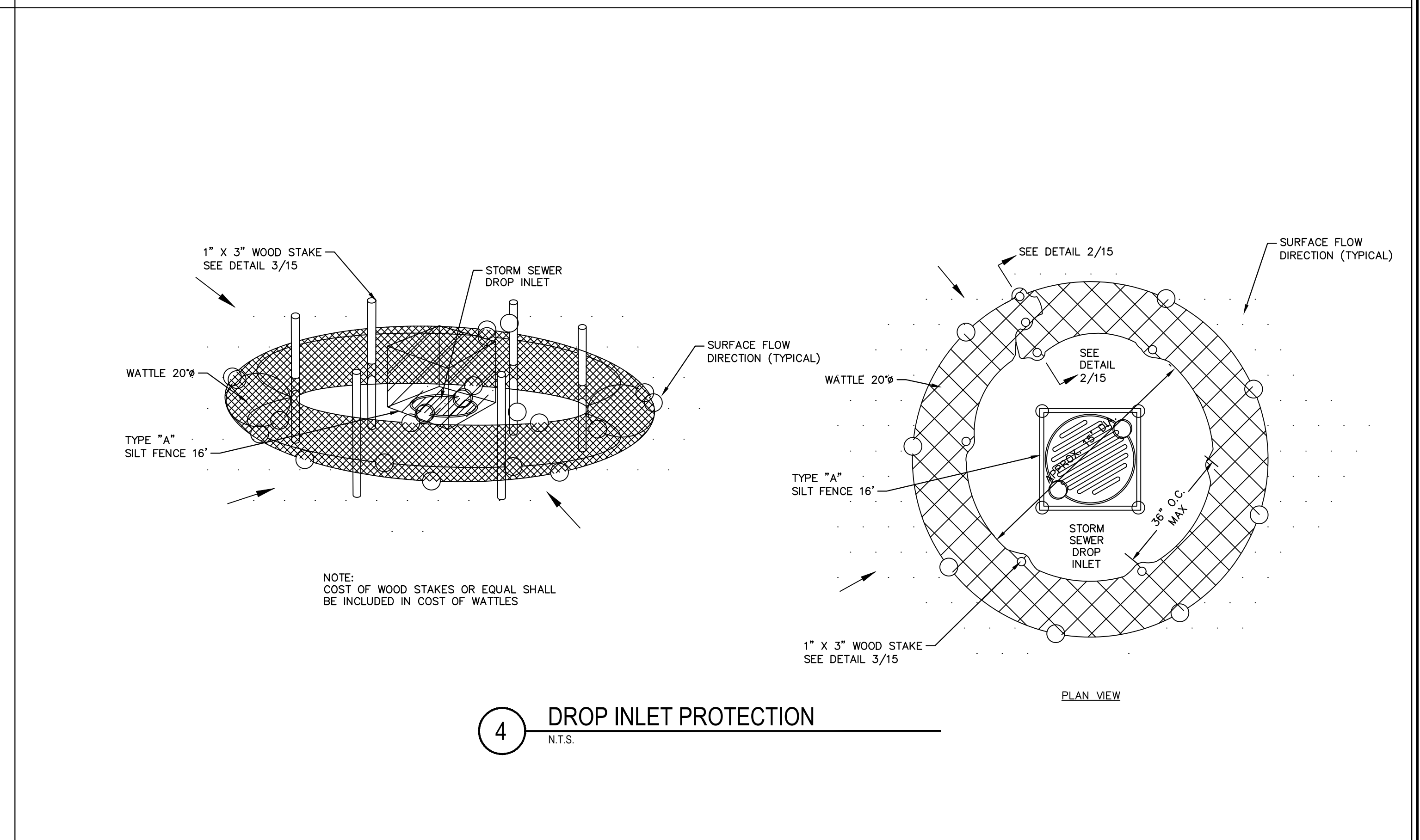
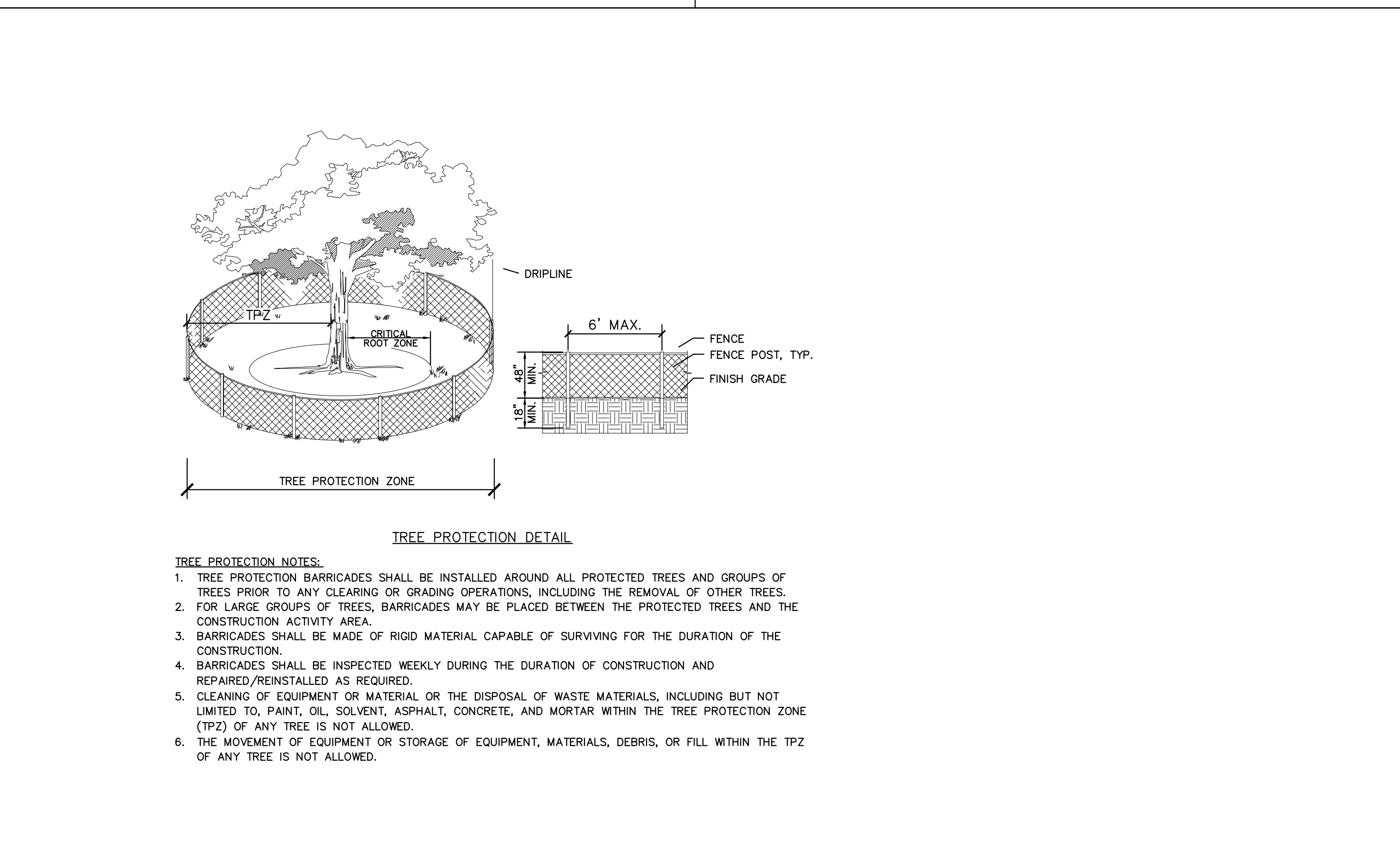
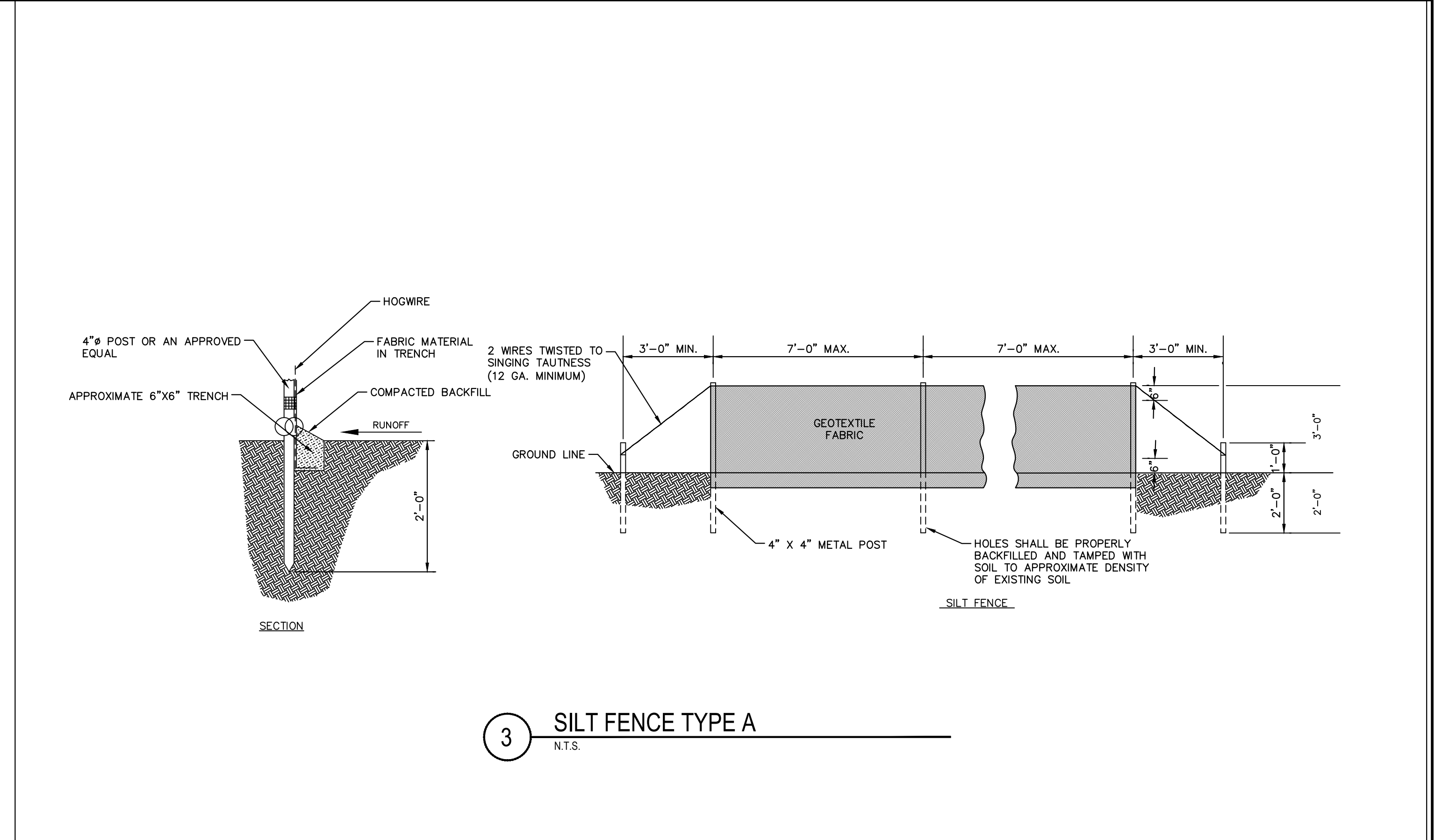
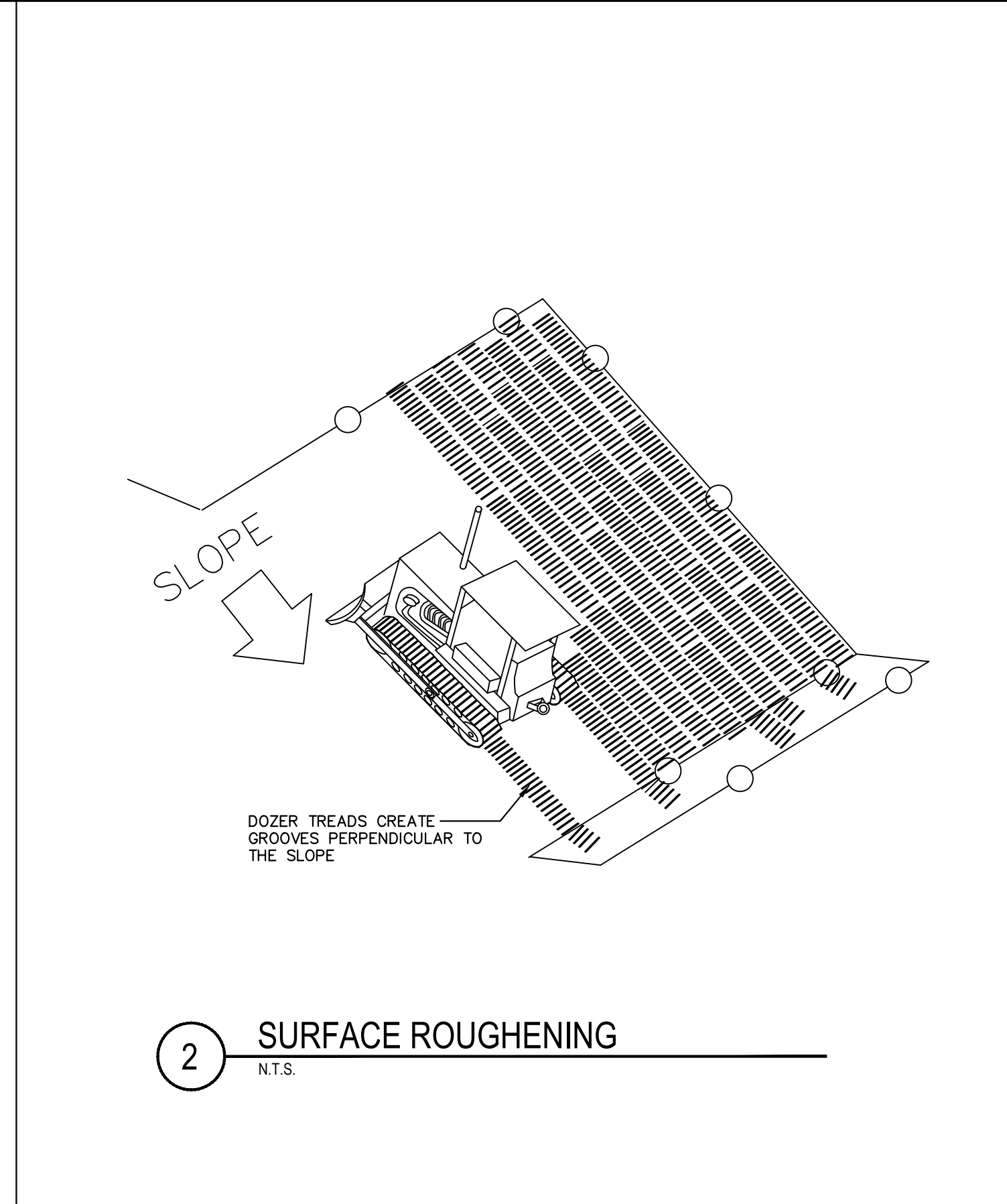
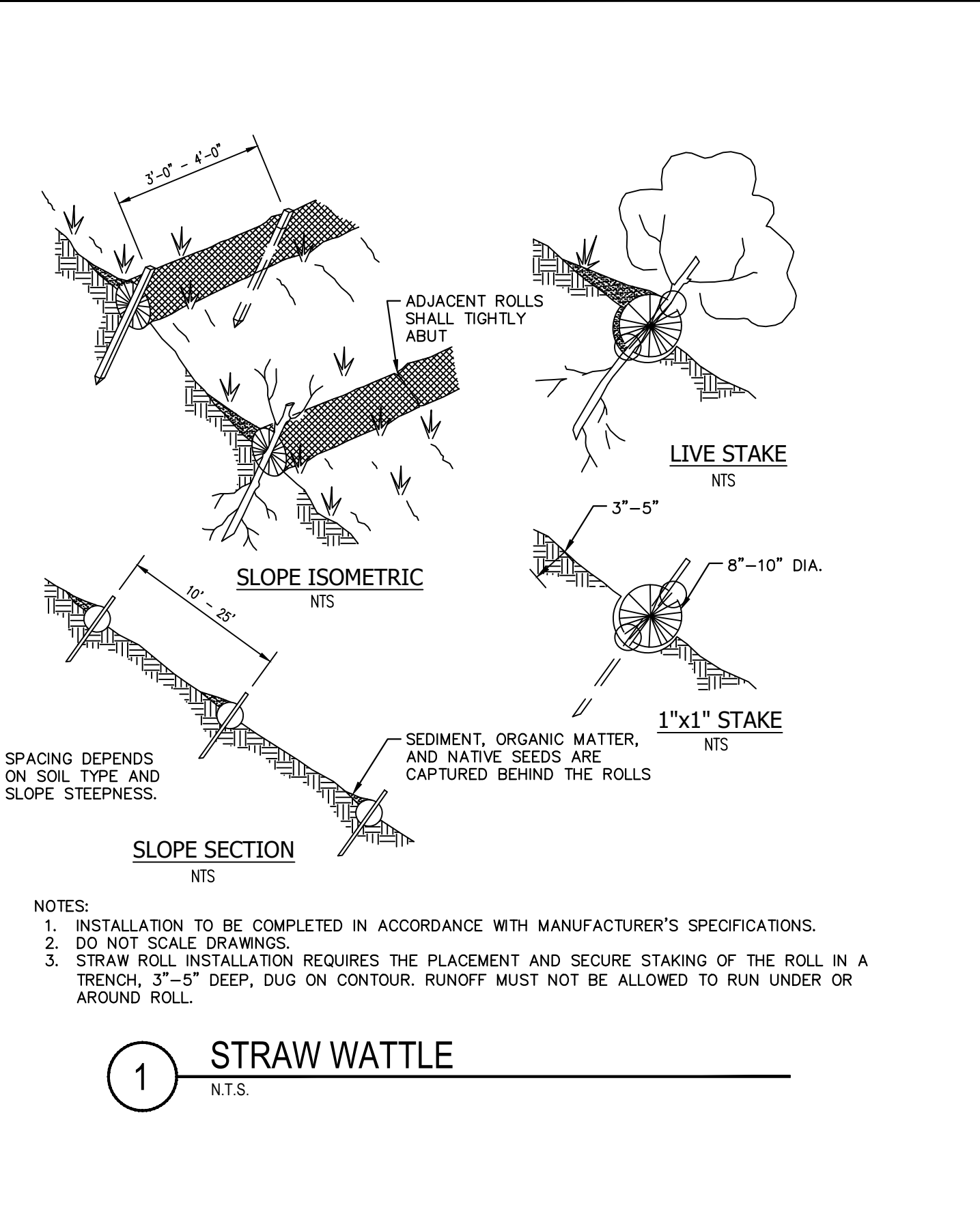
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CIVIL DETAIL SHEET (3 OF 3)

SHEET NUMBER
C-17

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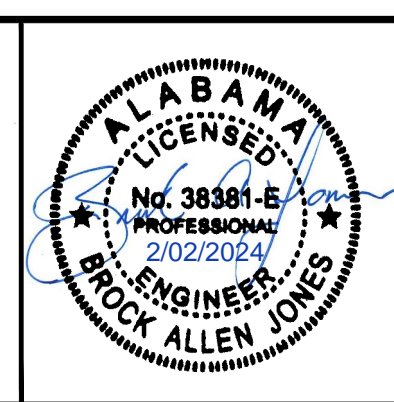
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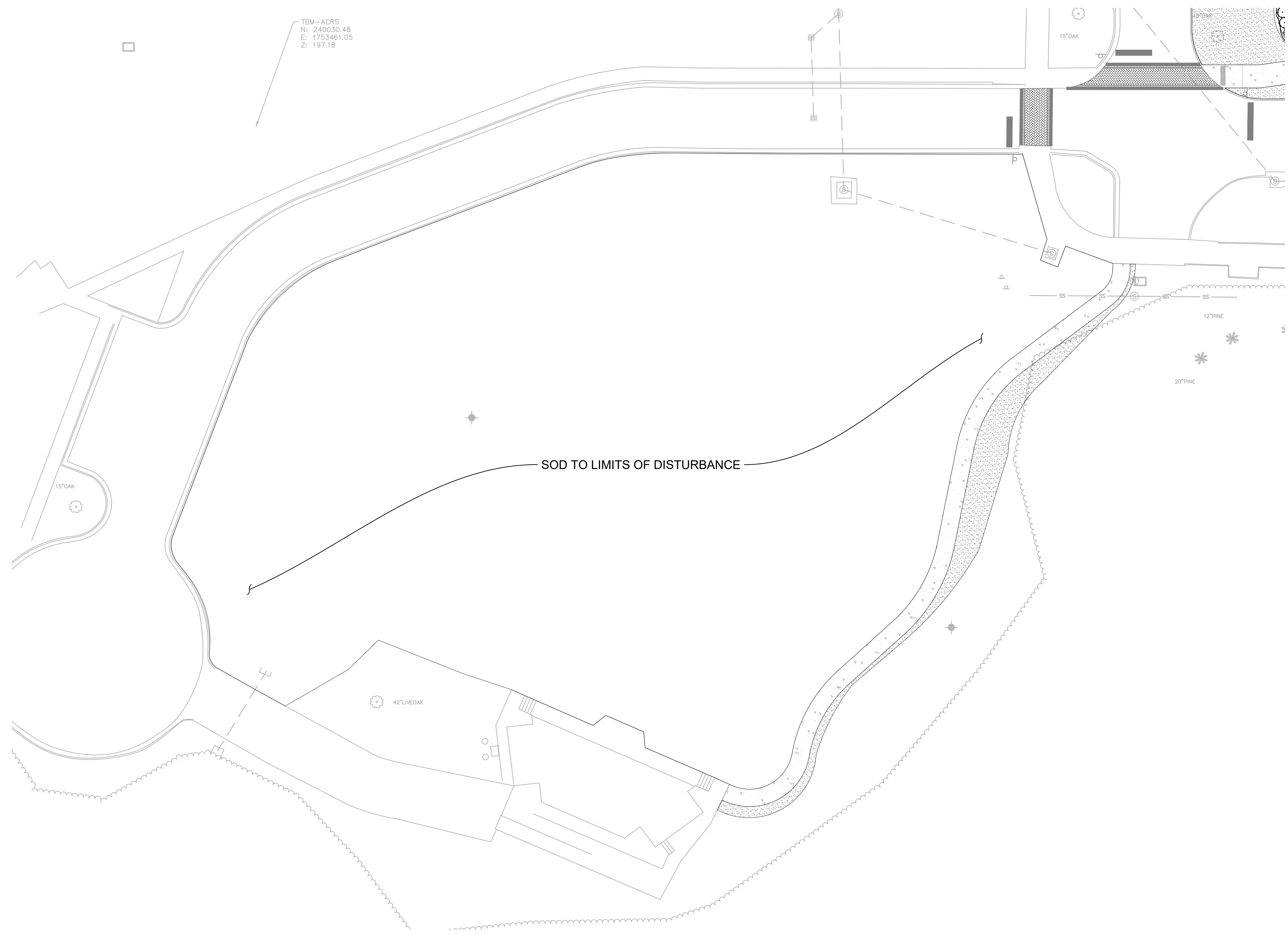
MEDAL OF HONOR PARK SITE AND LIGHTING IMPROVEMENTS
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ALABAMA



EROSION CONTROL DETAILS

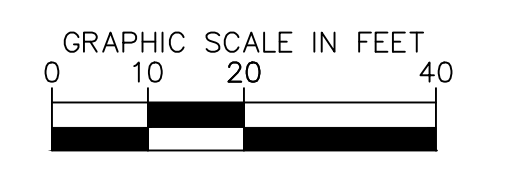
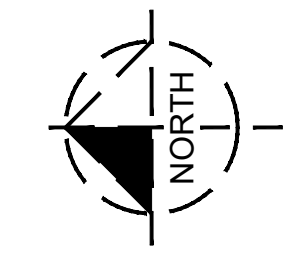
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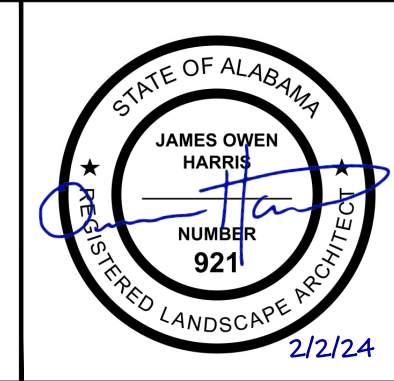
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SCALE AS SHOWN
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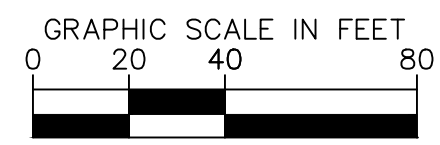
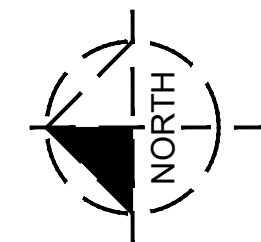
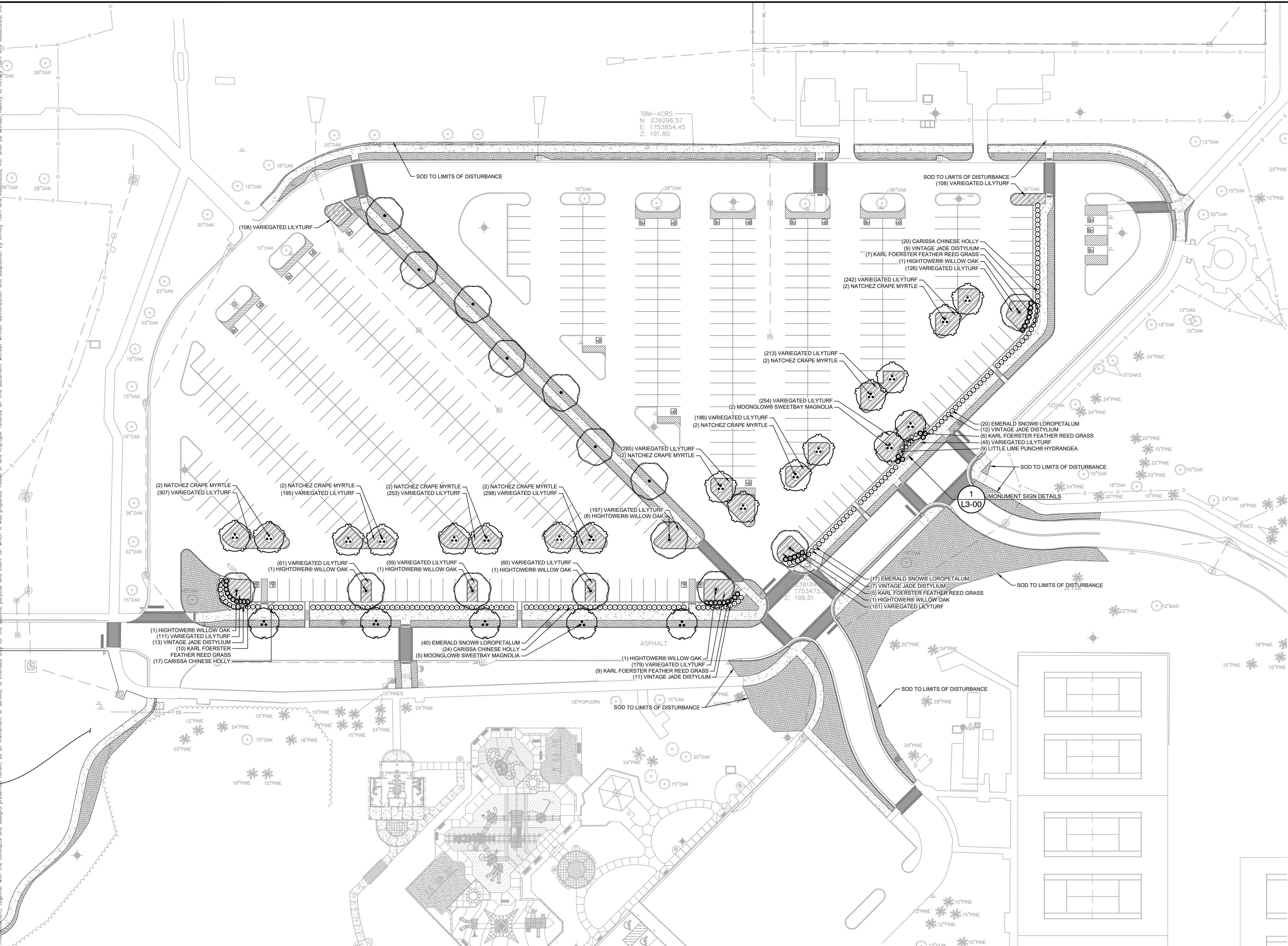
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ADDITIVE ALTERNATE #1 - LANDSCAPE PLAN AMPHITHEATER

SHEET NUMBER
L1-01

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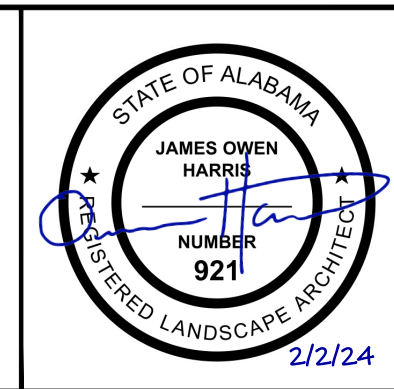
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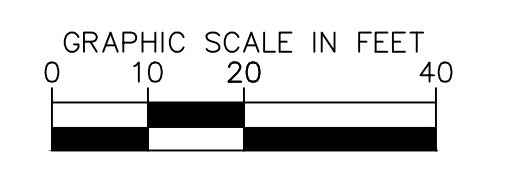
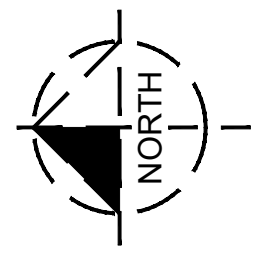
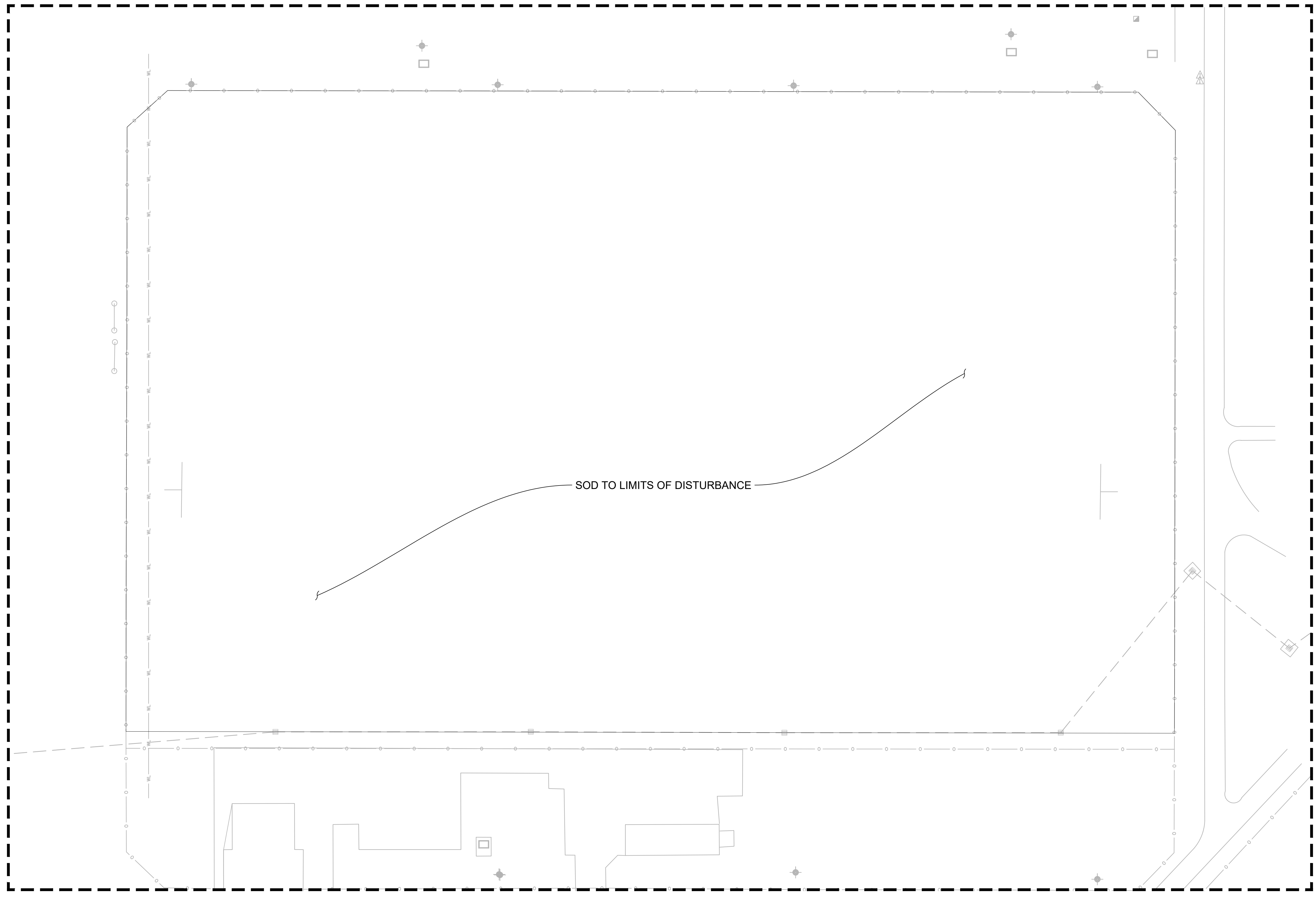
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**LANDSCAPE PLAN
 PARKING LOT**

SHEET NUMBER
L1-02

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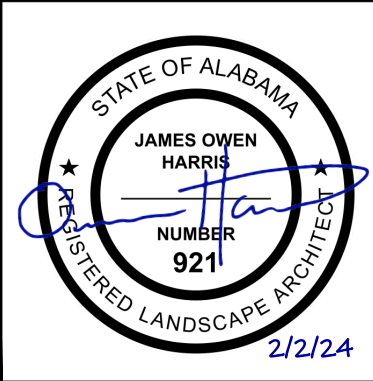
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SCALE	AS SHOWN
DESIGNED BY:	BAJ
DRAWN BY:	SDN
CHECKED BY:	JLG

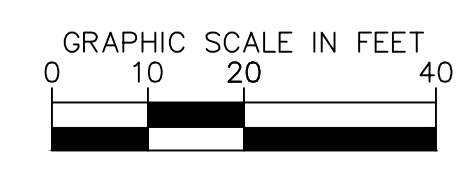
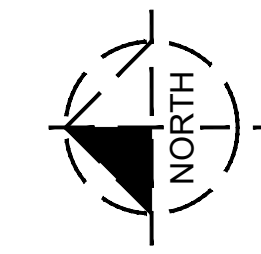
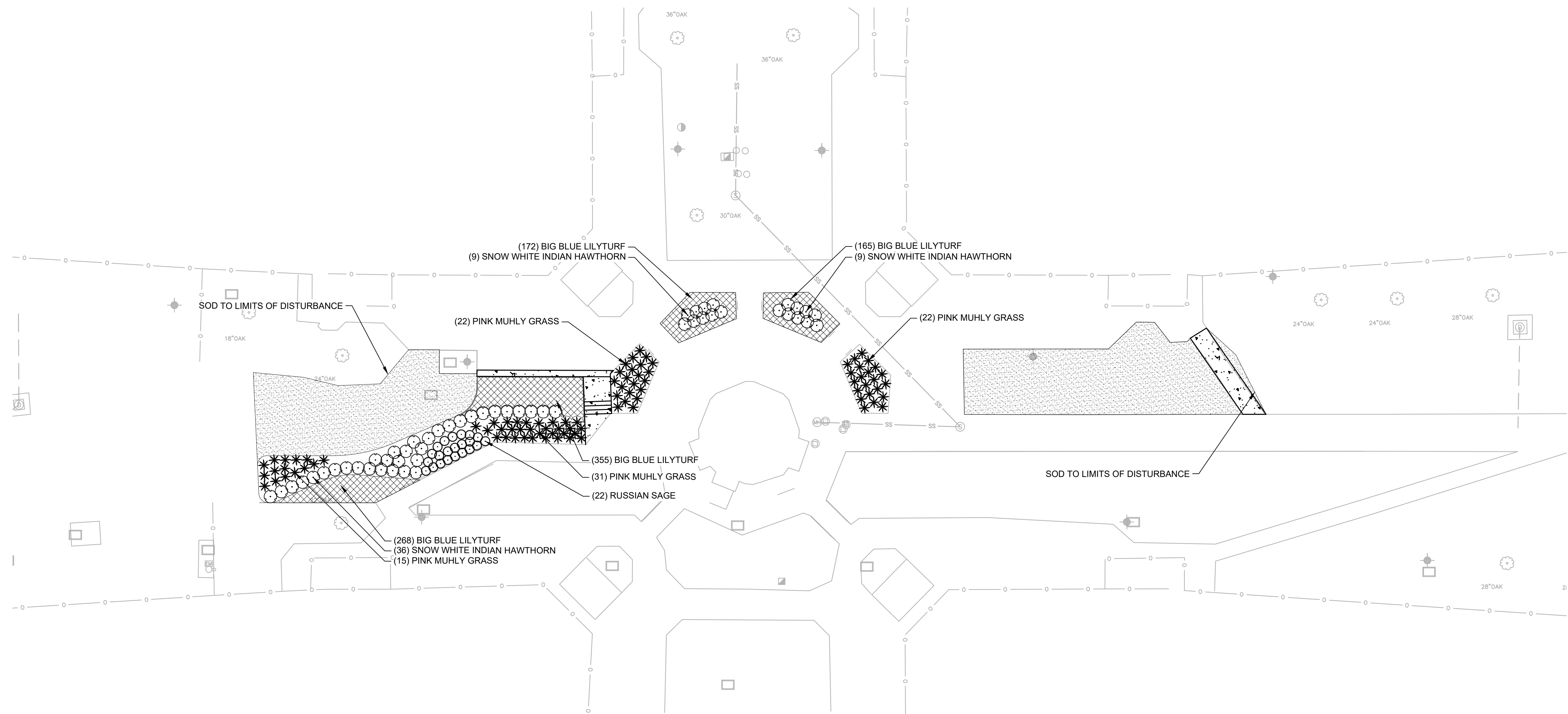
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LANDSCAPE PLAN
FOOTBALL FIELD

SHEET NUMBER
L1-03

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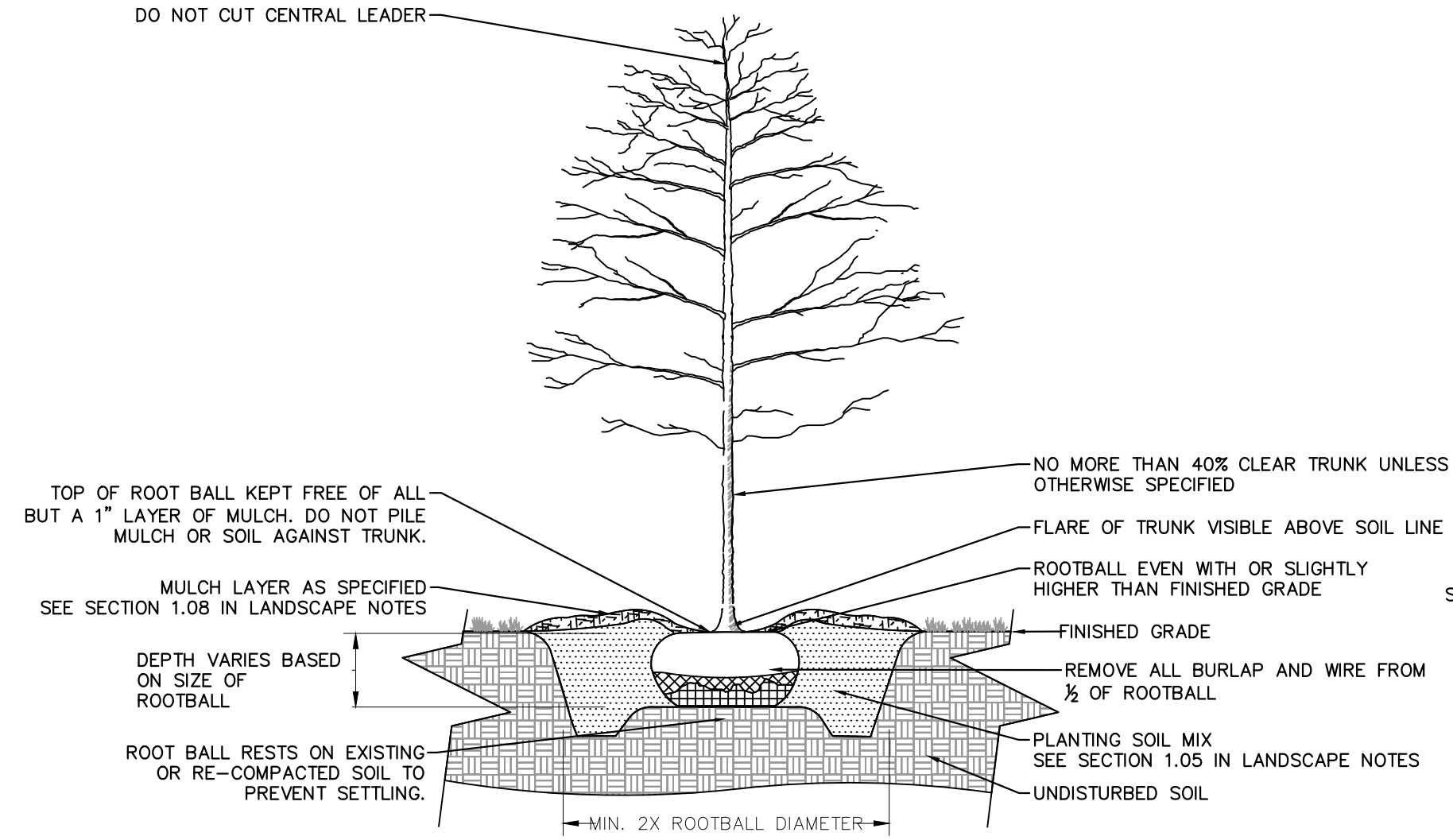
**MEDAL OF HONOR PARK SITE AND
 LIGHTING IMPROVEMENTS**
 PREPARED FOR
CITY OF MOBILE
 ALABAMA



**ADDITIVE ALTERNATE #2 -
 LANDSCAPE PLAN BASEBALL
 FIELD**

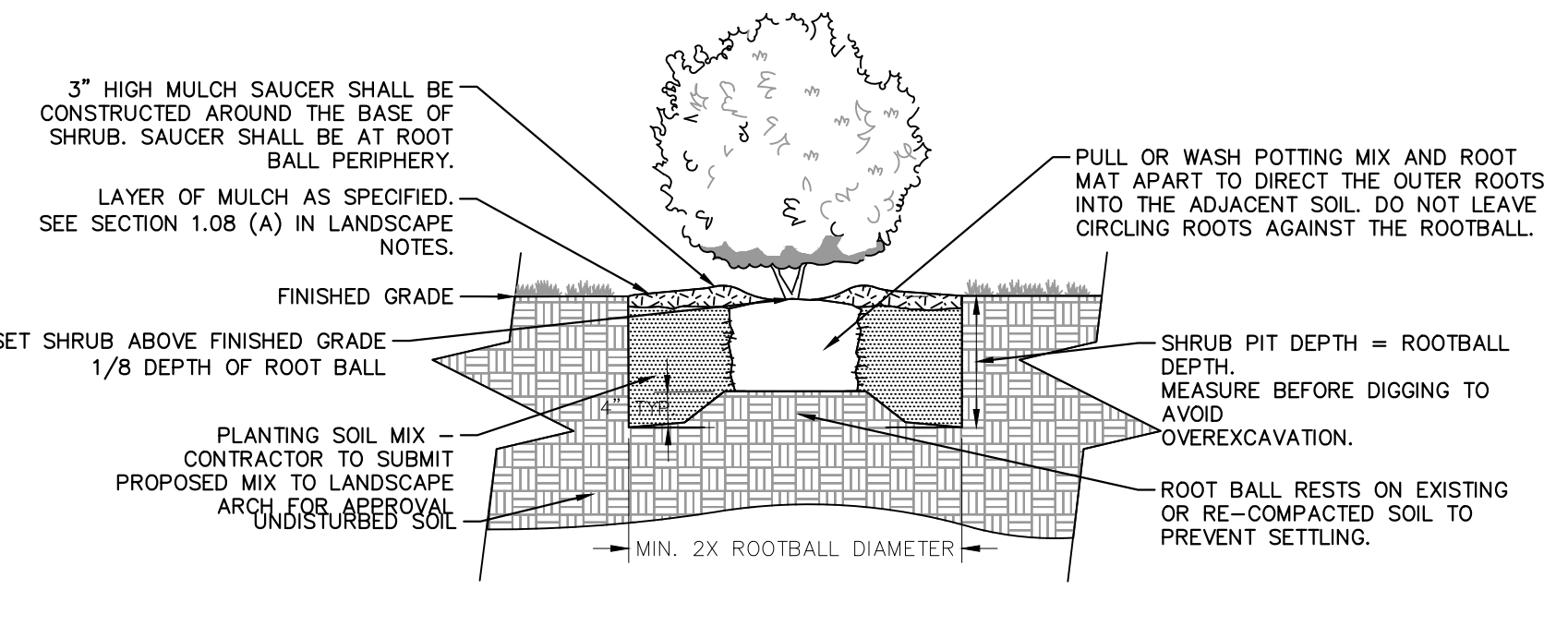
SHEET NUMBER
L1-04

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1 B&B TREE PLANTING

NOT TO SCALE

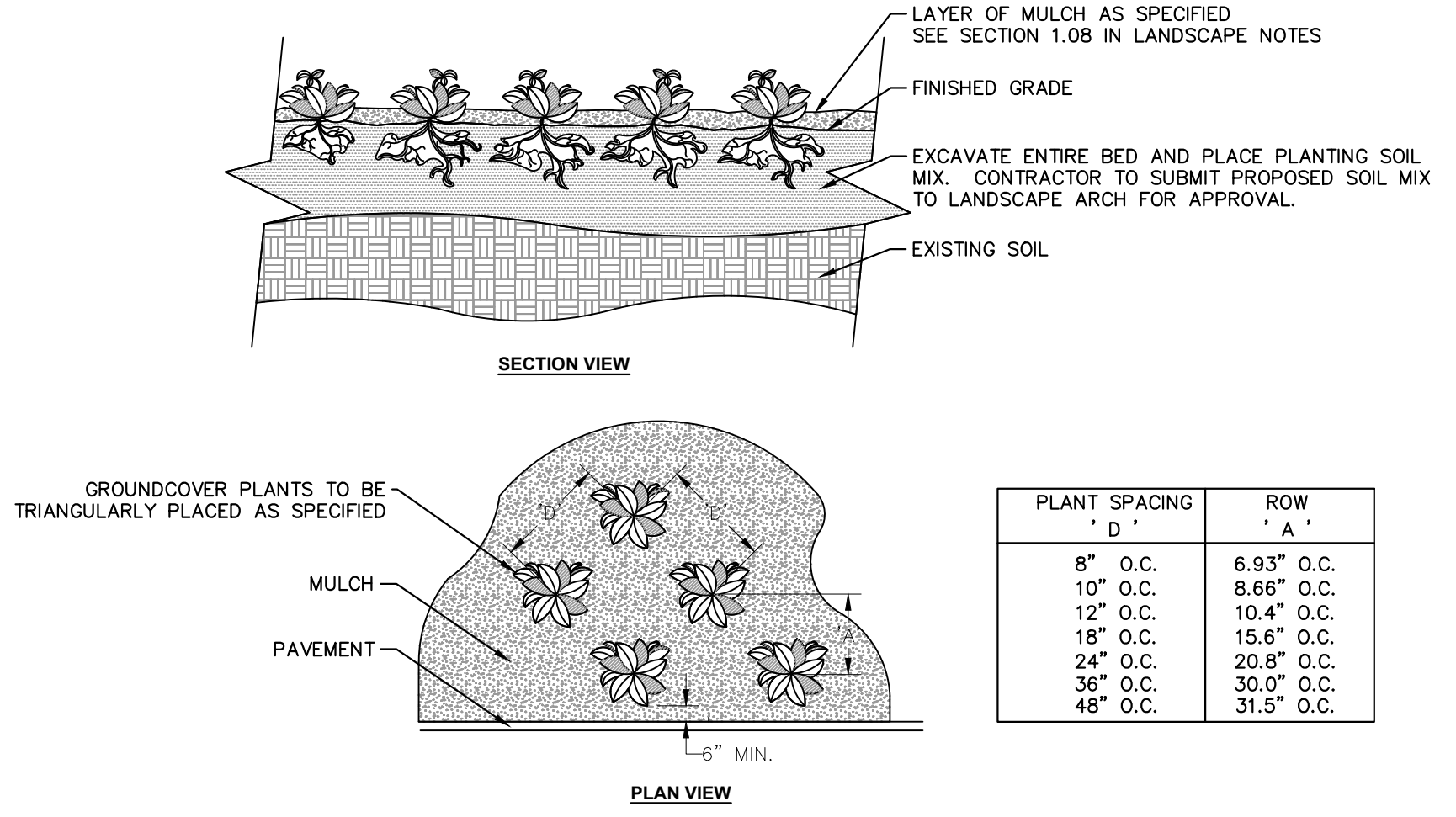


2 CONTAINER SHRUB PLANTING

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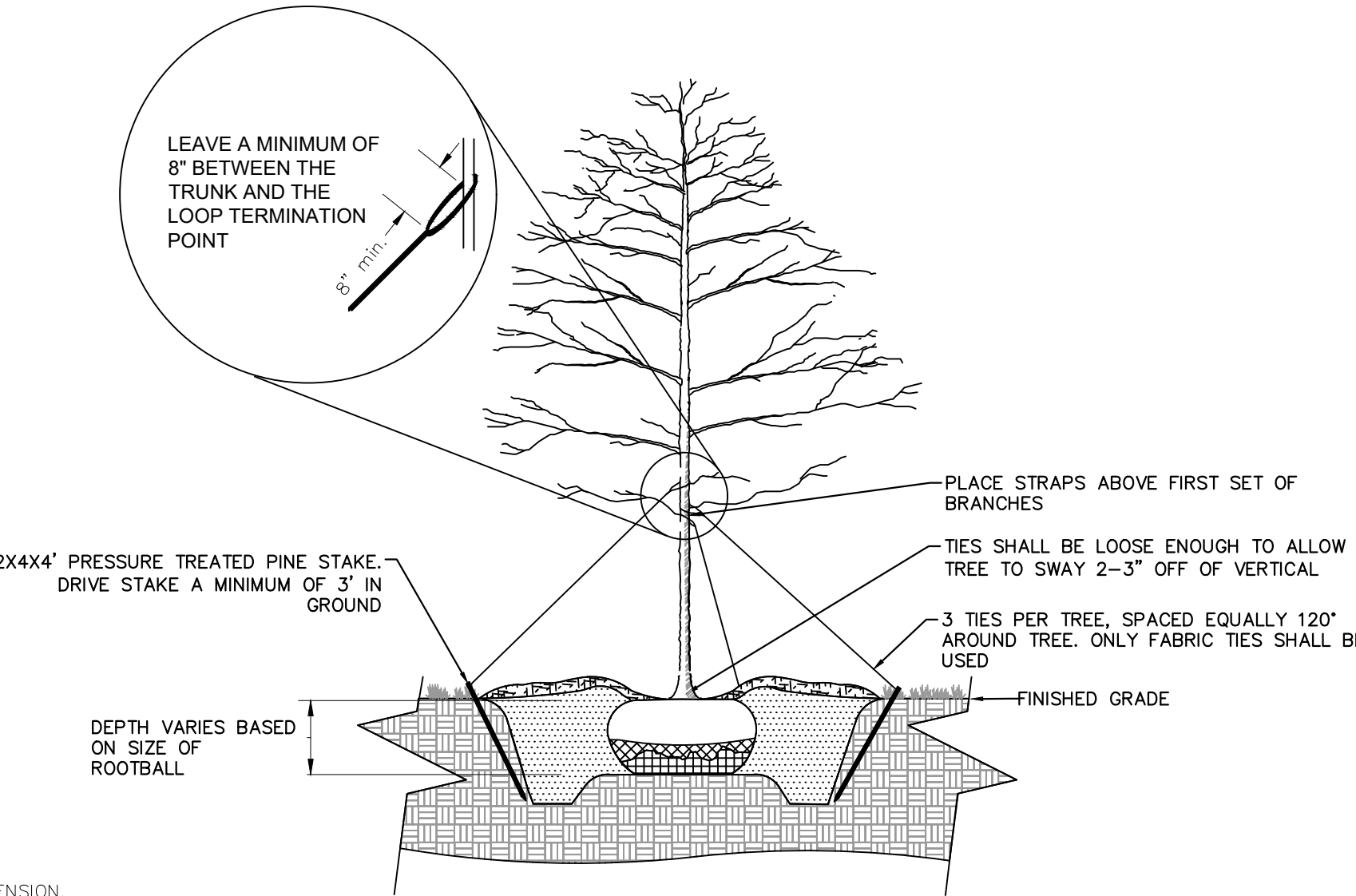
PLANT SCHEDULE

SYMBOL	QTY	BOTANICAL / COMMON NAME	SIZE	ROOT	CONDITION
TREES					
	16	Lagerstroemia x 'Natchez' / Natchez Crape Myrtle	10'-12' Height	B&B	Multi-trunk; Matching; Uniform Growth Habit
	7	Magnolia virginiana 'Jim Wilson' / MoonGlow® Sweetbay Magnolia	10'-12' Height	B&B	Multi-trunk; Matching; Uniform Growth Habit
	15	Quercus phellos 'QPSTA' / Hightower® Willow Oak	3" Caliper	B&B	Matching; Strong Central Leader
SHRUBS					
	37	Calamagrostis x acutiflora 'Karl Foerster' / Karl Foerster Feather Reed Grass	3 Gallon	Container	Matching; Free of Weeds
	52	Distylium x 'Vintage Jade' / Vintage Jade Distylium	3 Gallon	Container	Matching; Free of Weeds
	9	Hydrangea paniculata 'SMNHPH' / Little Lime Punch® Hydrangea	3 Gallon	Container	Matching; Free of Weeds
	61	Ilex cornuta 'Carissa' / Carissa Chinese Holly	3 Gallon	Container	Matching; Free of Weeds
	77	Loropetalum chinense 'Shang-white' / Emerald Snow® Loropetalum	3 Gallon	Container	Matching; Full to Ground
	90	Muhlenbergia capillaris / Pink Muhly Grass	3 Gallon	Container	Matching; Full and Heavy
	22	Perovskia abrotanoides / Russian Sage	3 Gallon	Container	Matching; Full and Heavy
	52	Rhampholepis indica 'Snow White' / Snow White Indian Hawthorn	3 Gallon	Container	Matching; Full to Ground
GROUND COVERS					
	182,216 sf	Cynodon dactylon 'Tif 419' / Tif 419 Bermudagrass	Sod	--	Sod; Free of Weeds; Peg in Place on Slopes 3:1 or Greater
	960	Liriope muscari 'Big Blue' / Big Blue Lilyturf	4" Pot	12" O.C.	Matching; Free of Weeds
	3,395	Liriope muscari 'Variegata' / Variegated Lilyturf	4" Pot	18" O.C.	Matching; Free of Weeds



3 GROUNDCOVER PLANTING

NOT TO SCALE



4 TREE STAKING

NOT TO SCALE

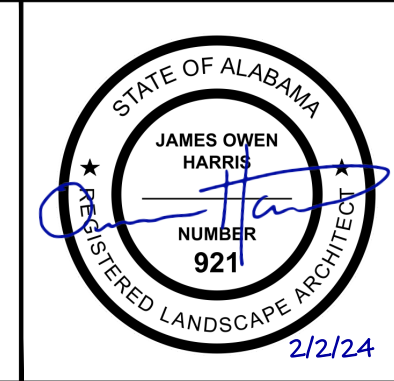
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 PHONE: (251) 263-8323
 WWW.KIMLEY-HORN.COM CA 00000511

KHA PROJECT 142920003
DATE 2/2/2024
SCALE AS SHOWN
DESIGNED BY: BAJ
DRAWN BY: SDN
CHECKED BY: JLG

MEDAL OF HONOR PARK SITE AND LIGHTING IMPROVEMENTS
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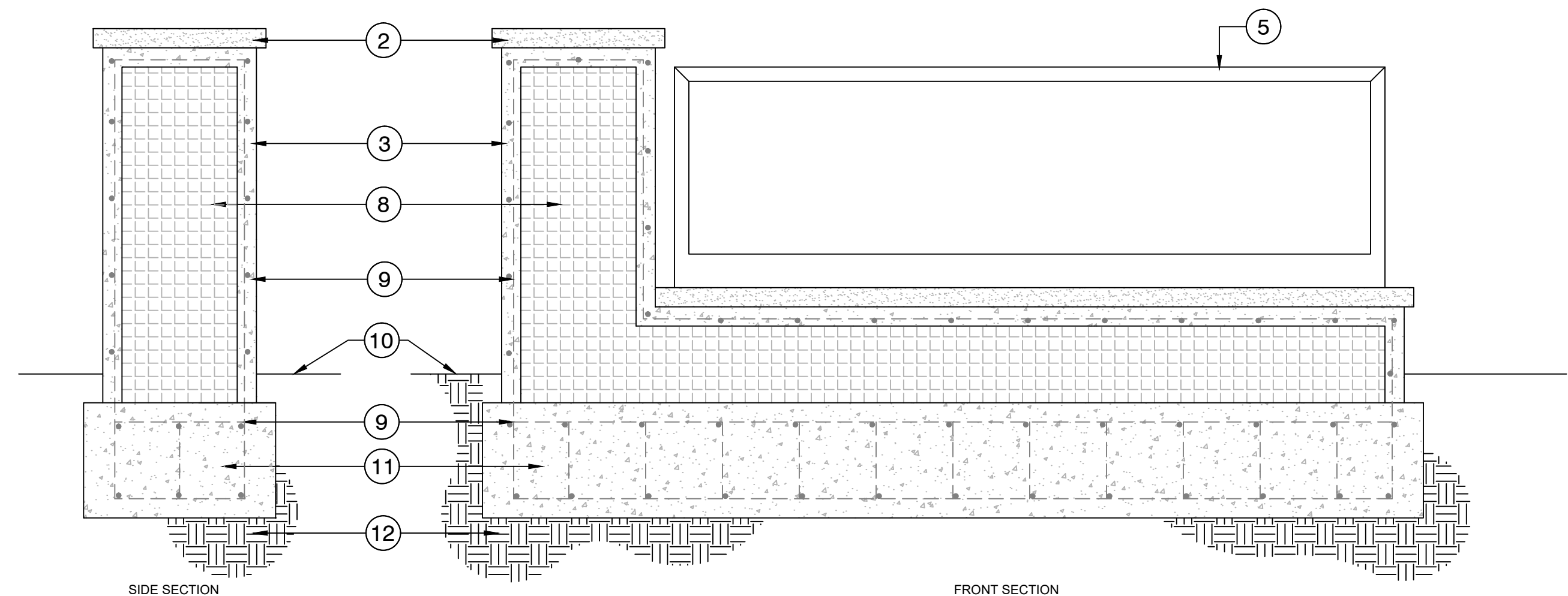
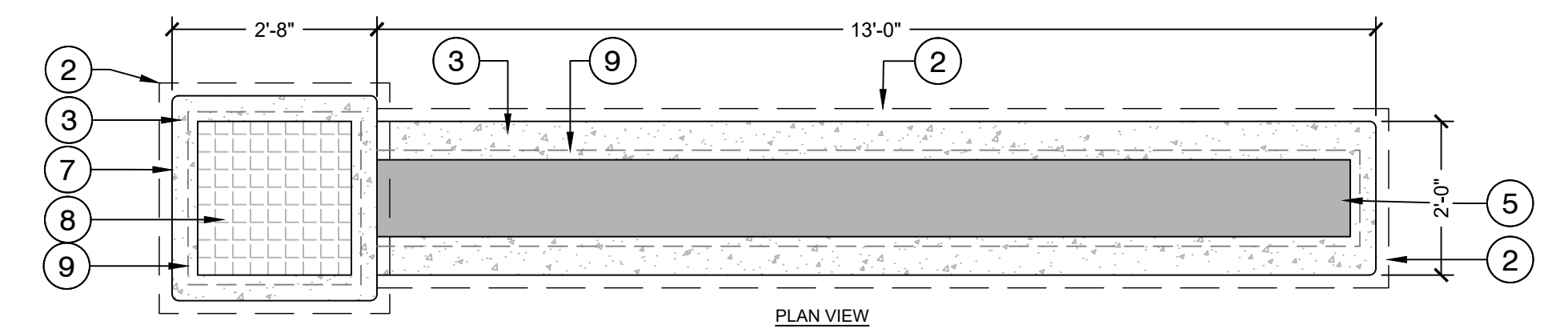
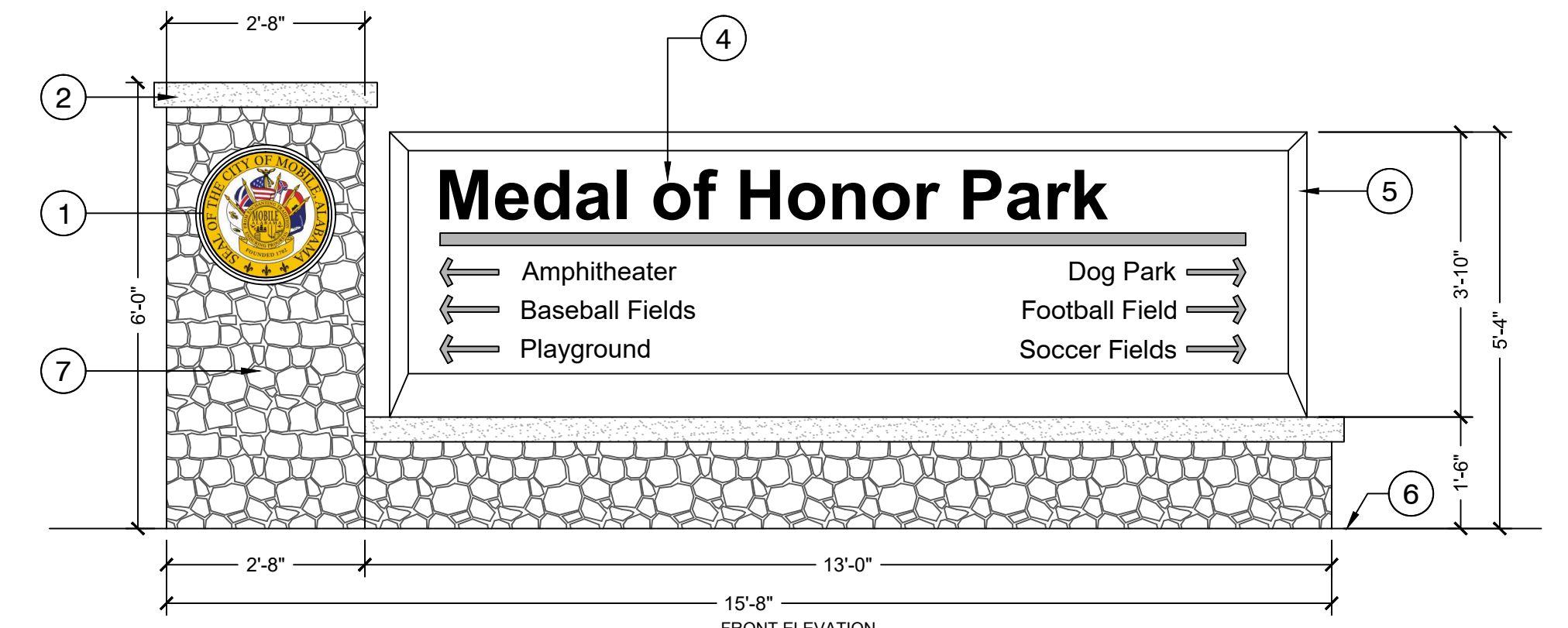
LANDSCAPE DETAILS

SHEET NUMBER
L2-01

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- ① CITY OF MOBILE LOGO
- ② 4" CAP - SAND FINISH
- ③ BOARD FORMED, POURED IN PLACE CONCRETE MONUMENT, RADIUS EDGE, NATURAL COLOR
- ④ ALUMINUM SIGN GRAPHICS TO BE DIGITALLY PRINTED ON TRANSLUCENT MEDIA FOR ILLUMINATION - SINGLE FACED, FINAL GRAPHICS TO BE APPROVED BY OWNER.
- ⑤ ALUMINUM FRAMED CABINET
- ⑥ FINISHED GRADE
- ⑦ SYNTHETIC STUCCO - ROCK FINISH
- ⑧ EPS-15 GEOFOAM PRECUT BLOCKS FILL INTERIOR OF SIGN BASE AND COLUMN
- ⑨ #4 REBAR @ 16" O.C. BOTH WAYS
- ⑩ FINISHED GRADE
- ⑪ CONCRETE FOOTING
- ⑫ 90% COMPACTED SUBGRADE

NOTES
 1. CONTACT FOR SIGN FABRICATION:
 WRICO SIGNS INC.
 ATTN: JENNIFER JACKSON
 251-478-8020
 JENNIFER@WRICOSIGNS.COM



1 MONUMENT SIGN - BY OTHERS
 1/2" = 1'-0"

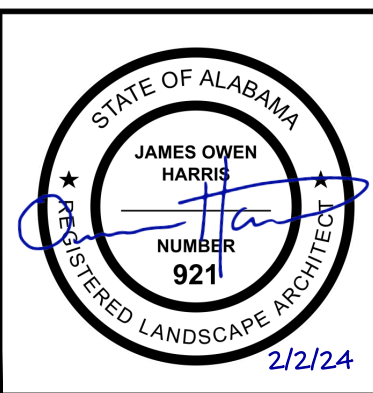
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KHA PROJECT	142920003
DATE	2/2/2024
SCALE	AS SHOWN
DESIGNED BY:	BAJ
DRAWN BY:	SDN
CHECKED BY:	JLG

MEDAL OF HONOR PARK SITE AND LIGHTING IMPROVEMENTS
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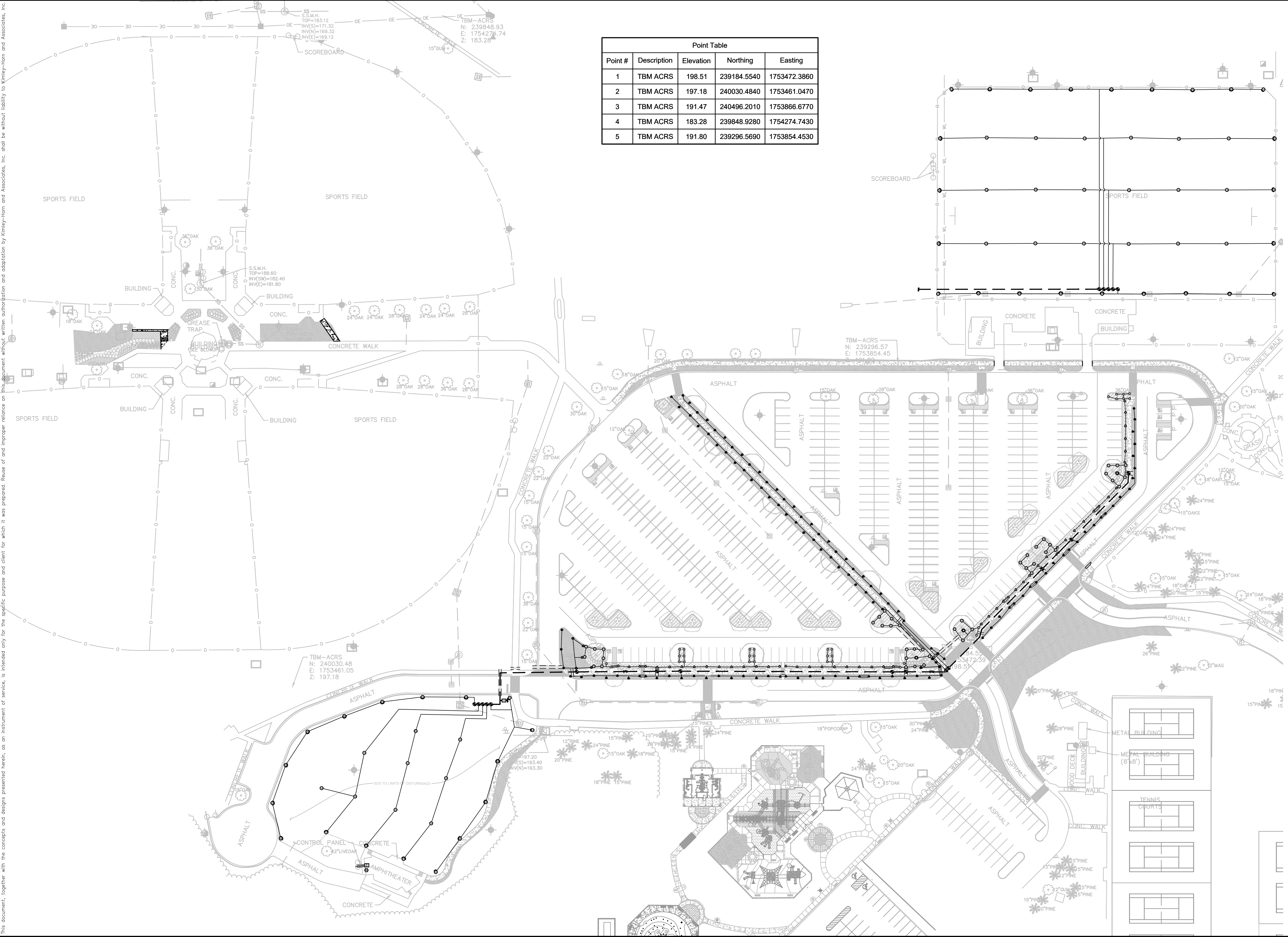


HARDSCAPE DETAILS

SHEET NUMBER
L3-00

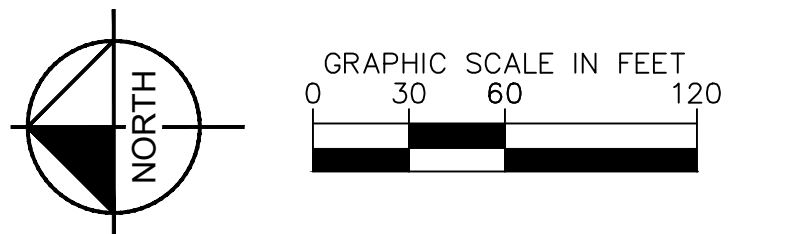
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Point Table				
Point #	Description	Elevation	Northing	Easting
1	TBM ACRS	198.51	239184.5540	1753472.3860
2	TBM ACRS	197.18	240030.4840	1753461.0470
3	TBM ACRS	191.47	240496.2010	1753866.6770
4	TBM ACRS	183.28	239848.9280	1754274.7430
5	TBM ACRS	191.80	239296.5690	1753854.4530



CONSTRUCTION NOTES

PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL VERIFY ALL STORMWATER PIPES AND UTILITY LINE LOCATIONS BEFORE BEGINNING WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UNDERGROUND STORMWATER PIPES AND UTILITY LINES AND SHALL AVOID DAMAGE TO ALL UTILITIES DURING THE COURSE OF THE WORK. THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY AND ALL DAMAGE TO UTILITIES, STRUCTURES, SITE APPURTENANCES, ETC WHICH OCCURS AS A RESULT OF THE IRRIGATION CONSTRUCTION TO OWNER'S SATISFACTION, AT NO ADDITIONAL COST.



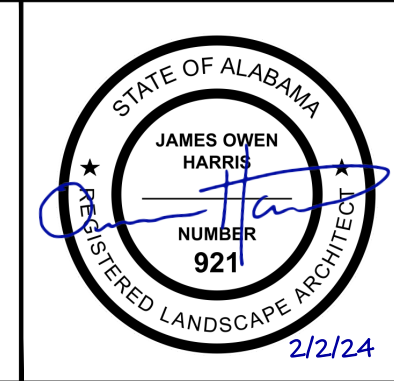
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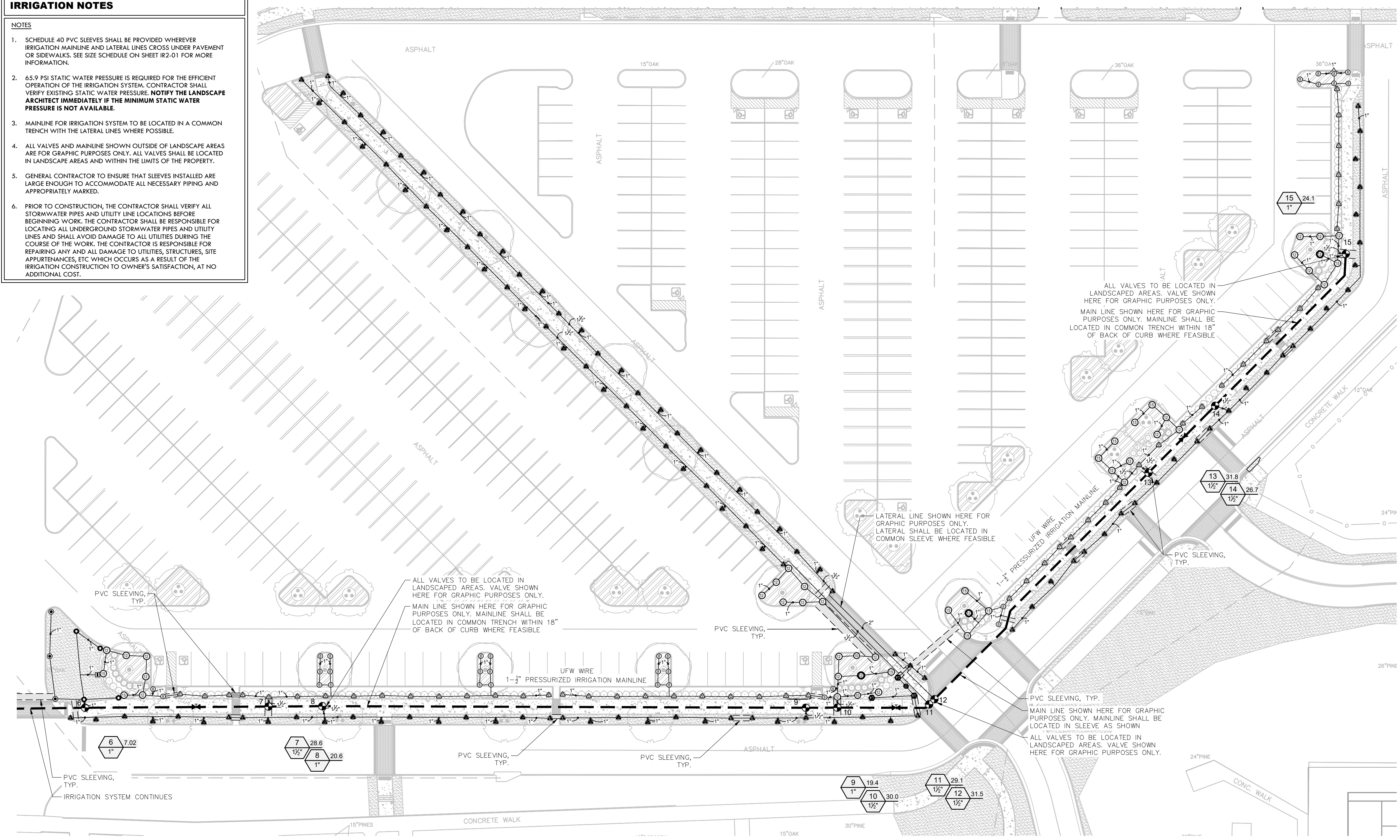
IRRIGATION PLAN OVERALL

SHEET NUMBER
IR1-00

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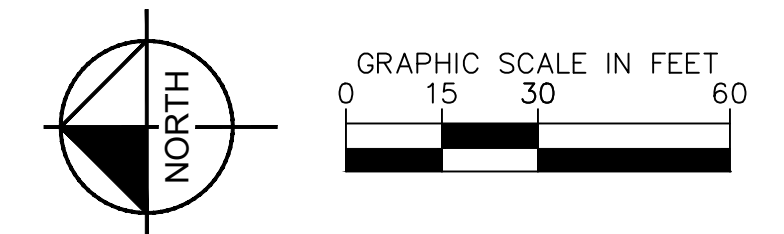
IRRIGATION NOTES

- NOTES**
- SCHEDULE 40 PVC SLEEVES SHALL BE PROVIDED WHEREVER IRRIGATION MAINLINE AND LATERAL LINES CROSS UNDER PAVEMENT OR SIDEWALKS. SEE SIZE SCHEDULE ON SHEET IR2-01 FOR MORE INFORMATION.
 - 65.9 PSI STATIC WATER PRESSURE IS REQUIRED FOR THE EFFICIENT OPERATION OF THE IRRIGATION SYSTEM. CONTRACTOR SHALL VERIFY EXISTING STATIC WATER PRESSURE. NOTIFY THE LANDSCAPE ARCHITECT IMMEDIATELY IF THE MINIMUM STATIC WATER PRESSURE IS NOT AVAILABLE.
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IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
EST LCS RCS CST SST	Rain Bird RD-06-S-P30-F-U 15 Strip Series Turf Spray, 6.0' Pop-Up, with 30 psi in-stem pressure regulation, Seal-A-Matic check valve, and Flow-Shield Technology. 1/2" NPT female threaded inlet.
08HE-VAN 10HE-VAN 12HE-VAN 15HE-VAN	Rain Bird RD-06-S-P30-F-U HE-VAN Series Turf Spray, 6.0' Pop-Up, with 30 psi in-stem pressure regulation, Seal-A-Matic check valve, and Flow-Shield Technology. 1/2" NPT female threaded inlet.
EST LCS RCS CST SST	Rain Bird RD-12-S-P30-F-U 15 Strip Series 12.0' Pop-Up, with 30 psi in-stem pressure regulation, Seal-A-Matic check valve, and Flow-Shield Technology. 1/2" NPT female threaded inlet.
12 Q T H TT TQ F	Rain Bird RD-12-S-P30-F-U I12 Series 12.0' Pop-Up, with 30 psi in-stem pressure regulation, Seal-A-Matic check valve, and Flow-Shield Technology. 1/2" NPT female threaded inlet.
08HE-VAN 10HE-VAN 12HE-VAN 15HE-VAN	Rain Bird RD-12-S-P30-F-U ADJ 12.0' Pop-Up, with 30 psi in-stem pressure regulation, Seal-A-Matic check valve, and Flow-Shield Technology. 1/2" NPT female threaded inlet.
R-VAN14 R-VAN18 R-VAN24	Rain Bird R-VAN14 RD-04-SAM-P45 Turf Rotary, 8'-14' 45-270 degrees and 360 degrees. Hand Adjustable Multi-Stream Rotary w/RD1800 turf spray body on 4.0' pop-up, with check valve and 45 psi in-stem pressure regulator. 1/2" NPT Female Threaded Inlet.
R-VAN18 R-VAN24	Rain Bird R-VAN18 RD-04-SAM-P45 Turf Rotary, 13'-18' 45-270 degrees and 360 degrees. Hand Adjustable Multi-Stream Rotary w/RD1800 turf spray body on 4.0' pop-up, with check valve and 45 psi in-stem pressure regulator. 1/2" NPT Female Threaded Inlet.
R-VAN24	Rain Bird R-VAN24 RD-04-SAM-P45 Turf Rotary, 17'-24' 45-270 degrees and 360 degrees. Hand Adjustable Multi-Stream Rotary w/RD1800 turf spray body on 4.0' pop-up, with check valve and 45 psi in-stem pressure regulator. 1/2" NPT Female Threaded Inlet.
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
04	Rain Bird 6504-PC, FC 04 Turf Rotor, 4.0in. Pop-Up, Plastic Riser, Adjustable and Full Circle. With Removable Seal-A-Matic Check Valve, 1in. Female Threaded Inlet. 40 PSI
06	Rain Bird 6504-PC, FC 06 Turf Rotor, 4.0in. Pop-Up, Plastic Riser, Adjustable and Full Circle. With Removable Seal-A-Matic Check Valve, 1in. Female Threaded Inlet. 40 PSI
08	Rain Bird 6504-PC, FC 08 Turf Rotor, 4.0in. Pop-Up, Plastic Riser, Adjustable and Full Circle. With Removable Seal-A-Matic Check Valve, 1in. Female Threaded Inlet. 40 PSI
12	Rain Bird 6504-PC, FC 12 Turf Rotor, 4.0in. Pop-Up, Plastic Riser, Adjustable and Full Circle. With Removable Seal-A-Matic Check Valve, 1in. Female Threaded Inlet. 40 PSI
16	Rain Bird 6504-PC, FC 16 Turf Rotor, 4.0in. Pop-Up, Plastic Riser, Adjustable and Full Circle. With Removable Seal-A-Matic Check Valve, 1in. Female Threaded Inlet. 40 PSI
18	Rain Bird 6504-PC, FC 18 Turf Rotor, 4.0in. Pop-Up, Plastic Riser, Adjustable and Full Circle. With Removable Seal-A-Matic Check Valve, 1in. Female Threaded Inlet. 40 PSI
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
PEB-PRS-D	Rain Bird PEB-PRS-D 1in., 1-1/2in., 2in. Plastic Industrial Valves. Low Flow Operating Capability, Globe Configuration. With Pressure Regulator Module.
Shut Off Valve	Shut Off Valve
C	Rain Bird ESPLXME2 w/ (1) ESPLXMSM12 24 Station, Traditionally-Wired, Commercial Controller. (1) ESPLXME2 12-Station, Indoor/Outdoor, Plastic Wall-Mount Enclosure w/ (1) ESPLXMSM12 - 12-Station Expansion Modules.
RSD-BEX	Rain Bird RSD-BEX Rain Sensor, with metal latching bracket, extension wire.
CC	Irrigation Connection Components
---	Irrigation Lateral Line: PVC Class 200 SDR 21
---	Irrigation Mainline: PVC Schedule 40
---	Pipe Sleeve: PVC Schedule 40
Valve Callout	Valve Number Valve Flow Valve Size



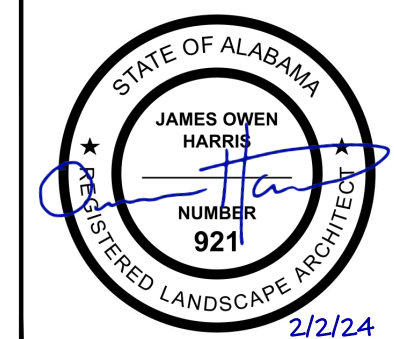
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SCALE AS SHOWN
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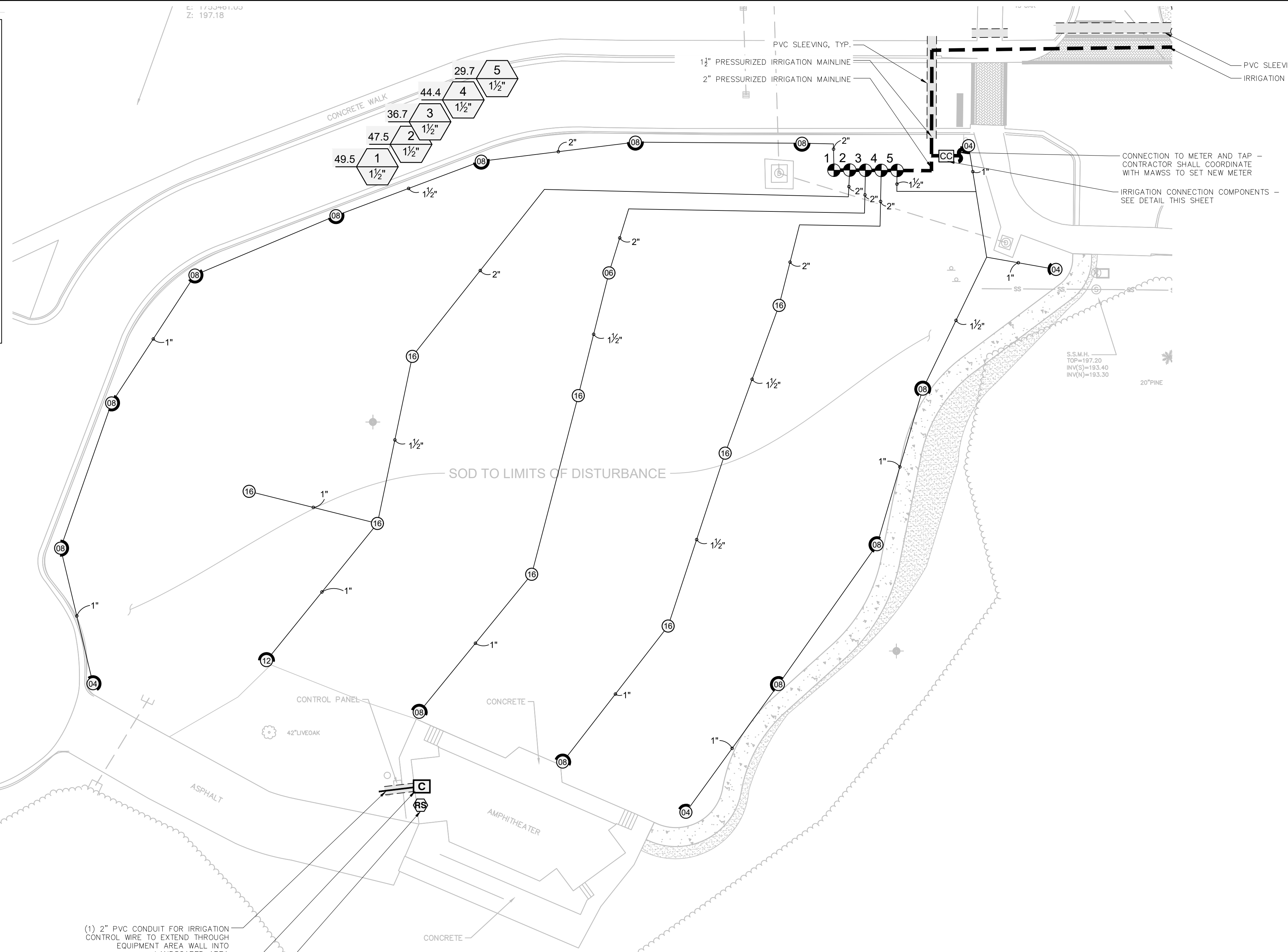


IRRIGATION PLAN
PARKING LOT

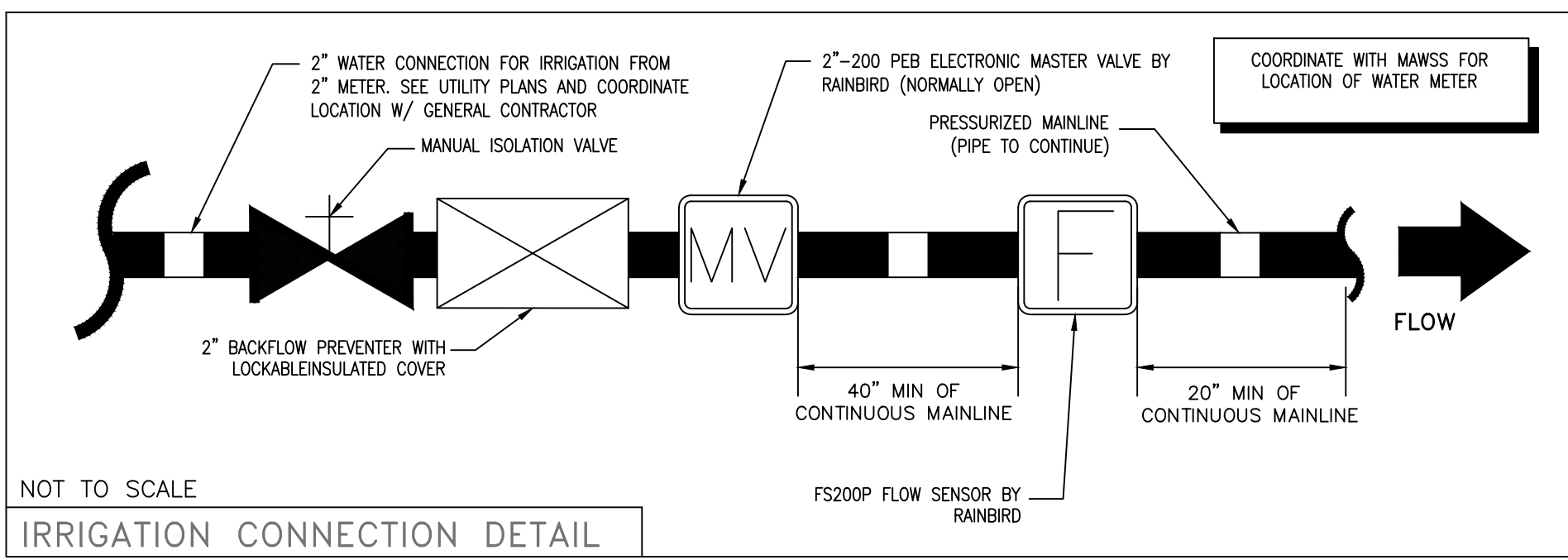
SHEET NUMBER
IR1-01

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- ### IRRIGATION NOTES
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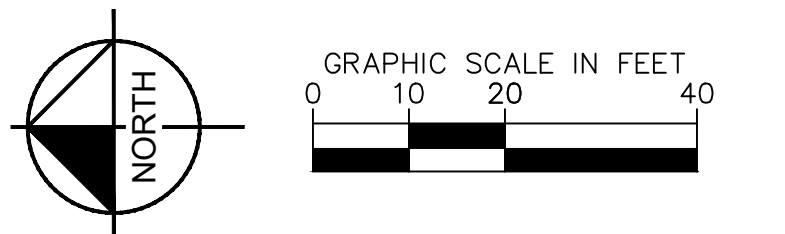


(1) 2" PVC CONDUIT FOR IRRIGATION CONTROL WIRE TO EXTEND THROUGH EQUIPMENT AREA WALL INTO LANDSCAPED AREA
 RAINBIRD ESP-LXME2 24 STATION CONTROLLER - COORDINATE WITH OWNER/ARCH FOR FINAL LOCATION. 120 VOLT POWER SOURCE REQUIRED.
 RAINBIRD RSD RAIN SENSOR MOUNTED ON EAVE OF BUILDING



IRRIGATION SCHEDULE

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EST LCS RCS CST SST	Rain Bird RD-12-S-P30-F-U 15 Strip Series 12.0" Pop-Up, with 30 psi in-stem pressure regulation, Seal-A-Matic check valve, and Flow-Shield Technology. 1/2" NPT female threaded inlet.
08HE-VAN 10HE-VAN 12HE-VAN 15HE-VAN	Rain Bird RD-12-S-P30-F-U U12 Series 12.0" Pop-Up, with 30 psi in-stem pressure regulation, Seal-A-Matic check valve, and Flow-Shield Technology. 1/2" NPT female threaded inlet.
08HE-VAN 10HE-VAN 12HE-VAN 15HE-VAN	Rain Bird RD-12-S-P30-F-U ADJ 12.0" Pop-Up, with 30 psi in-stem pressure regulation, Seal-A-Matic check valve, and Flow-Shield Technology. 1/2" NPT female threaded inlet.
R-VAN14 R-VAN14-360	Rain Bird R-VAN14 RD-04-SAM-P45 Turf Rotary, 8'-14' 45-270 degrees and 360 degrees. Hand Adjustable Multi-Stream Rotary w/RD1800 turf spray body on 4.0" pop-up, with check valve and 45 psi in-stem pressure regulator. 1/2" NPT Female Threaded Inlet.
R-VAN18 R-VAN18-360	Rain Bird R-VAN18 RD-04-SAM-P45 Turf Rotary, 13'-18' 45-270 degrees and 360 degrees. Hand Adjustable Multi-Stream Rotary w/RD1800 turf spray body on 4.0" pop-up, with check valve and 45 psi in-stem pressure regulator. 1/2" NPT Female Threaded Inlet.
R-VAN24 R-VAN24-360	Rain Bird R-VAN24 RD-04-SAM-P45 Turf Rotary, 17'-24' 45-270 degrees and 360 degrees. Hand Adjustable Multi-Stream Rotary w/RD1800 turf spray body on 4.0" pop-up, with check valve and 45 psi in-stem pressure regulator. 1/2" NPT Female Threaded Inlet.
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Valve Callout	Rain Bird PEB-PRS-D 1in., 1-1/2in., 2in. Plastic Industrial Valves. Low Flow Operating Capability, Globe Configuration. With Pressure Regulator Module.
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RS	Rain Bird RSD-BEX Rain Sensor, with metal latching bracket, extension wire.
CC	Irrigation Connection Components
---	Irrigation Lateral Line: PVC Class 200 SDR 21
---	Irrigation Mainline: PVC Schedule 40
---	Pipe Sleeve: PVC Schedule 40
#	Valve Number
#	Valve Flow
#"	Valve Size



No.	REVISIONS	DATE	BY

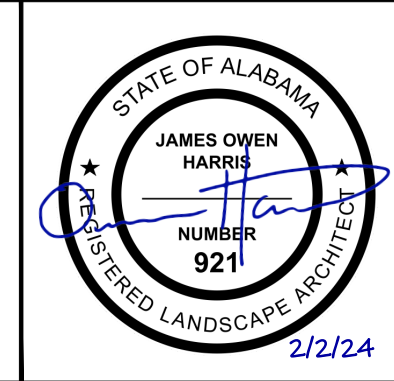
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 CHECKED BY: JLG

MEDAL OF HONOR PARK SITE AND LIGHTING IMPROVEMENTS

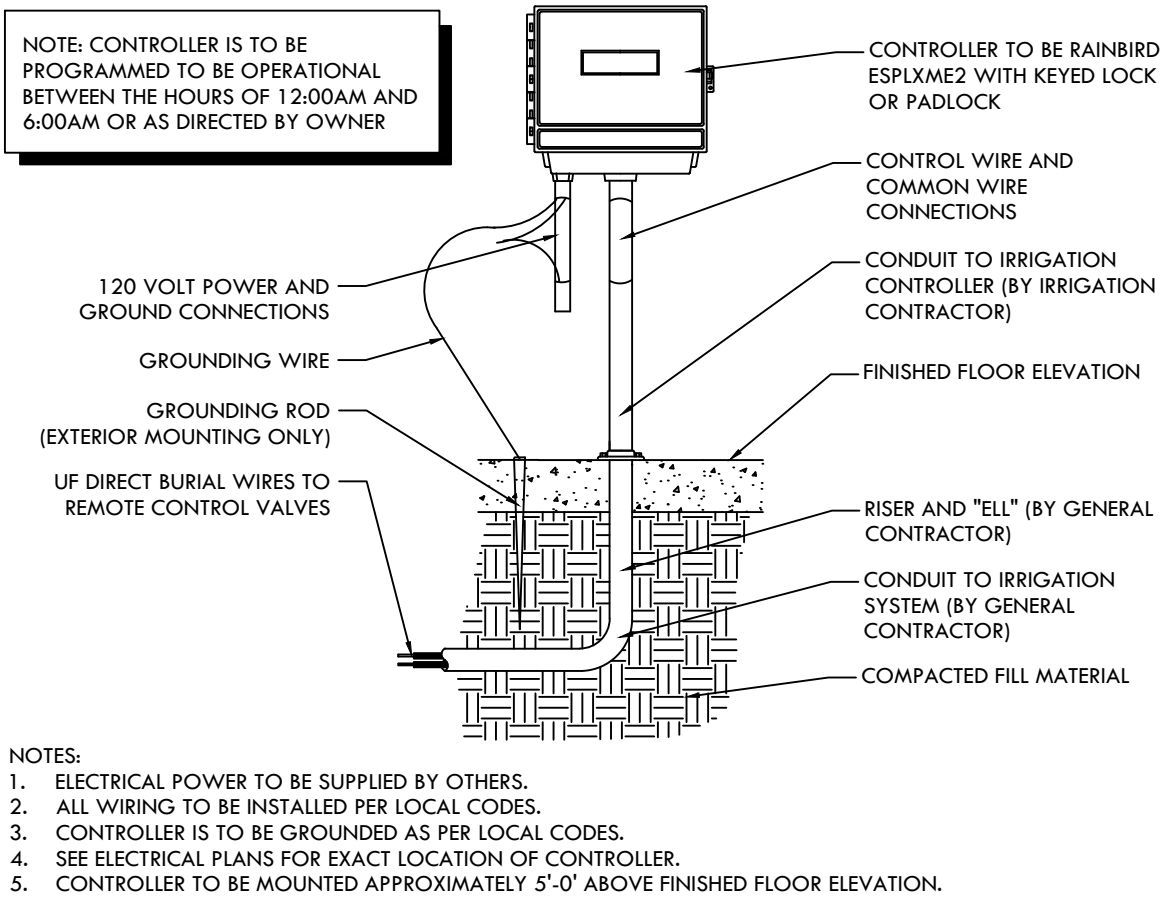
PREPARED FOR
CITY OF MOBILE
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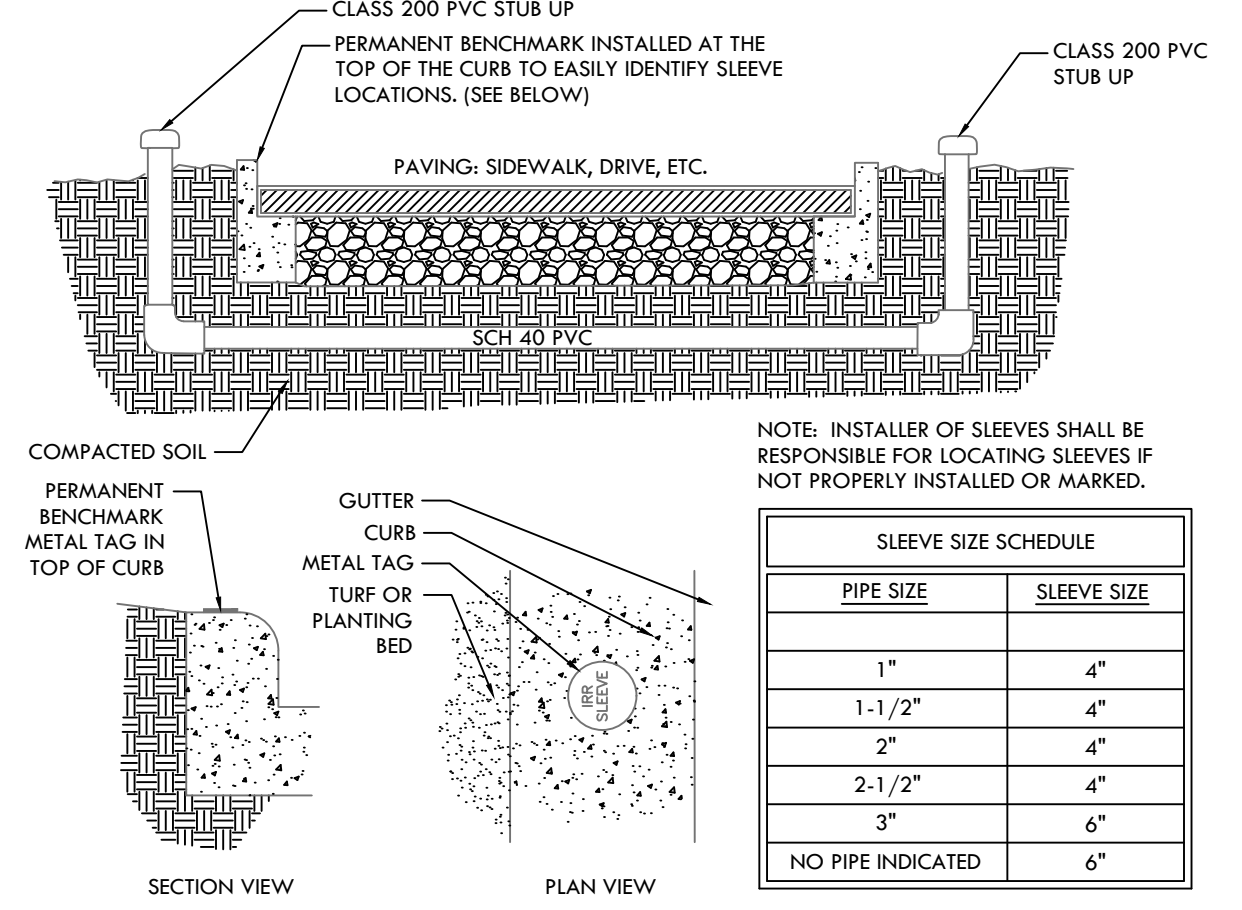
ADDITIVE ALTERNATE #1 - IRRIGATION PLAN AMPHITHEATER

SHEET NUMBER
IR1-03

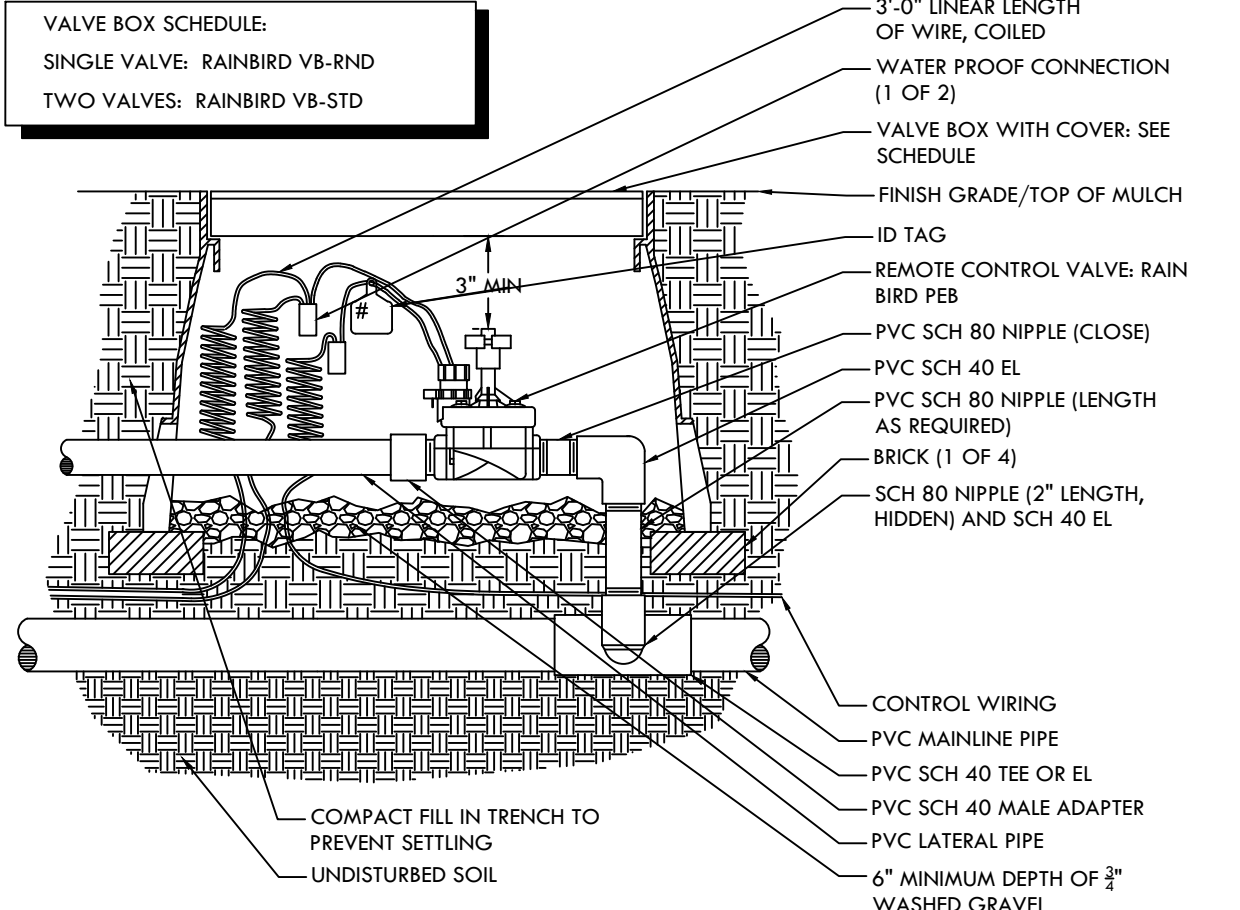
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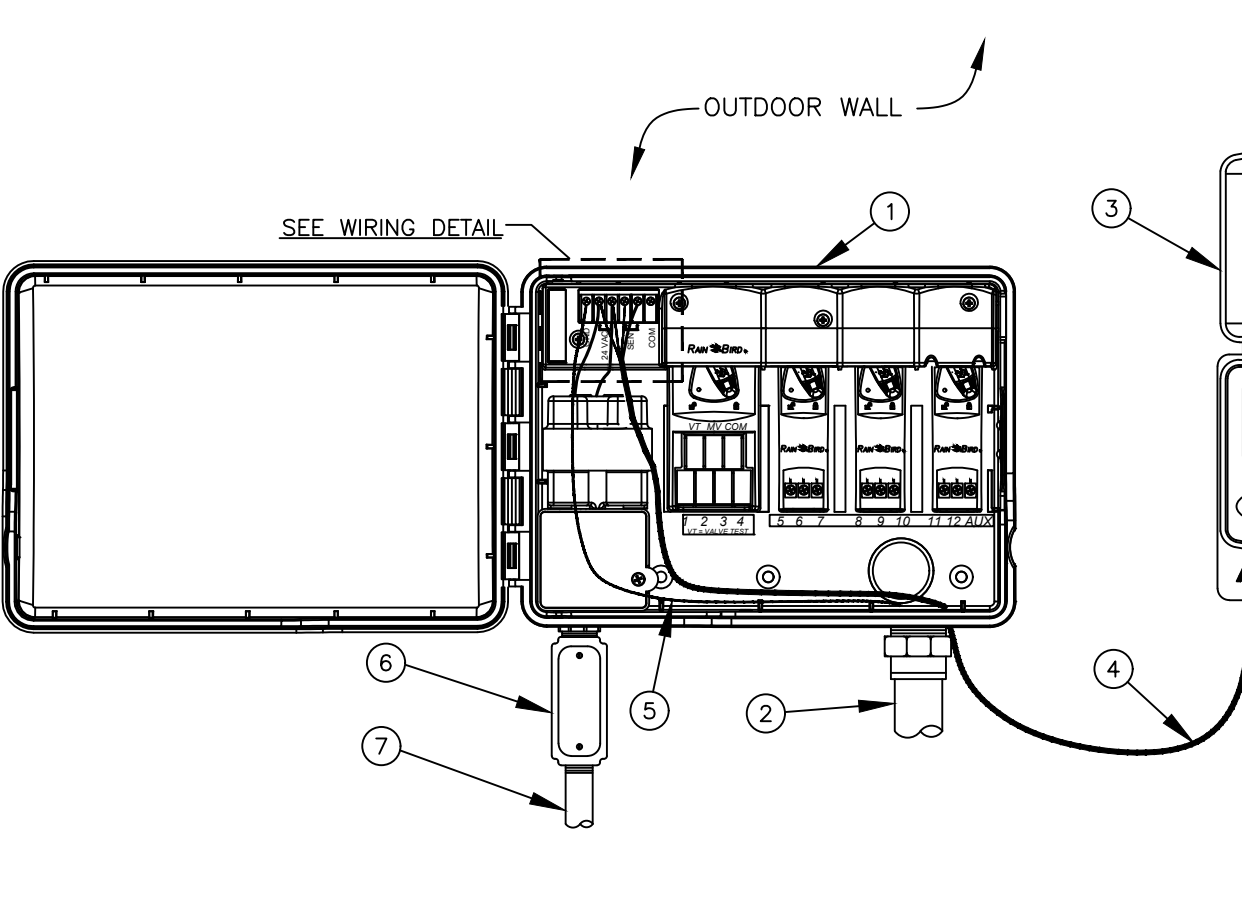
1 WALL MOUNTED CONTROLLER
N.T.S.



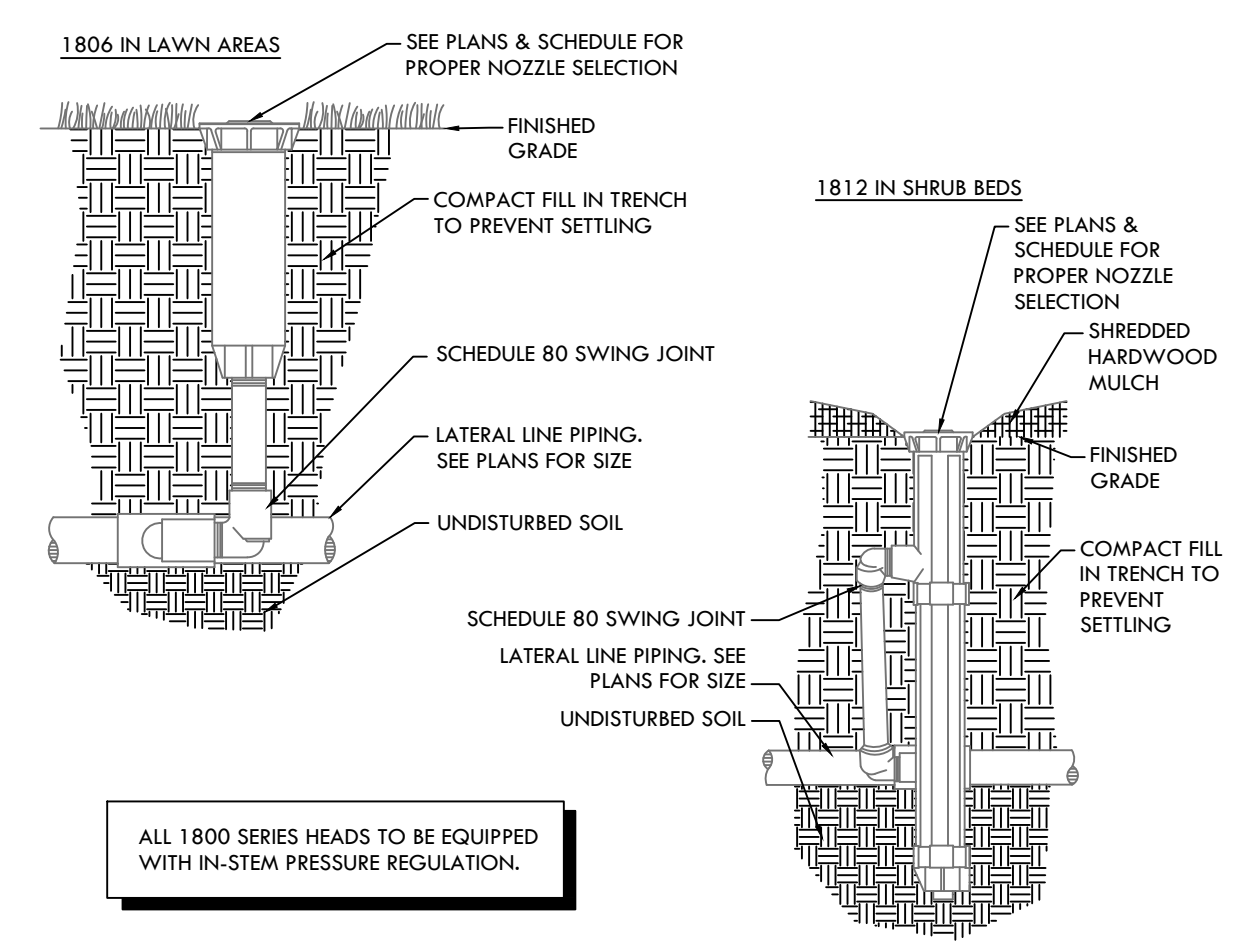
2 PVC SLEEVE UNDER PAVING
N.T.S.



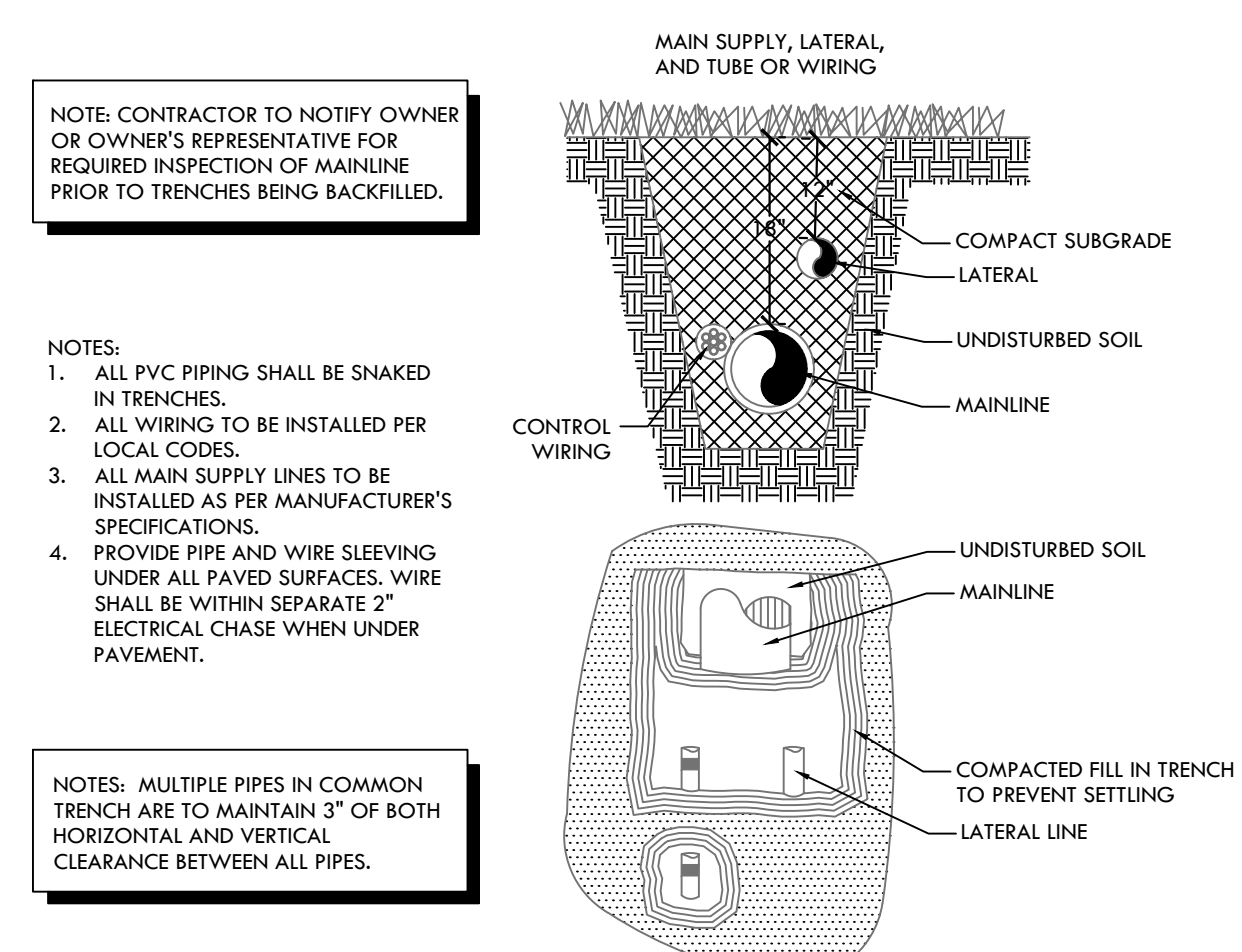
3 ELECTRICAL VALVE
N.T.S.



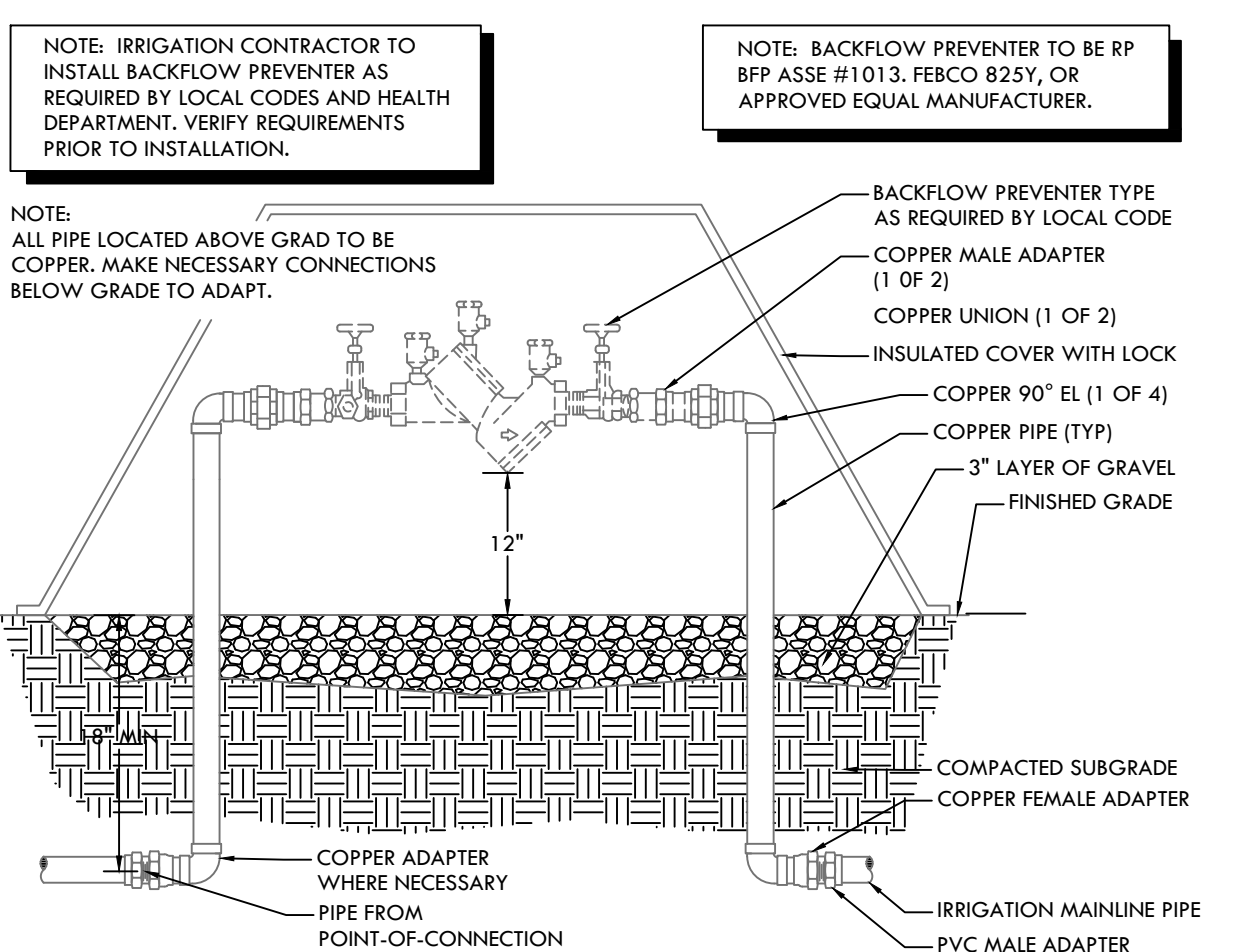
4 RAINBIRD RD-1800 SERIES POP-UP
N.T.S.



5 TYPICAL TRENCHING
N.T.S.



6 BACKFLOW PREVENTER
N.T.S.



7 WR2 SERIES - WIRELESS RAIN SENSOR
N.T.S.

IRRIGATION NOTES (GENERAL):

- THE IRRIGATION CONTRACTOR IS RESPONSIBLE FOR OBTAINING A COPY OF THE PROJECT SPECIFICATIONS PRIOR TO BIDDING. THE PROJECT SPECIFICATIONS ARE A PART OF THESE PLANS AND SHALL BE CONSULTED BY THE IRRIGATION CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE FOR IMPLEMENTING WORK AS SPECIFIED IN THE PROJECT SPECIFICATIONS AND ON THE PLANS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MATERIALS AND LABOR TO FULLY EXECUTE, GUARANTEE, AND MAINTAIN THE SYSTEM AS REQUIRED. THE TOTAL WORK SHOWN ON THIS PLAN SHALL BE DONE IN ACCORDANCE WITH PLANS AND ALSO AS PER INSTRUCTIONS OF THE CONTRACTING OFFICER.
- CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS, EQUIPMENT QUANTITIES, AND UTILITY LOCATIONS PRIOR TO BEGINNING WORK.
- CONTRACTOR SHALL NOTIFY LANDSCAPE ARCHITECT OF ANY DISCREPANCIES IN PLANS OR SPECIFICATIONS PRIOR TO BEGINNING OR CONTINUING WORK.
- ALL CONSTRUCTION SHALL CONFORM TO CITY, COUNTY, STATE, AND FEDERAL REQUIREMENTS. IT SHALL BE THE RESPONSIBILITY OF THE IRRIGATION CONTRACTOR TO ENSURE THAT ALL IRRIGATION EQUIPMENT MEETS GOVERNMENT REGULATIONS. CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR OBTAINING ANY NECESSARY PERMITS OR APPROVALS.
- PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL VERIFY ALL UTILITY LOCATIONS BEFORE BEGINNING WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES AND SHALL AVOID DAMAGE TO ALL UTILITIES DURING THE COURSE OF THE WORK. THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY AND ALL DAMAGE TO UTILITIES, STRUCTURES, SITE APPURTENANCES, ETC WHICH OCCURS AS A RESULT OF THE IRRIGATION CONSTRUCTION TO OWNER'S SATISFACTION, AT NO ADDITIONAL COST.
- NO PART OF THE IRRIGATION SYSTEM SHALL BE INSTALLED IN CONFLICT WITH UTILITIES. THE CONTRACTOR SHALL MAKE ANY NECESSARY ADJUSTMENTS IN THE PROPOSED IRRIGATION SYSTEM TO AVOID CONFLICTS WITH EXISTING STRUCTURES, PAVING, AND UTILITIES.
- 87.8 PSI STATIC WATER PRESSURE IS REQUIRED FOR THE EFFICIENT OPERATION OF THE IRRIGATION SYSTEM. IF THE MINIMUM STATIC WATER PRESSURE IS NOT AVAILABLE AT THE IRRIGATION CONNECTION POINT, NOTIFY THE LANDSCAPE ARCHITECT.
- IRRIGATION SYSTEMS CONNECTED TO POTABLE WATER SUPPLY SHALL HAVE A WAITS, FEBCO, OR WILKINS REDUCED PRESSURE BACKFLOW PREVENTER (ASER 1013) INSTALLED, OR AS REQUIRED BY LOCAL CODES.
- THE LOCATION OF THE EXISTING AUTOMATIC IRRIGATION CONTROLLER IS GENERALLY INDICATED ON THE DRAWINGS AND WILL BE SPECIFICALLY LOCATED ON-SITE BY THE CONTRACTING OFFICER. IRRIGATION CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ELECTRICAL CONNECTIONS FROM CONTROL VALVES TO THE IRRIGATION CONTROLLER.
- VALVE LOCATIONS AS INDICATED ON THE PLAN ARE SCHEMATIC. THE CONTRACTOR SHALL LOCATE ALL VALVES AND LINES IN SUCH A WAY AS TO CAUSE THE LEAST CONFLICT WITH THE LOCATION OF OTHER SITE AMENITIES. VALVES AND SOME LINES MAY BE SHOWN OFFSET IN SOME HARDSCAPE AREAS FOR GRAPHIC CLARITY ONLY. ADJUST HEADS AND LINE LOCATIONS ON SITE TO ACCOMMODATE EXISTING JOB CONDITIONS AND ACHIEVE COMPLETE COVERAGE. PIPE LINES DRAWN SIDE BY SIDE MAY BE LAID IN THE SAME TRENCH, BUT THEY MUST MAINTAIN A MINIMUM OF 3" HORIZONTAL AND VERTICAL CLEARANCE FROM ALL OTHER PIPES.
- VALVE WIRES SHALL BE UNDERGROUND FEEDER WIRE NO. 14 AWG DIRECT BURIAL.
- ALL HEADS, VALVES, AND ACCESSORIES SHALL BE RAINBIRD OR APPROVED EQUAL.
- ALL CONTROL VALVES AND GATE VALVES SHALL BE INSTALLED IN LOCKING VALVE BOXES.
- ALL VALVE BOXES ARE TO BE LOCATED IN PLANT BED OR NATURAL AREAS.
- ALL SLEEVES SHALL BE SCHEDULE 40 PVC AND LATERAL LINES SHALL BE PVC CLASS 200. ALL MAINLINE PIPE SHALL BE CLASS 200 PVC - 3" AND GREATER TO BE GASKET JOINT WITH PVC GASKET FITTINGS IN CONJUNCTION WITH A JOINT RESTRAINT SYSTEM.
- ALL MAIN LINES SHALL BE INSTALLED WITHIN 18" OF THE BACK OF CURB WHERE POSSIBLE. LATERAL LINES SHALL BE INSTALLED LIKEWISE WHERE POSSIBLE.
- ALL LINES LOCATED BENEATH WALKS, CURBS, OR CONCRETE PAVING SHALL BE LOCATED WITHIN SLEEVES. ALL IRRIGATION SLEEVING TO BE THE RESPONSIBILITY OF THE CONTRACTOR. ALL UNDER PAVING SLEEVING IS TO BE ACCESSIBLE AND FREE OF OBSTRUCTION. SLEEVE SIZES ARE TO BE ACCORDING TO THE ATTACHED SLEEVE SCHEDULE. ELECTRICAL WIRES FOR IRRIGATION VALVES AND IRRIGATION LINES ARE TO BE PLACED IN SEPARATE SLEEVES. SEE SLEEVING DETAIL.
- UNSIRED PIPE BETWEEN TWO (2) GIVEN SIZES IS ASSUMED TO BE THE LARGER SIZE.
- FINAL ADJUSTMENTS TO IRRIGATION SYSTEM & SPRAY PATTERNS ARE TO BE MADE PRIOR TO FINAL INSPECTION.
- ALL BACKFILLED TRENCHES SHALL BE THOROUGHLY COMPACTED.
- THE CONTRACTOR SHALL SET THE IRRIGATION CONTROL SYSTEM TO OPERATE BETWEEN THE HOURS OF 12:00 pm AND 6:00 am UNLESS OTHERWISE SPECIFIED BY OWNER.
- IRRIGATION CONTRACTOR SHALL REVIEW WINTERIZATION PROCEDURES FOR IRRIGATION SYSTEM WITH THE OWNER'S REPRESENTATIVE.
- CONTRACTOR IS RESPONSIBLE FOR ENSURING AND PROVIDING SUPPLEMENTAL WATER TO ALL LANDSCAPE PLANTINGS SHOULD THE IRRIGATION SYSTEM FAIL TO OPERATE PROPERLY.
- ALL WORK, ADJUSTMENTS, AND INSPECTIONS SHALL BE SUBJECT TO THE APPROVAL OF THE OWNER OR OWNER'S REPRESENTATIVE.

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KHA PROJECT	142920003
DATE	2/2/2024
SCALE	AS SHOWN
DESIGNED BY:	BAJ
DRAWN BY:	SDN
CHECKED BY:	JLG

MEDAL OF HONOR PARK SITE AND LIGHTING IMPROVEMENTS
PREPARED FOR
CITY OF MOBILE
CITY OF MOBILE ALABAMA

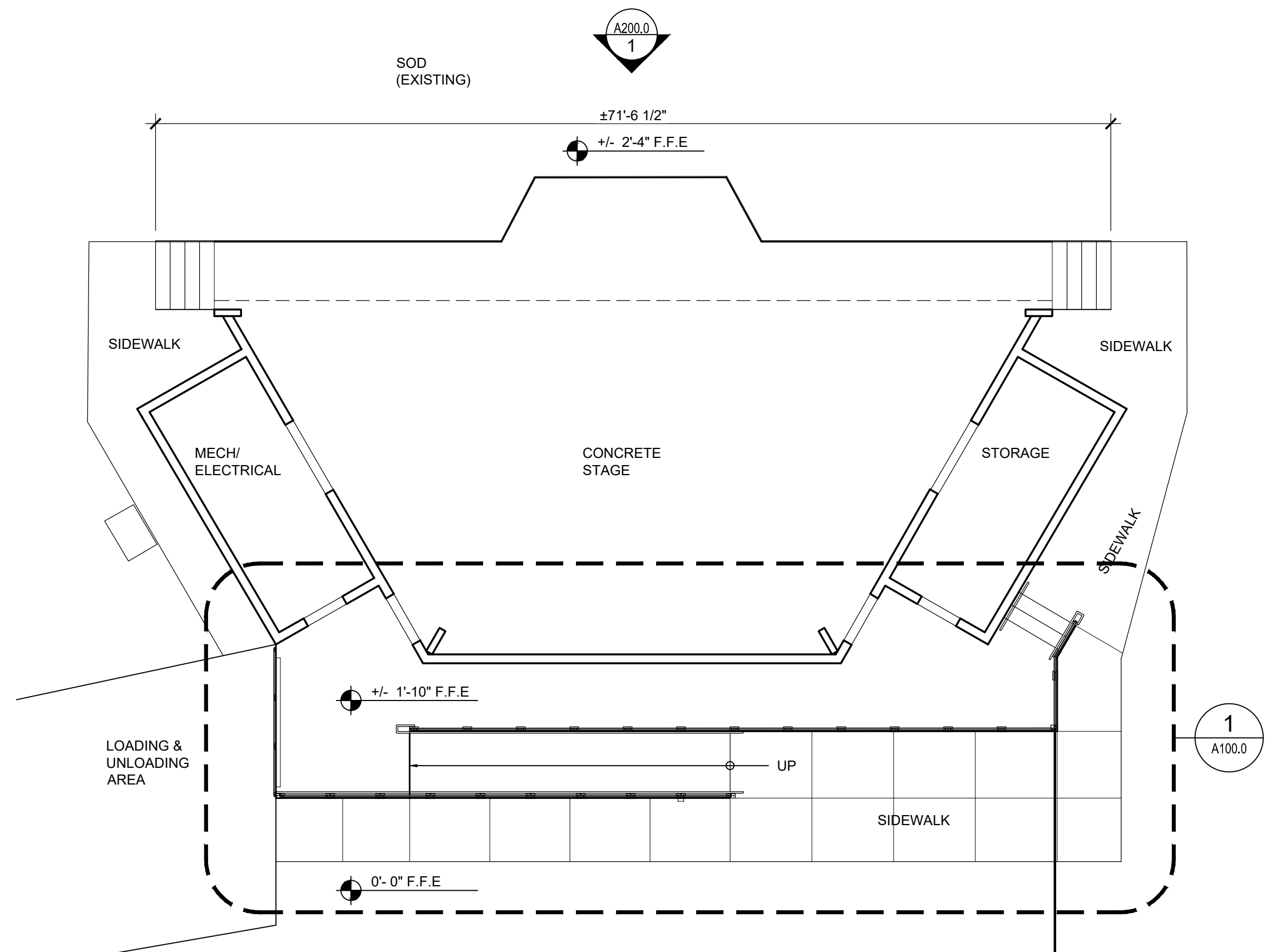


IRRIGATION DETAILS

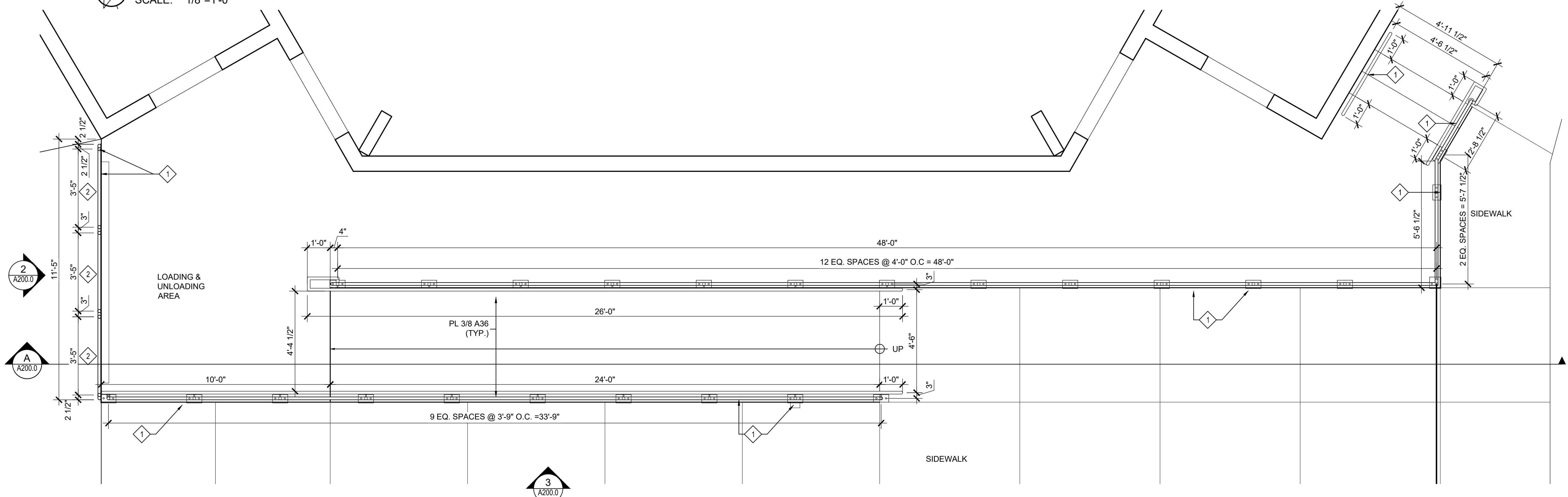
SHEET NUMBER
IR2-01

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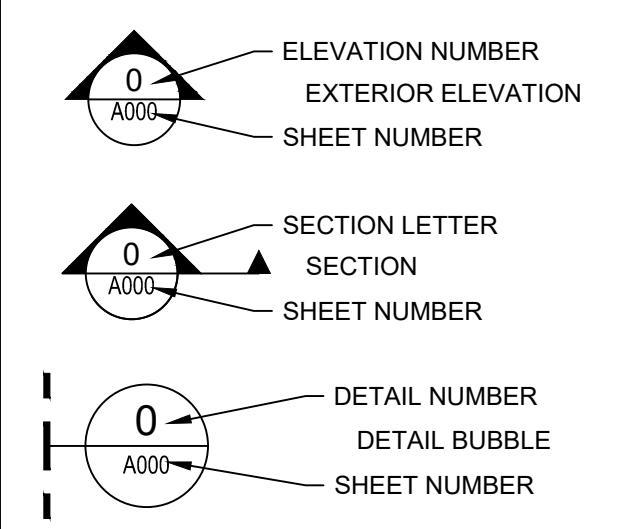


AMPHITHEATER NEW FLOOR PLAN
SCALE: 1/8"=1'-0"



① RAMP ENLARGED PLAN
SCALE: 3/8"=1'-0"

SYMBOLS LEGEND:



GENERAL NOTES:

- SEE AD100 SHEET FOR DEMOLITION PLANS
- SEE A100 SHEETS FOR FLOOR PLANS.
- SEE A200 SHEETS FOR ELEVATIONS AND SECTIONS

GENERAL CONSTRUCTION NOTES:

- SEE CIVIL DRAWINGS.
- ALL DIMENSION ARE TO BE CHECKED AND VERIFY ON SITE PRIOR TO CONSTRUCTION.
- PRESSURE WASH ALL EXPOSED CONCRETE SURFACES.
- APPLY NEW ELASTOMERIC COATING AT PERIMETER OF MASONRY FOUNDATION, CLEAN & PREP ACCORDINGLY.

SHEET KEYNOTES:

- ① NEW 1 1/2" STANDARD WT GALVANIZED STEEL PIPE GUARDRAIL AND/OR HANDRAIL SYSTEM
- ② NEW 1 1/2" STANDARD WT GALVANIZED STEEL PIPE GUARDRAIL (REMOVABLE)

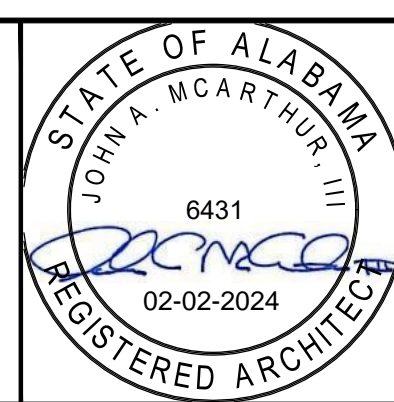
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KHA PROJECT 142920003
DATE 2/2/2024
SCALE AS SHOWN
DESIGNED BY: JAM
DRAWN BY: DGD
CHECKED BY: NWG

**MEDAL OF HONOR PARK SITE
AND LIGHTING IMPROVEMENTS**
PREPARED FOR
CITY OF MOBILE
ALABAMA



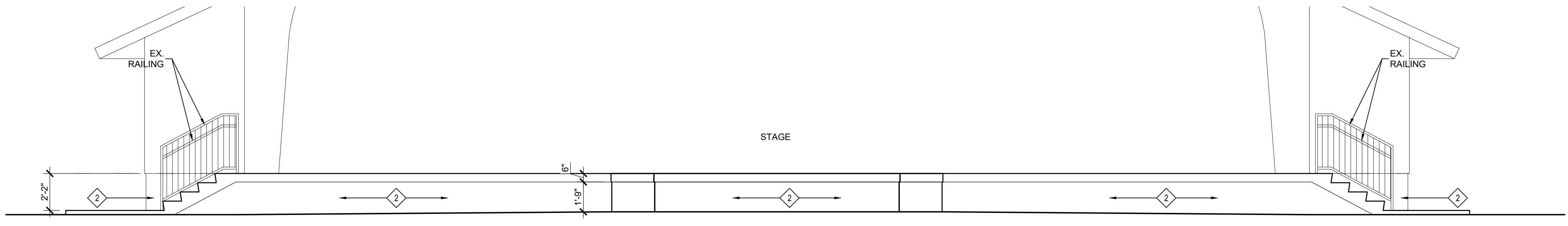
**ADDITIVE ALTERNATE #1 -
AMPHITHEATER
NEW FLOOR PLAN**

SHEET NUMBER
A100.0

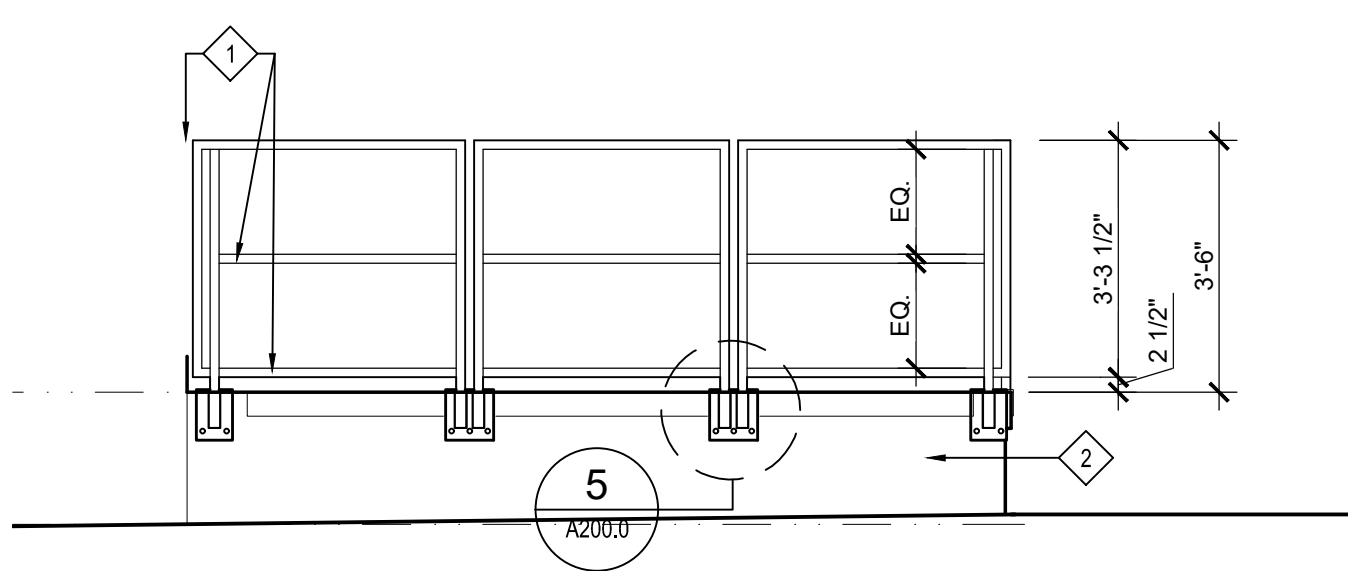


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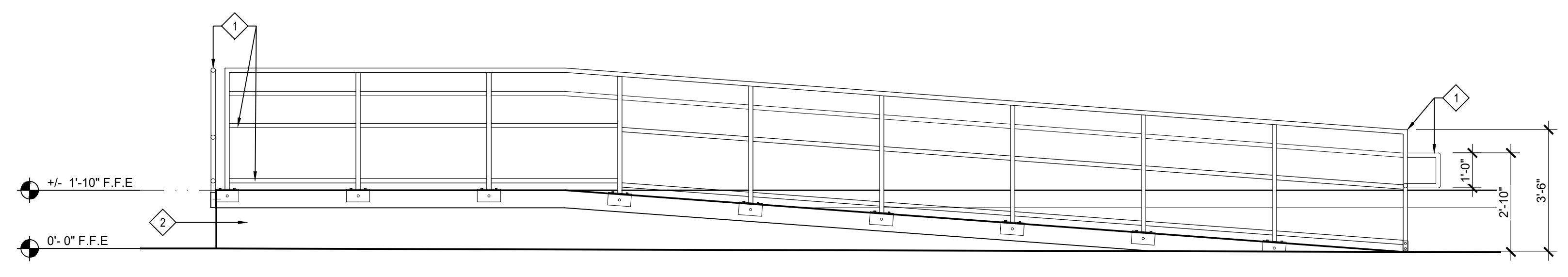
- SHEET KEYNOTES:**
- 1 NEW 1 1/2" STANDARD WT GALVANIZED STEEL PIPE GUARDRAIL AND / OR HANDRAIL SYSTEM
 - 2 APPLY NEW ELASTOMERIC COATING AT PERIMETER OF MASONRY FOUNDATION CLEAN & PREP ACCORDINGLY.



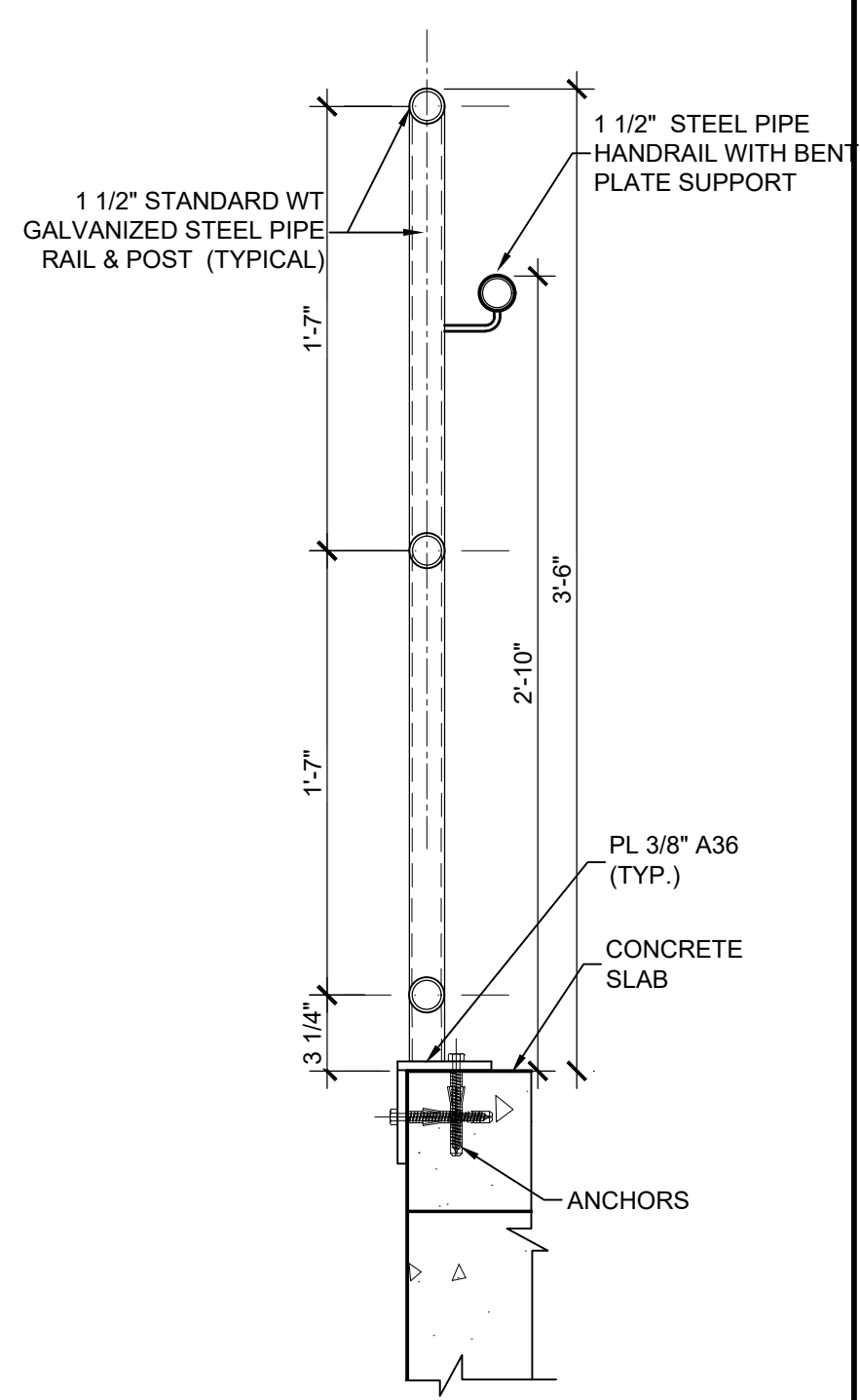
1 EXTERIOR PARTIAL ELEVATION
SCALE: 1/4"=1'-0"



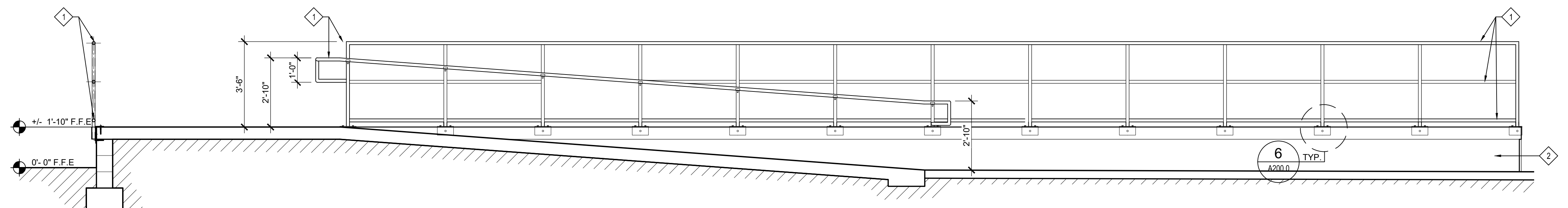
2 REMOVABLE RAILING ELEVATION
SCALE: 3/8"=1'-0"



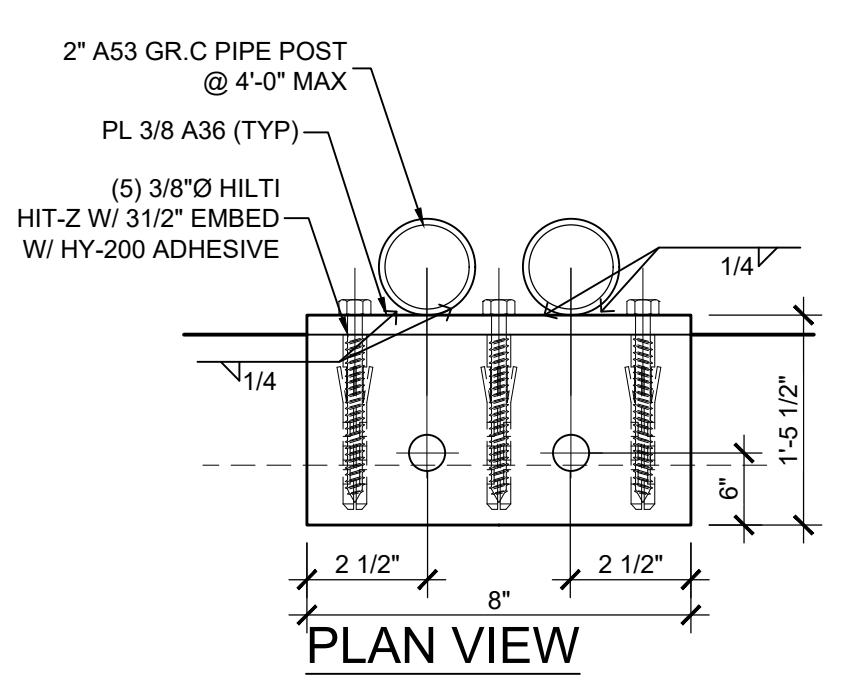
3 RAILING ELEVATION
SCALE: 3/8"=1'-0"



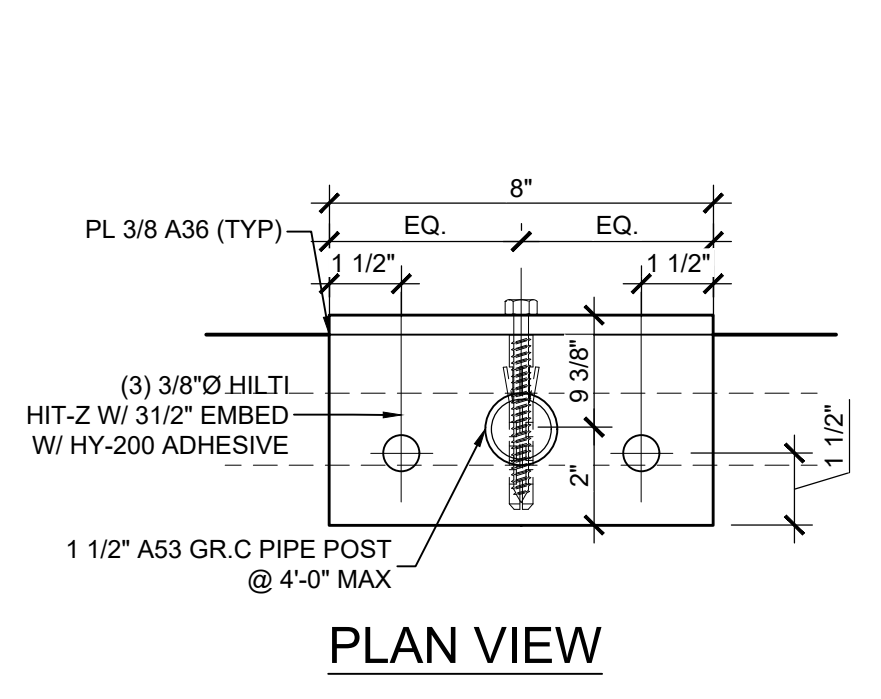
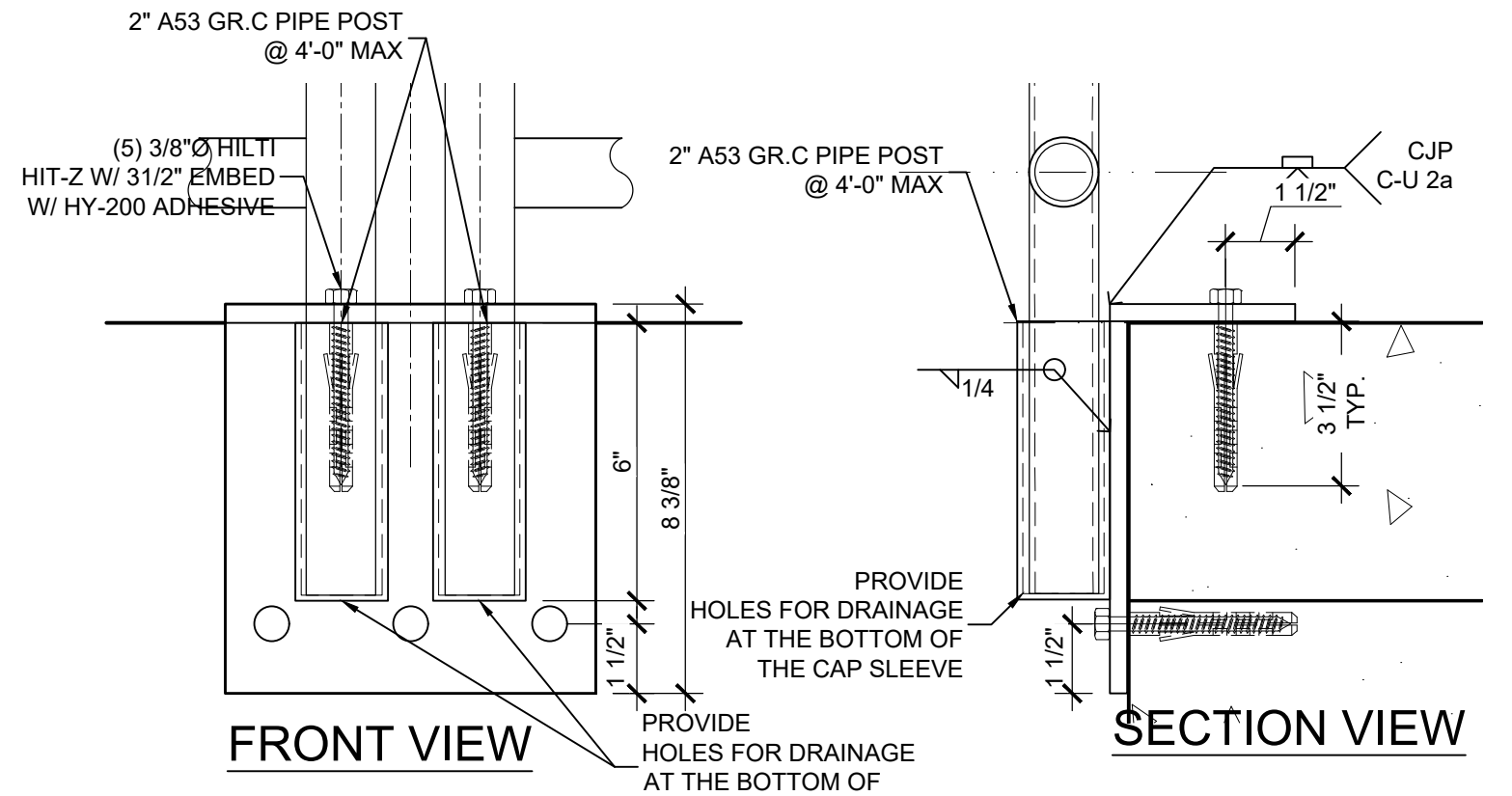
4 GUARDRAIL/ RAILING DETAIL
SCALE: 1-1/2"=1'-0"



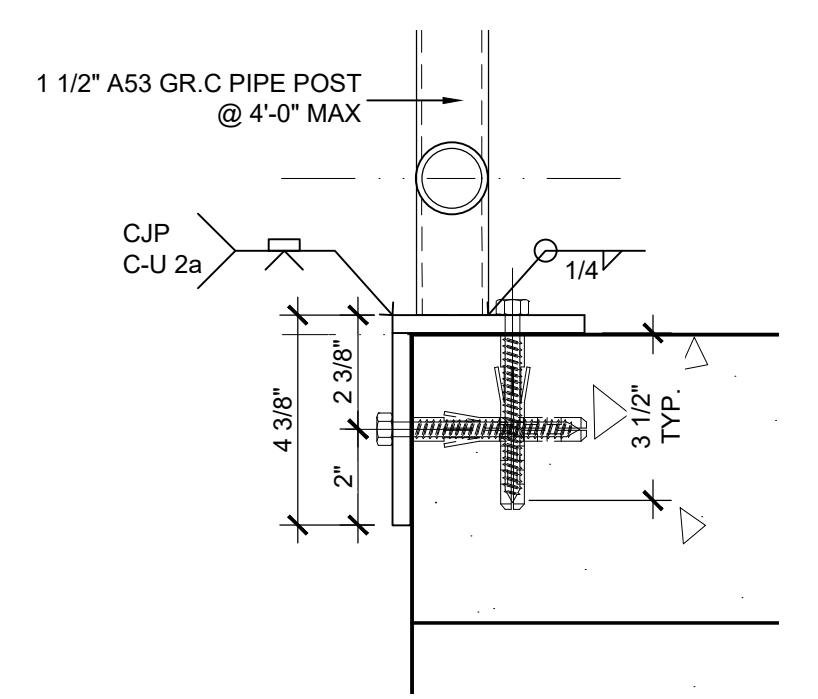
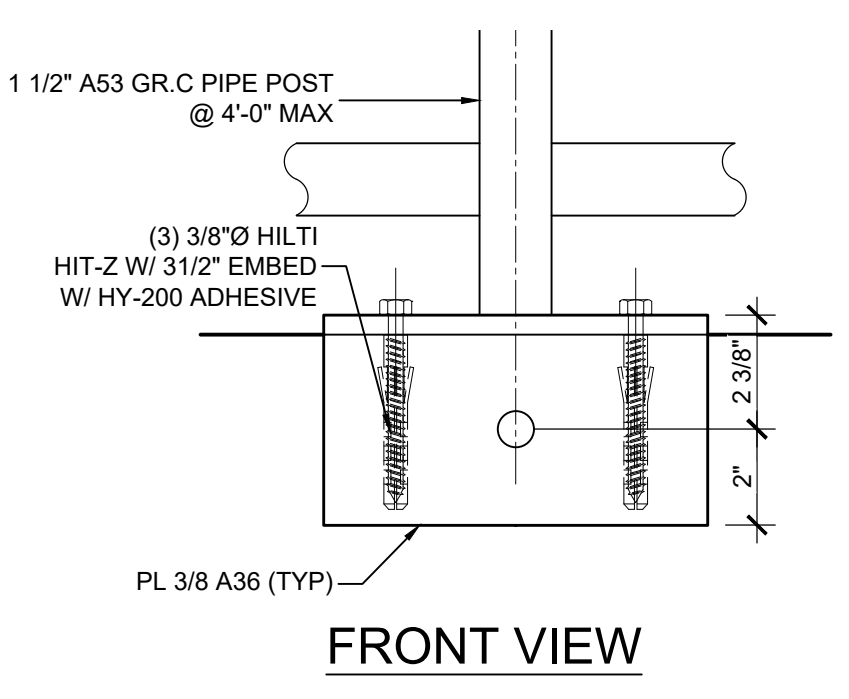
A RAMP SECTION
SCALE: 3/8"=1'-0"



5 POST ANCHOR DETAIL
SCALE: 3"=1'-0"



6 POST ANCHOR DETAIL (TYPICAL)
SCALE: 3"=1'-0"



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KHA PROJECT 142920003
DATE 2/2/2024
SCALE AS SHOWN
DESIGNED BY: JAM
DRAWN BY: DGD
CHECKED BY: NWG

**MEDAL OF HONOR PARK SITE
AND LIGHTING IMPROVEMENTS**

PREPARED FOR
CITY OF MOBILE

CITY OF MOBILE ALABAMA

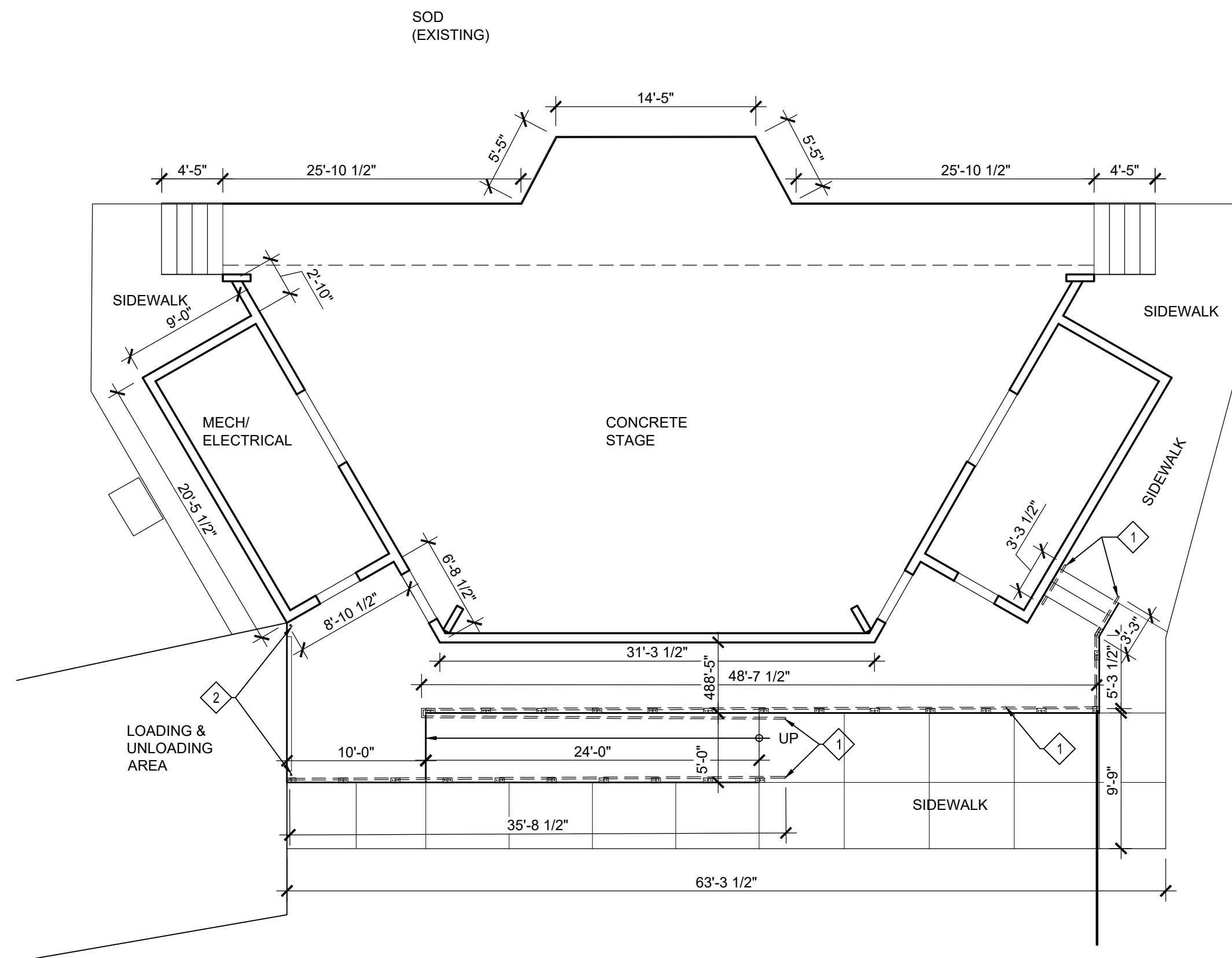


**AMPHITHEATER
PARTIAL ELEVATIONS**

SHEET NUMBER
A200.0

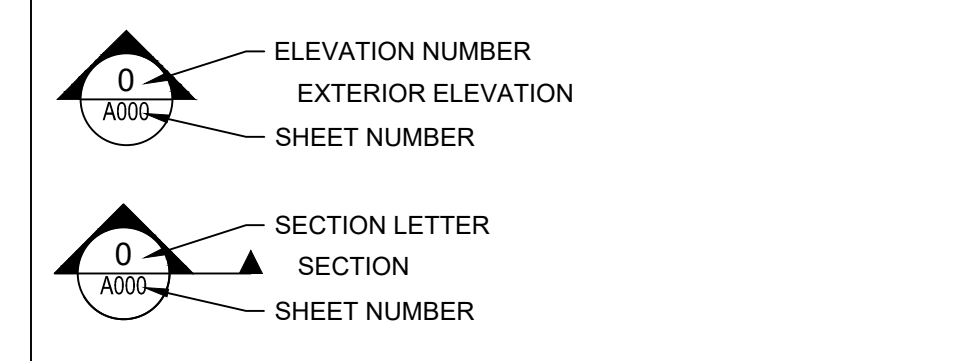


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AMPHITHEATER DEMOLITION PLAN
SCALE: 1/8"=1'-0"

SYMBOLS LEGEND:



GENERAL NOTES:

- SEE AD100 SHEET FOR DEMOLITION PLANS
- SEE A100 SHEETS FOR FLOOR PLANS.
- SEE A200 SHEETS FOR ELEVATIONS AND SECTIONS

GENERAL DEMOLITION NOTES:

- SEE CIVIL DRAWINGS.
- PATCHING AND FILL CONCRETE SLAB & RAMP AS NEEDED .RESTORE THE CONCRETE MEMBERS TO THEIR ORIGINAL SIZE AND SHAPE. MORTAR SURFACES SHALL BE TROWELED SMOOTH AND FLUSH WITH THE EXISTING CONCRETE.
- ALL DIMENSION ARE TO BE FIELD VERIFIED.

SHEET KEYNOTES:

- Keynote 1: REMOVE EXISTING GUARDRAIL AND RELATED COMPONENTS.
- Keynote 2: REMOVE EXISTING LOADING & UNLOADING AREA CHAIN AND POSTS.

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MEDAL OF HONOR PARK SITE AND LIGHTING IMPROVEMENTS
PREPARED FOR
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ALABAMA



ADDITIVE ALTERNATE #1 - AMPHITHEATER DEMOLITION PLAN

SHEET NUMBER	AD100.0
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ELECTRICAL SPECIFICATIONS

1. GENERAL ELECTRICAL:
 - 1.1. THE CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS AND EQUIPMENT NECESSARY FOR THE INSTALLATION OF A COMPLETE ELECTRICAL SYSTEM AS INDICATED WITHIN THESE DRAWINGS. ALL WORK SHALL BE INSTALLED IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES AND ORDINANCES AND WITH MANUFACTURER'S RECOMMENDATIONS.
 - 1.2. THE CONTRACTOR SHALL CAREFULLY EXAMINE THE ARCHITECTURAL, STRUCTURAL, ELECTRICAL AND MECHANICAL DRAWINGS PRIOR TO SUBMITTING HIS BID. THE CONTRACTOR WILL BE REQUIRED TO FURNISH, INSTALL AND CONNECT ALL ITEMS AS INDICATED ON THE DRAWINGS.
 - 1.3. THE ARCHITECT SHALL BE NOTIFIED OF ANY CONFLICTS, OR INTERFERENCES THAT OCCUR BETWEEN INDIVIDUAL DRAWINGS.
 - 1.4. ALL MATERIALS AND EQUIPMENT SHALL BE INSTALLED IN A NEAT, FIRST CLASS, WORKMANLIKE MANNER, TO THE APPROVAL OF THE ARCHITECT/ENGINEER AND GOVERNING AUTHORITIES.
 - 1.5. IN ADDITION TO THE MANUFACTURERS STANDARD GUARANTEES, THE CONTRACTOR SHALL GUARANTEE ALL MATERIALS, EQUIPMENT AND WORKMANSHIP AGAINST DEFECTS FOR ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE, AND SHALL CORRECT ANY DEFECTS AT NO ADDITIONAL COST TO THE OWNER. ALL LAMPS SHALL BE GUARANTEED FOR 30 DAYS AFTER ACCEPTANCE.
 - 1.6. THE LOADS SHOWN FOR APPLIANCES AND EQUIPMENT ARE BASED ON DESIGN INFORMATION. THE CONTRACTOR SHALL VERIFY ALL APPLIANCE LOADS PRIOR TO RUNNING THE CIRCUIT. THE MINIMUM CIRCUIT REQUIREMENTS SHALL BE BASED ON THE APPLIANCE NAMEPLATE VALUE OR CODE REQUIREMENTS, WHICHEVER IS MORE STRINGENT. ADDITIONAL COMPENSATION SHALL NOT BE ALLOWED FOR APPLIANCE MODIFICATIONS BY THE CONTRACTOR.
 - 1.7. PRIOR APPROVAL: PRIOR APPROVAL SHALL BE REQUIRED FOR ANY MANUFACTURER OTHER THAN THOSE LISTED FOR ALL SPECIFIED ITEMS IN THESE DRAWINGS. SUBMIT ALL REQUESTS FOR PRIOR APPROVAL 2 WEEKS PRIOR TO BID OPENING. ENGINEER'S APPROVAL WILL BE IN THE FORM OF AN ADDENDUM.
2. CODES & STANDARDS:
 - 2.1. INSTALLATION AND MATERIALS SHALL COMPLY WITH THE LATEST ADOPTED EDITION OF THE FOLLOWING CODES & STANDARDS:
 - 2.1.1. NATIONAL ELECTRICAL CODE.
 - 2.1.2. NFPA 72. NATIONAL FIRE PROTECTION CODE.
 - 2.1.3. INTERNATIONAL BUILDING CODE.
 - 2.1.4. INTERNATIONAL ENERGY CONSERVATION CODE.
 - 2.1.5. NFPA 101.
 - 2.1.6. ADA.
 - 2.1.7. ANSI.
 - 2.1.8. NEMA.
 - 2.1.9. OSHA.
 - 2.1.10. UL.
3. ALTERATIONS & ADDITIONS TO EXISTING WORK:
 - 3.1. PROVIDE ALL NECESSARY ADDITIONS AND ALTERATIONS TO EXISTING WORK AS REQUIRED TO PROVIDE AND MAINTAIN A COMPLETE AND PROPER ELECTRICAL INSTALLATION.
 - 3.2. AS NECESSARY, RELOCATE EXISTING ELECTRICAL WORK SO OTHER TRADES CAN PURSUE THEIR WORK.
 - 3.3. MAINTAIN POWER TO EXISTING PORTIONS OF BUILDINGS FED FROM OR THROUGH AREA IN SCOPE OF THIS CONTRACT.
 - 3.4. COORDINATE ALL REQUIRED OUTAGES WITH OWNER.
4. BASIC MATERIALS & METHODS:
 - 4.1. ALL POWER AND DISTRIBUTION CABLING SHALL BE COPPER TYPE THWN/THHN.
 - 4.2. ALL ELECTRICAL EQUIPMENT, DEVICES, ETC. LOCATED OUTDOORS SHALL BE WEATHERPROOF.
 - 4.3. ELECTRICAL CONTRACTOR SHALL PROVIDE ADEQUATE AND PROPER SUPPORT FOR ALL ELECTRICAL OUTLETS, DEVICES, LIGHT FIXTURES, ETC. BUILT IN OR MOUNTED ON CEILINGS. NO OUTLET BOX, DEVICE, LIGHT FIXTURE, ETC. SHALL BE SUPPORTED FROM ANY ACOUSTICAL CEILING TILE OR DRYWALL CEILINGS. PROVIDE METAL SUPPORTS THAT ARE MADE FOR USE WITH CEILING GRID SYSTEMS OR PROVIDE HANGERS FROM STRUCTURE ABOVE.
 - 4.4. CONDUIT ROUTINGS AND DEVICE/EQUIPMENT LOCATIONS SHOWN ARE DIAGRAMMATIC ONLY, CONTRACTOR SHALL FIELD ROUTE AND LOCATE AS REQUIRED. CONDUIT ROUTINGS SHALL BE PARALLEL OR PERPENDICULAR TO BUILDING LINES.
 - 4.5. JUNCTION BOXES LOCATED ABOVE CEILING SHALL BE INSTALLED FACING DOWN AND SHALL BE ACCESSIBLE AFTER INSTALLATION.
 - 4.6. COORDINATE ALL ELECTRICAL WORK WITH OTHER TRADES AND STRUCTURAL COMPONENTS.
 - 4.7. THE CONDUIT MATERIAL SHALL BE AS FOLLOWS:
 - 4.7.1. BELOW GRADE - RNC (POWER & SITE LIGHTING ONLY). ELBOWS >1-1/2" SHALL BE RGS.
 - 4.7.2. RISER FROM 36" BELOW GRADE - RGS.
 - 4.7.3. CONCEALED RISER FROM 36" BELOW GRADE - RNC (POWER ONLY).
 - 4.7.4. ABOVE GRADE SUBJECT TO PHYSICAL ABUSE - RGS.
 - 4.7.5. ABOVE GRADE NOT SUBJECT TO PHYSICAL ABUSE OR WEATHER - EMT.
 - 4.7.6. INDOORS NOT SUBJECT TO PHYSICAL ABUSE - EMT. OR METAL CLAD CABLE (AS ALLOWED BY LOCAL AUTHORITY HAVING JURISDICTION).
 - 4.7.7. FINAL CONDUIT CONNECTIONS TO HEAT PUMPS, AIR HANDLERS, EXHAUST FANS, AND WATER HEATERS SHALL BE LFMC WHETHER INTERIOR OR EXTERIOR.
 - 4.8. CONDUIT FITTINGS SHALL BE AS FOLLOWS:
 - 4.8.1. EMT - <=2" USE STEEL SET SCREW WITH INSULATED THROATS FOR INTERIOR/ USE COMPRESSION FITTINGS WITH INSULATED THROATS FOR EXTERIOR, >2" USE SET-SCREW STEEL WITH INSULATED THROATS.
 - 4.8.2. RGS - THREADED GALVANIZED STEEL.
 - 4.8.3. PVC - PVC APPROVED FOR THE USE.
 - 4.8.4. FMC - ZINC-PLATED STEEL OR CADMIUM-PLATED MALLEABLE IRON SCREW TYPE WITH INSULATED THROAT.
 - 4.8.5. LFMC - CADMIUM-PLATED MALLEABLE IRON OR STEEL COMPRESSION TYPE WITH INSULATED THROAT.
- 4.9. ALL OUTLET BOXES SHALL BE 4"x4"x1-1/2" DEEP MINIMUM.
- 4.10. ELECTRICAL CONTRACTOR SHALL WORK CLOSELY WITH THE MASONRY CONTRACTOR ON THE INSTALLATION OF ALL ELECTRICAL BOXES, CABINETS, RINGS, ETC. IN MASONRY WALLS. THE BOXES SHALL BE INSTALLED AT THE UNIFORM HEIGHTS CALLED FOR ON THE DRAWINGS AND SPECIFICATIONS. PROVIDE APPROPRIATE DEPTH MASONRY RINGS FOR ALL OUTLETS IN MASONRY WALLS TO INSURE PROPER CUTTING AND FITTING. THE FACE OF THE CABINETS, BOXES, RINGS, ETC. SHALL BE PLUMB AND FLUSH WITH THE FACE OF THE FINISH MATERIAL. ANY CABINET, OUTLET BOX, ETC. NOT MEETING THE ABOVE REQUIREMENT SHALL BE REMOVED AND REINSTALLED AT NO ADDITIONAL COST TO THE OWNER.
- 4.11. ALL SIDEWALKS AND PARKING LOT ASPHALT AREAS THAT ARE CUT DUE TO NEW ELECTRICAL SERVICES SHALL BE REPAIRED TO MATCH EXISTING.
- 4.12. ALL DIMENSIONS TO DEVICES AFF SHALL BE TO CENTERLINE UNLESS NOTED OTHERWISE.
- 4.13. COORDINATE LOCATIONS OF ELECTRICAL EQUIPMENT, DEVICES, OUTLETS, FIXTURES, ETC., WITH ARCHITECTURAL PLANS, ELEVATIONS AND REFLECTED CEILING PLANS PRIOR TO ROUGH-IN WORK.
5. GROUNDING & BONDING:
 - 5.1. PROVIDE AN INSULATED EQUIPMENT GROUNDING CONDUCTOR IN ALL CONDUITS.
 - 5.2. GROUND RODS SHALL BE 3/4"x20' COPPERCLAD STEEL.
 - 5.3. BELOW GRADE CONNECTIONS SHALL BE EXOTHERMIC TYPE.
 - 5.4. ALL CABLES SHALL BE COPPER, ALL BOLTED CONNECTIONS SHALL BE BRONZE.
 - 5.5. WHERE AVAILABLE, BOND TO BUILDING STRUCTURAL STEEL, BUILDING FOUNDATION STEEL, METAL WATER SERVICE PIPING.
 - 5.6. PROVIDE THREE 20' GROUND RODS IN TRIANGLE ARRANGEMENT ON 20' CENTERS FOR MADE ELECTRODE SYSTEM. THE ELECTRICAL CONTRACTOR SHALL BOND NEW COPPER CLAD GROUND RODS WITH TINNED STRANDED BARE COPPER CONDUCTOR.
6. IDENTIFICATION:
 - 6.1. PROVIDE ENGRAVED 1"x3" PHENOLIC LABELS FOR ALL PANELBOARDS, SAFETY SWITCHES, TRANSFORMERS, CABINETS, ETC.
 - 6.2. PAINT THE RACEWAY SYSTEM COUPLINGS AND BOX COVERS ABOVE CEILINGS FOR THE FOLLOWING SYSTEMS AS FOLLOWS:
 - 6.2.1. 240 VOLT SYSTEMS - BLACK.
 - 6.2.2. 480 VOLT SYSTEMS - BROWN.
7. GENERAL WIRING DEVICES:
 - 7.1. SWITCHES - SPECIFICATION GRADE, 20 AMP, COLOR BY ARCHITECT.
 - 7.2. RECEPTACLES - SPECIFICATION GRADE, 20 AMP, NEMA 5-20R, COLOR BY ARCHITECT.
 - 7.3. COVER PLATES - NYLON, COLOR BY ARCHITECT.
 - 7.4. SPECIAL RECEPTACLES - PER THE DRAWINGS, VERIFY WITH EQUIPMENT BEING SUPPLIED.
 - 7.5. APPROVED MANUFACTURERS - HUBBELL, LEVITON, EAGLE, PASS & SEYMOUR.
8. SAFETY SWITCHES:
 - 8.1. HEAVY DUTY, VISIBLE BLADE, LOCKABLE, QUICK-MAKE/QUICK-BREAK, HORSEPOWER RATED, FUSED WHERE INDICATED.
 - 8.2. PROVIDE WITH GROUND LUG KIT.
 - 8.3. INTERIOR - NEMA 1.
 - 8.4. EXTERIOR - NEMA 3R.
 - 8.5. APPROVED MANUFACTURERS - SQUARE D, GENERAL ELECTRIC, SIEMENS.
9. MOTOR STARTERS:
 - 9.1. MANUAL TYPE SHALL BE TOGGLE WITH THERMAL OVERLOAD.
 - 9.2. MAGNETIC TYPE SHALL HAVE SOLID STATE OVERLOAD RELAY WITH Ø LOSS AND Ø UNBALANCE PROTECTION, HOA SWITCH, RED RUN AND GREEN STOP LED LIGHTS.
 - 9.3. INTERIOR - NEMA 1.
 - 9.4. EXTERIOR - NEMA 3R.
 - 9.5. APPROVED MANUFACTURERS - SQUARE D, GENERAL ELECTRIC, CUTLER-HAMMER, SIEMENS.
10. PANELBOARDS:
 - 10.1. FRONT ACCESSIBLE, BOLT-ON MOLDED CASE C/BS, COPPER PHASE & NEUTRAL BUSSING, COPPER GROUND BAR, FULLY RATED (SERIES RATING NOT ALLOWED).
 - 10.2. ENCLOSURES SHALL BE DOOR-IN-DOOR CONSTRUCTION.
 - 10.3. INTERIOR - NEMA 1.
 - 10.4. ALL INTERIOR PANELBOARDS ARE TO HAVE FOUR SPARE 3/4" CONDUITS INSTALLED TO AN ACCESSIBLE SPACE FOR FUTURE.
 - 10.5. EXTERIOR - NEMA 3R.
 - 10.6. PROVIDE TYPE-WRITTEN DIRECTORY IN CLEAR SLEEVE ON INSIDE OF DOOR.
 - 10.7. APPROVED MANUFACTURERS - SQUARE D, GENERAL ELECTRIC, SIEMENS.
11. DRY-TYPE TRANSFORMERS <600V:
 - 11.1. 150" RISE.
 - 11.2. COPPER WINDINGS.
 - 11.3. PROVIDE WITH 4" HIGH CONCRETE HOUSEKEEPING PAD.
 - 11.4. GROUND SECONDARY TO NEAREST BUILDING STEEL.
 - 11.5. APPROVED MANUFACTURERS - SQUARE D, GENERAL ELECTRIC, SIEMENS.

SUMMARY OF WORK -
THE SCOPE OF THIS PROJECT CONSISTS OF:

SCOPE OF WORK:
FIELDS C & D

REMOVING AND REPLACING THE EXISTING FIELD LIGHTING FOR SOFTBALL FIELDS "C" AND "D" WITH NEW LED FIXTURES AND CONTROLS. A NEW MAIN PANEL AND A NEW LIGHTING CONTROL PANEL WILL BE INSTALLED ON A NEW GALVANIZED PEDESTAL TO SERVE THE NEW LIGHTING UPGRADES. FIXTURES, POLES, AND CONTROLS ARE PROVIDED BY OWNER AND INSTALLED BY ELECTRICAL CONTRACTOR.

TENNIS CENTER

REMOVING AND REPLACING THE EXISTING TENNIS COURT LIGHTING WITH NEW LED FIXTURES. REMOVING AND REPLACING THE EXISTING TENNIS COURT LIGHTING CONTROLS. THE NEW LIGHTS ARE TO BE RECONNECTED TO THE EXISTING CIRCUITS WITH NEW CONTROLS. EXISTING CIRCUIT (CONDUIT AND CONDUCTORS) IS TO BE REPLACED FROM THE POLE HANDHOLE TO THE NEW LIGHT FIXTURE.

AMPHITHEATER - ADDITIVE ALTERNATE #1

REMOVING AND REPLACING THE EXISTING AMPHITHEATER WALL MOUNTED LIGHTING WITH NEW LED FIXTURES. THE NEW LIGHTS ARE TO BE RECONNECTED TO THE EXISTING CIRCUITS. EXISTING STAGE LIGHTS ARE TO REMAIN, NEW SWITCHES ARE TO BE PROVIDED AND INSTALLED SO END USER HAS LOCAL CONTROL. REMOVING AND REPLACING THE EXISTING GFCI RECEPTACLES WITH NEW DEVICES AND COVERS. NEW CITY STANDARD BOLLARD LIGHTS ARE TO BE PROVIDED AND INSTALLED ALONG THE NEW PATHWAY.


ENTRANCE SIGN

A NEW ENTRANCE SIGN (PROVIDED AS A PART OF THIS CONTRACT - SEE LANDSCAPE ARCHITECTURAL PLANS AND DETAILS FOR MORE INFORMATION). THE ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL A NEW CIRCUIT TO SERVE THE NEW SIGN.

CONCESSION BUILDING SERVICE RECONFIGURATION

THE CONCESSION BUILDING IS CURRENTLY SERVED FROM THE EXISTING TRANSCLOSURE TO BE REMOVED. THE CONCESSION BUILDING IS TO BE RESERVED FROM A NEW BREAKER FROM THE EXISTING RE-PURPOSED 240 VOLT PANEL AND NEW STEP DOWN TRANSFORMER.

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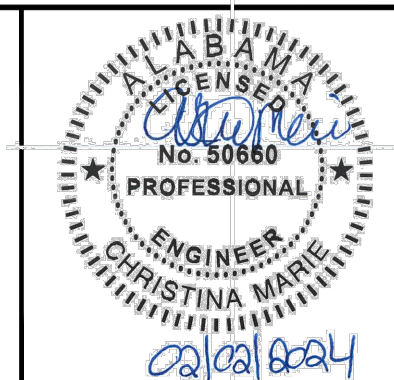


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**MEDAL OF HONOR PARK SITE
AND LIGHTING IMPROVEMENTS**

PREPARED FOR
CITY OF MOBILE

CITY OF MOBILE ALABAMA

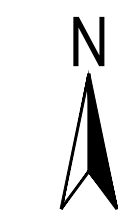
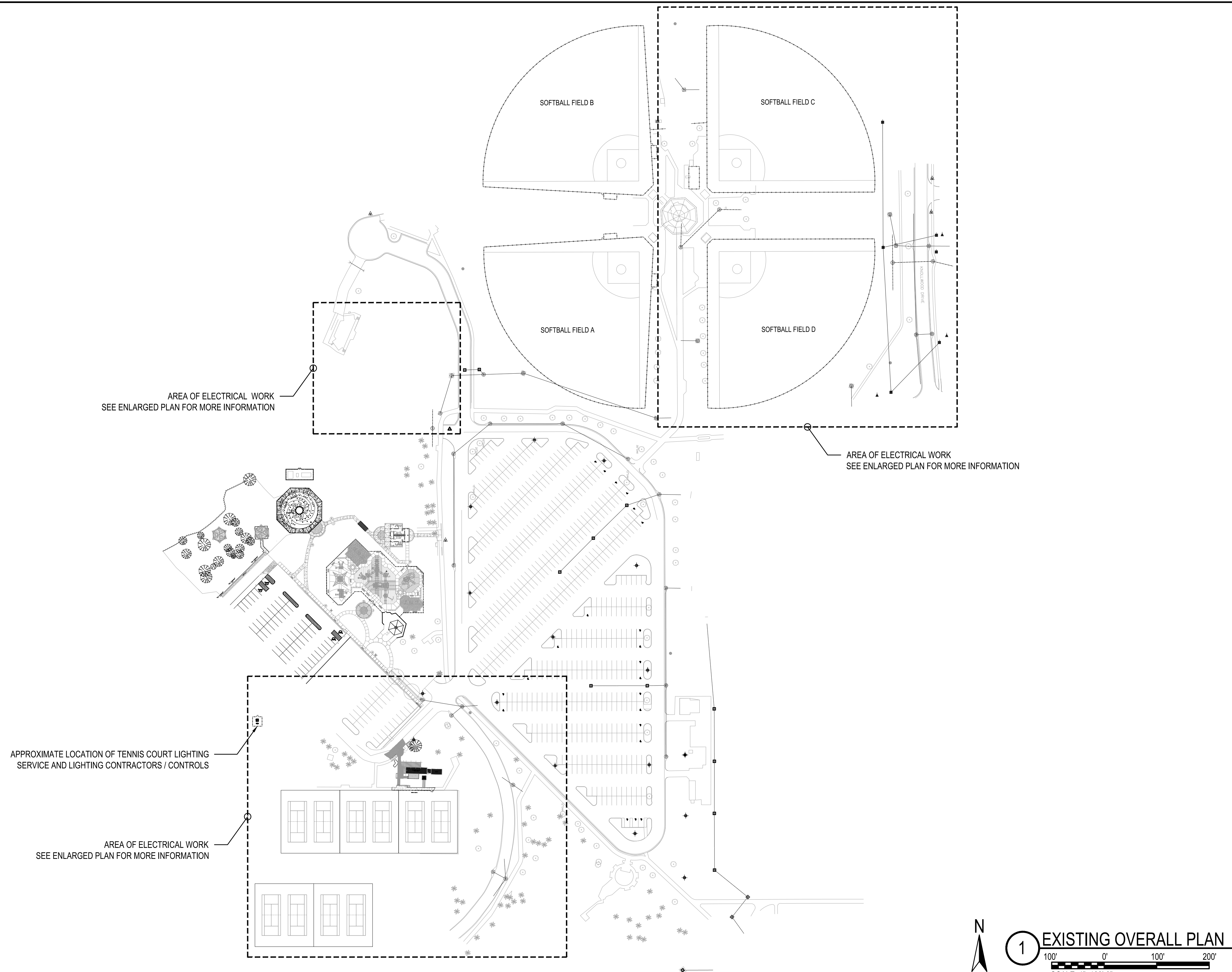


ELECTRICAL SPECIFICATIONS

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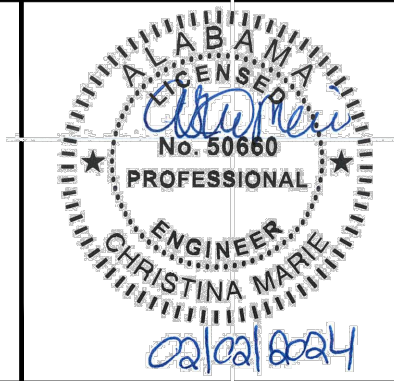
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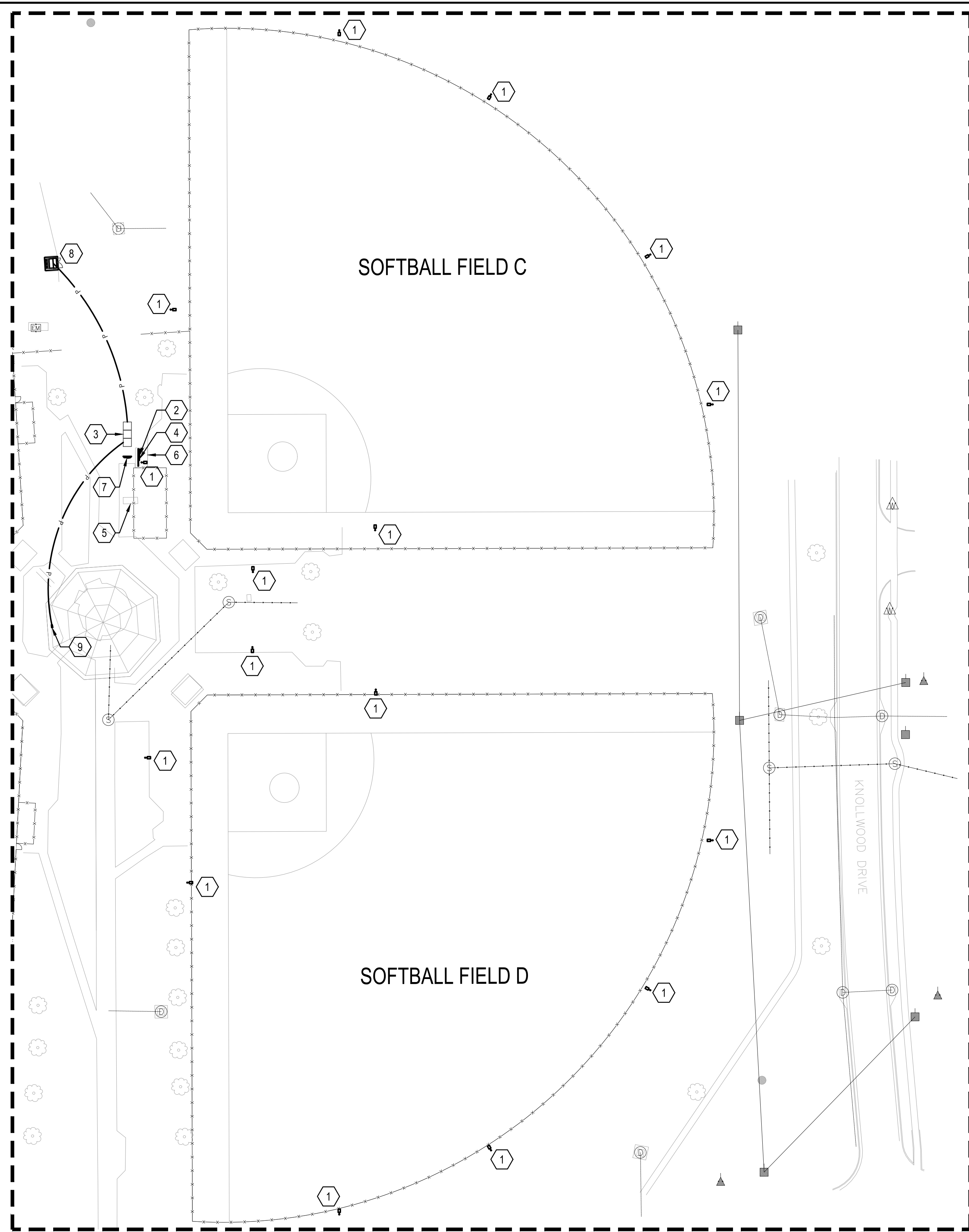
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EXISTING OVERALL PLAN

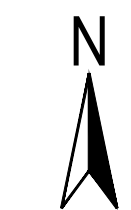
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SHEET NOTES

- 1 APPROXIMATE LOCATION OF THE EXISTING FIELD LIGHTING TO BE REMOVED AND REPLACED NEW PER THE NEW WORK LIGHTING PLAN. THE ELECTRICAL CONTRACTOR SHALL COMPLETELY REMOVE THE POLE, FIXTURE AND ALL ASSOCIATED CONDUIT, CONDUCTORS, ETC. THE POLE SHALL BE REMOVED TO AT LEAST 2' BELOW FINISHED GRADE AND BACK FILLED / TAMPED TO GRADE LEVEL.
- 2 APPROXIMATE LOCATION OF THE EXISTING SERVICE FEEDING FIELDS "C" AND "D" TO BE MODIFIED PER NEW WORK PLANS.
- 3 APPROXIMATE LOCATION OF THE EXISTING ALABAMA POWER COMPANY TRANSCLASURE TO BE REMOVED.
- 4 APPROXIMATE LOCATION OF THE EXISTING LIGHTING CONTACTORS FOR FIELDS "C" AND "D" TO BE REMOVED AND REPLACED NEW PER NEW WORK PLANS.
- 5 APPROXIMATE LOCATION OF EXISTING WELL (BEING REMOVED AS A PART OF THIS CONTRACT - REFERENCE CIVL PLANS FOR MORE INFORMATION). THE ELECTRICAL CONTRACTOR SHALL DISCONNECT AND REMOVE ALL ABANDONED ELECTRICAL EQUIPMENT AND ASSOCIATED WIRE, CONDUCTORS, ETC. RELATED TO THE WELL. FIELD COORDINATE WELL WITH OWNER PRIOR TO BEGINNING ANY WORK.
- 6 APPROXIMATE LOCATION OF EXISTING ELECTRICAL EQUIPMENT (ALABAMA POWER COMPANY METERS) AND ASSOCIATED CONCRETE PAD TO BE REMOVED AND REPLACED NEW PER NEW WORK PLANS. ALL WORK IS TO BE COORDINATED WITH ALABAMA POWER COMPANY AS REQUIRED.
- 7 APPROXIMATE LOCATION OF EXISTING ELECTRICAL EQUIPMENT TO BE COMPLETELY REMOVED. EXISTING CIRCUITS TO REMAIN SHALL BE RE-FED FROM EXISTING PANEL PER NEW WORK PLANS.
- 8 APPROXIMATE LOCATION OF EXISTING ALABAMA POWER COMPANY TRANSFORMER TO REMAIN - SEE NEW WORK PLANS FOR MORE INFORMATION.
- 9 APPROXIMATE LOCATION OF EXISTING CONCESSION BUILDING MAIN SERVICE PANEL. THE CONCESSION BUILDING IS CURRENTLY SERVED FROM THE EXISTING TRANSCLASURE TO BE REMOVED. THE EXISTING FEEDER SERVING THE EXISTING CONCESSION BUILDING IS TO BE REMOVED AND REPLACED NEW.



1 EXISTING SOFTBALL FIELD LAYOUT
 SCALE: 1"=40'-0"

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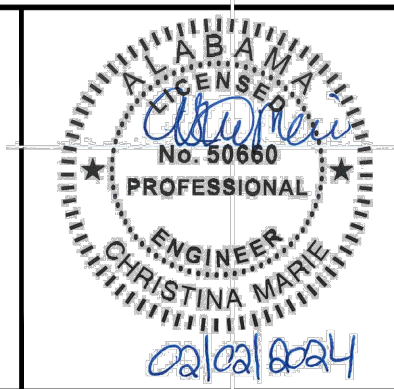
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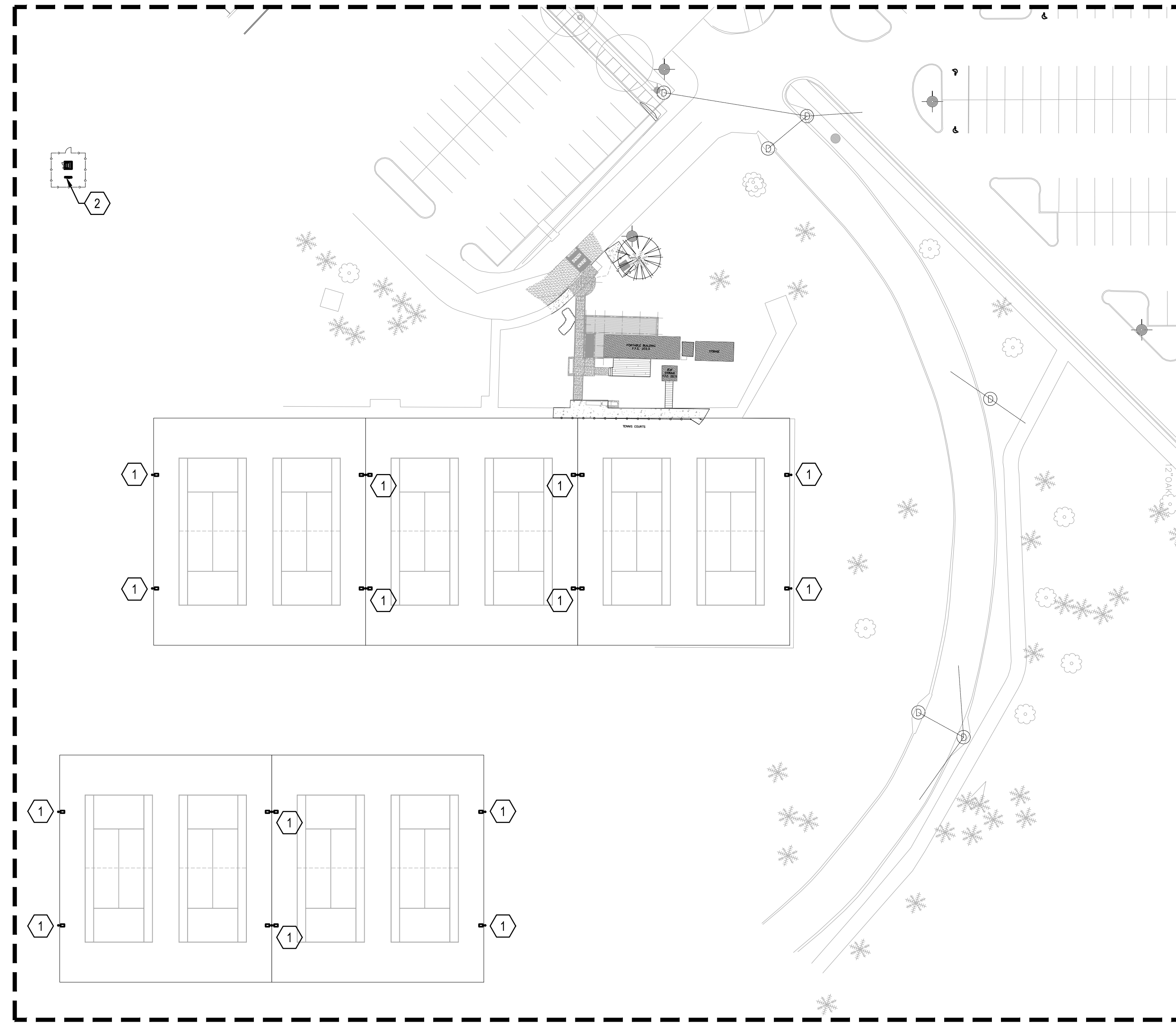
EXISTING SOFTBALL FIELD LAYOUT

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SHEET NOTES

- 1 APPROXIMATE LOCATION OF THE EXISTING TENNIS COURT LIGHTING AND MOUNTING HARDWARE IS TO BE REMOVED AND REPLACED NEW PER NEW WORK PLANS. THE EXISTING LIGHT POLE IS EXISTING TO BE REUSED FOR NEW WORK. EXISTING CIRCUIT (CONDUIT AND CONDUCTORS) IS TO BE REPLACED FROM THE NEAREST HANDHOLE TO THE NEW LIGHT FIXTURE.
- 2 APPROXIMATE LOCATION OF EXISTING TENNIS COURT LIGHTING CONTROLS TO BE REMOVED AND REPLACED NEW PER NEW WORK PLANS.



1 EXISTING TENNIS COURT LAYOUT
 40' 0' 40' 80'
 SCALE: 1"=40'-0"



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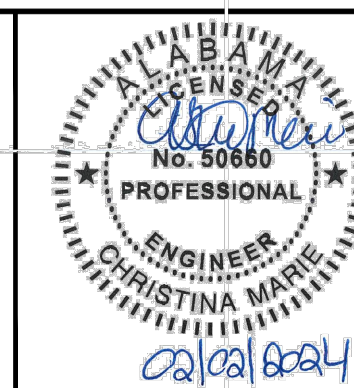
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MEDAL OF HONOR PARK SITE
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EXISTING TENNIS COURT LAYOUT

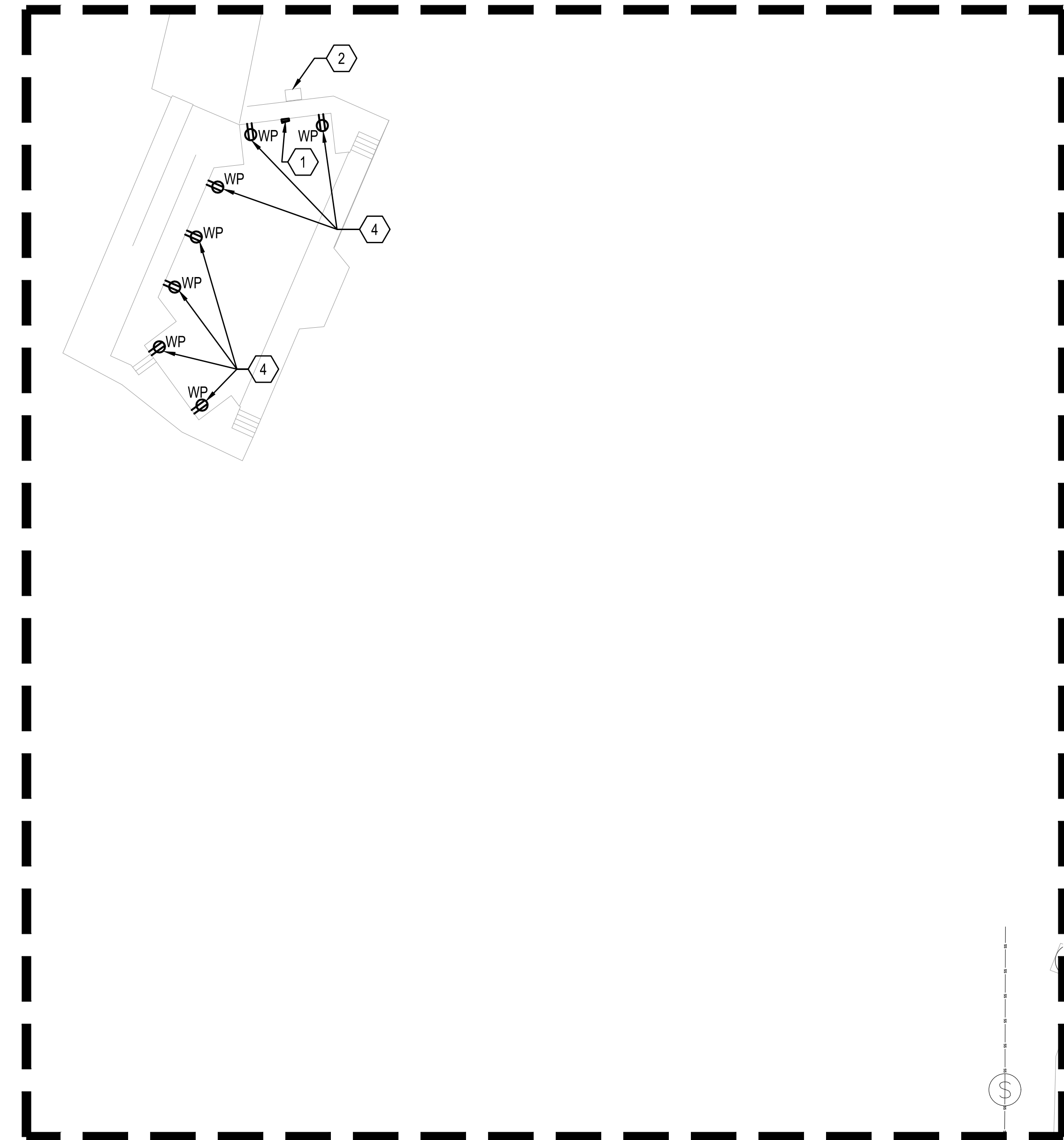
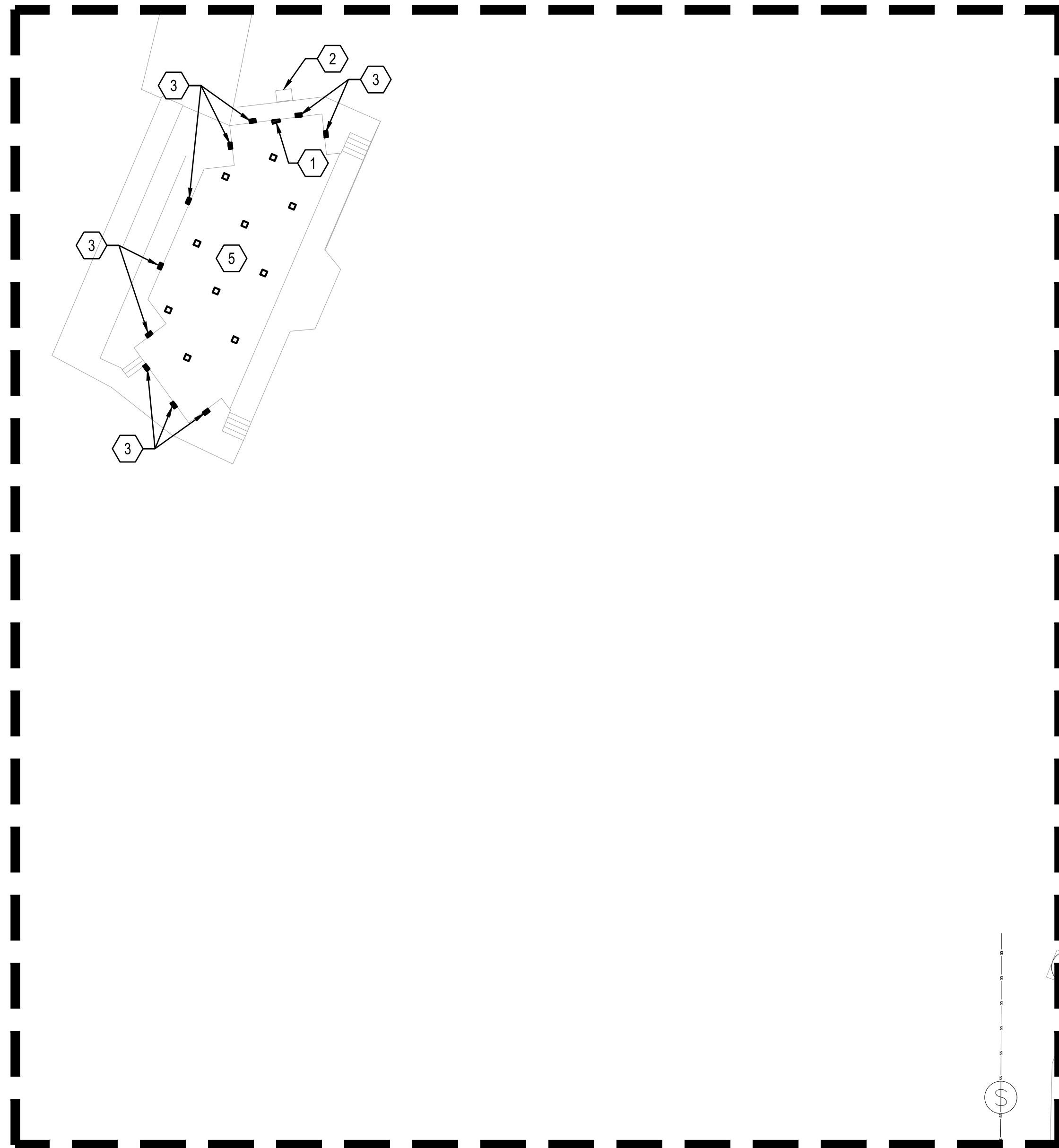
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SHEET NOTES

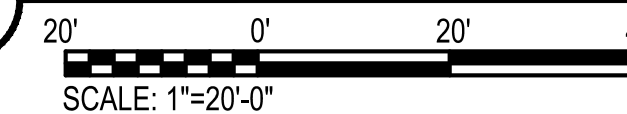
- 1 APPROXIMATE LOCATION OF EXISTING ELECTRICAL PANEL TO REMAIN.
- 2 APPROXIMATE LOCATION OF EXISTING ELECTRICAL SERVICE TO REMAIN.
- 3 APPROXIMATE LOCATION OF EXISTING EXTERIOR EGRESS LIGHT FIXTURE TO BE REPLACED PER NEW WORK PLANS.
- 4 APPROXIMATE LOCATION OF EXISTING GFCI RECEPTACLE TO BE REPLACED PER NEW WORK PLANS.
- 5 EXISTING STAGE LIGHTING TO REMAIN.



1 ADDITIVE ALTERNATE #1 -
EXISTING AMPHITHEATER LIGHTING



2 ADDITIVE ALTERNATE #1 -
EXISTING AMPHITHEATER POWER



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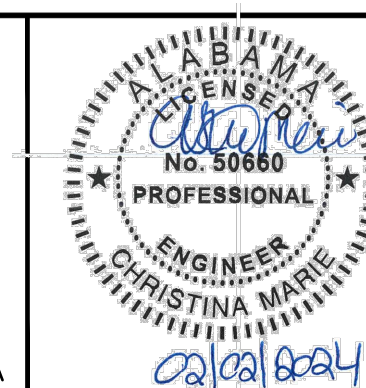
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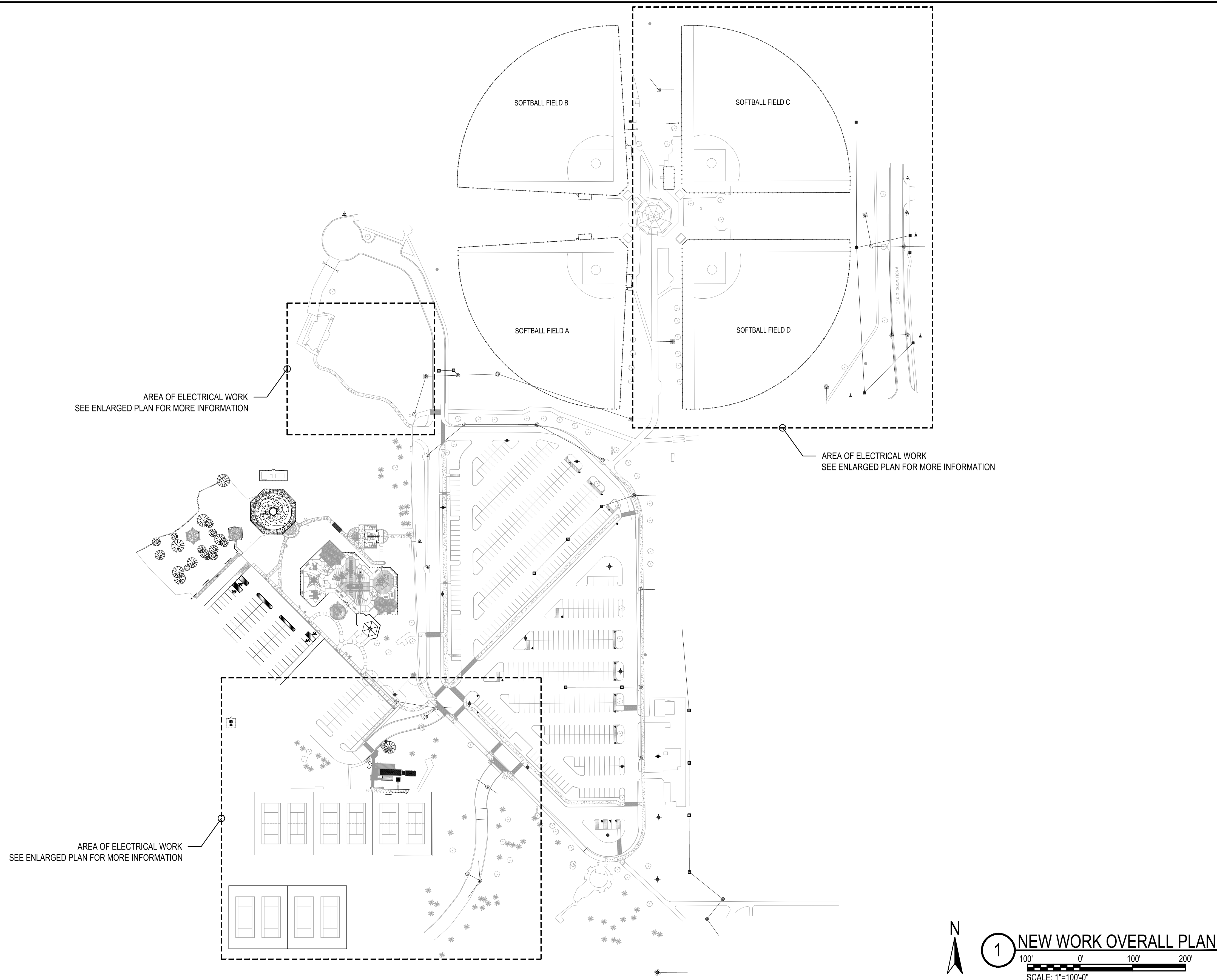
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ADDITIVE ALTERNATE #1 -
EXISTING AMPHITHEATER LAYOUT

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1
NEW WORK OVERALL PLAN
 100' 0' 100' 200'
 SCALE: 1"=100'-0"

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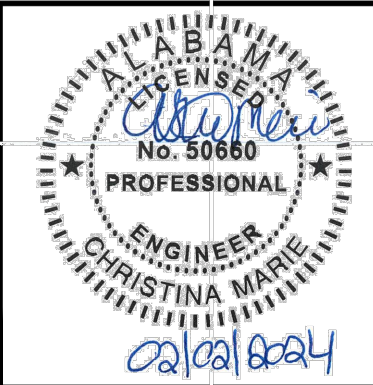
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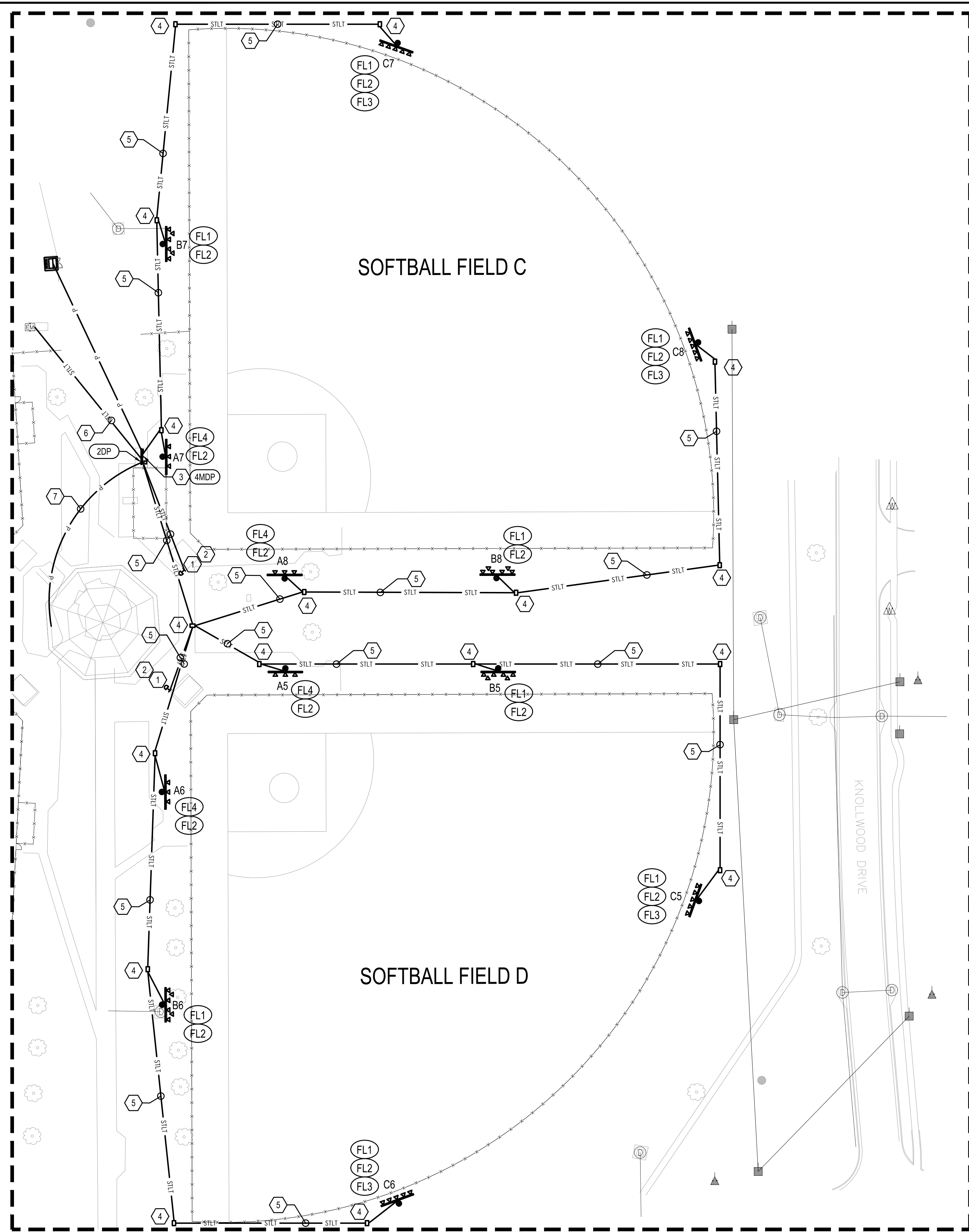
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 ALABAMA



NEW WORK OVERALL PLAN

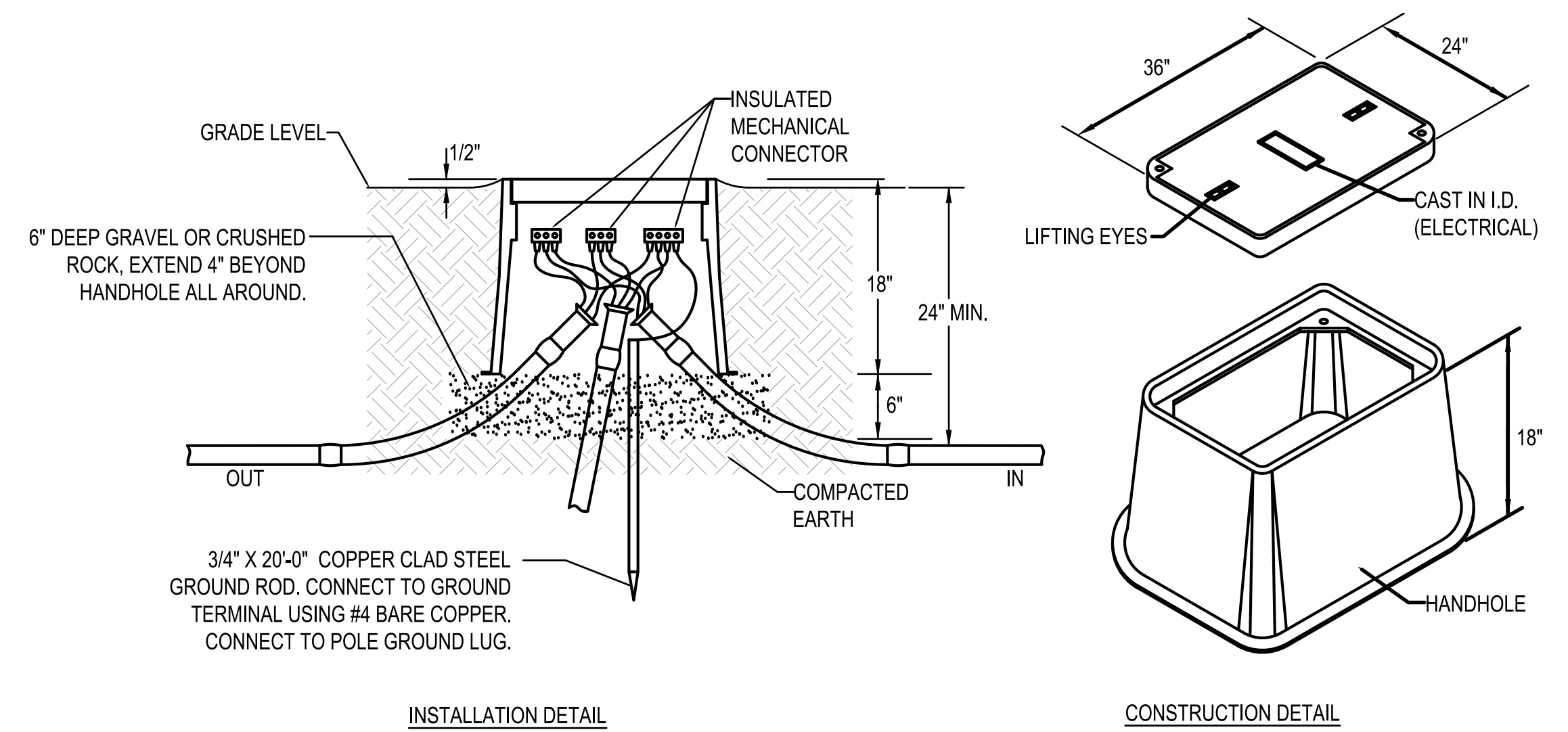
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SHEET NOTES

- 1 A MOMENTARY PUSH-BUTTON CONTROL UNIT SHALL BE PROVIDED TO ALLOW PLAYERS TO TURN THE LIGHTING SYSTEM ON OR OFF DURING TIMES ALLOWED BY OWNER. ONCE A PLAYER PUSHES THE "ON" BUTTON, THE LIGHTS WILL COME ON FOR A PRESET TIME OF 1 MINUTE TO 160 MINUTES. AT THE END OF THE SPECIFIED PERIOD, A STROBE WILL START FLASHING FOR APPROXIMATELY 3 MINUTES. DURING THIS TIME, PLAYERS WILL BE ABLE TO PUSH THE "ON" BUTTON AGAIN TO CONTINUE PLAY, OR THE LIGHTS WILL GO OFF.
- 2 THE ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL A TRANSFORMER FOR THE PUSH-BUTTON UNIT INSTALLATION.
- 3 APPROXIMATE LOCATION OF THE NEW SOFTBALL FIELD 480 VOLT PEDESTAL.
- 4 THE HANDHOLE BOXES FOR THE LIGHTING CIRCUITS ARE TO BE QUAZITE BOX #PG 2436BA24 WITH "ELECTRICAL" ENGRAVED IN THE PG2436HA00 LID. PROVIDE A MINIMUM OF 3" OF GRAVEL IN THE BOTTOM OF THE BOX.
- 5 THE ELECTRICAL CONTRACTOR IS TO PROVIDE AND INSTALL 1-1/4" CONDUITS AS REQUIRED. SEE DIAGRAM FOR MORE INFORMATION.
- 6 THE ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL A NEW 1" CONDUIT FROM THE EXISTING MUSCO CONTROL CABINET TO THE NEW MUSCO CONTROL CABINET.
- 7 THE EXISTING CONCESSION BUILDING IS TO BE SERVED BY A NEW BREAKER FROM THE EXISTING 120/240 3Ø PANEL MOUNTED ON THE NEW PEDESTAL. SEE SINGLE LINE RISER DIAGRAM FOR MORE INFORMATION. SEE SINGLE LINES RISER DIAGRAM FOR MORE INFORMATION.



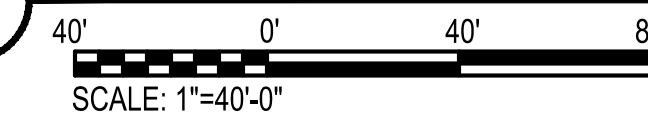
HANDHOLE NOTES:

1. HANDHOLE SHALL HAVE LOGO CAST IN COVER (LOGO=ELECTRICAL). INSTALL IN ACCORDANCE WITH THE MANUFACTURER'S PRINTED INSTRUCTIONS AND THESE REQUIREMENTS.
2. TERMINATE CONDUITS ENTERING HANDHOLE WITH END BELL. CONSTRUCT CONDUIT RISE TO ENTER BOX FROM SIDE WITH 22-1/2" SWEEP ELBOWS.
3. CONDUITS ENTERING AND LEAVING HANDHOLE SHALL BE SEALED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE ARTICLES 514 AND 501.15.

2 ELECTRICAL HANDHOLE DETAIL

NOT TO SCALE

1 NEW WORK SOFTBALL FIELD LAYOUT



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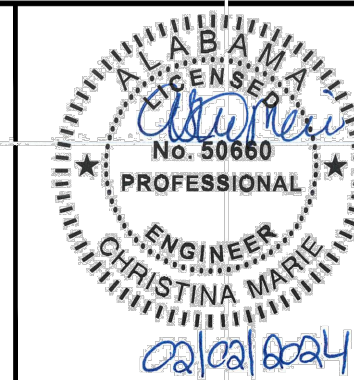
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CITY OF MOBILE



ALABAMA

NEW WORK SOFTBALL FIELD LAYOUT

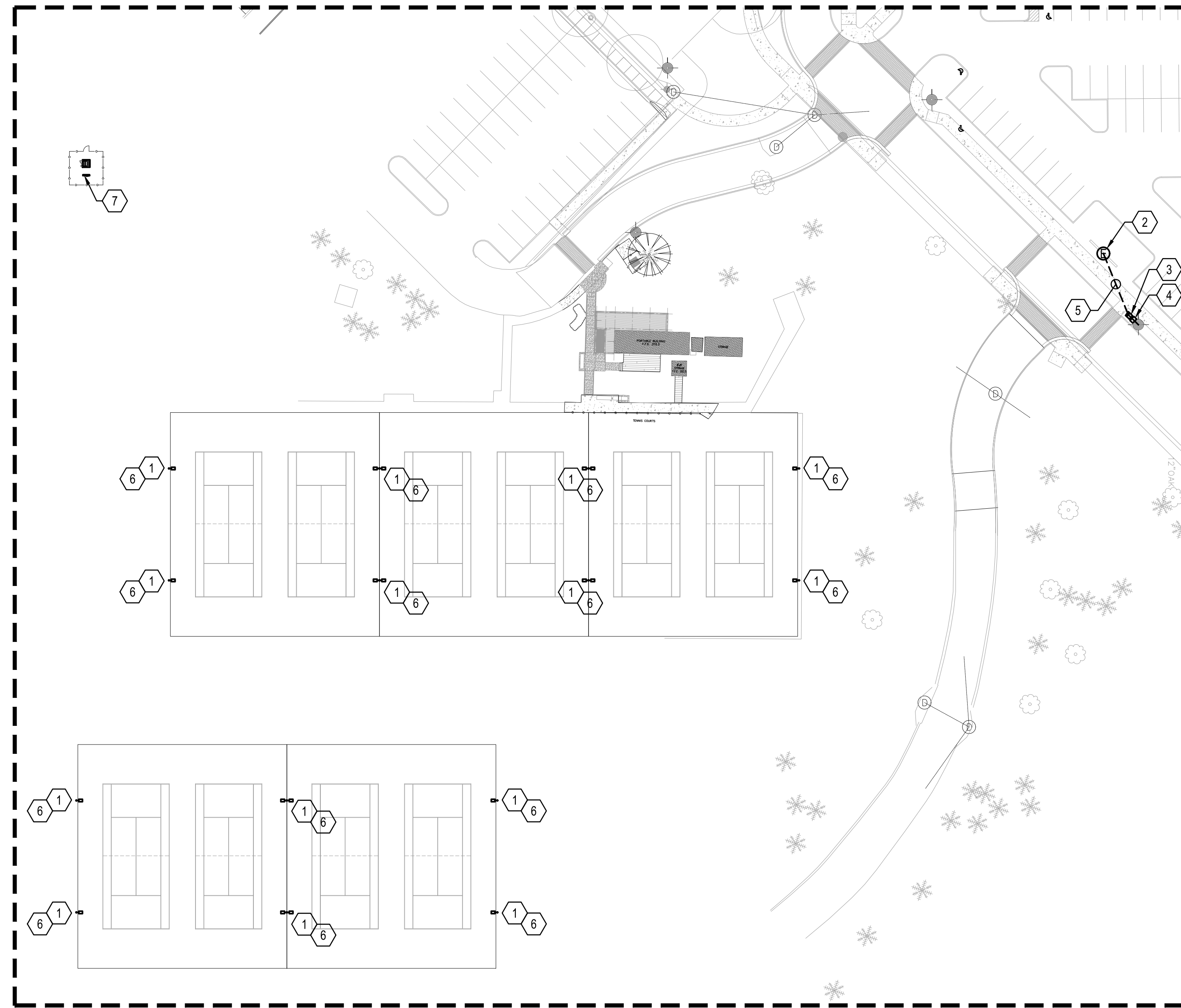
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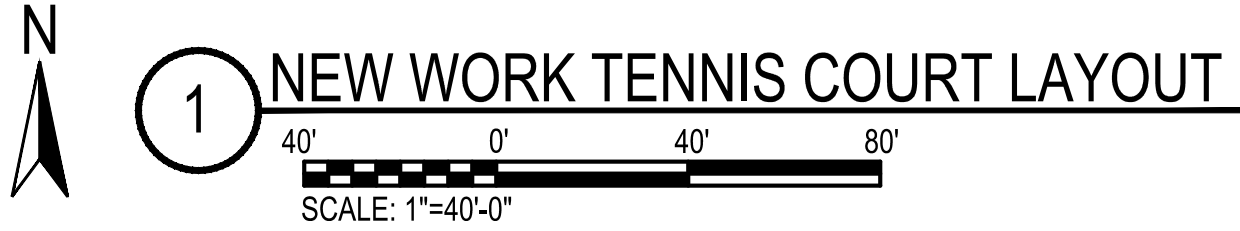
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SHEET NOTES

- 1 THE CONTRACTOR SHALL PROVIDE, MODIFY AND INSTALL NEW MOUNTING HARDWARE AS REQUIRED BY THE MANUFACTURER FOR A FULL AND CLEAN INSTALLATION OF NEW FIXTURES.
- 2 APPROXIMATE LOCATION OF NEW ENTRANCE SIGN. THE ELECTRICAL CONTRACTOR SHALL FIELD COORDINATE FINAL LOCATION AND POWER REQUIREMENTS OF NEW SIGN WITH SIGN PROVIDER / INSTALLER AND ADJUST AS REQUIRED BY MANUFACTURER.
- 3 THE ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL A NEW 3KVA, 1Ø, 480V PRIMARY TO 120/240 VOLT SECONDARY MIN POWER ZONE SUBSTATION - SQUARE D MPU3S40F OR APPROVED EQUAL TO SERVE THE NEW SIGN.
- 4 THE CONTRACTOR SHALL DIG DOWN AND INTERCEPT THE EXISTING LIGHT POLE CIRCUIT. THE CONTRACTOR SHALL PROVIDE AND INSTALL A QUAZITE BOX HANDHOLE AT THE LOCATION AND CONNECT THE NEW MINI POWER ZONE TO THE EXISTING CIRCUIT USING INSULATED MECHANICAL LUGS. THE ELECTRICAL CONTRACTOR SHALL SERVE THE NEW MINI POWER ZONE WITH NEW 3#12, #12G IN 3/4" CONDUIT A MINIMUM OF 24" BELOW FINISHED GRADE.
- 5 THE ELECTRICAL CONTRACTOR SHALL SERVE THE NEW SIGN WITH NEW 3#12, #12G IN 3/4" CONDUIT A MINIMUM OF 24" BELOW FINISHED GRADE.
- 6 THE ELECTRICAL CONTRACTOR SHALL PROVIDE NEW CONDUIT AND CONDUCTORS (#8, #8G) FROM THE NEAREST HANDHOLE TO THE NEW LIGHT FIXTURE.
- 7 APPROXIMATE LOCATION OF NEW CONTACTOR CABINET. THE PARKING LOT LIGHTING CIRCUIT SHALL BE ROUTED THROUGH THE NEW LIGHTING CONTROL CABINET

NOTE:
 THE ELECTRICAL CONTRACTOR SHALL COORDINATE ALL ASPECTS OF THE INSTALLATION OF THE NEW MUSCO SYSTEM WITH MUSCO PRIOR TO BEGINNING ANY WORK. THE NEW SYSTEM IS TO BE INSTALL PER THE DIRECTION AND RECOMMENDATION OF MUSCO.



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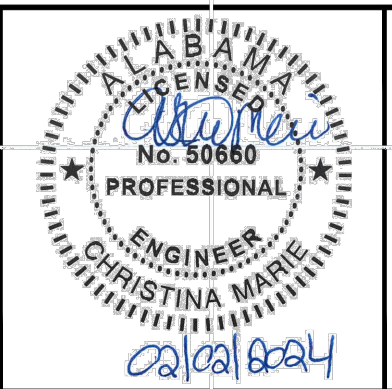
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KHA PROJECT 142920003
DATE FEBRUARY 05, 2024
SCALE AS SHOWN
DESIGNED BY: CM
DRAWN BY: CM
CHECKED BY: AWM

MEDAL OF HONOR PARK SITE
 AND LIGHTING IMPROVEMENTS

PREPARED FOR
CITY OF MOBILE

CITY OF MOBILE ALABAMA



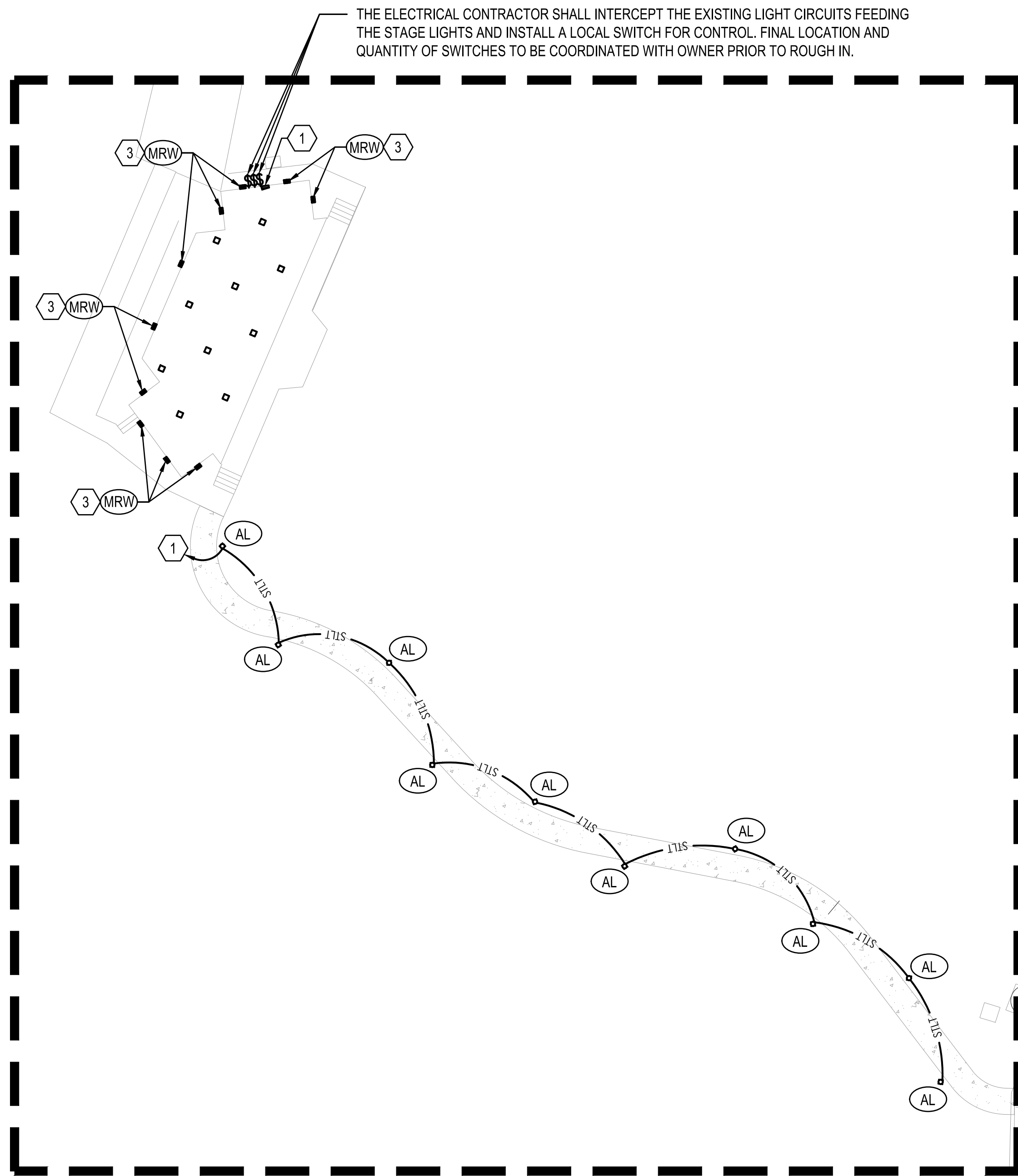
NEW WORK TENNIS COURT LAYOUT

SHEET NUMBER
E3.2

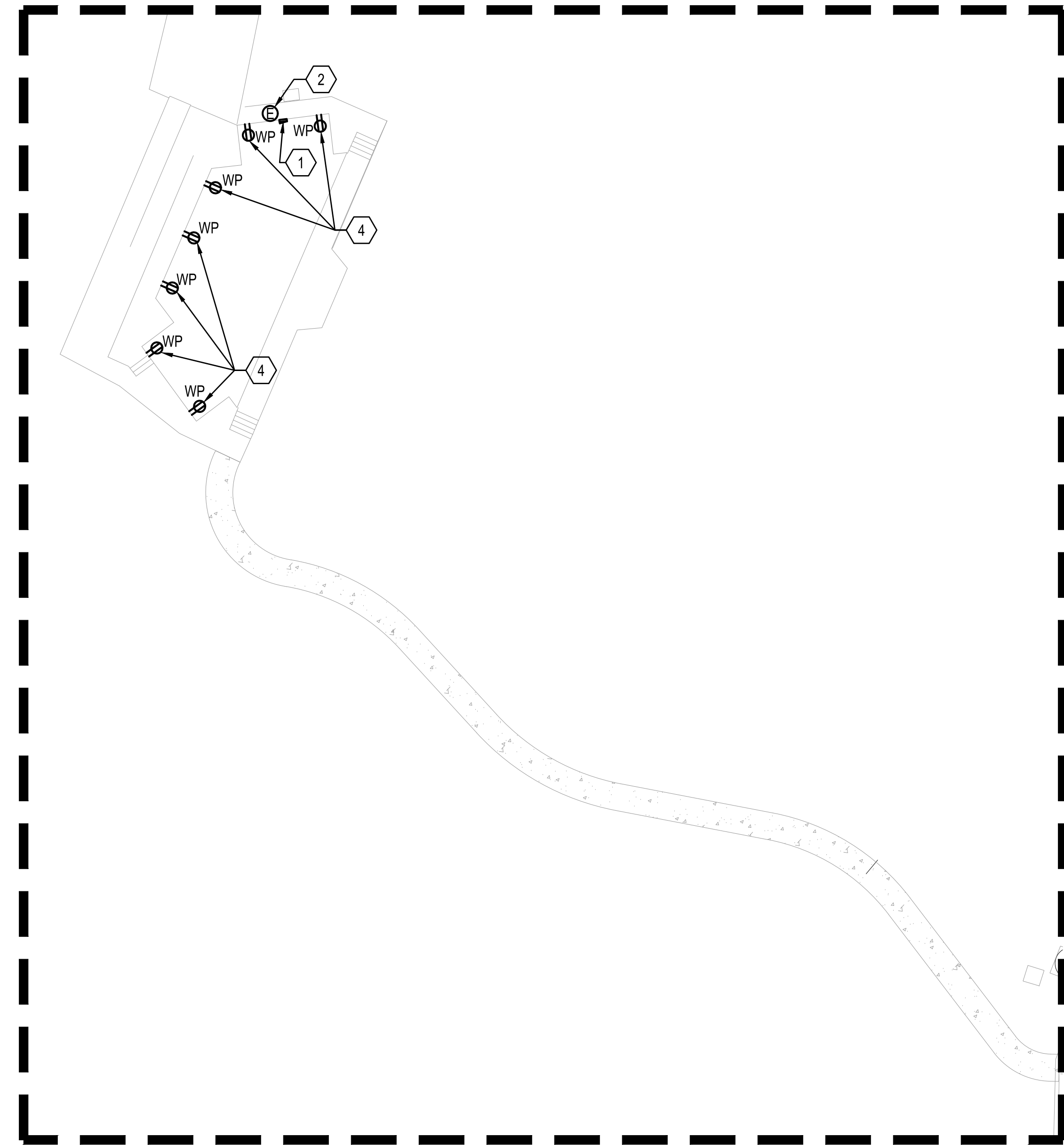
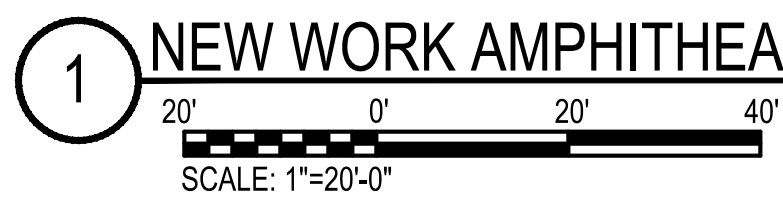
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SHEET NOTES

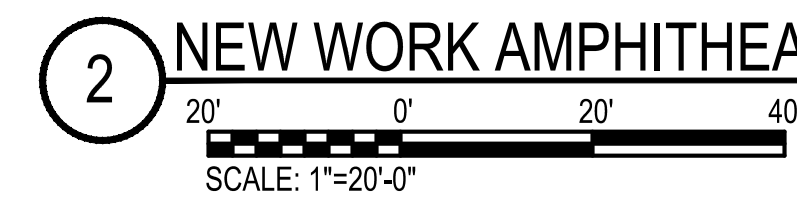
- 1 THE ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL 2#10, #10G IN 3/4" CONDUIT FOR THE NEW PATHWAY LIGHTING. THE CONTRACTOR SHALL SERVE THE NEW LIGHTS FROM AN EXISTING 20/1 SPARE BREAKER IN THE EXISTING PANEL.
- 2 APPROXIMATE LOCATION OF NEW IRRIGATION CONTROLS. THE ELECTRICAL CONTRACTOR SHALL FIELD VERIFY EXACT LOCATION PRIOR TO ROUGH IN. THE CONTRACTOR SHALL SERVE THE NEW IRRIGATION CONTROLS FROM AN EXISTING 20/1 SPARE BREAKER IN THE EXISTING PANEL.
- 3 THE NEW LIGHTING FIXTURE IS TO BE RECONNECTED TO THE EXISTING CIRCUIT.
- 4 THE ELECTRICAL CONTRACTOR SHALL REPLACE THE EXISTING DEVICE AND COVER WITH A NEW GFCI DEVICE WITH NEW DIECAST WEATHERPROOF (IN-USE) COVERPLATE. THE NEW RECEPTACLE IS TO BE RECONNECTED TO THE EXISTING CIRCUIT.



ADDITIVE ALTERNATE #1 - NEW WORK AMPHITHEATER LIGHTING



ADDITIVE ALTERNATE #1 - NEW WORK AMPHITHEATER POWER



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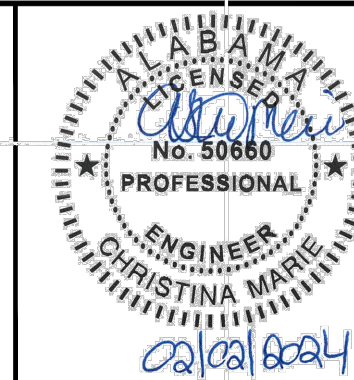
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ALABAMA



ADDITIVE ALTERNATE #1-
NEW WORK AMPHITHEATER LAYOUT

SHEET NUMBER

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PANELBOARD SCHEDULE													
MARK: EXISTING ZDP													
CKT #	LOAD DESCRIPTION	BREAKER		PHASE (kVA)			PHASE (kVA)			BREAKER		LOAD DESCRIPTION	CKT #
		P	TRIP	A	B	C	A	B	C	TRIP	P		
1												2	
3	OCCUPIED BREAKER	3	40							20	3	OCCUPIED BREAKER	4
5													6
7													8
9	OCCUPIED BREAKER	3	40							20	3	OCCUPIED BREAKER	10
11													12
13													14
15	OCCUPIED BREAKER	3	40							20	3	OCCUPIED BREAKER	16
17													18
19													20
21	OCCUPIED BREAKER	3	40							20	3	OCCUPIED BREAKER	22
23													24
25													26
27	OCCUPIED BREAKER	3	40							50	3	OCCUPIED BREAKER	28
29													30
31													32
33	OCCUPIED BREAKER	3	50							50	3	OCCUPIED BREAKER	34
35													36
37												SPACE	38
39	OCCUPIED BREAKER	3	90									SPACE	40
41										20	1	SPACE	42

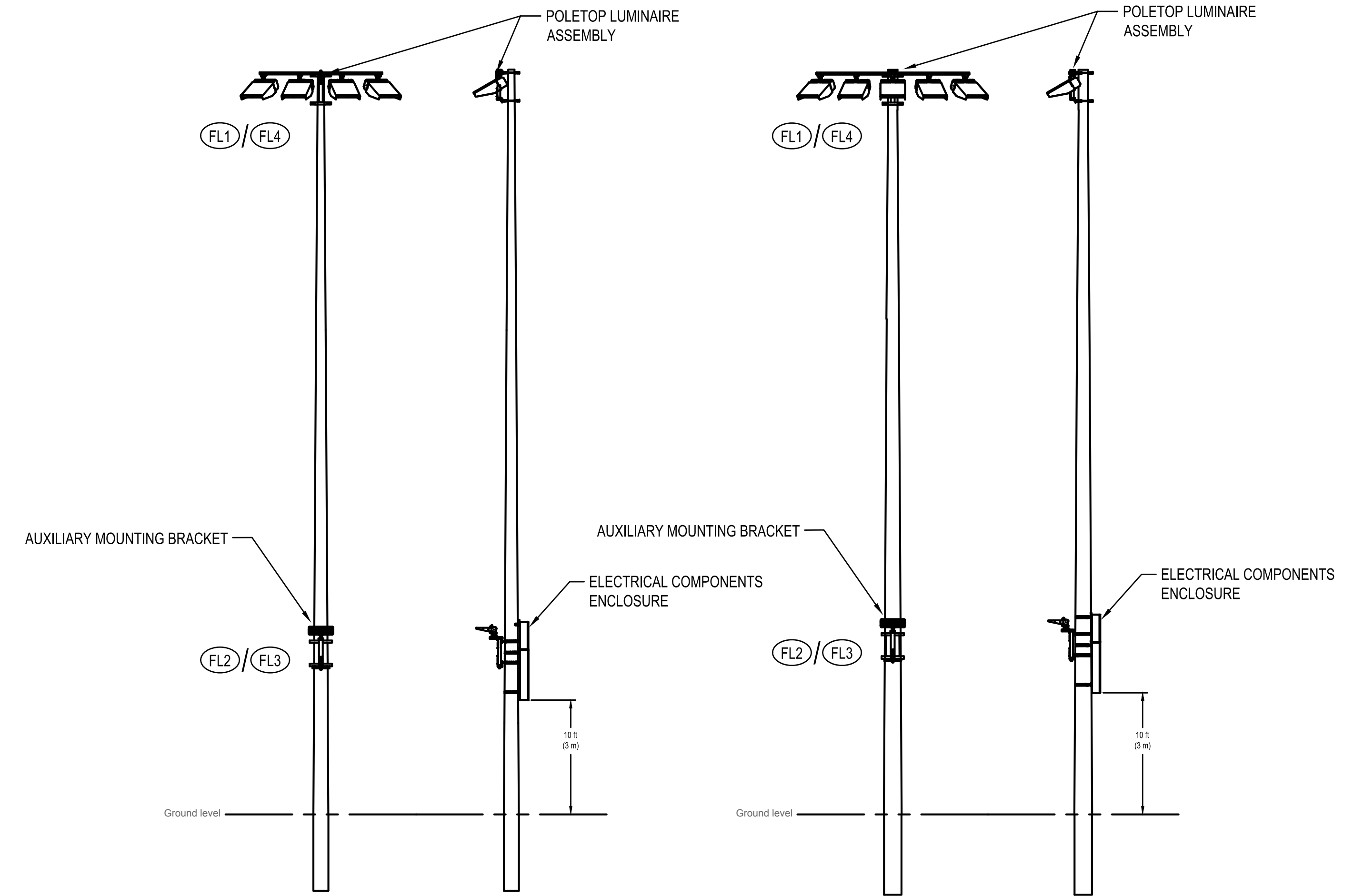
TOTAL (kVA) ØA _____ ØB _____ ØC _____ HIGH PHASE (AMPS) _____
TOTAL CONNECTED LOAD (kVA) _____ TOTAL LOAD (AMPS) _____

CREATE A DIRECTORY TO INDICATE INSTALLED LOADS. INDICATE LOAD TYPE (REC, LTG, AHU-1, ETC.) AND ROOM NUMBERS SERVED FOR EVERY BRANCH CIRCUIT.

PANELBOARD SCHEDULE													
MARK: MODIFIED ZDP													
CKT #	LOAD DESCRIPTION	BREAKER		PHASE (kVA)			PHASE (kVA)			BREAKER		LOAD DESCRIPTION	CKT #
		P	TRIP	A	B	C	A	B	C	TRIP	P		
1				11.0								2	
3	EXISTING CONCESSION PANEL	3	100		11.0					20	3	SPARE	4
5						11.0							6
7													8
9	SPARE	3	40							20	3	SPARE	10
11													12
13													14
15	SPARE	3	40							20	3	SPARE	16
17													18
19													20
21	SPARE	3	40							20	3	SPARE	22
23													24
25													26
27	SPARE	3	40							50	3	SPARE	28
29													30
31													32
33	SPARE	3	50							50	3	SPARE	34
35													36
37												SPACE	38
39	SPARE	3	90									SPACE	40
41										20	1	SPACE	42

TOTAL (kVA) ØA 11.0 ØB 11.0 ØC 11.0 HIGH PHASE (AMPS) 91.7
TOTAL CONNECTED LOAD (kVA) 33.0 TOTAL LOAD (AMPS) 79.4

CREATE A DIRECTORY TO INDICATE INSTALLED LOADS. INDICATE LOAD TYPE (REC, LTG, AHU-1, ETC.) AND ROOM NUMBERS SERVED FOR EVERY BRANCH CIRCUIT.



1 LIGHT POLE DETAIL
NOT TO SCALE

LIGHTING FIXTURE SCHEDULE							
MARK	MANUFACTURER AND CATALOG NUMBER	TOTAL		VOLTAGE	MOUNTING	NOTES	
		TYPE	WATTS				WATTS
FL1	MUSCO LIGHTING TLC-LED-1200-LED 5700K-75CRI	LED	1170	1170	MVOLT SURFACE	POLE MOUNTED LED SPORTS LIGHTING FIXTURE	
FL2	MUSCO LIGHTING TLC-BT-575-LED 5700K-75CRI	LED	575	575	MVOLT SURFACE	POLE MOUNTED LED SPORTS LIGHTING FIXTURE	
FL3	MUSCO LIGHTING TLC-RGB-U	LED	430	430	MVOLT SURFACE	COLOR CHANGING POLE MOUNTED LED SPORTS LIGHTING FIXTURE	
FL4	MUSCO LIGHTING TLC-LED-900-LED 5700K-75CRI	LED	890	890	MVOLT SURFACE	POLE MOUNTED LED SPORTS LIGHTING FIXTURE	

NOTES: FIXTURES WITH HALF FILLED IN CENTER SHALL BE PROVIDED WITH AN EMERGENCY BALLAST, 1100 LUMENS OR THE MAXIMUM AVAILABLE FOR THE FIXTURE.
PROVIDE ALL MOUNTING HARDWARE, SUPPORTS, ETC. AS REQUIRED FOR A COMPLETE INSTALLATION.
COORDINATE FINAL FIXTURE SELECTION WITH OWNER / ARCHITECT PRIOR TO ORDER.

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MEDAL OF HONOR PARK SITE AND LIGHTING IMPROVEMENTS
PREPARED FOR
CITY OF MOBILE
CITY OF MOBILE ALABAMA



ELECTRICAL DETAILS

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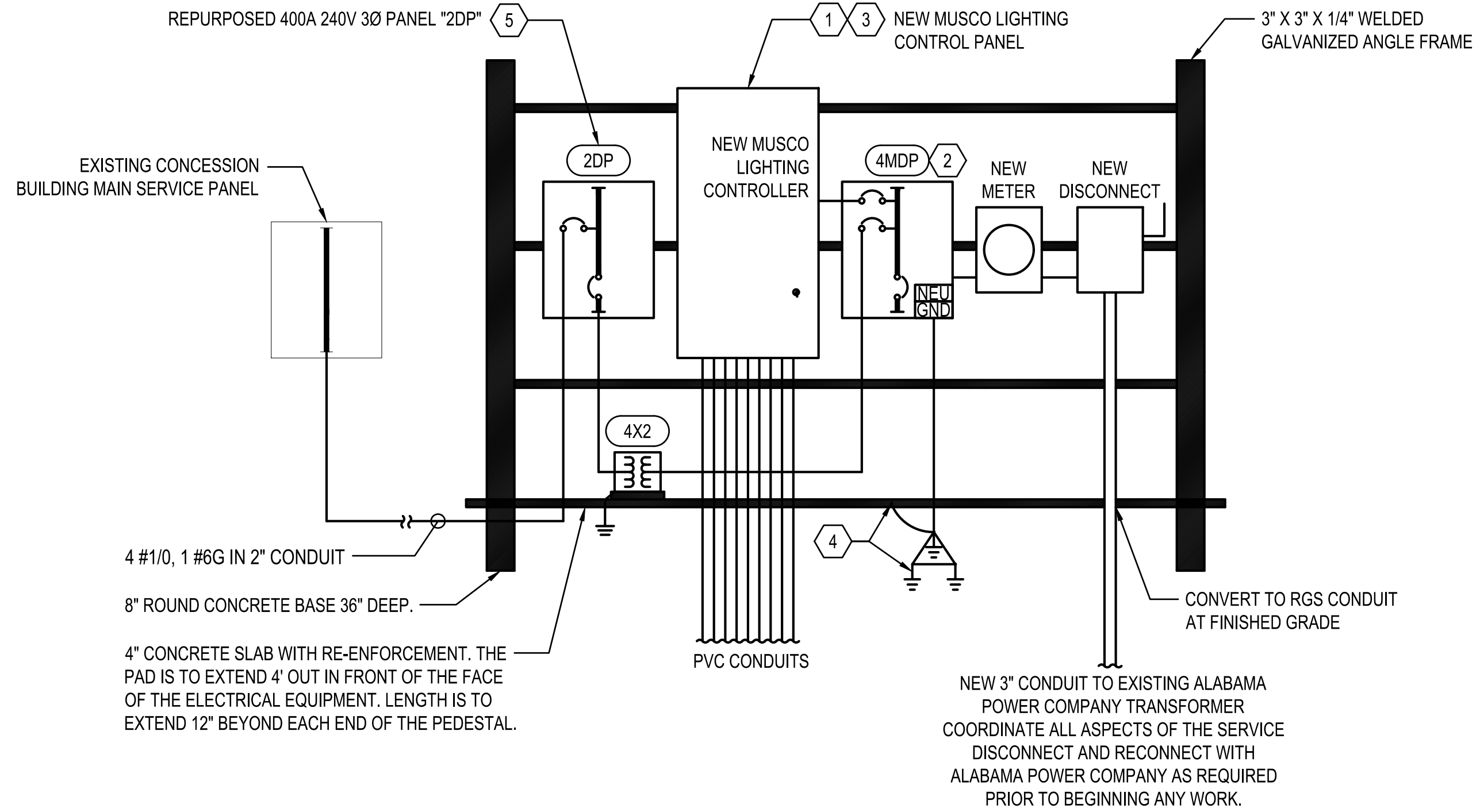
EXISTING MUSCO LIGHTING CONTROLLER TO BE REMOVED AND REPLACED NEW PER NEW WORK PLANS

EXISTING 400A 240V 3Ø LIGHTING PANEL "2DP" TO BE RE-PURPOSED FOR NEW WORK:
 FOR CIRCUIT BEING COMPLETELY REMOVED: THE ELECTRICAL CONTRACTOR SHALL COMPLETELY REMOVE ALL ASSOCIATED CONDUIT AND CONDUCTORS AND LABEL BREAKERS AS "SPARE".
 FOR CIRCUITS THAT ARE EXISTING TO REMAIN: THE CONTRACTOR SHALL LABEL THE BREAKER FOR THE LOAD BEING SERVED.

EXISTING FEEDER TO BE DISCONNECTED, REMOVED AND REPLACED NEW PER NEW WORK PLANS

TO EXISTING LIGHT POLE ON FIELD "D" → TO EXISTING LIGHT POLE ON FIELD "C"
 TO EXISTING LIGHT POLE ON FIELD "D" → TO EXISTING LIGHT POLE ON FIELD "C"
 TO EXISTING LIGHT POLE ON FIELD "D" → TO EXISTING LIGHT POLE ON FIELD "C"
 TO EXISTING LIGHT POLE ON FIELD "D" → TO EXISTING LIGHT POLE ON FIELD "C"
 TO EXISTING LIGHT POLE ON FIELD "D" → TO EXISTING LIGHT POLE ON FIELD "C"
 TO EXISTING LIGHT POLE ON FIELD "D" → TO EXISTING LIGHT POLE ON FIELD "C"
 TO EXISTING LIGHT POLE ON FIELD "D" → TO EXISTING LIGHT POLE ON FIELD "C"

1 EXISTING FIELD "C" & "D" SINGLE LINE RISER DIAGRAM
 NOT TO SCALE



2 NEW WORK FIELD "C" & "D" SINGLE LINE RISER DIAGRAM
 NOT TO SCALE

SHEET NOTES

- 1 THE ELECTRICAL CONTRACTOR IS TO PROVIDE AND INSTALL A NEW 3/4" X 20' COPPER CLAD GROUND ROD AND CONNECT TO THE NEW SERVICE ENTRANCE PANEL. BOND THE PANEL TO THE GROUND ROD AND ENCLOSURE WITH A #1/0 TINNED COPPER STRANDED CONDUCTOR.
- 2 THE ELECTRICAL CONTRACTOR IS TO PROVIDE AND INSTALL A NEW 200 AMP NEMA 3R COPPER BUSS BOTTOM FED MAIN BREAKER 14,000 AIC 42 CIRCUIT PANELBOARD. THE ELECTRICAL CONTRACTOR IS TO LABEL THE PANELBOARD IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE ARTICLE 110.24 - 8,900 AMPS AVAILABLE FAULT CURRENT.
- 3 THE ELECTRICAL CONTRACTOR IS TO PROVIDE AND INSTALL NEW LIGHTING CONTROLS AND CONNECT TO THE EXISTING CONDUCTORS TO EACH POLE AS REQUIRED. A BUTTON TO ENERGIZE THE LIGHTING FOR A PRESET TIME IS TO BE INSTALLED ON THE PEDESTAL.
- 4 #1/0 GROUND ELECTRODE CONDUCTOR TO THREE 3/4" X 20' COPPER CLAD GROUND RODS SPACE IN A 20' EQUILATERAL TRIANGLE. BOND TO CONCRETE PAD REBAR.
- 5 THE CONTRACTOR SHALL INVESTIGATE THE LOADS BEING SERVED FROM THE EXISTING PANEL TO BECOME FAMILIAR WITH WHICH CIRCUITS ARE TO REMAIN AND WHICH ARE BEING COMPLETELY REMOVED.

PANELBOARD INFORMATION SCHEDULE														
MARK	ENCLOSURE TYPE	MOUNTING STYLE	VOLTAGE	Ø	WIRE	MAIN BKR	IF MLO, SERVING BKR	SERVICE RATED	KAIC RATING	Ø BUS RATING (A)	N BUS RATING	FEEDER		
												CONDUCTORS	GROUND	CONDUIT
4MDP	NEMA 3R	SURFACE	480Y/277	3	4	200	N/A	YES	14	200	100%	4#3/0	NONE	3"C
2DP*	NEMA 3R	SURFACE	120/240	3	4	200	N/A	NO	10	200	200%	4#3/0	#6	3"C
NOTES:		ALL PANELBOARDS ARE TO HAVE COPPER BUS.												
		ALL PANELBOARDS ARE TO HAVE ARC FLASH WARNING LABEL IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE ARTICLE 110.16.												
		* THIS IS AN EXISTING PANEL TO BE REFEED FROM NEW TRANSFORMER 4X2.												

PANELBOARD SCHEDULE															
MARK: PANEL 4MDP															
CKT #	LOAD DESCRIPTION	BREAKER		PHASE (kVA)			PHASE (kVA)			BREAKER		LOAD DESCRIPTION		CKT #	
		P	TRIP	A	B	C	A	B	C	TRIP	P				
1				1.4			1.4							2	
3	FIELD C LIGHTS	3	20		1.4			1.4			20	3	FIELD D LIGHTS	4	
5						1.4				1.4				6	
7				2.5			2.5							8	
9	FIELD C LIGHTS	3	20		2.5			2.5			20	3	FIELD D LIGHTS	10	
11						2.5				2.5				12	
13				2.3			2.3							14	
15	FIELD C LIGHTS	3	20		2.3			2.3			20	3	FIELD D LIGHTS	16	
17						2.3				2.3				18	
19				1.4			1.4							20	
21	FIELD C LIGHTS	3	20		1.4			1.4			20	3	FIELD D LIGHTS	22	
23						1.4				1.4				24	
25				2.5			2.5							26	
27	FIELD C LIGHTS	3	20		2.5			2.5			20	3	FIELD D LIGHTS	28	
29						2.5				2.5				30	
31				2.3			2.3							32	
33	FIELD C LIGHTS	3	20		2.3			2.3			20	3	FIELD D LIGHTS	34	
35						2.3				2.3				36	
37	LIGHTING CONTROL PANEL	1	20	0.1			25.0							38	
39	SPARE	1	20							25.0			TRANSFORMER 4X2 TO SERVE EXISTING PANEL 2DP	40	
41	SPARE	1	20							25.0				42	
				12.5	12.4	12.4	37.4	37.4	37.4						
				TOTAL (kVA) ØA	49.9	ØB	49.8	ØC	49.8			HIGH PHASE (AMPS)		180.1	
				TOTAL CONNECTED LOAD (kVA)			149.5					TOTAL LOAD (AMPS)		179.8	

CREATE A DIRECTORY TO INDICATE INSTALLED LOADS. INDICATE LOAD TYPE (REC, LTG, AHU-1, ETC.) AND ROOM NUMBERS SERVED FOR EVERY BRANCH CIRCUIT.

TRANSFORMER SCHEDULE										
MARK	PRIMARY VOLTAGE	SECONDARY VOLTAGE	Ø	WIRE	KVA	*MNT	**TYPE	PRIMARY FEEDER SIZE	SIZE GEC TO 3/4"X10" GND ROD	SIZE GEC TO FOUNDATION REBAR, WATER & BLDG STEEL
4X2	480 DELTA	120/240	3	4	75	FLR	STD	3#1,#6G,1 1/2"C	#2	#2
*MNT:		FLR=FLOOR MOUNTED, PROVIDE CONCRETE BASE.								
**TYPE:		STD=STANDARD PER SPECIFICATIONS.								
SEE TRANSFORMER MOUNTING DETAIL.										



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MEDAL OF HONOR PARK SITE
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CITY OF MOBILE



ALABAMA

ELECTRICAL SCHEDULES

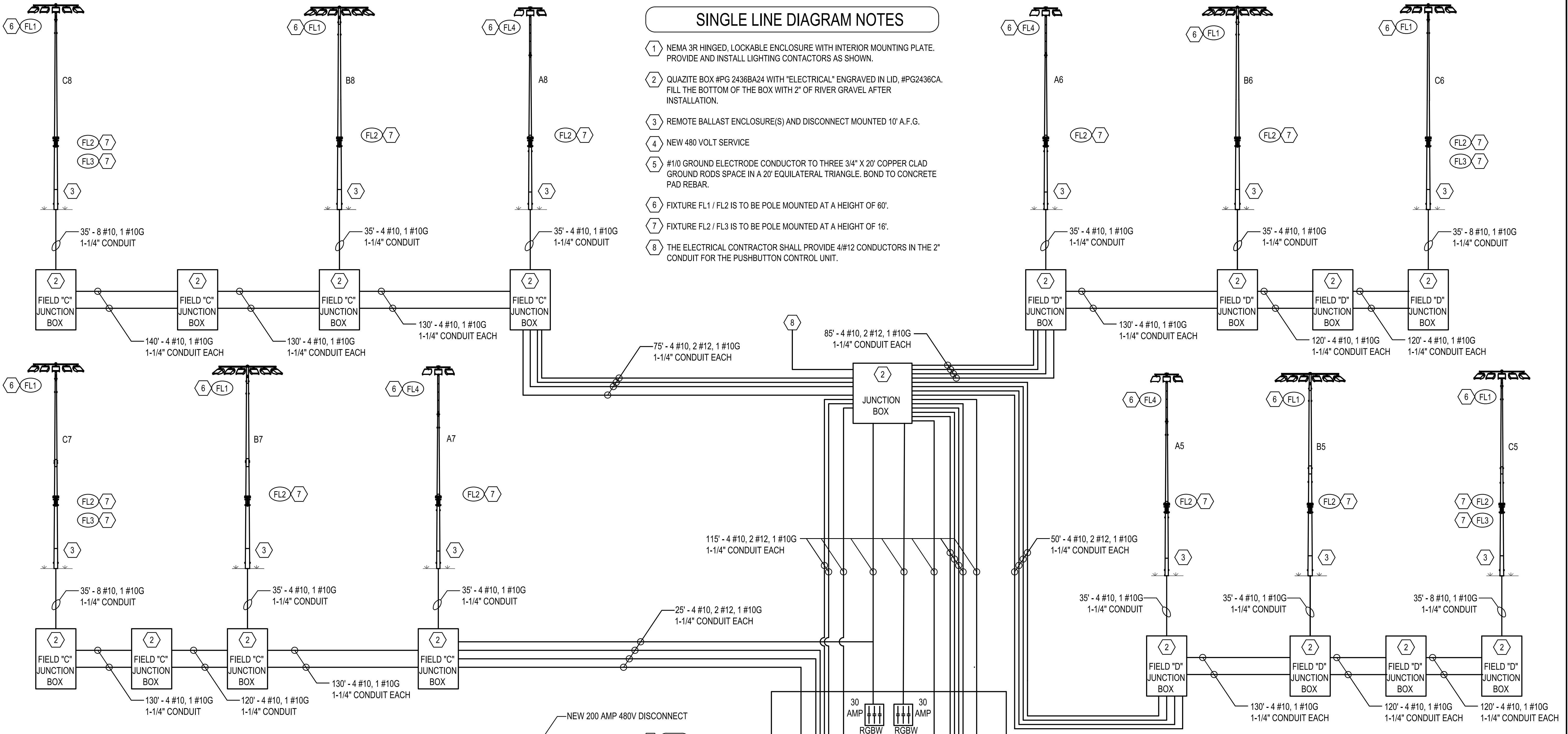
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SINGLE LINE DIAGRAM NOTES

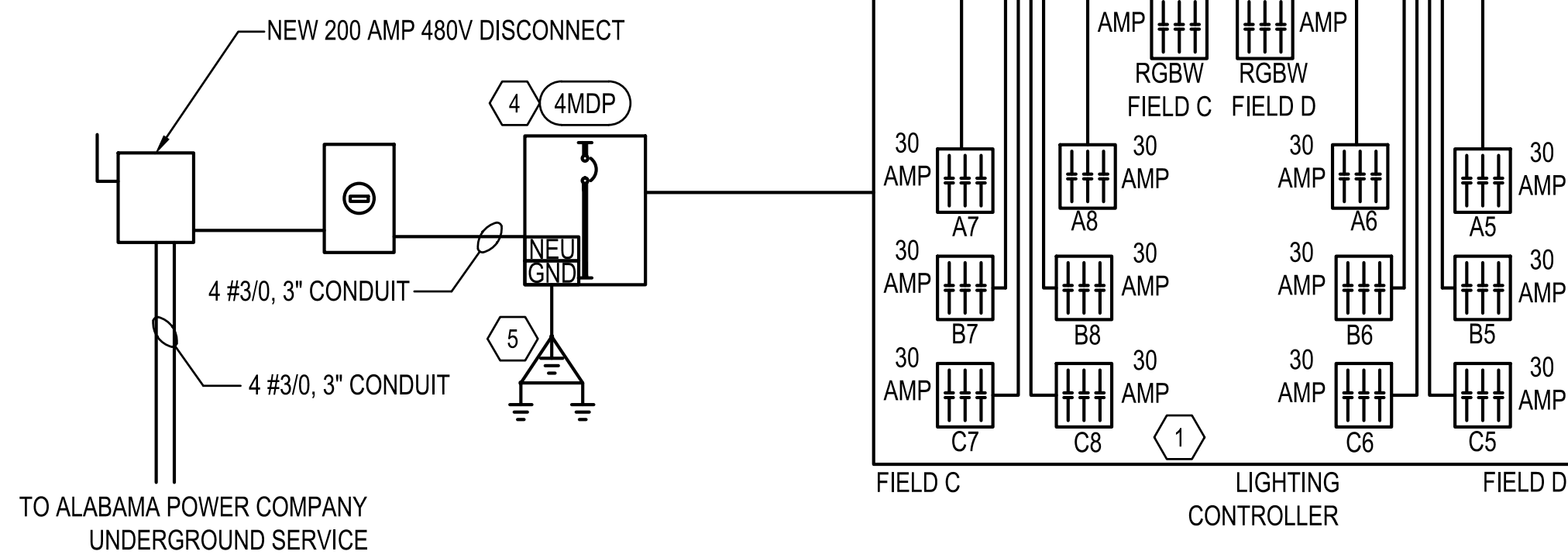
- 1 NEMA 3R HINGED, LOCKABLE ENCLOSURE WITH INTERIOR MOUNTING PLATE. PROVIDE AND INSTALL LIGHTING CONTACTORS AS SHOWN.
- 2 QUAZITE BOX #PG 2436BA24 WITH "ELECTRICAL" ENGRAVED IN LID, #PG2436CA. FILL THE BOTTOM OF THE BOX WITH 2" OF RIVER GRAVEL AFTER INSTALLATION.
- 3 REMOTE BALLAST ENCLOSURE(S) AND DISCONNECT MOUNTED 10' A.F.G.
- 4 NEW 480 VOLT SERVICE
- 5 #1/0 GROUND ELECTRODE CONDUCTOR TO THREE 3/4" X 20' COPPER CLAD GROUND RODS SPACE IN A 20' EQUILATERAL TRIANGLE. BOND TO CONCRETE PAD REBAR.
- 6 FIXTURE FL1 / FL2 IS TO BE POLE MOUNTED AT A HEIGHT OF 60'.
- 7 FIXTURE FL2 / FL3 IS TO BE POLE MOUNTED AT A HEIGHT OF 16'.
- 8 THE ELECTRICAL CONTRACTOR SHALL PROVIDE 4#12 CONDUCTORS IN THE 2" CONDUIT FOR THE PUSHBUTTON CONTROL UNIT.



1 FIELDS "C" & "D" CIRCUITING DIAGRAM

NOT TO SCALE

NOTE:
 ALL PHASE CONDUCTORS ARE TO BE CONTINUOUS, NO SPLICES, FROM CONTACTOR ENCLOSURE TO THE ROTARY DISCONNECT ON THE POLES.
 ALL CONDUITS ARE TO BE A MINIMUM OF 24" BELOW FINISHED GRADE.
 THE ELECTRICAL CONTRACTOR SHALL COORDINATE ALL ASPECTS OF THE INSTALLATION OF THE NEW MUSCO SYSTEM WITH MUSCO PRIOR TO BEGINNING ANY WORK. THE NEW SYSTEM IS TO BE INSTALL PER THE DIRECTION AND RECOMMENDATION OF MUSCO.



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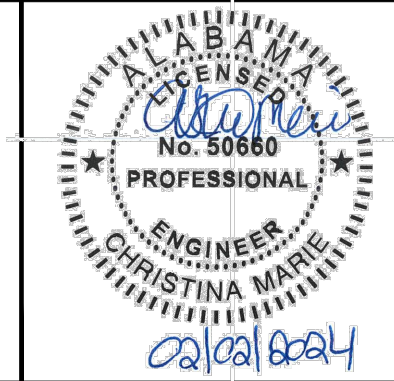
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**MEDAL OF HONOR PARK SITE
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CITY OF MOBILE
 ALABAMA



ELECTRICAL RISERS

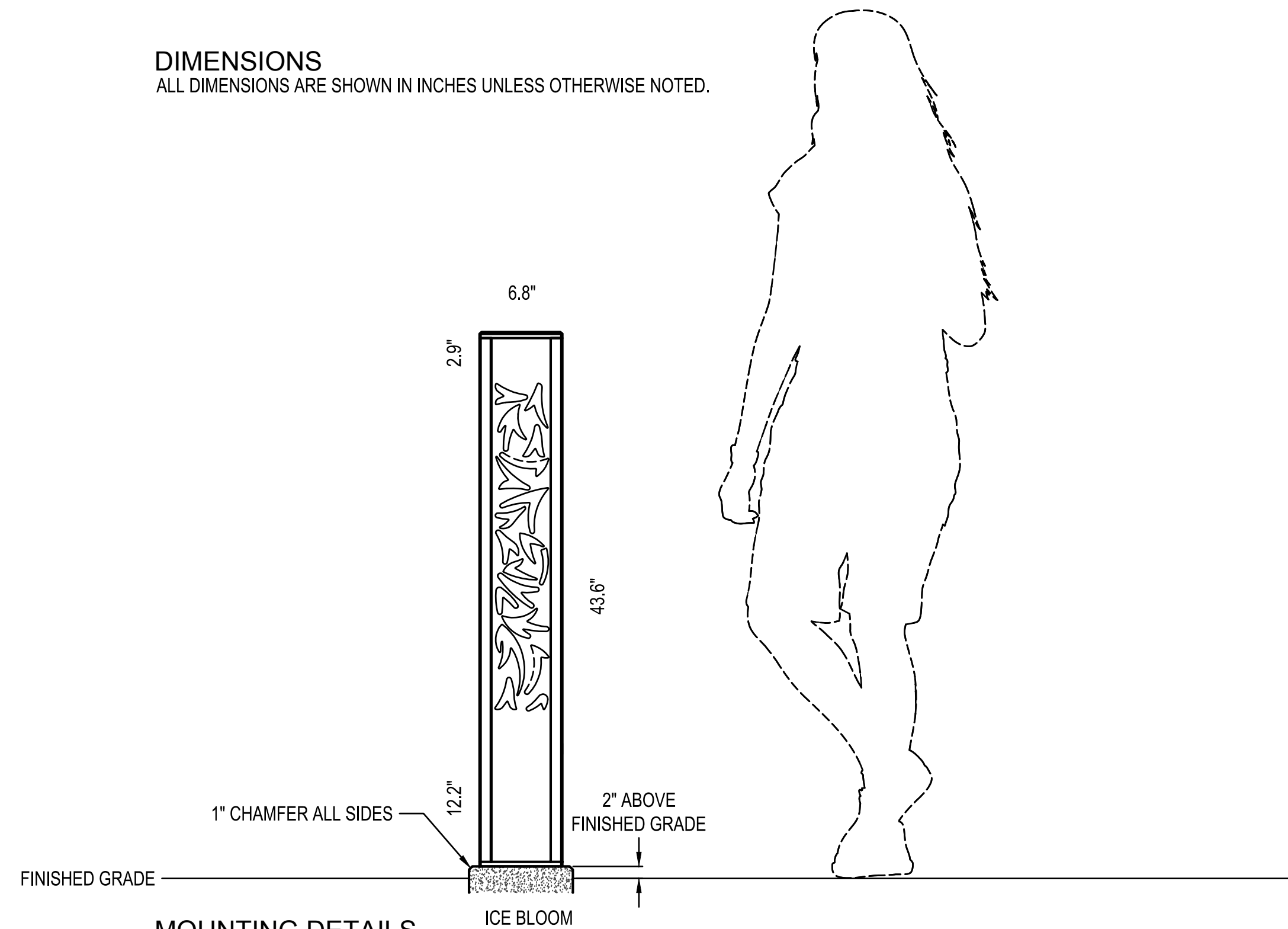
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MOSAIC BOLLARD - Ice Bloom
ILLUMINATING BOLLARD

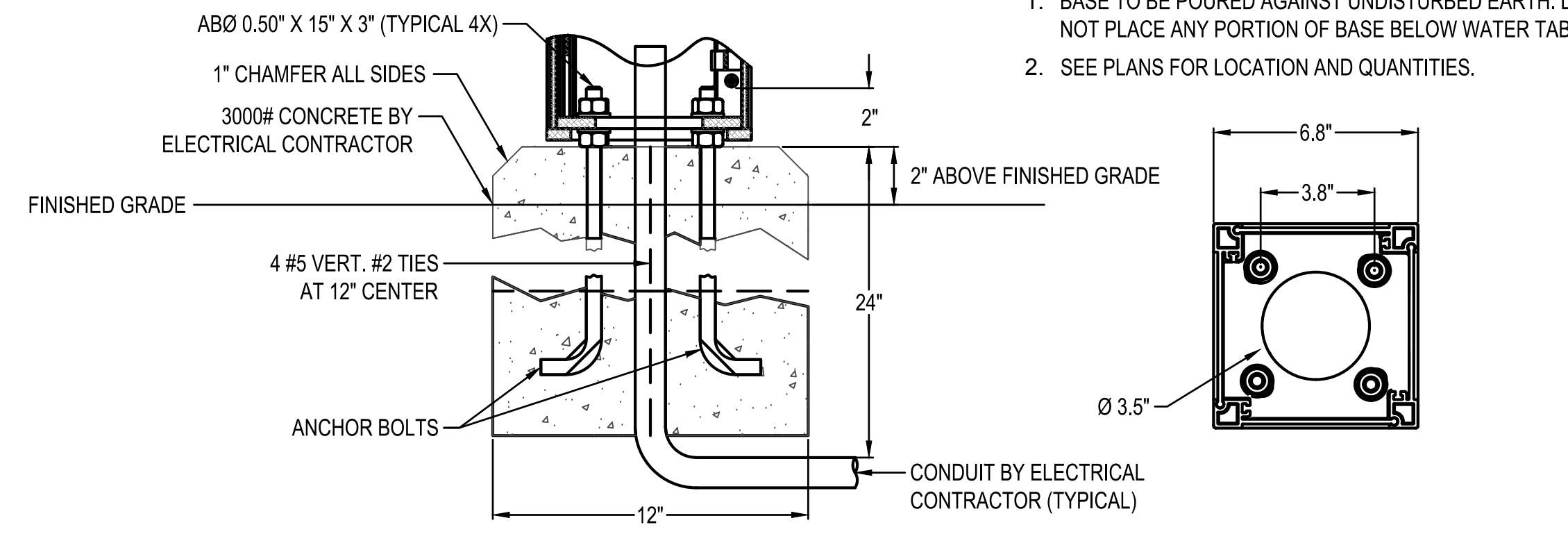
DIMENSIONS

ALL DIMENSIONS ARE SHOWN IN INCHES UNLESS OTHERWISE NOTED.



MOUNTING DETAILS

ALL DIMENSIONS ARE SHOWN IN INCHES UNLESS OTHERWISE NOTED.



NOTES:

1. BASE TO BE POURED AGAINST UNDISTURBED EARTH. DO NOT PLACE ANY PORTION OF BASE BELOW WATER TABLE.
2. SEE PLANS FOR LOCATION AND QUANTITIES.

1 CONCRETE BASE FOR BOLLARD DETAIL
NOT TO SCALE

LIGHTING FIXTURE SCHEDULE

MARK	MANUFACTURER AND CATALOG NUMBER			TOTAL WATTS	VOLTAGE	MOUNTING	NOTES
		TYPE	WATTS				
MRW	LITHONIA LIGHTING MRW LED P4 40K SR2 MVOLT PIR DDBXD	LED	61	61	MVOLT	SURFACE	SURFACE MOUNTED EXTERIOR LED WALL SCNCE PROVIDE WITH EMERGENCY BATTERY BACK UP MOUNTED 8' AFF UNLESS OTHERWISE NOTED
AL	HESS AMERICA LIGHTING MSC1100/1-NW-UNV-XX	LED	15	15	MVOLT	CONCRETE FOUNDATION	LED BOLLARD FIXTURE COORDINATE FINISH WITH OWNER / ARCHITECT
NOTES: FIXTURES WITH HALF FILLED IN CENTER SHALL BE PROVIDED WITH AN EMERGENCY BALLAST, 1100 LUMENS OR THE MAXIMUM AVAILABLE FOR THE FIXTURE.							
PROVIDE ALL MOUNTING HARDWARE, SUPPORTS, ETC. AS REQUIRED FOR A COMPLETE INSTALLATION.							
COORDINATE FINAL FIXTURE SELECTION WITH OWNER / ARCHITECT PRIOR TO ORDER.							

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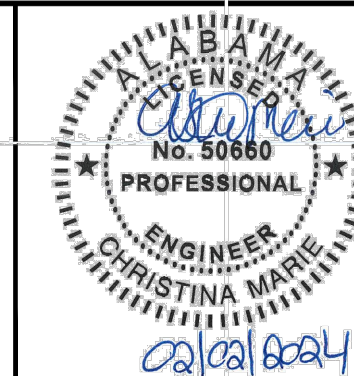
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DATE FEBRUARY 05, 2024
SCALE AS SHOWN
DESIGNED BY: CM
DRAWN BY: CM
CHECKED BY: AWM

**MEDAL OF HONOR PARK SITE
AND LIGHTING IMPROVEMENTS**
PREPARED FOR
CITY OF MOBILE

CITY OF MOBILE



ALABAMA

**ADDITIVE ALTERNATE #1
AMPHITHEATER SCHEDULES & DETAILS**

SHEET NUMBER

E4.3