SOUTHERN UNIVERSITY AND A&M COLLEGE BATON ROUGE CAMPUS REQUEST FOR BID (BID # 10317) PROJECT NUMBER 22-242 APRIL 25, 2024 @ 10:30 AM DEMONSTRATION FARM SU AG CENTER

Firm: Thompson Luke & Associates, LLC 10705 Rieger Road Baton Rouge, LA 70809 Contact: Scott Welch, P.E., Mechanical Project Manager Email: scott@tlaeng.com Phone: 225-218-6436 or 225-293-9474

MANDATORY PRE-BID CONFERENCE AND SITE VISIT:

March 27, 2024 @ 10:30 AM Head House Building 9202 B.A. Little Drive Southern University Baton Rouge Campus Site Telephone No. 225-771-2143

DEADLINE TO SUBMIT INQUIRIES: SUBMIT INQUIRIES TO:

April 4, 2024 by 5:00 PM Linda Antoine Email: linda_antoine@subr.edu

DEADLINE TO RESPOND TO INQUIRIES April 11, 2024 by 5:00 PM

Note: Responses to inquiries/addenda are pasted on LAPAC-(La State Procurement website

LAPAC website: https://www.cfprd.doa.louisiana.gov/OSP/LaPAC/Agency/outMain.cfm It is the responsibility of the vendor to check LAPAC for addenda.

DEADLINE TO SUBMIT BID: SUBMIT BID TO: April 25, 2024 @ 10:30 AM Linda Antoine, Director Southern University Purchasing Department-P. O. Box 9534 or James L. Prestage Drive J. S. Clark Adm. Bldg. Annex, 1stFloor Baton Rouge, LA 70813 Telephone No. 225-771-2804 or 771-4587

ADVERTISEMENT REQUEST FOR BID BID #10317 DEMONSTRATION FARM SOUTHERN UNIVERSITY AND A&M COLLEGE SU AG CENTER APRIL 25, 2024-10:30 AM

Sealed bids will be received by Southern University, Baton Rouge, Louisiana, in the Purchasing Office, 8100 James L. Prestage Drive, J. S. Clark Administration Building Annex, South Entrance, First Floor East. Bidders are solely responsible for ensuring timely delivery of their bids. The Southern University Purchasing Department is not responsible for any delays caused by bidders' chosen means of delivery. Failure to meet the bid deadline submittal date and time shall result in rejection of bid.

MAIL OR HAND-DELIVER BID TO PURCHASING DEPARTMENT NO LATER THAN 10:30 AM-APRIL 25, 2024

Mandatory Pre-Bid Conference & Site Visit: March 27, 2024 @ 10:30 am Site Visit Location: Head House Building @ 9202 B.A. Little Drive (Southern University Campus) Baton Rouge, La 70813 Site Visit Telephone Contact Numbers: 225-771-2143, 337-344-8634 or 225-954-1464

Participants shall be in attendance by 10:30 a.m. and sign-in on sheet provided by the Purchasing Department.

Bidders shall visit the site and be familiarized with the local conditions under which the work is to be performed. No additional compensation will be granted because of unusual difficulties, which may be encountered in the execution of any portion of the work.

Inquiries will be accepted until April 4, 2024 by 5:00 p.m. Inquiries shall be submitted to Linda Antoine at linda_antoine@subr.edu

Responses to inquiries will be posted on LAPAC-LA State Procurement website by April 11, 2024 by 5:00 p.m.

Any person requiring special accommodations should notify the Purchasing Office of the type(s) of accommodation required not less than seven (7) days before the bid opening date.

All bids must be accompanied by bid security equal to five (5%) percent of the sum of the base bid and all alternates, if applicable and must be in the form of a certified/official check, cashier's check or bid bond, made payable to Southern University and A & M College. Surety represents that it is listed on the current U.S. Department of the Treasury Financial Management Service list of approved bonding companies and that is listed thereon as approved for amount equal to or greater than the amount for which it obligates itself in this instrument. No bid bond indicating an obligation of less than five percent (5%) by any method is acceptable.

The successful bidder shall be required to furnish a **Performance and Payment Bond** written by a company licensed to do business in Louisiana, in an amount equal to 100% of the contract amount and who is currently on the U.S. Department of the Treasury Financial Management Service List.

Bidders shall include the following on envelope of choice: company's name, address, Louisiana contractor's license number, bid number, bid opening date and time.

Bids may be withdrawn by written, telegraphic fax notice or email and received at the address or email address designated in the Invitation to Bid prior to the time set for bid opening, as recorded by date stamp at the Purchasing Office. Bids received after closing time will be returned <u>unopened</u>. Evidence of authority to submit the bid shall be required in accordance with R.S. 38:2212(a)(1)(c) and/or R.S. 39:1594(c)(2)(d).

The Southern University System is a participant in the Louisiana for the Small Entrepreneurships Program (the Hudson Initiative) and the Louisiana Initiative for Veterans and Service-Connected Disabled Veterans-Owned Business Small Entrepreneurships. Bidders are encouraged to consider participation. A list of certified vendors and additional information can be obtained from website <u>http://www.ledsmallbiz.com</u>. Potential participants may also register at this website.

ALL BID SPECIFICATIONS CAN BE OBTAINED BY ACCESSING THE LA STATE PROCUREMENT WEBSITE https://wwwcfprd.doa.louisiana.gov/osp/lapac/pubMain.cfm.

Any questions concerning bid documents, please contact Mary Jane Spruel, Assistant Director of Purchasing at (225) 771-2800 or email to maryjane_spruel@subr.edu

The University reserves the right to reject all bids and to waive any informalities incidental thereto. Bids will be accepted only from contractors who are licensed under Louisiana R.S. 39:2150-2173 for the classification of: 72000000 Building and Construction 72130000 General Building Construction, 72131600 Commercial or Industrial Construction.

SOUTHERN UNIVERSITY & A&M COLLEGE AN EQUAL OPPORTUNITY EMPLOYER Linda A. Antoine, Director of Purchasing DATES ADVERTISED: MARCH 14, MARCH 21, MARCH 28, 2024

LOUISIANA UNIFORM PUBLIC WORK BID FORM

TO: Southern University and A&M College Post Office Box 9534 James J. Prestage Dr-J.S. Clark Adm. Bldg. Annex Baton Rouge, LA 70813

BID FOR: Bid Number 10317 DEMONSTRATION FARM AG CENTER Southern University and A&M College Baton Rouge Campus

The undersigned bidder hereby declares and represents that she/he: a) has carefully examined and understands the Bidding Documents, b) has not received, relied on, or based his bid on any verbal instructions contrary to the Bidding Documents or any addenda, c) has personally inspected and is familiar with the project site, and hereby proposes to provide all labor, materials, tools, appliances and facilities as required to perform, in a workmanlike manner, all work and services for the construction and completion of the referenced project, all in strict accordance with the Bidding Documents prepared by: <u>Purchasing Department 3/13/2024</u>

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

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

Dollars (\$

ALTERNATES: For any and all work required by the Bidding Documents for Alternates including any and all unit prices designated as alternates in the unit price description, not applicable

Alternate No. 1 (Owner to provide description of alternate and state whether add or deduce	ct) for the lump sum of:	
	Dollars (\$)
Alternate No. 2. (Owner to provide description of alternate and state whether add or dedu	(ct) for the lump sum of:	
	Dollars (\$)
Alternate No. 3 (Owner to provide description of alternate and state whether add or dedu	(ct) for the lump sum of:	
	Dollars (\$)
NAME OF BIDDER:		and the second statement of the
ADDRESS OF BIDDER:		and the second
EMAIL		united a state of the second
PHONE		and the second second second second
LOUISIANA CONTRACTOR'S LICENSE NUMBER:		an a
PRINT NAME OF AUTHORIZED SIGNATORY OF BIDDER:		
TITLE OF AUTHORIZED SIGNATORY OF BIDDER:		**************************************
SIGNATURE OF AUTHORIZED SIGNATORY OF BIDDER:		
DATE:		

Completion Time: ______ consecutive calendar days, or within the time that may be extended as stipulated in the contract. Liquidated Damages: \$250 per day.

5% Bid Security: XX YES (shall be included with bid)

(check here) Bid Security included. Bid Security shall be total of 5% for base bid and alternates.

Successful bidder will be notified by letter to secure Performance and Payment Bond up to 100% of cost.

(check here) _____ Board Resolution included or Secretary of State Registration

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

BID SECURITY in the form of a bid bond, certified check or cashier's check as prescribed by LARS 38:2218. A is attached to and made a part of this bid.

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

TO: DEMONSTRATION FARM UNIT PRICES: This form shall be used for any and all work required by the Bidding Documents and described as unit prices. Amounts shall be stated in figures and only in figures. Wording for "DESCRIPTION" is to be provided by the Owner. DESCRIPTION: DESCRIPTION: DESCRIPTION: DESCRIPTION: DESCRIPTION: DESCRIPTION: DESCRIPTION: DESCRIPTION: REF. NO. Southern University and A&M College REF. NO. Post Office Box 9534 Baton Rouge, LA 70813 James J. Prestage Dr-J. S. Clark Administration Bldg. Annex □ Base Bid or □ Alt.# QUANTITY: QUANTITY: QUANTITY: QUANTITY: QUANTITY: QUANTITY: QUANTITY: QUANTITY: UNIT OF MEASURE: BID FOR: Bid Number 10317 UNIT PRICE EXTENSION (Quantity times Unit Price) UNIT PRICE EXTENSION (Quantity times Unit Price)

LOUISIANA UNIFORM PUBLIC WORK BID FORM UNIT PRICE FORM

All quantities are estimated. The contractor will be paid based upon actual quantities as verified by the Owner.

SOUTHERN UNIVERSITY AND A&M COLLEGE BATON ROUGE CAMPUS REQUEST FOR BID

PROJECT: DEMONSTRATION FARM LOCATION: SU AG CENTER BID DUE DATE: APRIL 25, 2024 BID # 10317

Bids submitted are subject to provisions of but not limited to La.R.S.38 Purchasing Rules and Regulations; Executive Orders; and the General Terms and Conditions, listed in this Invitation for Bid. Southern University reserves the right to award items separately, grouped or on an all or none basis and to reject any or all bids and waive any informalities.

BIDS MAY BE SENT BY MAIL OR HAND-DELIVERED TO:

Bids should be mailed to: Southern University Purchasing Department Post Office Box 9534 Baton Rouge, Louisiana 70813 As an alternative, bids may be hand delivered to: Southern University Purchasing Department 1st Floor East-James L. Prestage Drive J. S. Clark Administration Building Baton Rouge, Louisiana 70813

MANDATORY PRE-BID CONFERENCE & SITE VISIT: MARCH 27, 2024 @ 10;30 AM

INQUIRIES:

No negotiations, decisions, or actions will be executed by any bidder as a result or any oral discussion with any University employee or State Consultant. Only those transactions which are in writing, sent to Linda A. Antoine, Director of Purchasing, will be considered as valid.

INSTRUCTIONS TO BIDDERS

1. Bid Forms

All written bids, unless otherwise provided for, must be submitted on, and in accordance with forms provided and properly signed in ink. Bids submitted in the following manner will not be accepted:

Bid containing no signature indicating intent to be bound

(1) Bid filled out in pencil

(2) Bid not submitted on University standard forms

Bids must be received at the address specified in the Invitation for Bid prior to bid opening time in order to be considered. .

2. Envelope (if mailed)

Bidders are requested to submit bid package in a sealed envelope of your choice that is clearly marked identifying the *company's* name, complete address, bid number, time and date of bid opening, and license number, if applicable. Bidder is responsible for means of delivery of bid.

Louisiana Contractors License Number shall be placed on the outside of the envelope.

3. Standards of Quality

Any product or service bid shall conform to all applicable federal, state and local laws, regulations and the specifications contained in the IFB. Unless otherwise specified in the IFB, any manufacturer's name, trade name, brand name, or catalog numbers used in the specifications is for the purpose of describing the quality level, performance and characteristics required. Bidder must specify the brand and model number of the product offered in his/her bid. Bids not specifying brand and model numbers will be considered as offering the exact product(s) specified in the IFB.

4. Descriptive Information

Bidders proposing an equivalent brand or model should submit information with bid (such as illustrations, descriptive literature, technical data) sufficient for the University to evaluate quality, suitability and compliance with the specifications in the IFB. Failure to submit descriptive information may cause bid to be rejected. Any change made to a manufacturer's published specification submitted for a product should be verifiable by the manufacturer. If item(s) bid do not fully comply with specifications (including brand and/or product number), bidder must state in what respect the item(s) deviate. Failure to note exceptions on the bid form will not relieve the successful bidder(s) from supplying the actual products requested.

5. ON-CAMPUS ATTENDANCE REQUIREMENTS (COVID-19)

The Center for Disease and Control (CDC) recommends social distancing and wearing masks to prevent the spread of the Corona Virus (COVID-19).

6. Prices

Unless otherwise specified by the Purchasing Department, bid prices must be complete, including transportation, prepaid by bidder to destination. In the event of extension errors, the unit price shall prevail.

7. Payment Terms

Payment is to be made within thirty (30) days after receipt of properly executed invoice, or delivery and acceptance, whichever is later. Delinquent payment penalties are governed by L.R.S. 39:1695.

8. Deliveries

Bids may be rejected if the delivery or completion time indicated is longer than that specified in the IFB.

9. Vendor Invoices

Invoices or AIA payment form shall reference the Southern University purchase/release order number, vendor's packing list/delivery ticket, ticket number, shipping/delivery date, etc. Invoices are to be itemized and billed in accordance with the order and should show the amount of any prompt payment discount and submitted on the vendor's own invoice form. Invoices submitted by the vendor's supplier will not be accepted. Terms are net 30.

10. Tax Information/State of Louisiana

Vendor is responsible for including all applicable taxes in the bid prices. Southern University is exempt from all Louisiana state and local sales and use taxes. By accepting an award, resident and non-resident firms acknowledge their responsibility for the payment of all taxes duly accessed by the State of Louisiana and its political subdivisions for which they are liable, including but not limited to: franchise taxes, privilege taxes, sales taxes, use taxes, ad valorem taxes, etc. In accordance with Act Number 1029 of the 1991 Regular Session, effective September 1, 1991 state agencies will no longer be required to pay state sales tax.

11. New Products

Unless specifically called for, all products for purchases must be new (never previously used) and the current model and/or packaging. The manufacturer's standard warranty will apply unless otherwise specified in the IFB.

12. Contract Renewals, Multi-Year Contracts (if applicable)

Upon agreement of Southern University and the contractor, an open-ended requirements contract may be extended for two (2) additional twelve (12) month periods at the same prices, terms and conditions. In such cases, the total contract term cannot exceed thirty six (36) months.

13. Contract Cancellation

Southern University has the right to cancel any contract, in accordance with Purchasing Rules and Regulations, for cause, including but not limited to, the following: (1) failure to deliver within time specified in the contract; (2) failure of the product or service to meet specifications, conform to sample quality or to be delivered in good condition; (3) misrepresentations by the contractor; (4) fraud, collusion, conspiracy or other unlawful means of obtaining any contract with the state; (5) conflict of contract provisions with constitutional or statutory provision of state or federal law; (6) any other breach of contract.

14. AWARD AND EXECUTION OF CONTRACT:

The owner shall incur no obligation to the contractor until the contract between the owner and contractor is duly executed. If the contractor is notified of the acceptance of the bid within thirty (30) days of the opening bid date, contractor agrees to execute and deliver to owner, Performance and Payment Bond and Certificate of Insurance, a copy of which is attached to the Contract Documents, within ten (10) working days after notice from the Owner that the instrument is ready for signature.

15. Fiscal Funding Clause (Renewal Contracts Only)

In accordance with LA R.S.39:1615 (c) and (e), any contract entered into by the State of Louisiana and Southern University shall include the following Fiscal Funding Clause:

C. Termination due to unavailability of funds in succeeding years. When funds are not appropriated to support continuation of performance in a subsequent year of a multiyear contract, the contract for such subsequent year shall be terminated. When a contract is terminated under these conditions, no additional funds shall be paid to the contractor as a result of such action. E. With respect to all multiyear contracts, there shall be no provisions for a penalty to the state for the cancellation or early payment of the contract. The continuation of this contract is contingent upon the appropriation of funds to fulfill the requirements of the contract by the legislature. All proposers should be aware that our legislative process is such that it is often impossible to give prior notice of the non-appropriation of funds.

16. Default of Contactor

Failure to deliver within the time specified in the bid will constitute a default and may cause cancellation of the contract. Where the state had determined the contractor to be in default, the state reserves the right to purchase any or all products or services covered by the contract on the open market and to charge the contractor with cost in excess of the contract price. Until such assessed charges have been paid, no subsequent bid from the defaulting contractor will be considered.

17. Order of Priority

In the event there is a conflict between the Instructions to Bidders the General Terms and Conditions will govern.

18. Applicable Law

All contracts will be construed in accordance with and governed by the laws of State of Louisiana. Vendors shall be in compliance with applicable laws of the State of Louisiana and Federal Laws where applicable, to include licenses, fees and permits. Vendors are responsible for the cost of licenses, fees and permits.

19. Certification of No Suspension or Debarment (\$25,000 or more)

By signing and submitting this bid, bidder certifies that its company, any subcontractors, or principals thereof, are not suspended or debarred under federal or state laws or regulations. A list of parties who have been suspended or debarred by federal agencies is maintained by the General Services Administration and can be viewed on the internet at www.sam.gov.

X Federal Funded __Non-Federal Funded

20. <u>E-VERIFY</u> (verification of employees)

Contractor acknowledges and agrees to comply with the provisions of La R.S. 38:2212.10 and federal law pertaining to E-Verify in the performance of services under this contract.

21. Prohibited Contractual Arrangements

Per Louisiana R.S. 42:1113.a, no public servant, or member of such public servant's immediate family, or legal entity in which he is a controlling interest shall bid on or enter into any contract, subcontract, or other transaction that is under the supervision or jurisdiction of the agency of such public servant. See statute for complete law, exclusions and provisions.

22. Discriminatory Boycotts of Israel

This section applies to procurements with a value of \$100,000 or more and for vendors with five (5) or more employees Prohibition of Discriminatory Boycotts of Israel

In accordance with R.S. 39:1602.1, for any contract for \$100,000 or more and for any contractor with five or more employees, the Contractor certifies that neither it nor its subcontractors are engaged in a boycott of Israel, and that the Contractor and any subcontractors shall, for the duration of this contract, refrain from a boycott of Israel. The State reserves the right to terminate this contract if the Contractor, or any Subcontractor, engages in a boycott of Israel during the term of this contract.

23. Mutual Indemnification

Each party hereto agrees to indemnify, defend and hold the other, its officers, directors, agents and employees harmless from and against any and all losses, liabilities and claims, including reasonable attorney's fees arising out of or resulting from the willful act, fault, omission, or negligence of the indemnifying party or of its employees, contractors, or agents in performing its obligations under this agreement, provided however, that neither party hereto shall be liable to the other for any consequential damages arising out of its willful act, fault, omission, or negligence.

24. Fair Labor Standards Act

Contractor shall be in compliance with the Fair Labor Standards Act 29 USC 201-6; Establishes minimum wage, overtime pay, equal pay, recordkeeping, and child labor standards for employees or in the production of goods for interstate commerce. By signing and submitting this bid, bidder certifies that its company, any subcontractors, or principals thereof is in accordance with said compliance. United States Department of Labor website: www.dol.gov/esa

25. Davis-Bacon Act (\$2,000 or more)

Contractor shall be in compliance with the **Davis-Bacon Act**, 40 USC 276A-7; ensures that laborers and mechanics employed pursuant to federally funded construction contracts, subcontracts and construction under Federal grants, will be paid wages as determined by the U.S. Secretary of Labor. <u>By signing and submitting this bid, bidder certifies that its company, any</u> <u>subcontractors, or principals thereof is in accordance with said compliance</u>. United States Department of Labor website: <u>www.dol.gov/esa</u>

XFederal Funded _____Non-Federal Funded

26. Small Business Entrepreneurship Programs

The Southern University System is a participant in the Louisiana for the Small Entrepreneurships Program (the Hudson Initiative) and the Louisiana Initiative for Veterans and Service-Connected Disabled Veterans-Owned Business Small Entrepreneurships. Bidders are encouraged to consider participation. A list of certified vendors and additional information can be obtained from website http://www.ledsmallbiz.com. Potential participants may also register at this website. Businesses include minority and women.

27. Public Works Projects (R.S. 38:2227)

In accordance with the provisions of R.S. 38:2227; in awarding public works projects, any public entity is authorized to reject a proposal or bid, or not award the contract, to a business in which any individual with an ownership interest of ten percent (10%) or more, has been convicted, or has entered a plea of guilty or nolo contenere to any state felony or equivalent federal felony crime.

28. Tobacco-Free Policy

The use of tobacco products on any Southern University campus is prohibited by students, staff, faculty or visitors in all campus buildings, facilities, or property owned or leased by Southern University System and outside areas of the campus where non-smokers cannot avoid exposure to smoke; on campus grounds, facilities, or vehicles that are the property of the University; and at lectures, conferences, meetings, and social and cultural events held on school property or school grounds. The sale or free distribution of tobacco products, including merchandise on campus or at school events is prohibited.

29. Equal Opportunity Employer

Southern University and A&M College Systems of the State of Louisiana is an equal opportunity employer and looks to its contractors, sub-contractors, vendors, and suppliers to take affirmative action to effect this commitment in its operations. By submitting and signing this bid, the bidder certifies that he agrees to adhere to the mandates dictated by Title VI and VII of the Civil Rights Act of 1964, as amended; the Vietnam Era Veterans' Readjustment Assistance Act of 1974; Section 303 of the Rehabilitation Act of 1973; Section 202 of Executive Orderll24b, as amended; and the Americans with Disabilities Act of 1990. Bidder agrees that he will not discriminate in the rendering of services to and/or employment of individuals because of race, color, religion, sex, age, national origin, handicap, disability, veteran status, or any other non-merit factor. Bidder further agrees to keep informed of and comply with all Federal, State, and local laws, ordinances, and regulations which affect his employees or prospective employees. Any person who is a "Qualified Individual with a Disability" as defined by 42 USC 12131 of the American with Disabilities Act who has submitted a bid on this procurement and who desires to attend the bid opening, must notify this office in writing no later than seven (7) working days prior to the bid opening date of their need for special accommodations. If the requested accommodations cannot be reasonably provided, the individual will be so informed prior to the bid opening.

30. Code of Ethics

The contractor acknowledges that Chapter 15 of Title 42 of the Louisiana Revised Statutes (R.S. 42:1101 et. seq., Code of Governmental Ethics) applies to the Contracting Party in the performance of services called for in this contract. The contractor agrees to immediately notify the state if potential violations of the Code of Governmental Ethics arise at any time during the term of this contract.

31. Vendor Forms/SU Signature Authority

The terms and conditions of the SU solicitation and purchase order/contract shall solely govern the purchase agreement, and shall not be amended by any vendor contract, form, etc. The University's chief procurement officer, or designee, is delegated sole authority to execute any vendor contracts, forms, etc. Departments are prohibited from signing any vendor forms.

32. Prosecution of Work

The work is to be done when Southern University is in operation. The contractor shall, therefore, plan the repairs and installation in specifications so as not to interfere with normal operations of the facility and shall exert effort to expedite completion of the work once it has started. It is intended that the work shall be done during normal working hours, however, should work require overtime (Saturday, Sunday and/or night working hours), the cost must be borne by the contractor at no extra compensation from the Owner (Southern University).

33. On-Campus Attendance Requirements (COVID-19)

The Center for Disease and Control (CDC) recommends social distancing and wearing of masks to prevent the spread of the Coronavirus (COVID19). Persons visiting Southern University are required to wear a mask/face covering and stay at least 6 feet between yourself and others, even when you wear a face covering.

34. Termination of the Contract for Convenience

The State/University may terminate the contract at any time by giving thirty (30) days written notice to the Contractor of such termination or negotiating with the Contractor an effective date. The Contractor shall be entitled to payment for deliverables in progress, to the extent work has been performed satisfactorily.

35. Termination for Cause

The State may terminate this Contract for cause based upon the failure of the Contractor to comply with the terms and/or conditions of the Contract; provided that the State shall give the Contractor written notice specifying the Contractor's failure. If within thirty (30) days after receipt of such notice, the Contractor shall not have either corrected such failure or thereafter proceeded diligently to

complete such correction, then the State may, at its option, place the Contractor in default and the Contract shall terminate on the date specified in such notice. The Contractor may exercise any rights available to it under Louisiana law to terminate for cause upon the failure of the Owner to comply with the terms and conditions of this contract; provided that the Contractor shall give the State written notice specifying the State's failure and a reasonable opportunity for the Owner to cure the defect.

36. Auditors

It is hereby agreed that the Legislative Auditor of the State of Louisiana and/or the Office of the Governor, Division of Administration auditors shall have the option of auditing all accounts of contractor which relate to this contract.

37. Awarded Products/Unauthorized Substitutions

Only those awarded brands and numbers stated in the SU contract are approved for delivery, acceptance, and payment purposes. Any substitutions require prior approval of the Purchasing Office. Unauthorized product substitutions are subject to rejection at time of delivery, post-return at vendor's expense, and non-payment.

38. Acceptance

Upon written notice by the Owner, a Notice by Owner of Acceptance of Work will be executed and forwarded to the Contractor for recording with the Clerk of Court in the parish in which the work has been performed and shall furnish a clear Lien Certificate from the Clerk of Court (to the owner along with final invoice) forty-five (45) days after recordation of acceptance. Final payment of ten percent (10%) will be made at this time.

39. Guarantee

It is the intention of the specifications to secure a first-class permanent material and construction and to this end, Contractor will be held responsible for and must correct defects discovered in the work within one (1) year from acceptance. Should any materials or methods be called for, of such nature to render this guarantee impossible, written notice to this effect should be given Owner (Southern University) before signing contract and/or beginning of work; failure to do this will be construed as agreement to the strictest terms of the guarantee.

40. Clean-Up

The Contractor will be directed during the progress of work to remove and properly dispose of the resultant and debris. Upon completion, Contractor shall remove all equipment, unused materials and debris and will leave the premises in a clean and first-class condition.

41. Examination of Site

Each bidder will visit the site of the proposed project and will fully acquaint himself with conditions relating to construction and labor so that he may fully understand the facilities, difficulties and restrictions attending the execution of work under this contract. No consideration or allowance will be granted the Contractor for failure to visit the site or for any alleged misunderstanding of the materials to be furnished or the work to be done.

42. Anti-Kickback Clause

The Contractor hereby agrees to adhere to the mandate dictated by The Copeland "Anti-Kickback" ACT which provides that each Contractor or Subgrantee shall be prohibited from inducing, by any means, any person employed in the completion of work, to give up any part of the compensation to which he is otherwise entitled.

43. Clean Air Act

The Contractor hereby agrees to adhere to the provisions which require compliance with all applicable standards, orders or requirements issued under Section 306 of the CLEAN AIR ACT which prohibits the use under non-exempt contracts, grants or loans of facilities included on the EPA list of Violating Facilities.

44. Clean Water Act

The Contractor hereby agrees to adhere to the provisions which require compliance with all applicable standards, orders or requirements issued under Section 508 of the Clean Water Act which prohibits the use under non-exempt federal contracts, grants or loans of facilities included on the EPA list of Violating Facilities.

45. Energy Policy and Conservation Act

The Contractor hereby recognizes the mandatory standards and policies relating to energy efficiency which are contained in the State energy conservation plan issued in compliance with the Energy Policy and Conservation Act (P.L. 94-163).

46. Anti-Lobbying and Debarment Act

The Contractor will be expected to comply with federal statutes in the Anti-Lobbying Act and The Debarment Act.

47. Signature Authority

<u>A CORPORATE RESOLUTION OR WRITTEN EVIDENCE OF THE AUTHORITY OF THE PERSON SIGNING</u> THE BID FOR THE PUBLIC WORK AS PRESCRIBED BY LOUISIANA REVISED STATUTE 38:2212 (B)(5)

<u>A copy of the applicable signature authority document/Board Resolution or LA Secretary of State</u> Registration must be submitted with bid.

48. ADITIONAL REQUIREMENTS

- 1. ALL WORK SHALL BE IN ACCORDANCE WITH THE PLANS; THE PROJECT SPECIFICATIONS, AND HALL COMPLY WITH APPLICALBE LOCAL AND STATE BUILDING CODES AS WELL AS ANY AND ALL REGULATORY AGENCY REQUIREMENTS AND LAWS, INCLUDING BUT NOT LIMIOTED TO OSHA, ETC. GENERAL NOTES SHALL APPLY TO ALL DRAWINGS.
- 2. CONTRACTOR SHALL NOTIFY THE ENGINEER/ARCHITECT, IF APPLICABLE, OF ALL CONFLICTS OR DISCRENPENSIES PRESENTED IN THESE PLANS PRIOR TO THE START OF WORK.
- 3. ALL WORK WHETHER SHOWN OR IMPLIED, UNLESS SPECIFICALLY QUESTIONED SHALL BE CONSIDERED UNDERSTOOD IN ALL RESPECTS BY THE GENERAL CONTRATOR AND WHO WILL BE RESPOSIBLE FOR ANY MISINTERPRETATIONS AND CONSEQUENCES THEREOF.
- 4. ANY UTILITIES DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED AT THE CONTRACTORS EXPENSE.
- 5. ENGINEER/ARCHITECT SHALL BE NOTIFIED IMMEDIATELY OF ALL IDENTIFIED EXISTING UTILITIES NOT INDENTIFIED IN THE PLANS.
- 6. OWNER SHALL PROVIDE WATER FOR CLEANING OPERATIONS FROM ANY FIRE HYDRANT AT NO COST TO THE CONSULTANT.

THIS DOCUMENT IS FOR INFORMATION PURPOSES

INSURANCE REQUIREMENTS

Southern University and A&M College Demonstration Farm-bid # 10317

The Contractor shall purchase and maintain for the duration of the contract insurance against claims for injuries to persons or damages to property which may arise from or in connection with the performance of the work hereunder by the Contractor, its agents, representatives, employees or subcontractors.

A. MINIMUM SCOPE AND LIMITS OF INSURANCE

1. Workers Compensation

Workers Compensation insurance shall be in compliance with the Workers Compensation law of the State of the Contractor's headquarters. Employers Liability is included with a minimum limit of \$500,000 per accident/per disease/per employee. If work is to be performed over water and involves maritime exposure, applicable LHWCA, Jones Act, or other maritime law coverage shall be included and the Employers Liability limit increased to a minimum of \$1,000,000. A.M. Best's insurance company rating requirement may be waived for workers compensation coverage only.

2. Commercial General Liability

Commercial General Liability insurance, including Personal and Advertising Injury Liability, shall have a minimum limit per occurrence of \$1,000,000 and a minimum general aggregate of \$2,000,000. The Insurance Services Office (ISO) Commercial General Liability occurrence coverage form CG 00 01 (current form approved for use in Louisiana), or equivalent, is to be used in the policy. Claims-made form is unacceptable.

3. Automobile Liability

Automobile Liability Insurance shall have a minimum combined single limit per occurrence of \$1,000,000. ISO form number CA 00 01 (current form approved for use in Louisiana), or equivalent, is to be used in the policy. This insurance shall include third-party bodily injury and property damage liability for owned, hired and non-owned automobiles.

B. DEDUCTIBLES AND SELF-INSURED RETENTIONS

Any deductibles or self-insured retentions must be declared to and accepted by the Agency. The Contractor shall be responsible for all deductibles and self-insured retentions.

C. OTHER INSURANCE PROVISIONS

The policies are to contain, or be endorsed to contain, the following provisions:

- 1. General Liability and Automobile Liability Coverage
 - a. The Agency, its officers, agents, employees and volunteers shall be named as an additional insured as regards negligence by the contractor. ISO Form CG 20 10 (current form approved for use in Louisiana), or equivalent, is to be used when applicable. The coverage shall contain no special limitations on the scope of protection afforded to the Agency.
 - b. The Contractor's insurance shall be primary as respects the Agency, its officers, agents, employees and volunteers. Any insurance or self-insurance maintained by the Agency shall be excess and non-contributory of the Contractor's insurance.
 - c. Any failure of the Contractor to comply with reporting provisions of the policy shall not affect coverage provided to the Agency, its officers, agents, employees and volunteers.
 - d. The Contractor's insurance shall apply separately to each insured against whom claim is made or suit is brought, except with respect to the policy limits.
- Workers Compensation and Employers Liability Coverage The insurer shall agree to waive all rights of subrogation against the Agency, its officers, agents, employees and volunteers for losses arising from work performed by the Contractor for the Agency.
- 3. All Coverage

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- a. Coverage shall not be canceled, suspended, or voided by either party (the Contractor or the insurer) or reduced in coverage or in limits except after 30 days written notice has been given to the Agency. Ten-day written notice of cancellation is acceptable for non-payment of premium. Notifications shall comply with the standard cancellation provisions in the Contractor's policy.
- b. Neither the acceptance of the completed work nor the payment thereof shall release the Contractor from the obligations of the insurance requirements or indemnification agreement.
 - The insurance companies issuing the policies shall have no recourse against the Agency for payment of premiums or

for assessments under any form of the policies.

d. Any failure of the Contractor to comply with reporting provisions of the policy shall not affect coverage provided to the Agency, its officers, agents, employees and volunteers.

D. ACCEPTABILITY OF INSURERS

All required insurance shall be provided by a company or companies lawfully authorized to do business in the jurisdiction in which the Project is located. Insurance shall be placed with insurers with a A.M. Best's rating of **A-:VI or higher**. This rating requirement may be waived for workers compensation coverage only.

If at any time an insurer issuing any such policy does not meet the minimum A.M. Best rating, the Contractor shall obtain a policy with an insurer that meets the A.M. Best rating and shall submit another Certificate of Insurance as required in the contract.

E. VERIFICATION OF COVERAGE

Contractor shall furnish the Agency with Certificates of insurance reflecting proof of required coverage. The Certificates for each insurance policy are to be signed by a person authorized by that insurer to bind coverage on its behalf. The Certificates are to be received and approved by the Agency before work commences and upon any contract renewal thereafter.

In addition to the Certificates, Contractor shall submit the declarations page and the cancellation provision endorsement for each insurance policy. The Agency reserves the right to request complete certified copies of all required insurance policies at any time.

Upon failure of the Contractor to furnish, deliver and maintain such insurance as above provided, this contract, at the election of the Agency, may be suspended, discontinued or terminated. Failure of the Contractor to purchase and/or maintain any required insurance shall not relieve the Contractor from any liability or indemnification under the contract.

F. SUBCONTRACTORS

Contractor shall include all subcontractors as insureds under its policies <u>OR</u> shall be responsible for verifying and maintaining the Certificates provided by each subcontractor. Subcontractors shall be subject to all of the requirements stated herein. The Agency reserves the right to request copies of subcontractor's Certificates at any time.

G. WORKERS COMPENSATION INDEMNITY

In the event Contractor is not required to provide or elects not to provide workers compensation coverage, the parties hereby agree that Contractor, its owners, agents and employees will have no cause of action against, and will not assert a claim against, the State of Louisiana, its departments, agencies, agents and employees as an employer, whether pursuant to the Louisiana Workers Compensation Act or otherwise, under any circumstance. The parties also hereby agree that the State of Louisiana, its departments, agencies shall in no circumstance be, or considered as, the employer or statutory employer of Contractor, its owners, agents and employees. The parties further agree that Contractor is a wholly independent contractor and is exclusively responsible for its employees, owners, and agents. Contractor hereby agrees to protect, defend, indemnify and hold the State of Louisiana, its departments, agencies, agents and employees harmless from any such assertion or claim that may arise from the performance of this contract.

Maritime (Jones Act and LHWCA) needed when work is performed over navigable bodies of water

H. INDEMNIFICATION/HOLD HARMLESS AGREEMENT

Contractor agrees to protect, defend, indemnify, save, and hold harmless, the State of Louisiana, all State Departments, Agencies, Boards and Commissions, its officers, agents, servants, employees, and volunteers, from and against any and all claims, damages, expenses, and liability arising out of injury or death to any person or the damage, loss or destruction of any property which may occur, or in any way grow out of, any act or omission of Contractor, its agents, servants, and employees, or any and all costs, expenses and/or attorney fees incurred by Contractor as a result of any claims, demands, suits or causes of action, except those claims, demands, commissions, its officers, agents, servants, employees and volunteers.

Contractor agrees to investigate, handle, respond to, provide defense for and defend any such claims, demands, suits, or causes of action at its sole expense and agrees to bear all other costs and expenses related thereto, even if the claims, demands, suits, or causes of action are groundless, false or fraudulent.

NOTE: SUCCESFUL BIDDER WILL BE REQUIRED TO PROVIDE A CERTIFICATE OF INSURANCE WITH SOUTHERN UNVERSITY AS THE CERTIFICATE HOLDER SOUTHERN UNIVERSITY AND A&M COLLEGE PO BOX 9534 BATON ROUGE, LA 70813 225-771-4587

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<u>CIVIL</u>

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AREA OF WORK -

BID DOCUMENT DRAWINGS

SOUTHERN UNIVERSITY DEMONSTRATION FARM

BATON ROUGE, LOUISIANA VICINITY MAP



PREPARED BY:

THOMPSON LUKE & ASSOCIATES, LLC

10705 Rieger Road Baton Rouge, Louisiana 70809 Phone: (225) 293-9474

December 15, 2023

TLA PROJECT NO. 22-242

THOMPSON LUKE & ASSOCIATES, L.L.C. 10705 RIEGER ROAD, SUITE 101 BATON ROUGE, LA 70809 PHONE 225-293-9474	
SOUTHERN UNIVERSITY DEMONSTRATION FARM BATON ROUGE, LOUISIANA 70813 9202 B.A. LITTLE DRIVE	
REVISIONS: DATE: 12–15–23 TLA NO: 22–242 DRAWN: SMW CHECKED: FST SHEET NO: C.S.	

PROJECT SUMMARY

- 1. THE PROJECT CONSISTS OF THE CONSTRUCTION OF A NEW DEMONSTRATION GARDEN WITH CRUSHED GRANITE
- PATHS, PLANTING AREAS, STANDARD AND ADA PLANTING BOXES, MULCH AND AN OUTDOOR PAVILION. 2. DIMENSIONS ARE MEASURED FROM THE CENTER LINE OF COLUMN, CENTER OF WALL, FACE OF CONCRETE
- AND/OR FACE OF BLOCK WALL; UNLESS NOTED OTHERWISE.

GENERAL REQUIREMENTS

- 1. THE INTENT OF THESE DRAWINGS AND THE SPECIFICATIONS IS TO INCLUDE ALL LABOR, MATERIALS, AND SERVICES NECESSARY FOR COMPLETION OF ALL WORK SHOWN, PRESCRIBED, OR REASONABLY IMPLIED, BUT NOT LIMITED TO THAT EXPLICITLY INDICATED IN THE CONSTRUCTION DOCUMENTS.
- 2. DIMENSIONS ARE MEASURED FROM THE CENTER LINE OF COLUMN, FACE OF STUD/FRAMING, AND/OR FACE OF CONCRETE; UNLESS NOTED OTHERWISE.
- 3. THE TERM "TYPICAL" OR TYP" AS USED IN THESE DOCUMENTS SHALL MEAN THAT THE CONDITION IS THE SAME FROM SIMILAR CONDITIONS, THROUGHOUT UNLESS OTHERWISE NOTED. 4. THE ARCHITECT/ENGINEER'S REVIEW OF THE SHOP DRAWINGS SHALL NOT RELIEVE THE CONTRACTOR FROM
- RESPONSIBILITY FOR ANY DEVIATIONS FROM THE DRAWINGS AND/OR SPECIFICATIONS UNLESS THE ARCHITECT IS NOTIFIED IN WRITING, OF SUCH DEVIATION AT THE TIME OF THE SHOP DRAWINGS SUBMITTAL, NOR SHALL THE CONTRACTOR BE RELIEVED OF RESPONSIBILITY OF ERRORS OF ANY SORT IN THE SHOP DRAWINGS. 5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETE AND TIMELY DISTRIBUTION TO THE APPROPRIATE
- TRADES, THE LATEST EDITION OF ALL NECESSARY AND RELEVANT DRAWINGS, ADDENDA, CLARIFICATIONS, AND REVISIONS AFFECTING THEIR PORTION OF THE WORK DURING BIDDING AND AT ALL TIMES DURING CONSTRUCTION. 6. THESE DRAWINGS DO NOT INCLUDE THE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY. SAFETY OF ALL
- PARTIES PRESENT ON THE JOB SITE SHALL BE THE CONTRACTOR'S RESPONSIBILITY FROM START OF CONSTRUCTION THROUGH THE COMPLETION OF THE CONTRACT. 7. THE CONTRACTOR SHALL COORDINATE WITH THE LOCAL FIRE MARSHAL AND PROVIDE FOR ANY TEMPORARY FIRE-
- SAFETY REQUIREMENTS. 8. THE CONTRACTOR SHALL KEEP THE PROJECT AREA AND SURROUNDINGS FREE OF DEBRIS AND SECURE THE SITE
- FROM THOSE NOT ALLOWED ON THE JOB SITE. 9. THE CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS, EQUIPMENT, AND OTHER ITEMS NECESSARY FOR THE COMPLETION OF ALL WORK SHOWN, CALLED FROM OR REASONABLY IMPLIED BY THE CONSTRUCTION DOCUMENTS,
- EXCEPT FOR WHERE SPECIFICALLY NOTED OTHERWISE. 10. THE CONTRACTOR SHALL PROVIDE PROPER PROTECTION FOR ALL CONSTRUCTION MATERIALS SUBJECT TO DAMAGE
- FROM THE ELEMENTS OR THEFT. 11. WHERE DISSIMILAR METALS WOULD COME IN CONTACT WITH EACH OTHER, AN APPROVED BARRIER MUST BE USED.
- 12. ALL PENETRATIONS THROUGH RATED WALLS SHALL BE SEALED WITH A MATERIAL CAPABLE OF PREVENTING THE PASSAGE OF FLAMES AND HOT GASES WHEN SUBJECTED TO THE REQUIREMENTS OF THE TEST STANDARDS SPECIFIC OF FIRE STOPS ASTM-E-1814.
- 13. THE CONTRACTOR IS RESPONSIBLE TO PROVIDE COMPLIANCE WITH LOCAL APPLICABLE CODES WITH RESPECT TO FIRE RATING OF DOORS, FRAMES AND RELATED HARDWARE. NOTIFY ARCHITECT OF ANY DISCREPANCIES BETWEEN CODES AND CONSTRUCTION DOCUMENTS.

14. ALL HEIGHTS AND ELEVATIONS SHALL BE MEASURED FROM FINISH FLOOR UNLESS OTHERWISE NOTED. 15. CONTRACTOR SHALL ENSURE THAT ALL FINISH MATERIALS SHALL BE FLUSH WITH ADJACENT SURFACES AND JOINTS (EXCEPT NOTED OTHERWISE).

- 16. PROVIDE BACKING AT ALL INDICATED FIXTURES, SIGNS, HANDRAILS, AND OTHER WALL AND CEILING-MOUNTED LOCATIONS AS REQUIRED.
- 17. ELECTRICAL PANELS SHALL NOT BE LOCATED WITHIN FIRE RATED CORRIDORS 18. EXISTING CONDITIONS INCLUDING DIMENSIONS OF EXISTING CONSTRUCTION ARE BASED ON INFORMATION OBTAINED FROM CONSTRUCTION DOCUMENTS AND FIELD SURVEY, AND SHALL NOT BE CONSIDERED AS "AS-BUILT" DOCUMENTATION. THE CONTRACTOR SHALL VERIFY AT THE JOB SITE ALL EXISTING CONDITIONS AFFECTING THE WORK, AND SHALL THOROUGHLY REVIEW THE CONSTRUCTION DOCUMENTS PRIOR TO BIDDING. PRIOR TO THE START OF WORK AND/OR SUBMITTING ANY BID, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING OF ANY AREAS IN THE CONSTRUCTION DOCUMENTS WHERE THE INTENT IS UNCLEAR, WHERE THERE IS A DISCREPANCY, OR WHERE ACTUAL FIELD CONDITIONS ARE INACCURATELY SHOWN. COMMENCEMENT OF ANY WORK SHALL CONSTITUTE ACCEPTANCE OF ALL CONDITIONS AFFECTING THE WORK.
- 19. CONTRACTOR TO COORDINATE WITH THE OWNER ON THE TEMPORARY LOCATIONS OF DEBRIS CONTAINERS, WORK TRAILER, ACCESSIBILITY TO SITE AND PREMISES, AND EQUIPMENT.
- 20. CONTRACTOR TO PROVIDE AND PAY FOR TEMPORARY POWER, WATER, AND OTHER MISC. UTILITIES AS WELL AS PERMITTING COSTS ASSOCIATED WITH THIS PROJECT.

PRICE AND PAYMENT PROCEDURES

- 1. THE CONTRACTOR SHALL PROVIDE AN ELECTRONIC MEDIA PRINTOUT OF THE SCHEDULE OF VALUES, LIST OF SUBCONTRACTORS, LIST OF PRODUCTS, AND PROGRESS SCHEDULE. FORMS FILLED OUT BY HAND WILL NOT BE ACCEPTED. SUBMIT SCHEDULE OF VALUES IN DUPLICATE WITHIN 7 DAYS BEFORE DATE ESTABLISHED IN NOTICE TO PROCEED. REVISE SCHEDULE TO LIST APPROVED CHANGE ORDERS, WITH EACH APPLICATION FOR PAYMENT.
- 2. PAYMENT PERIOD WILL BE EACH CALENDAR MONTH. THE CONTRACTOR SHALL PROVIDE AN ELECTRONIC MEDIA PRINTOUT INCLUDING EQUIVALENT INFORMATION TO BE SUBMITTED TO ARCHITECT FOR APPROVAL. 3. APPLICATION FOR PROGRESS PAYMENT FORMS WILL INCLUDE ITEM NUMBER, DESCRIPTION OF WORK, SCHEDULED
- VALUES, PREVIOUS APPLICATIONS, WORK IN PLACE AND STORED MATERIALS UNDER THIS APPLICATION, PERCENTAGE OF COMPLETION, BALANCE TO FINISH, AND RETAINAGE. EXECUTE CERTIFICATION BY SIGNATURE OF AUTHORIZED OFFICER.
- 4. SUBMIT THREE COPIES OF EACH APPLICATION FOR PAYMENT. INCLUDE A TRANSMITTAL LETTER AS SPECIFIED FOR SUBMITTALS, REVISED AND CURRENT CONSTRUCTION PROGRESS SCHEDULE, AND AFFIDAVITS ATTESTING TO OFF-SITE STORED PRODUCTS.
- 5. WHEN ARCHITECT REQUIRES SUBSTANTIATING INFORMATION. SUBMIT DATA JUSTIFYING DOLLAR AMOUNTS IN QUESTION. PROVIDE ONE COPY OF DATA WITH COVER LETTER FOR EACH COPY OF SUBMITTAL. SHOW APPLICATION NUMBER AND DATE, AND LINE ITEM BY NUMBER AND DESCRIPTION.
- 6. FOR MINOR CHANGES NOT INVOLVING AN ADJUSTMENT TO THE CONTRACT SUM OR CONTRACT TIME, ARCHITECT WILL ISSUE INSTRUCTIONS DIRECTLY TO THE CONTRACTOR.
- 7. FOR OTHER REQUIRED CHANGES, QUOTES AND DESCRIPTIONS OF CHANGES WITH BACKUP DOCUMENTATION MUST BE SUBMITTED TO OWNER/TENANT FOR CONSIDERATION BY THE OWNER AND ARCHITECT. WORK ON CHANGE ORDERS CANNOT PROCEED UNTIL APPROVAL FOR THE CHANGE IS RECEIVED FROM THE OWNER/TENANT. THE DOCUMENT WILL DESCRIBE THE REQUIRED CHANGES AND WILL DESIGNATE METHOD OF DETERMINING ANY CHANGE IN CONTRACT SUM OR CONTRACT TIME.
- 8. THE CONTRACTOR SHALL PROVIDE FULL INFORMATION REQUIRED FOR EVALUATION OF SUBSTANTIATION OF COST. ON REQUEST THE CONTRACTOR SHALL PROVIDE QUANTITIES OF PRODUCTS, LABOR, AND EQUIPMENT; TAXES, INSURANCE, AND BONDS; OVERHEAD AND PROFIT; JUSTIFICATION FOR ANY CHANGE IN CONTRACT TIME; CREDIT FOR DELETIONS FROM CONTRACT, SIMILARLY DOCUMENTED.
- 9. THE CONTRACTOR SHALL SUPPORT EACH CLAIM FOR ADDITIONAL COSTS WITH ADDITIONAL INFORMATION OF ORIGIN AND DATE OF CLAIM, DATES AND TIMES WORK WAS PERFORMED AND BY WHOM, TIME RECORDS AND WAGE RATES PAID, AND INVOICES AND RECEIPTS FOR PRODUCTS, EQUIPMENT, AND SUBCONTRACTS, SIMILARLY DOCUMENTED.
- 10. FOR TIME AND MATERIAL WORK, THE CONTRACTOR SHALL SUBMIT ITEMIZED ACCOUNT AND SUPPORTING DATA AFTER COMPLETION OF CHANGE, WITHIN TIME LIMITS SET. 11. APPLICATION FOR FINAL PAYMENT WILL NOT BE CONSIDERED UNTIL ALL CLOSEOUT PROCEDURES ARE COMPLETED,
- AS OUTLINED IN "EXECUTION AND CLOSEOUT." 12. THE CONTRACTOR WILL REPLACE THE WORK, OR PORTIONS OF THE WORK, NOT CONFORMING TO SPECIFIED
- REQUIREMENTS. IF, IN THE OPINION OF THE ARCHITECT, IT IS NOT PRACTICAL TO REMOVE AND REPLACE THE WORK, THE ARCHITECT WILL DIRECT APPROPRIATE REMEDY OR ADJUST PAYMENT. THE DEFECTIVE WORK MAY REMAIN, BUT UNIT SUM/PRICE WILL BE ADJUSTED TO NEW SUM/PRICE WILL BE ADJUSTED TO NEW SUM AT DISCRETION OF ARCHITECT. AUTHORITY OF ARCHITECT TO ASSESS DEFECTS AND IDENTIFY PAYMENT ADJUSTMENTS IS FINAL.
- 13. PAYMENT WILL NOT BE MADE FOR REJECTED PRODUCTS FOR PRODUCTS WASTED OR DISPOSED OF IN A MANNER THAT IS NOT ACCEPTABLE, PRODUCTS DETERMINED AS UNACCEPTABLE BEFORE OR AFTER PLACEMENT, PRODUCTS NOT COMPLETELY UNLOADED FROM TRANSPORTING VEHICLE, PRODUCTS PLACED BEYOND LINES AND LEVELS OF REQUIRED WORK, PRODUCTS REMAINING ON HAND AFTER COMPLETION OF THE WORK, AND LOADING, HAULING, AND DISPOSING OF REJECTED PRODUCTS.

ADMINISTRATIVE REQUIREMENTS

- 2. DOCUMENTS FOR INFORMATION REQUIRE THREE COPIES.
- SUBMIT ONE EXTRA SUBMITTAL FOR INFORMATION.

- SPECIFICATION NUMBER, AS APPROPRIATE ON EACH COPY OF THE SUBMITTAL. SUBMITTAL.
- 8. SCHEDULE SUBMITTALS TO EXPEDITE THE PROJECT, AND COORDINATE SUBMISSION OF RELATED ITEMS.
- IDENTIFY ALL CHANGES MADE SINCE PREVIOUS SUBMISSION.

QUALITY REQUIREMENTS

- WORKMANSHIP, TO PRODUCT WORK OF SPECIFIED QUALITY. PROCEEDING.
- OUALITY.
- ARCHITECT BEFORE PROCEEDING.
- TESTS/INSPECTIONS SPECIFIED.
- CONTRACTOR, OR HAVE AUTHORITY TO STOP THE WORK.
- WITH BID DOCUMENTS.
- WITH RE-APPROVAL BY AUTHORITIES.

EXECUTION AND CLOSEOUT

- ACCUMULATION OF DUST, FUMES, VAPORS, OR GASES.
- ADJACENT PROPERTY.
- DAMAGING THE WORK.
- CONSTRUCTION OPERATIONS. COMPLY WITH FEDERAL, STATE, AND LOCAL REGULATIONS.
- INSTALLING, CONNECTING TO, AND PLACING IN SERVICE, SUCH EQUIPMENT.

- BEGINNING OF CUTTING OR PATCHING MEANS ACCEPTANCE OF EXISTING CONDITIONS.
- SUBSTANCE IN CONTACT OR BOND.
- DEMONSTRATION AND INSTRUCTION OF OWNER PERSONNEL.

1. DOCUMENTS FOR REVIEW SHALL BE DELIVERED TO THE ARCHITECT AT 1669 LOBDELL AVENUE, SUITE H1, BATON ROUGE, LA 70806. SMALL SIZE SHEET, NOT LARGER THAN 8-1/2" X 11 INCHES, WILL BE SUBMITTED TO THE ARCHITECT IN THE QUANTITY REQUIRED BY THE CONTRACTOR PLUS TWO COPIES THAT WILL BE RETAINED BY THE ARCHITECT. LARGE SHEETS, NOT LARGER THAN 36 X 48 INCHES WILL BE SUBMITTED TO THE ARCHITECT IN THE

QUANTITY REQUIRED BY THE CONTRACTOR PLUS TWO COPIES THAT WILL BE RETAINED BY THE ARCHITECT. 3. DOCUMENTS FOR PROJECT CLOSEOUT REQUIRE ONE REPRODUCTION OF SUBMITTAL ORIGINALLY REVIEWED, AND

4. THE CONTRACTOR SHALL SUBMIT ONE COPY OF PRODUCT SAMPLES. AFTER REVIEW, PRODUCE DUPLICATES AS REQUIRED. RETAINED SAMPLES WILL NOT BE RETURNED TO THE CONTRACTOR UNLESS SPECIFICALLY SO STATED.

5. TRANSMIT EACH SUBMITTAL WITH APPROVED FORM. SEQUENTIALLY NUMBER THE TRANSMITTAL FORM. REVISE SUBMITTALS WITH ORIGINAL NUMBER AND A SEQUENTIAL ALPHABETIC SUFFIX. 6. IDENTIFY PROJECT, CONTRACTOR, SUBCONTRACTOR OR SUPPLIER; PERTINENT DRAWING AND DETAIL NUMBER, AND

7. APPLY CONTRACTOR'S STAMP, SIGNED OR INITIALED CERTIFYING THAT REVIEW, APPROVAL, VERIFICATION OF PRODUCTS REQUIRED, FIELD DIMENSION, ADJACENT CONSTRUCTION WORK, AND COORDINATION OF INFORMATION IS IN ACCORDANCE WITH THE REQUIREMENTS OF THE WORK AND CONTRACT DOCUMENTS, WITHIN EACH

9. FOR EACH SUBMITTAL FOR REVIEW, ALLOW 10 DAYS EXCLUDING DELIVERY TIME TO AND FROM THE CONTRACTOR. 10. IDENTIFY VARIATIONS FROM CONTRACT DOCUMENTS AND PRODUCT OR SYSTEM LIMITATIONS THAT MAY BE DETRIMENTAL TO SUCCESSFUL PERFORMANCE OF THE COMPLETED WORK. WHEN REVISED FOR RESUBMISSION,

11. PROVIDE SPACE FOR CONTRACTOR AND ARCHITECT REVIEW STAMPS FOR EACH SUBMITTAL.

12. DISTRIBUTE REVIEWED SUBMITTALS AS APPROPRIATE. INSTRUCT PARTIES TO PROMPTLY REPORT ANY INABILITY TO COMPLY WITH REQUIREMENTS. SUBMITTALS NOT REQUESTED WILL NOT BE RECOGNIZED OR PROCESSED.

1. MONITOR QUALITY CONTROL OVER SUPPLIERS, MANUFACTURERS, PRODUCTS, SERVICES, SITE CONDITIONS, AND

2. COMPLY WITH MANUFACTURERS' INSTRUCTIONS, INCLUDING EACH STEP IN SEQUENCE. SHOULD MANUFACTURER'S INSTRUCTIONS CONFLICT WITH CONTRACT DOCUMENTS, REQUEST CLARIFICATION FROM THE ARCHITECT BEFORE

3. COMPLY WITH SPECIFIED STANDARDS AS MINIMUM QUALITY FOR THE WORK EXCEPT WHERE MORE STRINGENT TOLERANCES, CODES, OR SPECIFIED REQUIREMENTS INDICATE HIGHER STANDARDS OR MORE PRECISE WORKMANSHIP. HAVE WORK PERFORMED BY PERSONS QUALIFIED TO PRODUCE REQUIRED AND SPECIFIED

4. VERIFY THAT FIELD MEASUREMENTS ARE AS INDICATED ON SHOP DRAWINGS OR AS INSTRUCTED BY THE MANUFACTURER. SECURE PRODUCTS IN PLACE WITH POSITIVE ANCHORAGE DEVICES DESIGNED AND SIZED TO

WITHSTAND STRESSES, VIBRATION, PHYSICAL DISTORTION, AND DISFIGUREMENT. 5. MONITOR FABRICATION AND INSTALLATION TOLERANCE CONTROL OF PRODUCTS TO PRODUCE ACCEPTABLE WORK. DO NOT PERMIT TOLERANCES TO ACCUMULATE. COMPLY WITH MANUFACTURERS' TOLERANCES. SHOULD MANUFACTURERS' TOLERANCES CONFLICT WITH THE CONTRACT DOCUMENTS, REQUEST CLARIFICATION FROM

6. ADJUST PRODUCTS TO APPROPRIATE DIMENSIONS; POSITION BEFORE SECURING PRODUCTS IN PLACE. 7. TESTING AGENCIES ARE RESPONSIBLE FOR TESTING SAMPLES OF MIXES SUBMITTED BY CONTRACTOR, PROVIDE QUALIFIED PERSONNEL AT SITE, COOPERATE WITH ARCHITECT AND CONTRACTOR IN PERFORMANCE OF SERVICES, PERFORM SPECIFIED SAMPLING AND TESTING OF PRODUCTS IN ACCORDANCE WITH SPECIFIED STANDARDS, ASCERTAIN COMPLIANCE OF MATERIALS AND MIXES WITH REQUIREMENTS OF CONTRACT DOCUMENTS, PROMPTLY NOTIFY ARCHITECT AND CONTRACTOR OF OBSERVED IRREGULARITIES OR NON-CONFORMANCE OF WORK OR PRODUCTS, PERFORM ADDITIONAL TEST AND INSPECTIONS REQUIRED BY ARCHITECT, AND SUBMIT REPORTS OF ALL

8. TESTING AGENCIES MAY NOT RELEASE, REVOKE, ALTER, OR ENLARGE ON REQUIREMENTS OF CONTRACT DOCUMENTS. THEY MAY NOT APPROVE OR ACCEPT ANY PORTION OF THE WORK, ASSUME ANY DUTIES OF

9. SUBSTITUTIONS PROCEDURES: SUBMITTED REQUEST FOR SUBSTITUTIONS WILL BE CONSIDERED BY THE ARCHITECT. DOCUMENT EACH REQUEST WITH COMPLETE DATA SUBSTANTIATING COMPLIANCE OF PROPOSED SUBSTITUTION

10. A REQUEST FOR SUBSTITUTION CONSTITUTES A REPRESENTATION THAT THE SUBMITTER HAS INVESTIGATED PROPOSED PRODUCT AND DETERMINED THAT IT MEETS OR EXCEEDS THE QUALITY LEVEL OF THE SPECIFIED PRODUCT. CONTRACTOR TO PROVIDE THE SAME WARRANTY FOR THE SUBSTITUTION AS FOR THE SPECIFIED PRODUCT. CONTRACTOR TO COORDINATE INSTALLATION AND MAKE CHANGES TO OTHER WORK THAT MAY BE

REQUIRED FOR THE WORK TO BE COMPLETE WITH NO ADDITIONAL COST TO OWNER. CONTRACTOR WAIVES CLAIMS FOR ADDITIONAL COSTS OR TIME EXTENSION THAT MAY SUBSEQUENTLY BECOME APPARENT, AND THE CONTRACTOR WILL REIMBURSE OWNER/TENANT AND ARCHITECT FOR REVIEW OR REDESIGN SERVICES ASSOCIATED

11. SUBSTITUTIONS WILL NOT BE CONSIDERED WHEN THEY ARE INDICATED OR IMPLIED ON SHOP DRAWINGS OR PRODUCT DATA SUBMITTALS, WITHOUT SEPARATE WRITTEN REQUEST, OR WHEN ACCEPTANCE WILL REQUIRE REVISION TO THE BID DOCUMENTS.

1. VENTILATE ENCLOSED AREAS TO ASSIST CURE OF MATERIALS, TO DISSIPATE HUMIDITY, AND TO PREVENT

2. DUST CONTROL: EXECUTE WORK BY METHODS TO MINIMIZE RAISING DUST FROM CONSTRUCTION OPERATIONS. PROVIDE POSITIVE MEANS TO PREVENT AIR-BORNE DUST FROM DISPERSING INTO ATMOSPHERE AND OVER

3. PEST AND RODENT CONTROL: PROVIDE METHODS, MEANS, AND FACILITIES TO PREVENT PESTS AND INSECTS FROM

4. POLLUTION CONTROL: PROVIDE METHODS, MEANS, AND FACILITIES TO PREVENT CONTAMINATION OF SOIL, WATER, AND ATMOSPHERE FROM DISCHARGE OF NOXIOUS, TOXIC SUBSTANCES, AND POLLUTANTS PRODUCED BY

5. NOTIFY AFFECTED UTILITY COMPANIES AND COMPLY WITH THEIR REQUIREMENTS. VERIFY THAT UTILITY REQUIREMENTS AND CHARACTERISTICS OF NEW OPERATING EQUIPMENT ARE COMPATIBLE WITH BUILDING UTILITIES. COORDINATE WORK OF VARIOUS SECTIONS HAVING INTERDEPENDENT RESPONSIBILITIES FOR

6. COORDINATE SPACE REQUIREMENTS, SUPPORTS, AND INSTALLATION OF MECHANICAL AND ELECTRICAL WORK THAT ARE INDICATED DIAGRAMMATICALLY ON DRAWINGS. FOLLOW ROUTING SHOWN FOR PIPES, DUCTS, AND CONDUIT, AS CLOSELY AS PRACTICABLE; PLACE RUNS PARALLEL WITH LINES OF BUILDING. UTILIZE SPACES EFFICIENTLY TO MAXIMIZE ACCESSIBILITY FOR OTHER INSTALLATIONS, FOR MAINTENANCE, AND FOR REPAIRS.

7. IN FINISHED AREAS EXCEPT AS OTHERWISE INDICATED, CONCEAL PIPES, DUCTS, AND WIRING WITHIN THE CONSTRUCTION. COORDINATE LOCATIONS OF FIXTURES AND OUTLETS WITH FINISH ELEMENTS.

8. COORDINATE COMPLETION AND CLEAN-UP OF SEPARATE SECTIONS. AFTER OWNER OCCUPANCY OF PREMISES, COORDINATE ACCESS TO SITE FOR CORRECTION OF DEFECTIVE WORK AND WORK NOT IN ACCORDANCE WITH CONTRACT DOCUMENTS, TO MINIMIZE DISRUPTION OF OWNER'S ACTIVITIES. 9. VERIFY THAT EXISTING SITE CONDITIONS AND SUBSTRATES ARE ACCEPTABLE FOR SUBSEQUENT WORK. START OF

WORK MEANS ACCEPTANCE OF EXISTING CONDITIONS. VERIFY THAT EXISTING SUBSTRATE IS CAPABLE OF STRUCTURAL SUPPORT OR ATTACHMENT OF NEW WORK BEING APPLIED OR ATTACHED. TAKE FIELD MEASUREMENTS BEFORE CONFIRMING PRODUCT ORDERS OR BEGINNING FABRICATION, TO MINIMIZE WASTE DUE

TO OVER-ORDERING OR MISFABRICATION. VERIFY THAT UTILITY SERVICES ARE AVAILABLE, OR THE CORRECT CHARACTERISTICS, AND IN THE CORRECT LOCATIONS. PRIOR TO CUTTING: EXAMINE EXISTING CONDITIONS PRIOR TO COMMENCING WORK, INCLUDING ELEMENTS SUBJECT TO DAMAGE OR MOVEMENT DURING CUTTING AND PATCHING. AFTER UNCOVERING EXISTING WORK, ASSESS CONDITIONS AFFECTING PERFORMANCE OF WORK.

10. CLEAN SUBSTRATE SURFACES PRIOR TO APPLYING NEXT MATERIAL OR SUBSTANCE. SEAL CRACKS OR OPENINGS OF SUBSTRATE PRIOR TO APPLYING NEXT MATERIAL OR SUBSTANCE. APPLY MANUFACTURER REQUIRED OR RECOMMENDED SUBSTRATE PRIMER, SEALER, OR CONDITIONER PRIOR TO APPLYING ANY NEW MATERIAL OR

11. DEMONSTRATE START-UP, OPERATION, CONTROL, ADJUSTMENT, TROUBLE-SHOOTING, SERVICING, MAINTENANCE, AND SHUTDOWN OF EACH ITEM OF EQUIPMENT AT SCHEDULED TIME, AT EQUIPMENT LOCATION. FOR EQUIPMENT OR SYSTEMS REQUIRING SEASONAL OPERATION, PERFORM DEMONSTRATION FOR OTHER SEASON WITHIN SIX MONTHS. PROVIDE A QUALIFIED PERSON WHO IS KNOWLEDGEABLE ABOUT THE PROJECT TO PERFORM

12. EXECUTE FINAL CLEANING AFTER SUBSTANTIAL COMPLETION BUT BEFORE MAKING FINAL APPLICATION FOR PAYMENT. CLEAN AREAS TO BE OCCUPIED BY OWNER PRIOR TO FINAL COMPLETION BEFORE OWNER OCCUPANCY. CLEAN INTERIOR AND EXTERIOR GLASS, SURFACES EXPOSED TO VIEW; REMOVE TEMPORARY LABELS, STAINS AND FOREIGN SUBSTANCES, POLISH TRANSPARENT AND GLOSSY SURFACES, VACUUM CARPETED AND SOFT SURFACES. REPLACE FILTERS OF OPERATING EQUIPMENT. REMOVE WASTE, SURPLUS MATERIALS, TRASH/RUBBISH, AND CONSTRUCTION FACILITIES FROM THE SITE; DISPOSE OF IN LEGAL MANNER; DO NOT BURN OR BURY

3.2 FILL AND BACKFILL: A.FILL - GENERAL: PLACE SPECIFIED SOIL MATERIAL IN LAYERS TO REQUIRED SUBGRADE ELEVATIONS, FOR EACH AREA CLASSIFICATION LISTED BELOW: 1. BUILDING SLABS - USE CLAY BORROW FILL MATERIAL TO WITHIN 4" OF THE BOTTOM OF SLAB ELEVATION. PLACE IN 8 INCH MAXIMUM LOOSE THICKNESS LAYERS. COMPACT EACH LAYER TO 95% _ STANDARD PROCTOR DENSITY (ASTM D-698) AND TEST FOR APPROVAL PRIOR TO PROCEEDING WITH DOCUMENT SETS AS REQUIRED PRIOR TO FINAL SUBMISSION. THE SUBSEQUENT LAYERS. AS THE FINAL 4 INCH LAYER OF FILL IMMEDIATELY PRIOR TO THE **ഗ** PLACEMENT CONCRETE SLABS, USE THE SPECIFIED CAPILLARY BARRIER FILL MATERIAL AND COMPACT BY THE USE OF MECHANICAL TAMPING EQUIPMENT. B.FILLS SHALL BE PLACED IN 8" MAXIMUM LOOSE LAYERS, COMPACTED, AND PASS COMPACTION TEST OTHER SUBMITTALS WITHIN 10 DAYS AFTER DATE OF SUBSTANTIAL COMPLETION, PRIOR TO FINAL APPLICATION REQUIREMENTS PRIOR TO PLACING ADDITIONAL LAYERS. FOR PAYMENT. FOR ITEMS OF WORK FOR WHICH ACCEPTANCE IS DELAYED BEYOND DATE OF SUBSTANTIAL 3.3 COMPACTION: COMPLETION, SUBMIT WITHIN 10 DAYS AFTER ACCEPTANCE, LISTING THE DATE OF ACCEPTANCE AS THE BEGINNING 4 A.GENERAL: CONTROL SOIL COMPACTION DURING CONSTRUCTION TO PROVIDE THE FOLLOWING MINIMUM SPECIFIED PERCENTAGES OF MAXIMUM DENSITY AS DETERMINED BY ASTM D-698 (STANDARD PROCTOR \bigcirc TEST) FOR CLAYEY MATERIALS, AND ASTM D2049 (RELATIVE DENSITY) FOR GRANULAR MATERIALS. COMPACT THE TOP 6" OF EXISTING SUBGRADE AND EACH LAYER OF BACKFILL OR FILL MATERIAL: COMPONENT PARTS; IDENTIFY FUNCTION, NORMAL OPERATING CHARACTERISTICS, AND LIMITING CONDITIONS; O 1. UNDER BUILDING SLABS - 95% STANDARD PROCTOR OR 75% RELATIVE DENSITY, AS APPLICABLE TO INCLUDE PERFORMANCE CURVES, WITH ENGINEERING DATA AND TESTS; COMPLETE NOMENCLATURE AND THE MATERIAL USED. S MODEL NUMBER OF REPLACEABLE PARTS. B.MOISTURE CONTROL: CONTROL SOIL MOISTURE DURING COMPACTION OPERATIONS TO WITHIN 2% OF 6.2. PANELBOARD CIRCUIT DIRECTORIES: PROVIDE ELECTRICAL SERVICE CHARACTERISTICS, CONTROLS, AND OPTIMUM MOISTURE CONTENT FOR COMPACTION. WHERE SUBGRADE OR LAYER OF SOIL MATERIAL MUST S COMMUNICATIONS; TYPED. BE MOISTURE CONDITIONED BEFORE COMPACTION, UNIFORMLY APPLY WATER TO SURFACE OF SUBGRADE, 6.3. INCLUDE COLOR CODED WIRING DIAGRAMS AS INSTALLED. COORDINATE WITH OWNER/TENANT'S LABELING OR LAYER OF SOIL MATERIAL, TO PREVENT FREE WATER APPEARING ON SURFACE DURING OR SUBSEQUENT く SYSTEM. TO COMPACTION OPERATIONS. REMOVE AND REPLACE, OR SCARIFY AND AIR DRY, SOIL MATERIAL THAT IS 6.4. OPERATING PROCEDURES: INCLUDE STAR-UP, BRINK-IN, AND ROUTINE NORMAL OPERATING INSTRUCTION S TOO WET TO PERMIT COMPACTION TO SPECIFIED DENSITY. SOIL MATERIAL THAT HAS BEEN REMOVED ∞ AND SEQUENCES. INCLUDE REGULATION, CONTROL, STOPPING, SHUT-DOWN, AND EMERGENCY BECAUSE IT IS TOO WET TO PERMIT COMPACTION MAY BE STOCKPILED OR SPREAD AND ALLOWED TO DRY. INSTRUCTIONS. INCLUDE SUMMER, WINTER, AND ANY SPECIAL OPERATING INSTRUCTIONS. C. DO NOT PLACE FILL MATERIAL ON SURFACES THAT ARE MUDDY, FROZEN, OR CONTAIN FROST OR ICE. 6.5. MAINTENANCE REQUIREMENTS: INCLUDE ROUTINE PROCEDURES AND GUIDE FOR PREVENTATIVE PLACE FILL MATERIALS EVENLY ADJACENT TO STRUCTURES, TO REQUIRED ELEVATIONS. MAINTENANCE AND TROUBLE SHOOTING; DISASSEMBLE, REPAIR, AND REASSEMBLY INSTRUCTIONS; AND D. THE CONTRACTOR IS CAUTIONED THAT THE EXISTING NEAR SURFACE MATERIALS ARE SILTS AND SILTY ALIGNMENT, ADJUSTING, BALANCING, AND CHECKING INSTRUCTIONS. CLAYS WHICH MAY "PUMP" IF WORKED BY HEAVY EQUIPMENT IN WET CONDITIONS. IF PUMPING OF THE SUI 809 \supset 6.6. PROVIDE SERVICING AND LUBRICATION SCHEDULE, AND LIST OF LUBRICANTS REQUIRED. SUBGRADE OCCURS THE CONTRACTOR SHALL ATTEMPT TO ELIMINATE THE CONDITION BY THE ADDITION OF 6.7. INCLUDE MANUFACTURER'S PRINTED OPERATION AND MAINTENANCE INSTRUCTIONS. 5% LIME OR 8% FLY ASH BY VOLUME TO THE EXISTING MATERIALS; DRYING, MIXING, AND RECOMPACTING. 6.8. INCLUDE SEQUENCE OF OPERATION BY CONTROLS MANUFACTURER. OPTIONALLY, THE CONTRACTOR MAY BRIDGE OVER THE PUMPING MATERIALS BY THE PLACEMENT OF 12 $\Box \lor 4$ 6.9. PROVIDE ORIGINAL MANUFACTURER'S PARTS LIST, ILLUSTRATIONS, ASSEMBLY DRAWINGS, AND DIAGRAMS INCHES OF COMPACTED SAND OVER THE SUBGRADE. NO EXTRAS WILL BE PAID TO ACHIEVE A SATISFACTORY Ζ OA LA 947 REQUIRED FOR MAINTENANCE. STARTING SUBGRADE. 6.10. PROVIDE CONTROL DIAGRAMS BY CONTROLS MANUFACTURER AS INSTALLED. 3.4 EXCAVATION: Ο A.EXCAVATION CONSISTS OF REMOVAL AND DISPOSAL OF MATERIAL ENCOUNTERED WHEN ESTABLISHING REQUIRED FINISH GRADE ELEVATIONS. S B. UNAUTHORIZED EXCAVATION CONSISTS OF REMOVAL OF MATERIALS BEYOND INDICATED SUBGRADE MAINTENANCE AND OPERATION OF DESCRIBED PRODUCTS IN THE FORM OF AN INSTRUCTIONAL MANUAL. THE Ω ELEVATIONS OR DIMENSIONS WITHOUT SPECIFIC DIRECTION OF ARCHITECT. UNAUTHORIZED EXCAVATION, BINDER TO BE COMMERCIAL QUALITY, 8-1/2 X 11 INCHES, THREE D SIDE RING BINDERS WITH DURABLE PLASTIC AS WELL AS REMEDIAL WORK DIRECTED BY ARCHITECT, SHALL BE AT CONTRACTOR'S EXPENSE. UNDER \geq 国をお COVERS; 2 INCH MAXIMUM RING SIZE. WHEN MULTIPLE BINDERS ARE USED, CORRELATE DATA INTO RELATED FOOTINGS, FILL UNAUTHORIZED EXCAVATION BY EXTENDING INDICATED BOTTOM ELEVATION OF FOOTING CONSISTENT GROUPING. IDENTIFY COVER WITH "OPERATION AND MAINTENANCE INSTRUCTIONS"; IDENTIFY TITLE С→Ш TO EXCAVATION BOTTOM, WITHOUT ALTERING REQUIRED TOP ELEVATION. LEAN CONCRETE FILL MAY BE USED TO BRING ELEVATIONS TO PROPER POSITION, WHEN ACCEPTABLE TO ARCHITECT. ELSEWHERE, 705 VTOI HON BACKFILL AND COMPACT UNAUTHORIZED EXCAVATIONS AS SPECIFIED FOR AUTHORIZED EXCAVATIONS OF T SAME CLASSIFICATION, UNLESS OTHERWISE DIRECTED BY ARCHITECT. PH PH C.DEWATERING: PREVENT SURFACE WATER AND SUBSURFACE OR GROUND WATER FROM FLOWING INTO MANUFACTURERS, WITHIN 10 DAYS AFTER COMPLETION OF THE APPLICABLE ITEM OF WORK. EXCEPT FOR ITEMS EXCAVATIONS AND FROM FLOODING PROJECT SITE AND SURROUNDING AREA. DO NOT ALLOW WATER TO ACCUMULATE IN EXCAVATIONS. REMOVE WATER TO PREVENT SOFTENING OF FOUNDATION BOTTOMS, SUBSTANTIAL COMPLETION IS DETERMINED. VERIFY THAT DOCUMENTS ARE IN PROPER FORM, CONTAIN FULL UNDERCUTTING FOOTINGS, AND SOIL CHANGES DETRIMENTAL TO STABILITY OF SUBGRADES AND INFORMATION, AND NOT NOTARIZED. CO-EXECUTE SUBMITTALS WHEN REQUIRED. RETAIN WARRANTIES AND FOUNDATIONS. PROVIDE AND MAINTAIN PUMPS, WELL POINTS, SUMPS, SUCTION AND DISCHARGE LINES, AND OTHER DEWATERING SYSTEM COMPONENTS NECESSARY TO CONVEY WATER AWAY FROM EXCAVATIONS. CONVEY WATER REMOVED FROM EXCAVATIONS AND RAIN WATER TO COLLECTING OR RUN-OFF AREAS. ESTABLISH AND MAINTAIN TEMPORARY DRAINAGE DITCHES AND OTHER DIVERSIONS OUTSIDE EXCAVATION LIMITS FOR EACH STRUCTURE. DO NOT USE TRENCH EXCAVATIONS AS TEMPORARY DRAINAGE DITCHES. D. MATERIAL STORAGE: STOCKPILE SATISFACTORY EXCAVATED MATERIALS WHERE DIRECTED, UNTIL REQUIRED FOR BACKFILL OR FILL. PLACE, GRADE, AND SHAPE STOCKPILES FOR PROPER DRAINAGE. LOCATE AND RETAIN SOIL MATERIALS AWAY FROM EDGE OF EXCAVATIONS. DISPOSE OF EXCESS SOIL MATERIAL AND A.CODES AND STANDARDS: PERFORM EXCAVATION WORK IN COMPLIANCE WITH APPLICABLE REQUIREMENTS OF GOVERNING AUTHORITIES HAVING JURISDICTION. WASTE MATERIAL AS SPECIFIED. E. EXCAVATION FOR STRUCTURES: CONFORM TO ELEVATIONS AND DIMENSIONS SHOWN WITHIN A B.TESTING & INSPECTION SERVICE: AN INDEPENDENT TESTING LABORATORY SELECTED BY THE OWNER SHALL PERFORM TESTING AND INSPECTION SERVICES FOR QUALITY CONTROL TESTING DURING EARTHWORK TOLERANCE OF PLUS OR MINUS 0.10', AND EXTENDING A SUFFICIENT DISTANCE FROM FOOTINGS AND OPERATIONS. THE CONTRACTOR SHALL GIVE FULL COOPERATION TO THE TESTING LABORATORY PERSONNEL FOUNDATIONS TO PERMIT PLACING AND REMOVAL OF FORMWORK, INSTALLATION OF SERVICES, OTHER IN THE PERFORMANCE OF THEIR WORK, AND SHALL NOTIFY THEM SUFFICIENTLY IN ADVANCE OF NEED TO CONSTRUCTION, AND FOR INSPECTION. IN EXCAVATING FOR FOOTINGS AND FOUNDATIONS, TAKE CARE NOT ALLOW THEM TO MAN THE JOB WHEN REQUIRED. TO DISTURB BOTTOM OF EXCAVATION. EXCAVATE BY HAND TO FINAL GRADE JUST BEFORE CONCRETE REINFORCEMENT IS PLACED. TRIM BOTTOMS TO REQUIRED LINES AND GRADES TO LEAVE SOLID BASE TO Σ A.TEST REPORTS - EARTHWORK: SUBMIT THE FOLLOWING REPORTS DIRECTLY TO ARCHITECT FROM THE RECEIVE OTHER WORK. F. EXCAVATION FOR TRENCHES: DIG TRENCHES TO THE UNIFORM WIDTH REQUIRED FOR PARTICULAR ITEM TESTING SERVICES, WITH COPY TO CONTRACTOR: 1. TEST REPORTS ON BORROW MATERIAL, COMPARING IT WITH SPECIFICATION REQUIREMENTS. TO BE INSTALLED, SUFFICIENTLY WIDE TO PROVIDE AMPLE WORKING ROOM. EXCAVATE TRENCHES TO Ŷ DEPTH INDICATED OR REQUIRED. CARRY DEPTH OF TRENCHES FOR PIPING TO ESTABLISH INDICATED FLOW 2. OPTIMUM MOISTURE-MAXIMUM DENSITY CURVES FOR BORROW FILL AND EXISTING SUBGRADE LINES AND INVERT ELEVATIONS. BEYOND BUILDING PERIMETER. KEEP BOTTOMS OF TRENCHES SUFFICIENTLY MATERIAL. ら BELOW FINISH GRADE TO AVOID FREEZE-UPS. GRADE BOTTOMS OF TRENCHES AS INDICATED, NOTCHING 3. FIELD DENSITY TEST REPORTS. UNDER PIPE BELLS TO PROVIDE SOLID BEARING FOR ENTIRE BODY OF PIPE. DO NOT BACKFILL TRENCHES UNTIL TESTS AND INSPECTIONS HAVE BEEN MADE AND BACKFILLING IS AUTHORIZED BY ARCHITECT. USE A.EXISTING UTILITIES: LOCATE EXISTING UNDERGROUND UTILITIES IN AREA OF WORK. IF UTILITIES ARE TO CARE IN BACKFILLING TO AVOID DAMAGE OR DISPLACEMENT OF PIPE SYSTEMS. REMAIN IN PLACE, PROVIDE ADEQUATE MEANS OF PROTECTION DURING EARTHWORK. SHOULD Ζ UNCHARTED, OR INCORRECTLY CHARTED, PIPING OR OTHER UTILITIES BE ENCOUNTERED DURING 3.5 GRADING: EXCAVATION, CONSULT ARCHITECT IMMEDIATELY FOR DIRECTIONS. COOPERATE WITH THE OWNER AND A.GENERAL: UNIFORMLY GRADE AREAS WITHIN LIMITS OF GRADING UNDER THIS SECTION, INCLUDING O ADJACENT TRANSITION AREAS. SMOOTH FINISHED SURFACE WITHIN SPECIFIED TOLERANCES, COMPACT WITH UTILITY COMPANIES IN KEEPING RESPECTIVE SERVICES AND FACILITIES IN OPERATION. REPAIR DAMAGED UNIFORM LEVELS OR SLOPES BETWEEN POINTS WHERE ELEVATIONS ARE SHOWN, OR BETWEEN SUCH POINTS UTILITIES TO SATISFACTION OF THE UTILITY OWNER. DO NOT INTERRUPT EXISTING UTILITIES SERVING AND EXISTING GRADES. FACILITIES OCCUPIED AND USED BY OWNER OR BY OTHERS, EXCEPT WHEN PERMITTED IN WRITING BY B. GRADING OUTSIDE BUILDING LINES: GRADE AREAS ADJACENT TO BUILDING LINES TO DRAIN AWAY FROM ARCHITECT AND THEN ONLY AFTER ACCEPTABLE TEMPORARY UTILITY SERVICES HAVE BEEN PROVIDED. STRUCTURES AND TO PREVENT PONDING. FILL AND GRADE TO THE FINISHED SITE ELEVATIONS INDICATED. DEMOLISH AND COMPLETELY REMOVE FROM SITE EXISTING UNDERGROUND UTILITIES TO BE REMOVED. SURFACES FREE FROM IRREGULAR SURFACE CHANGES. ∽ ∩ COORDINATE WITH UTILITY COMPANIES FOR SHUT-OFF OF SERVICES IF LINES ARE ACTIVE. C.GRADING SURFACE OF FILL UNDER BUILDING SLABS: GRADE SMOOTH AND EVEN, FREE OF VOIDS, B.PROTECTION OF PERSONS & PROPERTY: BARRICADE OPEN EXCAVATIONS OCCURRING AS PART OF THIS COMPACTED AS SPECIFIED, AND TO REQUIRED ELEVATION. PROVIDE FINAL GRADES WITHIN A TOLERANCE OF WORK AND POST WITH WARNING LIGHTS. OPERATE WARNING LIGHTS AS RECOMMENDED BY AUTHORITIES 1/2" WHEN TESTED WITH A 10' STRAIGHTEDGE. HAVING JURISDICTION. PROTECT STRUCTURES, UTILITIES, SIDEWALKS, PAVEMENTS, AND OTHER FACILITIES D. COMPACTION: AFTER GRADING, COMPACT SUBGRADE SURFACES TO THE DEPTH AND PERCENTAGE OF M FROM DAMAGE CAUSED BY SETTLEMENT, LATERAL MOVEMENT, UNDERMINING, WASHOUT AND OTHER HAZARDS CREATED BY EARTHWORK OPERATIONS. MAXIMUM DENSITY SPECIFIED. 3.6 FIELD QUALITY CONTROL: A.QUALITY CONTROL TESTING DURING CONSTRUCTION: ALLOW TESTING SERVICE TO INSPECT AND APPROVE SUBGRADES AND FILL LAYERS BEFORE FURTHER CONSTRUCTION WORK IS PERFORMED. PERFORM FIELD ы С С A.CLAY BORROW FILL: A CLEAN, SELECT, SANDY CLAY, OR CLAYEY SAND; NON-EXPANSIVE; FREE OF CLAY DENSITY TESTS IN ACCORDANCE WITH APPLICABLE ASTM METHODS. BALLS, ROCK OR GRAVEL LARGER THAN 2" IN ANY DIMENSION, DEBRIS, WASTE, FROZEN MATERIALS, \bigcirc B.BUILDING SLAB SUBGRADE: MAKE AT LEAST ONE FIELD DENSITY TEST OF SUBGRADE FOR EVERY 2000 VEGETABLE AND OTHER DELETERIOUS MATTER. IT SHALL HAVE A PLASTICITY INDEX BETWEEN 10 AND 25, SQUARE FEET OF SLAB, BUT IN NO CASE LESS THAN 4 TESTS PER AREA. IN EACH COMPACTED FILL LAYER, AND A MAXIMUM LIQUID LIMIT OF 45. IT SHALL MEET THE REQUIREMENTS OF ASTM D2487-75 FOR MAKE ONE FIELD DENSITY TEST FOR EVERY 2000 SQUARE FEET OF OVERLAYING SLAB, BUT IN NO CASE LESS CLASSIFICATION AS CL MATERIAL. THAN 4 TESTS PER AREA. IF IN OPINION OF ARCHITECT, BASED ON TESTING LABORATORY REPORTS, B.CAPILLARY BARRIER FILL (FOR 4 INCH THICK FINAL LAYER OF BUILDING SLAB FILL OVER COMPACTED EARTH SUBGRADE OR FILLS WHICH HAVE BEEN PLACED ARE BELOW SPECIFIED DENSITY, PROVIDE ADDITIONAL SUBGRADES): IT SHALL BE A CLEAN, PIT RUN PEA GRAVEL AGGREGATE, CONTAINING NO ORGANIC COMPACTION AND TESTING AT NO ADDITIONAL EXPENSE TO THE OWNER. MATERIALS, GENERALLY CONFORMING TO ASTM C33, SIZE 7 (1/2 TO NO. 4, WITH LESS THAN 5% PASSING 3.7 MAINTENANCE: THE NO. 100 SIEVE. A.PROTECTION OF GRADED AREAS: PROTECT NEWLY GRADED AREAS FROM TRAFFIC AND EROSION. KEEP C. CRUSHED STONE BASE (OPTIONAL): IT SHALL BE A CLEAN, COARSE AGGREGATE, CONTAINING NO ORGANIC FREE OF TRASH AND DEBRIS. REPAIR AND REESTABLISH GRADES IN SETTLED, ERODED, AND RUTTED AREAS TO MATERIALS, CONFORMING TO ASTM C33, SIZE 57. SPECIFIED TOLERANCES. D. ALL FILL MATERIALS BROUGHT TO THE PROJECT SHALL BE APPROVED BY A REPRESENTATIVE OF THE L. HOFE B.RECONDITIONING COMPACTED AREAS: WHERE COMPLETED COMPACTED AREAS ARE DISTURBED BY SELECTED INDEPENDENT TESTING LABORATORY AS MEETING THE REQUIREMENTS OF THIS SPECIFICATION. SUBSEQUENT CONSTRUCTION OPERATIONS OR ADVERSE WEATHER, SCARIFY SURFACE, RESHAPE, AND COMPACT TO REQUIRED DENSITY PRIOR TO FURTHER CONSTRUCTION. 3.8 DISPOSAL OF EXCESS AND WASTE MATERIALS: A.REMOVE VEGETATION, DEBRIS, UNSATISFACTORY SOIL MATERIALS, OBSTRUCTIONS, AND DELETERIOUS A.REMOVE EXCESS AND WASTE MATERIALS, INCLUDING UNACCEPTABLE EXCAVATED MATERIAL, TRASH AND MATERIALS FROM GROUND SURFACE PRIOR TO PLACEMENT OF FILLS. STRIPPING AND REMOVAL SHALL BE DEBRIS, AND DISPOSE OFF OF OWNER'S PROPERTY. TO A MINIMUM DEPTH OF 3". PLOW, STRIP, OR BREAK UP SLOPED SURFACES STEEPER THAN 1 VERTICAL TO 4 HORIZONTAL SO THAT FILL MATERIAL WILL BOND WITH EXISTING SURFACE. AFTER STRIPPING, PROOF ROLL

OPERATED BY OWNER, SUBMIT COMPLETED DOCUMENTS WITHIN TEN DAYS AFTER ACCEPTANCE.

CLOSEOUT SUBMITTALS 1. SUBMIT TWO COPIES OF PRELIMINARY DRAFT OR PROPOSED FORMATS AND OUTLINES OF CONTENTS BEFORE START OF WORK. ARCHITECT WILL REVIEW DRAFT AND RETURN ONE COPY WITH COMMENTS. 2. FOR EQUIPMENT, OR COMPONENT PARTS OF EQUIPMENT PUT INTO SERVICE DURING CONSTRUCTION AND 3. SUBMIT ONE COPY OF COMPLETED DOCUMENTS 15 DAYS PRIOR TO FINAL INSPECTION. THIS COPY WILL BE REVIEWED AND RETURNED AFTER FINAL INSPECTION, WITH ARCHITECT COMMENTS. REVISE CONTENT OF ALL 4. SUBMIT TWO SETS OF REVISED FINAL DOCUMENTS IN FINIAL FORM WITHIN 10 DAYS AFTER FINAL INSPECTION. 5. WARRANTIES AND BONDS: FOR EQUIPMENT OR COMPONENTS PARTS OF EQUIPMENT PUT INTO SERVICE DURING CONSTRUCTION WITH OWNER'S PERMISSION, SUBMIT DOCUMENTS WITHIN 10 DAYS AFTER ACCEPTANCE. MAKE OF THE WARRANTY PERIOD. 6. OPERATION AND MAINTENANCE DATA FOR EQUIPMENT AND SYSTEMS: 6.1. FOR EACH ITEM OF EQUIPMENT AND EACH SYSTEM PROVIDE A DESCRIPTION OF UNIT OR SYSTEM, AND 6.11. PROVIDE CONTRACTOR'S COORDINATION DRAWINGS, WITH COLOR CODED PIPING DIAGRAMS AS INSTALLED. 6.12. ADDITIONAL REQUIREMENTS: AS SPECIFIED IN INDIVIDUAL PRODUCT SPECIFICATIONS SECTIONS. 7. OPERATION AND MAINTENANCE MANUALS: PREPARE INSTRUCTIONS AND DATA BY PERSONNEL EXPERIENCED IN OF PROJECT; IDENTIFY SUBJECT MATTER OF CONTENTS. PROVIDE TABBED DIVIDERS FORE EACH SEPARATE PRODUCT AND SYSTEM, WITH TYPED DESCRIPTION OF PRODUCT AND MAJOR COMPONENT PARTS OF EQUIPMENT. 8. PROVIDE THE ARCHITECT WITH AS-BUILT DRAWINGS WITH ALL REVISIONS FROM THE BID DOCUMENTS. 9. OBTAIN WARRANTIES AND BONDS, EXECUTED IN DUPLICATE BY RESPONSIBLE SUBCONTRACTORS, SUPPLIERS, AND PUT INTO USE WITH OWNER'S PERMISSION, LEAVE DATE OF BEGINNING OF TIME OF WARRANTY UNTIL THE DATE OF BONDS UNTIL TIME SPECIFIED FOR SUBMITTAL. PART 1 GENERAL 1.1 QUALITY ASSURANCE: 1.2 SUBMITTALS: 1.3 JOB CONDITIONS: PART 2 PRODUCTS 2.1 MATERIALS: PART 3 EXECUTION 3.1 CLEARING AND STRIPPING:

EARTHWORK FOR BUILDINGS

THE ENTIRE AREA BENEATH BUILDINGS AND PAVEMENTS WITH A RUBBER-TIRED VEHICLE LOADED TO BETWEEN 15 TONS AND 25 TONS, TO DETECT SOFT SPOTS IN THE SUBGRADE. DO NOT PROOF ROLL NOR ATTEMPT COMPACTION DURING EXTENDED PERIODS OF INCLEMENT WEATHER. REMOVE ALL SOFT AND

UNSATISFACTORY MATERIAL AND FILL THE RESULTING EXCAVATIONS WITH BORROW FILL MATERIALS. WHEN EXISTING GROUND SURFACE HAS A DENSITY LESS THAN THAT SPECIFIED UNDER "COMPACTION" FOR PARTICULAR AREA CLASSIFICATION, BREAK UP GROUND SURFACE, PULVERIZE, MOISTURE CONDITION TO OPTIMUM MOISTURE CONTENT, AND COMPACT TO REQUIRED DEPTH AND PERCENTAGE OF MAXIMUM DENSITY. STRIPPED MATERIALS SHALL BE PLACED AND GRADED IN AREAS OF THE SITE DESIGNATED BY THE ARCHITECT. THESE AREAS WILL BE OUTSIDE THE AREA OF NEW BUILDING CONSTRUCTION.

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Date

CAST - IN - PLACE CONCRETE PART 1 GENERAL

1.1 QUALITY ASSURANCE:

A.CODES AND STANDARDS: IN ADDITION TO COMPLYING WITH ALL PERTINENT CODES AND REGULATIONS, COMPLY WITH ALL REQUIREMENTS OF "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS, ACI 301-10." THIS SPECIFICATION TOGETHER WITH ALL RELATED TECHNICAL REFERENCES CONTAINED THEREIN SHALL GOVERN THE CAST IN PLACE CONCRETE WORK FOR THIS PROJECT.

1.2 SUBMITTALS:

A.PRODUCT DATA: SUBMIT MANUFACTURER'S PRODUCT DATA WITH APPLICATION AND INSTALLATION INSTRUCTIONS FOR PROPRIETARY MATERIALS AND ITEMS, INCLUDING REINFORCEMENT AND FORMING ACCESSORIES, ADMIXTURES, PATCHING COMPOUNDS, JOINT SYSTEMS, CURING COMPOUNDS, DRY-SHAKE FINISH MATERIALS. AND OTHERS AS REQUESTED BY ARCHITECT.

B.SHOP DRAWINGS - REINFORCEMENT: SUBMIT SHOP DRAWINGS FOR FABRICATION, BENDING, AND PLACEMENT OF CONCRETE REINFORCEMENT. SHOP DRAWINGS SHALL PROVIDE ELEVATIONS OF ALL GRADE BEAMS AND FOUNDATION WALLS TO A SCALE WHICH CAN CLEARLY SHOW ALL REINFORCING STEEL IN THE BEAMS. COMPLY WITH ACI 315 "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES" SHOWING BAR SCHEDULES, STIRRUP SPACING, DIAGRAMS OF BENT BARS, ARRANGEMENT OF CONCRETE REINFORCEMENT. INCLUDE COMPLETE LIST OF SUPPORT BARS AND ACCESSORIES WITH CLEAR INSTRUCTIONS REGARDING THEIR LOCATION AND PLACEMENT.

C.SAMPLES: SUBMIT SAMPLES OF MATERIALS AS SPECIFIED AND AS OTHERWISE REQUESTED BY ARCHITECT, INCLUDING NAMES, SOURCES, AND DESCRIPTIONS.

D. LABORATORY TEST REPORTS: SUBMIT LABORATORY TEST REPORTS FOR CONCRETE MATERIALS AND MIX DESIGN TESTS AS SPECIFIED.

E. MATERIAL CERTIFICATES: PROVIDE MATERIALS CERTIFICATES IN LIEU OF MATERIAL'S LABORATORY TEST REPORTS WHEN PERMITTED BY ARCHITECT. THE CONTRACTOR SHALL CERTIFY THAT EACH MATERIAL ITEM COMPLIES OR EXCEEDS SPECIFIED REQUIREMENTS.

1.3 SUPPLEMENTAL REQUIREMENTS TO ACI 301-16:

A.ALL CONCRETE FOR THE PROJECT SHALL BE A NORMAL WEIGHT MIX (150 PCF) AND SHALL ATTAIN 3000 PSI COMPRESSIVE STRENGTH AT 28 DAYS. ALL CONCRETE SHALL HAVE A MINIMUM CEMENT CONTENT OF 500 POUNDS PER CUBIC YARD AND A MAXIMUM WATER/CEMENT RATIO OF 0.52 BY WEIGHT. AT THE CONTRACTOR'S OPTION, A MAXIMUM OF 20% FLY ASH OR SLAG CEMENT REPLACEMENT OF CEMENT MAY BE USED. FLY ASH SHALL CONFORM TO ASTM C-618, CLASS C. SLAG CEMENT SHALL CONFORM TO ASTM C-989, GRADE 120. A WATER REDUCING ADMIXTURE SHALL BE USED IN ALL CONCRETE MIXES. REINFORCING STEEL FOR THIS PROJECT SHALL ASTM A615, GRADE 60.

B.ALL TESTING AND INSPECTION OF CONCRETE REQUIRED BY THIS CHAPTER SHALL BE DONE BY AN INDEPENDENT TESTING LABORATORY RETAINED BY THE OWNER EXCEPT THOSE HEREIN DELETED. BATCH PLANT INSPECTION WILL NOT BE REQUIRED.

C.COARSE AGGREGATE SIZE SHALL BE ASTM C33, SIZE NO. 67 (3/4" TO NO. 4) FOR ALL CONCRETE.

1.4 ARCHITECT INSPECTION:

A.DO NOT PLACE ANY CONCRETE UNTIL THE ENTIRE PREPARATION FOR PLACEMENT HAVE BEEN INSPECTED AND APPROVED BY A REPRESENTATIVE OF THE ARCHITECT. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT AT LEAST 24 HOURS IN ADVANCE OF ANY PLANNED CONCRETE PLACEMENT TO ALLOW TIME FOR THE **REQUIRED INSPECTIONS.**

JOINT SEALERS

1. WARRANTY: INCLUDE COVERAGE FOR INSTALLED SEALANTS AND ACCESSORIES WHICH FAIL TO ACHIEVE AIRTIGHT SEAL, EXHIBIT LOSS OF ADHESION OR COHESION, OR DO NOT CURE. 2 MANUFACTURERS

2.1. SILICONE SEALANTS (TYPE A): BOSTIK INC; PRODUCT CHEM-CALK 1200: WWW. BOSTIK-US.COM. TREMCO ; PRODUCT SPECTREM 1. APPROVED EQUAL.

2.2. POLYURETHANE SEALANTS (TYPE B): BASF CONSTRUCTION CHEMICALS-BUILDING SYSTEMS; PRODUCT SONOLASTIC NP1: WWW.CHEMREX.COM. APPROVED EQUAL

2.3. ACRYLIC EMULSION LATEX SEALANTS (TYPE C): BOSTIK INC; PRODUCT CHEM-CALK 600: WWW.BOSTIK- US.COM. TREMCO ; PRODUCT ACRYLIC LATEX 834. APPROVED EQUAL. 3. PRIMER: NON-STAINING TYPE, RECOMMENDED BY SEALANT MANUFACTURER TO SUIT APPLICATION.

4. JOINT CLEANER: NON-CORROSIVE AND NON-STAINING TYPE, RECOMMENDED BY SEALANT MANUFACTURER; COMPATIBLE WITH JOINT FORMING MATERIALS. 5. JOINT BACKING: ROUND FOAM ROD COMPATIBLE WITH SEALANT; ASTM D 1056, SPONGE OR EXPANDED

RUBBER; OVERSIZED 30 TO 50 PERCENT LARGER THAN JOINT WIDTH. 6. BOND BREAKER: PRESSURE SENSITIVE TAPE RECOMMENDED BY SEALANT MANUFACTURER TO SUIT APPLICATION.

7. TO PREPARE THE SURFACE REMOVE LOOSE MATERIALS AND FOREIGN MATTER THAT COULD IMPAIR ADHESION OF SEALANT. CLEAN AND PRIME JOINTS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. PERFORM PREPARATION IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS AND ASTM C 1193. PROTECT ELEMENTS SURROUNDING THE WORK OF THIS SECTION FROM DAMAGE OR DISFIGUREMENT.

8. PRECOMPRESSED FOAM SEALANT: DO NOT STRETCH; AVOID JOINTS EXCEPT AT CORNERS, ENDS, AND INTERSECTIONS; INSTALL WITH FACE 1/8 TO 1/4 INCH (3 TO 6 MM) BELOW ADJOINING SURFACE. 9. COMPRESSION GASKETS: AVOID JOINTS EXCEPT AT ENDS, CORNERS, AND INTERSECTIONS; SEAL ALL JOINTS WITH ADHESIVE; INSTALL WITH FACE 1/8 TO 1/4 INCH (3 TO 6 MM) BELOW ADJOINING SURFACE. 10. SCHEDULE

LOCATION	TYPE	COLOR
PERIMETER OF EXTERIOR OPENINGS	В	MATCH WALL COLOR
SHEET METAL FLASHINGS	В	MATCH FLASHING COLOR
UNDER THRESHOLDS	В	MATCH THRESHOLD COLOR
BETWEEN BOTTOM STUD AND FLOOR	В	BLACK
INTERIOR DOOR FRAME/WALLS	С	PAINTABLE

METAL ROOF PANELS

- 1. MANUFACTURER METAL ROOF PANEL EQUAL TO: A. METAL SALES MANUFACTURING CORPORATION IMAGE II
- **B. SUBSTITUTIONS AS APPROVED BY ARCHITECT** 2. MATERIALS AND FINISHES: A.PREFORMED ROOFING PANELS SHALL BE FABRICATED OF ALUMINUM-ZINC ALLOY-COATED STEEL SHEET, ASTM A 792, CLASS AZ50 OR AZ55 COATING DESIGNATION. STRUCTURAL QUALITY, GRADE 50, 0.0184-INCH MINIMUM THICKNESS. SELECT AZ50 FOR PAINTED MATERIAL OR AZ55 FOR UNPAINTED MATERIAL
- B.FINISH SHALL BE GALVALUME. COLOR SELECTION BY ARCHITECT C. IF STRIPPABLE COATING TO BE APPLIED ON THE PRE-FINISHED PANELS TO THE TOP SIDE TO PROTECT THE FINISH DURING FABRICATION, SHIPPING AND HANDLING, FILM
- SHALL BE REMOVED BEFORE INSTALLATION. D. TRIM: TRIM SHALL BE FABRICATED OF THE SAME MATERIAL AND FINISH TO MATCH THE ROOF PANELS, AND WILL BE PRESS BROKEN IN LENGTHS OF 10 TO 12 FEET. TRIM SHALL BE FORMED ONLY BY THE MANUFACTURER OF THEIR APPROVED DEALER. TRIM TO BE ERECTED IN OVERLAPPED CONDITION. USE LAP STRIPS ONLY AS INDICATED ON DRAWINGS. MITER CONDITIONS SHALL BE FACTORY WELDED MATERIAL TO MATCH
- THE SHEETING. E. CLOSURES: USE COMPOSITION OR METAL PROFILED CLOSURES AT THE TOP OF EACH ELEVATION TO CLOSE ENDS OF THE PANELS. METAL CLOSURES TO BE MADE IN THE
- SAME MATERIAL AND FINISH AS FACE SHEET.
- F. FASTENERS: FASTENERS SHALL BE OF TYPE, MATERIAL, SIZE, CORROSION RESISTANCE, HOLDING POWER AND OTHER PROPERTIES REQUIRED TO FASTEN MISCELLANEOUS FRAMING MEMBERS TO SUBSTRATES.
- G.SEALANTS a. PROVIDE TWO-PART POLYSULFIDE CLASS B NON-SAG TYPE FOR VERTICAL AND
- HORIZONTAL JOINTS OR
- b. ONE PART POLYSULFIDE NOT CONTAINING PITCH OR PHENOLIC EXTENDERS OR c. EXTERIOR GRADE SILICONE SEALANT RECOMMENDED BY ROOFING
- MANUFACTURER OR

SURFACE DAMAGE.

- **ROUGH CARPENTRY** 1. GENERAL: COVER WOOD PRODUCTS TO PROTECT AGAINST MOISTURE. SUPPORT STACKED PRODUCTS TO PREVENT DEFORMATION AND TO ALLOW AIR CIRCULATION.
- 2. DIMENSION LUMBER FOR CONCEALED APPLICATIONS TO BE GRADING AGENCY: SOUTHERN PINE INSPECTION BUREAU, INC. (SPIB); SIZES: NOMINAL SIZES AS INDICATED ON DRAWINGS, S4S; MOISTURE CONTENT: S-DRY OR MC19.
- LOCATIONS, UNFINISHED STEEL ELSEWHERE.
- APPEARANCE OF EXPOSED MEMBERS.
- 7. MAKE PROVISIONS FOR TEMPORARY CONSTRUCTION LOADS, AND PROVIDE TEMPORARY BRACING SUFFICIENT TO MAINTAIN STRUCTURE IN TRUE ALIGNMENT AND SAFE CONDITION UNTIL COMPLETION OF ERECTION AND INSTALLATION OF PERMANENT BRACING.
- 8. PROVIDE FRAMING AND BLOCKING MEMBERS AS INDICATED OR AS REQUIRED TO SUPPORT FINISHES, FIXTURES, SPECIALTY ITEMS, AND TRIM.

- d. ONE PART NON-SAG, GUN GRADE EXTERIOR TYPE POLYURETHANE
- RECOMMENDED BY THE ROOFING MANUFACTURER.
- H.HANDLING AND STORAGE: HANDLE & STORE PRODUCT ACCORDING TO MANUFACTURER RECOMMENDATIONS. DELIVER MATERIALS IN ORIGINAL, UNOPENED, UNDAMAGED CONTAINERS WITH IDENTIFICATION LABELS INTACT. STORE MATERIALS ABOVE GROUND, UNDER WATERPROOF COVERING, PROTECTED FROM EXPOSURE TO HARMFUL WEATHER CONDITIONS AND AT TERMPERATURE AND HUMIDITY CONDITIONS RECOMMENDED BY MANUFACTUER. PROVIDE PROPER VENTILATION OF PANEL SYSTEM TO PREVENT CONDENSATION BUILD-UP BETWEEN EACH PANEL AND TRIM OR FLASHING COMPONENT. STORE METAL PANEL PRODUCTS IN MANUFACTURER'S UNOPENED PACKAGING UNTIL READY FOR INSTALLATION. EXERCISE CAUTION IN UNLOADING AND HANDLING METAL PANEL SYSTEM TO PREVENT BENDING, WARPING, TWISTING AND
- 3. MISCELLANEOUS FRAMING, BLOCKING, NAILERS, GROUNDS, AND FURRING TO BE S4S, NO. 2 OR STANDARD GRADE. BOARDS TO BE STANDARD OR NO. 3. 4. METAL AND FINISH FASTENERS AND ANCHORS: HOT-DIPPED GALVANIZED STEEL PER
- ASTM A 153/A 153M FOR HIGH HUMIDITY AND PRESERVATIVE-TREATED WOOD
- 5. SILL GASKET ON TOP OF FOUNDATION WALL: 1/4 INCH (6 MM) THICK, PLATE WIDTH, CLOSED CELL PLASTIC FOAM FROM CONTINUOUS ROLLS.
- 6. SET STRUCTURAL MEMBERS LEVEL, PLUMB, AND TRUE TO LINE. DISCARD PIECES WITH DEFECTS THAT WOULD LOWER REQUIRED STRENGTH OR RESULT IN UNACCEPTABLE

- 1. SCOPE: FINISH ALL INTERIOR AND EXTERIOR SURFACES EXPOSED TO VIEW, UNLESS FULLY FACTORY-FINISHED AND UNLESS OTHERWISE INDICATED, INCLUDING THE FOLLOWING: A. EXPOSED SURFACES OF STEEL LINTELS AND LEDGE ANGLES.
- B. MECHANICAL AND ELECTRICAL: IN FINISHED AREAS, PAINT ALL INSULATED AND EXPOSED PIPES, CONDUIT, BOXES, INSULATED AND EXPOSED DUCTS, HANGERS, BRACKETS, COLLARS AND SUPPORTS, MECHANICAL EQUIPMENT, AND ELECTRICAL EQUIPMENT, UNLESS OTHERWISE INDICATED.
- 2. DO NOT PAINT OR FINISH THE FOLLOWING ITEMS: A. ITEMS FULLY FACTORY-FINISHED UNLESS SPECIFICALLY SO INDICATED; MATERIALS AND PRODUCTS HAVING FACTORY-APPLIED PRIMERS ARE NOT CONSIDERED FACTORY FINISHED.
- B. ITEMS INDICATED TO RECEIVE OTHER FINISHES. C. ITEMS INDICATED TO REMAIN UNFINISHED.
- D. FIRE RATING LABELS, EQUIPMENT SERIAL NUMBER AND CAPACITY LABELS, AND OPERATING PARTS OF EQUIPMENT.
- E. GLASS. F. CONCEALED PIPES, DUCTS, AND CONDUITS.
- 3. PROVIDE PRODUCT DATA ON ALL FINISHING PRODUCTS, INCLUDING VOC CONTENT.
- 4. MAINTENANCE MATERIALS: FURNISH THE FOLLOWING FOR OWNER'S USE IN MAINTENANCE OF PROJECT. A. EXTRA PAINT AND COATINGS: 1 GALLON (4 L) OF EACH COLOR; STORE WHERE DIRECTED.
- B. LABEL EACH CONTAINER WITH COLOR IN ADDITION TO THE MANUFACTURER'S LABEL.
- 5. DELIVER PRODUCTS TO SITE IN SEALED AND LABELED CONTAINERS; INSPECT TO VERIFY ACCEPTABILITY. 6. CONTAINER LABEL: INCLUDE MANUFACTURER'S NAME, TYPE OF PAINT, BRAND NAME, LOT NUMBER, BRAND CODE, COVERAGE, SURFACE PREPARATION, DRYING TIME, CLEANUP REQUIREMENTS, COLOR DESIGNATION, AND INSTRUCTIONS FOR MIXING AND REDUCING.
- 7. FOLLOW MANUFACTURER'S RECOMMENDED PROCEDURES FOR PRODUCING BEST RESULTS, INCLUDING TESTING OF SUBSTRATES, PREPARATION OF SURFACES, MOISTURE IN SUBSTRATES, AND HUMIDITY AND TEMPERATURE LIMITATIONS.
- 8. PROVIDE LIGHTING LEVEL OF 80 FT CANDLES (860 LX) MEASURED MID-HEIGHT AT SUBSTRATE SURFACE. 9. PROVIDE ALL PAINT AND COATING PRODUCTS USED IN ANY INDIVIDUAL SYSTEM FROM THE SAME MANUFACTURER; NO EXCEPTIONS. PROVIDE ALL PAINT AND COATING PRODUCTS FROM THE SAME MANUFACTURER TO THE GREATEST EXTENT POSSIBLE.
- 10. BASE MANUFACTURER: THE SHERWIN-WILLIAMS COMPANY. BENJAMIN MOORE & CO. OR APPROVED EQUAL.
- 11. PAINTS AND COATINGS: READY MIXED, UNLESS INTENDED TO BE A FIELD-CATALYZED COATING. A. PROVIDE PAINTS AND COATINGS OF A SOFT PASTE CONSISTENCY, CAPABLE OF BEING READILY AND UNIFORMLY DISPERSED TO A HOMOGENEOUS COATING, WITH GOOD FLOW AND BRUSHING PROPERTIES, AND CAPABLE OF DRYING OR CURING FREE OF STREAKS OR SAGS.
- B. SUPPLY EACH COATING MATERIAL IN QUANTITY REQUIRED TO COMPLETE ENTIRE PROJECT'S WORK FROM A SINGLE PRODUCTION RUN.
- 12. DO NOT REDUCE, THIN, OR DILUTE COATINGS OR ADD MATERIALS TO COATINGS UNLESS SUCH PROCEDURE IS SPECIFICALLY DESCRIBED IN MANUFACTURER'S PRODUCT INSTRUCTIONS.
- 13. PRIMERS: WHERE THE MANUFACTURER OFFERS OPTIONS ON PRIMERS FOR A PARTICULAR SUBSTRATE, USE PRIMER CATEGORIZED AS "BEST" BY THE MANUFACTURER
- 14. VOLATILE ORGANIC COMPOUND (VOC) CONTENT: PROVIDE COATINGS THAT COMPLY WITH THE MOST STRINGENT REQUIREMENTS SPECIFIED. 40 CFR 59, SUBPART D--NATIONAL VOLATILE ORGANIC COMPOUND EMISSION STANDARDS FOR ARCHITECTURAL COATINGS.
- 15. COLORS: AS SELECTED BY ARCHITECT
- A. SELECTION TO BE MADE BY ARCHITECT AFTER AWARD OF CONTRACT. B. IN FINISHED AREAS, FINISH PIPES, DUCTS, CONDUIT, AND EQUIPMENT THE SAME COLOR AS THE
- WALL/CEILING THEY ARE MOUNTED ON/UNDER.
- 16. PAINT SYSTEMS A. PAINTED METAL
- a. 3 COATS: S-W PRO INDUSTRIAL URETHANE ALKYD ENAMEL (4 MILS WET, 1.8 MILS DRY PER COAT) 17. ACCESSORY MATERIALS: PROVIDE ALL PRIMERS, SEALERS, CLEANING AGENTS, CLEANING CLOTHS, SANDING MATERIALS, AND CLEAN-UP MATERIALS REQUIRED TO ACHIEVE THE FINISHES SPECIFIED WHETHER SPECIFICALLY INDICATED OR NOT; COMMERCIAL QUALITY. PATCHING MATERIAL: LATEX FILLER. FASTENER HEAD COVER MATERIAL: LATEX FILLER.
- 18. EXAMINE SURFACES SCHEDULED TO BE FINISHED PRIOR TO COMMENCEMENT OF WORK. REPORT ANY CONDITION THAT MAY POTENTIALLY AFFECT PROPER APPLICATION.
- 19. CLEAN SURFACES THOROUGHLY AND CORRECT DEFECTS PRIOR TO COATING APPLICATION. 20. REMOVE OR MASK SURFACE APPURTENANCES, INCLUDING ELECTRICAL PLATES, HARDWARE, LIGHT FIXTURE
- TRIM, ESCUTCHEONS, AND FITTINGS, PRIOR TO PREPARING SURFACES OR FINISHING 21. REMOVE MILDEW FROM IMPERVIOUS SURFACES BY SCRUBBING WITH SOLUTION OF TETRA-SODIUM PHOSPHATE AND BLEACH. RINSE WITH CLEAN WATER AND ALLOW SURFACE TO DRY.
- 22. ALUMINUM SURFACES TO BE PAINTED: REMOVE SURFACE CONTAMINATION BY STEAM OR HIGH PRESSURE WATER. REMOVE OXIDATION WITH ACID ETCH AND SOLVENT WASHING. APPLY ETCHING PRIMER IMMEDIATELY FOLLOWING CLEANING.
- 23. GALVANIZED SURFACES TO BE PAINTED: REMOVE SURFACE CONTAMINATION AND OILS AND WASH WITH SOLVENT. APPLY COAT OF ETCHING PRIMER.
- 24. SHOP-PRIMED STEEL SURFACES TO BE FINISH PAINTED: SAND AND SCRAPE TO REMOVE LOOSE PRIMER AND RUST. FEATHER EDGES TO MAKE TOUCH-UP PATCHES INCONSPICUOUS. CLEAN SURFACES WITH SOLVENT. PRIME BARE STEEL SURFACES. RE-PRIME ENTIRE SHOP-PRIMED ITEM.
- 25. REMOVE UNFINISHED LOUVERS, GRILLES, COVERS, AND ACCESS PANELS ON MECHANICAL AND ELECTRICAL COMPONENTS AND PAINT SEPARATELY.
- 26. APPLY PRODUCTS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
- 27. APPLY EACH COAT TO UNIFORM APPEARANCE. 28. DARK COLORS AND DEEP CLEAR COLORS: REGARDLESS OF NUMBER OF COATS SPECIFIED, APPLY AS MANY COATS AS NECESSARY FOR COMPLETE HIDE.
- 29. SAND WOOD AND METAL SURFACES LIGHTLY BETWEEN COATS TO ACHIEVE REQUIRED FINISH. 30. VACUUM CLEAN SURFACES OF LOOSE PARTICLES. USE TACK CLOTH TO REMOVE DUST AND PARTICLES JUST PRIOR TO APPLYING NEXT COAT.
- 31. REINSTALL ELECTRICAL COVER PLATES, HARDWARE, LIGHT FIXTURE TRIM, ESCUTCHEONS, AND FITTINGS REMOVED PRIOR TO FINISHING.
- 32. COLLECT WASTE MATERIAL THAT COULD CONSTITUTE A FIRE HAZARD, PLACE IN CLOSED METAL CONTAINERS, AND REMOVE DAILY FROM SITE.
- 33. PROTECT FINISHED COATINGS UNTIL COMPLETION OF PROJECT.
- 34. TOUCH-UP DAMAGED COATINGS AFTER SUBSTANTIAL COMPLETION.













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DETAIL - PAVILION GRADE BEAM



-CB1212 SIMPSON STRONG TIE COLUMN BASE IN BLACK, INSTALL & BOLT TO POST PER MANUF. REQUIREMENTS -3500 PSI CONCRETE SLAB & GRADE BEAM (CHAMFER SLAB EDGE)

-CRUSHED GRANITE, RE: CIVIL

-12X12 SOUTHERN PINE TREATED WOOD POST, STAINED



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NO



A1.3









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-1X6 WOOD TRIM -2X6 WOOD BOARDS

—3/8" X 4" WOOD TRIM

-1X6 WOOD TRIM

4X4 TREATED WOOD POSTS

-2X6 WOOD BOARD SIDING GARDEN FILL BY OWNER —3/8" X 4" WOOD TRIM

-LANDSCAPE FABRIC

-TREATED 2X8 @ 12" O.C., STAINED -TREATED 2X10 SUPPORTS ON EITHER SIDE OF POSTS,

-TREATED 6X6 WOOD POST, STAINED -6X6 STEEL POST, MATTE BLACK

GATE MANUF. -DOUBLE WROUGHT IRON GATE, FINAL DESIGN TO BE COORDINATED WITH

STONE CAP -CRUSHED GRANITE

PATH, RE: CIVIL -3500 PSI CONCRETE POST FOOTING

CAST IRON MANHOLE

FRAME AND COVER

#5 @ 12" E.W. ON CENTER

#5 @ 12" E.W. ON CENTER

~ 2-#5 (TYP)

BACKFILL MATERIAL (QUALITY EXCAVATION OR SELECT MATERIAL).

IF UNDER PAVEMENT COMPACT TO 95% STANDARD PROCTOR DENSITY.

IF OUTSIDE LIMITS OF PAVED SURFACE COMPACT TO A DENSITY AT LEAST EQUAL TO SURROUNDING UNDISTURBED SOIL.

BACKFILL MATERIAL (QUALITY EXCAVATION OR SELECT MATERIAL) COMPACTED TO 95% STANDARD PROCTOR DENSITY.

GRANULAR BEDDING MATERIAL (65% GRAVEL, 35% SAND, ±5%) COMPACT TO 95% STANDARD PROCTOR DENSITY.

ASSOCIATES **%** LUKE 10705 RIEGER ROAD, SUITE BATON ROUGE, LA 70809 PHONE 225-293-9474 THOMPSON

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TLA NO: 22-242 DRAWN: CHC CHECKED: CHC

Installation: Stand the grate on end. Place the Dandy Bag[®]over the grate. role the grate over so that the open end is up. Pull up the slack. tuck the flap in. Press the velcor strips together. be sure that the end of the grateing is completely covered by the flap or the Dandy Bag[®] will not work properly. Hold the handles, carefully place the Dandy Bag[®] with the grate inserted into the catch basin frame.

Maintenance: To insure proper operation, remove silt, sediment, and debris from the surface and the vicinity of the unit with a square point shovel or stiff bristle broom away from environmentally sensitive areas and waterways in a manner satisfactory to the engineer/inspector. remove fine material from inside Dandy Bag[®]as needed. Dispose of Dandy Bag no longer in use at an appropriate recycling or solid waste facility.

CELECIRICAL SY			UNAWINGS AND SPECIFICATIONS FOR FURTHER REQUIREMEN	<u>ELE</u>	CTRICAL GENERAL NOTES			PART 1 1.1	1.0 GENERAL GENERAL CONDITIONS		
<u>;ENERAL</u>		TELECOMM (JACKET COLO	IUNICATIONS ORS TO BE PER THE OWNER'S STANDARDS IF APPLICABLE)	_ 1.	ALL ELECTRICAL WORK SHALL BE DONE IN STRICT ACCOR ELECTRICAL CODE AS ADOPTED BY THE AHJ.			A.	The General Conditions and Supplementary General Conditio and be thoroughly familiar with all provisions of the General C	ons are a part of this sec conditions. These condit	tion of these Specifications. The Contractor is cautioned to ions shall be complied with in every aspect. The word "sh
(1) KEYN		#	DUPLEX DATA OUTLET; REFER TO TELECOMMUNICATIONS NOTES FOR MORE	2.	PLACE," THAT IS "FURNISH AND "PROVIDED" AS USED HEREIN PLACE," THAT IS "FURNISH AND INSTALL". EQUIPMENT AND OTHERWISE NOTED AND SHALL BE OF THE MOST SUITABL	I SHALL BE UN) MATERIAL INI E GRADE FOR	DERSTOOD TO MEAN, "PROVIDE COMPLETE IN DICATED TO BE PROVIDED SHALL BE NEW UNLESS THE PURPOSE INTENDED.	В.	The entire electrical work shall comply with the rules and regular so shown on plans or not.	lations of the State, incl	uding the State Fire Marshal and State Board of Health, v
A-1,3 CIRCU AS IN	DICATED; E.G. PANEL "A", CIRCUIT #1,3		INFORMATION. PROVIDE (2) CABLES UNLESS INDICATED OTHERWISE BY NUMBER ADJACENT TO SYMBOL.	3.	ROUTE NEW CONDUIT AND WIRING CONCEALED IN WALLS EXPOSED CONDUIT AND WIRING WITH THE ARCHITECT.	AND CEILING	WHERE POSSIBLE. COORDINATE INSTALLATION OF	1.2	MINIMUM STANDARDS		
/IRE, CONDUIT, AN	ND RACEWAY	#	DUPLEX DATA OUTLET, AS ABOVE, MOUNTED ABOVE COUNTER. PROVIDE (2) CABLES UNLESS INDICATED	4.	BEFORE INSTALLATION, CONTRACTOR SHALL SUBMIT DET PROPOSED LOCATIONS, MOUNTING, AND ROUTING FOR AI ETC.	AILED DRAWIN LL CONDUITS,	GS TO THE ENGINEER FOR REVIEW COVERING SERVICES, FITTINGS, GROUND RODS, SUPPORTS,	A.	Applicable rules of the National Electrical Code apply as a mir herein.	nimum standard for this	contract, but do not replace or reduce any specific require
ABOV	/E-SLAB CONDUIT & WIRE/CABLING		OTHERWISE BY NUMBER ADJACENT TO SYMBOL.	5.	CONDUIT RUNS ARE SHOWN DIAGRAMMATICALLY. CONTR. OBSTRUCTIONS NOT INDICATED.	ACTOR SHALL	ROUTE IN MOST DIRECT MANNER AVOIDING ANY	1.3 A.	LAWS, PERMITS AND FEES The Contractor shall pay fees for permits, inspections, etc., ar	nd shall arrange with the	e inspecting authorities all required inspections.
— — — BELO 3/4" M	W-SLAB CONDUIT & WIRE/CABLING;		AN ACCESSIBLE LOCATION ABOVE CEILING, ONE (1) BI UE CAT 6 CABLE FROM THE OUTLET TO THE	6.	CONTRACTOR SHALL BE RESPONSIBLE FOR ALL GROUNDI FOUNDATIONAL STEEL, BLDG STEEL, METAL PIPING, AND T	ING OF EQUIPM TELECOMMUN	IENT, DISCONNECT SWITCHES, PANELBOARDS, CATION RACKS, ETC. REGARDLESS OF DEPICTION	1.4 A	SITE INSPECTION & MEASUREMENTS	difficulties attendant to t	he successful execution of the work hefore hidding. Failu
-#]	TELECOM TERMINAL BOARD	7.	MATERIALS AND MANUFACTURERS NOTED ON DRAWINGS AND PERFORMANCE STANDARDS AND SHALL BE PROVIDE	ARE TO BE US	ED AS BASIS OF DESIGN TO ESTABLISH QUALITY D. SUBSTITUTIONS WILL BE CONSIDERED WHERE	В.	the site shall not relieve the Contractor of the extent or conditi The Contractor shall verify all measurements and shall be res	ions of the work required ponsible for the correct	d of him. ness of same, before ordering any materials or doing any
TICK	MARKS INDICATED NUMBER OF WIRES	WAP	WIRELESS ACCESS POINT (BY OWNER); PROVIDE 1"C TO AN ACCESSIBLE LOCATION ABOVE CEILING, ONE (1) YELLOW CAT & CABLE FROM THE ACCESS POINT	0	SUFFICIENT PRODUCT INFORMATION IS PROVIDED TO MAR THE SOLE DISCRETION OF THE PROFESSIONAL.	KE A PROPER I	EVALUATION. REVIEW OF A SUBSTITUTION IS AT	15	extra charge or compensation will be allowed for any difference	ces between the actual	neasurements and those indicated on the drawings.
STRIBUTION			LOCATION TO THE TELECOM TERMINAL BOARD	о.	THE DRAWINGS. ALL SUBMITED PRODUCT DATA, SHOP D PROJECT AND SHALL BEAR THE STAMP OF APPROVAL OF	RAWINGS, ETC THE CONTRAC	S SHALL BE MARKED WITH THE NAME OF THE TOR AS EVIDENCE THAT THE MATERIAL HAS BEEN	A.	Where conduit, cable or other items that are provided for under to maintain the integrity of the rated system.	er this contract penetrat	e fire rated walls or floors, the Contractor is to seal around
PANE	ELBOARD, SWITCHBOARD, OR OTHER DISTRIBUTION PMENT AS NOTED; INSTALL WITH SUFFICIENT	SECURITY (E	EQUIPMENT PROVIDED BY OWNER/OTHERS)	9.	CHECKED BY THE CONTRACTOR. DRAWINGS SPECIFIC TO THIS TRADE DO NOT LIMIT THE RE			В.	Cut all openings as required for the electrical work. Patching sleeves, thimbles, hangers, inserts, etc., at such times and in as attentions make weather the result of all penetrations through the results.	will be done by the varie such a manner as not t	ous crafts whose work is involved. Furnish and install all r o delay or interfere with the work of other Contractors. C:
WORI REQU	KING SPACE AND CLEARANCES TO MEET ALL JIREMENTS OF NEC SECTION 110.26.		UNCTION BOX FOR MOUNTED CAMERA: PROVIDE 3/4"FC	10.	BID. WHERE CONFLICTS EXIST AMONG DRAWINGS, SPECIFICATIONS	TIONS, AND EC	UIPMENT SCHEDULES, THE MOST STRINGENT	1.6	HOUSEKEEPING PADS		
JIPMENT CONNI	ECTIONS		WITH PULL STRING FROM THE JUNCTION BOX TO NEW DATA CABINET		REQUIREMENT OR QUANTITY SHALL APPLY. NOTIFY THE A INTERPRETATION.	RCHITECT/EN	SINEER OF ALL CONFLICTS FOR RESOLUTION OR		A. All floor and ground mounted electrical equipment - p reinforced concrete housekeeping pad, whether show grade (as appliable), have 45 degree charged ad	panels, switchboards, m wn on the drawings or n	otor control centers, transformers, etc. shall be installed w ot. The pad shall extend 4" above either the finished floor
				11.	EXCEPTIONS TAKEN." "NO EXCEPTIONS TAKEN" DOES NOT CONTRACT. EXTEND TO QUANTITIES OR DIMENSIONS. IMP	RELIEVE THE	ENGINEER HAS RECEIVED A COPY STAMPED "NO CONTRACTOR FROM CONFORMANCE WITH THE QUIPMENT CAN BE INSTALLED OR OPERATE		the respective electrical equipment. Concrete shall have	ave smooth steel trowe	finish.
LF FUSE SIGHT CLEA	T OF THE EQUIPMENT SERVED WITH 36" MINIMUM R WORKING SPACE IN FRONT OF THE SWITCH; DO	ELECTR E0.0	0 ELECTRICAL COVER SHEET		SATISFACTORILY, THAT THE EQUIPMENT CONTAINS ALL NE OTHER REVIEWED ITEMS.	ECESSARY CO	MPONENTS, OR THAT IT WILL COORDINATE WITH	PART 2 2.1	2.0 PRODUCTS RACEWAYS AND FITTINGS		
	MOUNT DIRECTLY TO EQUIPMENT	E1.0 E2.0	0 ELECTRICAL POWER PLAN 0 RISER DIAGRAMS & SCHEDULES	12.	OMISSION FROM THIS SHEET OF ANY ITEM SHOWN ELSEW FROM THE RESPONSIBILITY FOR ANY ASSOCIATED WORK.	HERE IN THE I	PLANS DOES NOT RELIEVE THE CONTRACTOR	A.	I he following raceways shall be permitted for use: a. EMT (Electric Metallic Tubing) - Interior concealed or b. BGS (Rigid Galvanized Steel) - Exterior exposed Ur	exposed (where not su	bject to damage) risers. Interior where subject to damage
) JUNC	TION BOX			ائ.	OTHER TRADES. THE CONTRACTOR SHALL INCUR ALL COS CONFLICTING WITH NEW WORK BY OTHER TRADES THAT F	STS ASSOCIAT	ED WITH THE RELOCATION OF EQUIPMENT COORDINATED.		 c. PVC - Underground and under slab d. Liquid Tight Flexible Metal Conduit - Exterior equipmet 	ent connections where	/ibration is present (all motors and transformers). Length
ER DEVICES	D WIRE PER THE PANEL SCHEDUI F)			14.	WARNING TAPE SHALL BE INSTALLED 6" INCHES BELOW GI FEEDERS, DATA, AND BRANCH CIRCUITS. TAPE SHALL BE F	RADE OVER AI PERMANENT A	L CONDUITS INCLUDING BUT NOT LIMITED TO ND DISPLAY MESSAGE DESCRIBING THE TYPE OF	5	exceed 3 [°] . e. Flexible Steel Conduit - Interior equipment connection	ns where vibration is pro	esent (all motors and transformers). Length shall not exce
	EX RECEPTACLE			15.	SERVICE BURIED BENEATH IT. ALL CONDUIT SIZES SHOWN ARE MINIMUM SIZES WHICH S WIRING AND CARLES LITH IZED MEET NEC FILL RECURRENT	HALL BE UTILI	ED. CONTRACTOR SHALL VERIFY THAT ALL	B. C.	Fittings for conduit shall be an approved type specially design permitted. Provide conduit and box supports per NEC	ied and manufactured fo	or meir purpose. Set screw and compression type shall be
」	/E-COUNTER DUPLEX RECEPTACLE:			16.	SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION PRIC CONTRACTOR SHALL COORDINATE ALL CONDUIT WALL AN	DR TO BIDDING	ETRATIONS WITH ALL TRADES AS REQUIRED. ALL	D.	Minimum sizes: Above Grade: 1/2" Below Grade: 3/4" Provide	e plastic bushings in all	conduit 1" and larger.
MOUN OR 44	NT AT 4" ABOVE COUNTER OR BACKSPLASH 4" (WHICHEVER IS LOWER)			17.	PENETRATIONS SHALL BE SEALED WATERTIGHT. PROVIDE 1/4" MINIMUM DIAMETER PULL ROPE. PULL ROPE	SHALL NOT BI	NYLON STRING.	2.2 A.	ELECTRICAL BOXES Interior outlet boxes in concealed conduit systems shall be flu	sh mounted. Boxes sh	all be galvanized steel of sufficient size to accommodate
GFCI	DUPLEX RECEPTACLE			18. 19.	ALL 120V, 20 AMP BRANCH CIRCUITS OVER 75' SHALL BE A ALL CONDUIT RISERS FROM UNDERGROUND SHALL HAVE PRIOR TO CONSTRUCTION VERIEV THE LOCATION OF ALL	MINIMUM OF # RIGID METAL E	10. ILLS AND RISERS. FRGROUND LITH ITIES, AVOID DISTURDANCE OF		snown and snall have raised covers where required to meet n of proper size and shape for conduits entering them, and shal a. Lighting fixture hoves: Provide 4 inches octagon not	equirements of NEC Ar I be UL listed and NEC less than 1-1/2 inches	acte 314. All boxes shall be stamped, one piece, galvanize approved for the intended use. Jeep, with fixtures stud fastened through from back box
⊨ ABOV MOUN	/E-COUNTER GFCI DUPLEX RECEPTACLE; NT AT 4" ABOVE COUNTER OR BACKSPI ASH			20. 21.	EXISTING UTILITIES NOT INCLUDED IN THIS PROJECT. FURNISH AND INSTALL ALL EXTERIOR RECEPTACLES WITH	WEATHERPR	DOF COVERS.		 b. Switch boxes in concealed work: Provide standard st c. Boxes for receptacles, telephone, and communication 	witch boxes of required n use in concealed world	number of gangs. :: Provide 4 inch square, not less than 1-1/2 inches deep.
OR 44	4" (WHICHEVER IS LOWER)			22.	PROVIDE GFCI RECEPTACLES: A. ALL EXTERIOR LOCATIONS			B.	Exterior Outlet Boxes: Provide outlet box flush with exterior w type with threaded conduit hubs. Provide "IN USE" type cover	all and with case alumir rs where indicated.	um cover. Surface mount boxes shall be NEMA-3R cast
= QUAD	DRAPLEX RECEPTACLE			23.	FOR UNDERGROUND CONDUIT RUNS, PROVIDE (1) PULL BO 360° OF CONDUIT BENDS, UNLESS OTHERWISE INDICATED	OX FOR EVER	500-FEET OF CONDUIT LENGTH AND FOR EVERY ENTLY. FOR PULL BOXES LOCATED WITHIN	C. D	Inground pull/splice boxes: Shall be composite polymer, conci appropriate for application I.E. "Electrical" "Communications". Inground pull/splice boxes for utility: Adhere to all standards of	rete reinforced with fibe	rglass. Box shall have open bottom and cover with identify
	/E-COUNTER QUADRAPLEX RECEPTACLE; NT AT 4" ABOVE COUNTER OR BACKSPLASH 1" (WHICHEVER IS LOWER)				UTILITY CONDUIT RUN, ENSURE THAT THE PULL BOX MEET	IS ALL REQUIR	EMENTS OF THAT UTILITY.	2.3	WIRE (600 VOLT AND BELOW)	n loodi danky oompuny.	
00 44	(Whichever is lower)			<u>LIG</u> 1.	HTING GENERAL NOTES VERIFY THE EXACT LOCATION OF ALL LIGHTING SWITCHES	S WITH THE AR	CHITECT PRIOR TO ROUGH-IN.	A.	All conductors used in the work shall be of soft drawn anneale shall be standard code gauge in size, insulated and shall have be true MC_THW_THWN or THHN for sizes up to and include	ed copper having a cond e insulation rated for use	Juctivity of not less than 98% of that of pure copper. Condu- e at 600 volts. Unless noted otherwise or specified, insulat
ITING VIDE CONDUIT ANI PER THE MANUFAG	D WIRE PER THE PANEL SCHEDULE FOR POWER CTURER'S SPECIFICATIONS FOR CONTROLS)			2.	VERIFY THE EXACT LOCATION OF ALL LIGHTING FIXTURES ROUGH-IN.	WITH THE ARG	HITECTURAL REFLECTED CEILING PLAN PRIOR TO		XHHW, or THHN. Lighting fixture wire shall be heat resistant to type. Sizes No. 8 AWG and larger shall be stranded. Sizes No.	type TF (150oC) with 30 . 12 thru No. 14 shall b	100 for wire sizes larger than No. 2 AWG shall be type TH 10-volt insulation minimum. Wires shall be of the single col e single strand solid copper.
<u>o o</u> , light	T FIXTURE: UPPERCASE I ETTER(S) INDICATE FIXTURE			3.	VERIFY THE CEILING TYPES FOR ALL LIGHT FIXTURES TO E MOUNTING TYPES IN ACCORDANCE WITH THE CEILING TYP MOUNTING HARDWARE	BE FLUSH MOU PE, AS REQUIR	NTED OR SUSPENDED AND ADJUST FIXTURE ED. CONTRACTOR SHALL PROVIDE ALL REQUIRED	В.	Throughout the system, all conductors shall be identified as to Color-coding shall be continuous the full length of the wire with	o the phase and voltage h surface printing at reg	of the system by color-coding in accordance with NEC 21 ular intervals on all conductors and for neutral conductors.
	; LOWERCASE LETTER(S) INDICATE ASSOCIATED IROLS ID; FIXTURES WITH HALFSHADED REGION			4.	VERIFY THE EXACT MOUNTING LOCATION FOR ANY PHOTO ALL PHOTOELECTRIC CELLS MUST FACE NORTH.		LS WITH THE ARCHITECT PRIOR TO ROUGH-IN.	2.4 A	LED LIGHTING Provide lighting fixtures per the lighting fixture schedule		
	L BE EMERGENCY PROVIDE BATTERY BACKUP OR NECT TO EMERGENCY CIRCUIT AS INDICATED; SEE			5.	CONTRACTOR SHALL CONFIRM COMPATIBILITY OF ALL LIG FIXTURES AND BALLASTS/DRIVERS PRIOR TO SUBMITTAL.	HTING CONTR	OL DEVICES/SWITCHES/DIMMERS WITH LIGHTING	В.	Quality: a. All fixtures shall be UL or ETL listed		
DESC	RIPTIONS AND MOUNTING TYPES			<u>SPI</u>	CIAL SYSTEMS GENERAL NOTES				b. All fixtures shall include a 5-year warrantyc. Adhere to the emergency requirements of NFPA 101	& 72	
⊐X EXIT L	LIGHT FIXTURE. ARROWS (IF USED) INDICATE			1.	FOR ALL CAMERA LOCATIONS, PROVIDE ONE (1) GREEN JA DATA CLOSET.	ACKETED CAT	CABLE IN 3/4" CONDUIT BACK TO ASSOCIATED	C.	Recessed downlights: a. Provide housing and trim compatible with ceiling type b. Where installed in a fire rated assembly provide fire b	e. Coordinate trim finish	with architect.
DIREC AND C	CTION. FILLED IN QUADRANT(S) INDICATE NUMBER ORIENTATION OF ILLUMINATED FACES. LETTER(S)			2.	FOR ALL WIRELESS ACCESS POINT LOCATIONS, PROVIDE TO ASSOCIATED DATA CLOSET.	UNE (1) YELLO	W JACKETED CAT 6 CABLE IN 3/4" CONDUIT BACK	D.	c. Where installed in grid provide tie wires at opposite c Exterior Fixtures:	corners of each fixture to	structure.
INDIC. SCHE	EALE FIXTURE TYPE. SEE LIGHTING FIXTURE EDULE FOR FIXTURE DESCRIPTION.			<u>TEL</u>	ECOMMUNICATIONS GENERAL NOTE	<u>=S</u>		-	 a. Fixture shall be wet location listed. b. Fixture pedestals/foundations shall be provided by th 	e contractor.	
	NG MOUNTED OCCUPANCY SENSOR WITH 360° ERAGE. LOCATE AND INSTALL PER THE			1.	PROVIDE 1" CONDUIT AND TWO (2) CAT 6 CABLES AT EACH CABINENT.	H DATA OUTLE	T SHOWN. CABLING SHALL ROUTE TO NEW DATA	E.	a. For all suspended fixtures coordinate with architect for	or suspension type and	length
MANL ADJU	JFACTURER'S RECOMMENDATIONS; TEST AND ST SENSITIVITY AFTER INSTALLATION AND SET TIME			Ζ.	GROUNDING CONDUCTORS SHALL BE, AT MINIMUM, #6 AW RECESSED AND ANCHORED	G INSULATED	AND THE BUILDING MAIN ELECTRICAL AND STRANDED COPPER. FASTENERS SHALL BE	2.5 A.	WIRING DEVICES Wiring devices shall be as listed. The color of device shall ma blug reported by and fitting required for any quipment fur	atch color of outlet cover	plate. It shall be the responsibility of the Contractor to pro
				3.	THE CONTRACTOR IS CAUTIONED TO INSURE NO PAINT PF COMPONENTS INCLUDING, BUT NOT LIMITED TO, CABLES,	RODUCTS CON COAX, CONDU	E IN CONTACT WITH ANY SPECIAL SYSTEM CTORS, AND JACKS DURING CONSTRUCTION. IF		a. Receptacles: Duplex 125 V, 20 A: • Hubbell - HBL 5362.		innected under the contract. Color as selected by the Arch
CONF	FIGURED FOR VACANCY OPERATION				ANY PAINT PRODUCT IS PLACED ON ANY COMPONENT, TH TO THE POINT OF TERMINATION.				 Leviton Mfg. Company Inc 5362 Pass & Seymour-CRB5362. 		
) PHOT SHIEL	OELECTRIC CELL, EXTERIOR RATED; AIM AND D SENSOR FROM INTERIOR AND EXTERIOR			4.	WHITE JACKETS.	KETS AND CA	6 CABLES FOR VOICE OUTLETS SHALL HAVE		 b. GFI Receptacles: Weather Resistant 125 V, 20 A: Hubbell Incorporated- BR20WR Leviton Mfg. Company Inc. WBP20 		
ARTIF				IDE	NTIFICATION OF EQUIPMENT GENER	AL NOTES			Pass & Seymour- WR5362. Switches-Single Pole:		
SUBS	ch, Script (When Used): None - Single Pole Toggle Switch			1.	ENGRAVED, LAMINATED ACRYLIC OR MELAMINE LABEL: PU GRAY BACKGROUND. MINIMUM LETTER HEIGHT SHALL BE	UNCHED OR D 3/8 INCH. LET	RILLED FOR SCREW MOUNTING. WHITE LETTERS ON A DARK- ERING AND BACKGROUND COLORS AS INDICATED BELOW:		Hubbell- HBL 1221.Pass & Seymour - PS20AC1.		
	3 - THREE-WAY SWITCH D - LINEAR SLIDE DIMMER SWITCH				 a. NORMAL: WHITE LETTERING ON BLACK BAC B. FIRE ALARM SYSTEM: BLACK LETTERING ON RED B 	CKGROUND. BACKGROUND.			Leviton Mfg. Company, Inc 1221-1 d. Switches-Three Pole: Hubbell, HBI 1223		
	3D - THREE-WAY LINEAR SLIDE DIMMER SWITCH O - WALL MOUNTED OCCUPANCY SENSOR			2.	LABELING INSTRUCTIONS A. INDOOR EQUIPMENT: ENGRAVED, LAMINATED ACI	RYLIC OR MEL	AMINE LABEL. UNLESS OTHERWISE INDICATED, PROVIDE A SIM	IGLE	 Leviton Mfg. Company, Inc1223-2. Pass & Seymour-PS20AC3. 		
	30 - THREE-WAY SWITCH WITH OCCUPANCY SENSOR V- VACANCY SENSOR a.b.c.etc SWITCH ID				LINE OF TEXT WITH 1/2-INCH- HIGH LETTERS ON 1-1 INCHES HIGH.	1/2-INCH- HIGH	LABEL; WHERE 2 LINES OF TEXT ARE REQUIRED, USE LABELS	2	e. Switches – Occupancy Sensor Wall Type: • Hubbell - LH-MT		
					C. EQUIPMENT TO BE LABELED SHALL INCLUDE BUT N A. PANELBOARDS, ELECTRICAL CABIN	NOT BE LIMITE	LAMINE LABEL.) TO: OSURES.		Leviton - OD15-ID Sensor Switch - WSD-PD Wort Stanger, WA 200		
					 B. RECEPTACLES WITH PANEL AND CIL C. ALL JUNCTION BOXES. LABEL TO IN 	RCUIT NUMBE	RS. T NUMBERS (PANEL AND NUMBER).	В.	Any devices illustrated on plan not described above shall be c requirements of NEC and the application intended	commercial grade, man	lfactured by one of the above or an equal, and meet all
					D. ALL LIGHTING SWITCH PLATES SHA	LL HAVE CIRCI	IT NUMBERS ON THE BACK OF THE PLATE. (PANEL AND NUMB	ЕК). С.	Cover Plates: a. Interior - High Impact Nylon	1 hursh	
									 Masonry or Block (Interior) - 1 ype 302 Stainless stee Surface Mount (Interior) - 4" Square raised to match a 	i, jumbo. device type	
<u>At</u>	A AMPERE(S)	C	CATV CABLE TELEVISION	EF	EXHAUST FAN	FOC	FIBER OPTIC CABLE	МСВ	MAIN CIRCUIT BREAKER	NO	NORMALLY OPEN
	AC ABOVE COUNTER (6" ABOVE BACKSPLASH)	C	CB CIRCUIT BREAKER	EGC	EQUIPMENT GROUNDING CONDUCTOR	G, GND	GROUND	MCM/KCM	IL 1,000 CIRCULAR MILS	NU	WEATHERPROOF IN-USE COVER
	AF AMPERE(S) FUSED	C	CKT CIRCUIT	EMER.		GEC		MECH. мн	MECHANICAL	ОН	OVERHEAD ELECTRICAL
	AFF ABOVE FINISHED FLOOR	C	CORR CORRIDOR	ENI		GRS	GALVANIZED RIGID STEEL	MLO	MAIN LUGS ONLY	OSP	OUTSIDE PLANT
	AFG ABOVE FINISHED GRADE	C	CT CURRENT TRANSFORMER	EQUIP.		HH	HANDHOLE	MOCP	MAXIMUM OVERCURRENT PROTECTION	UPP	
	AIC ABOVE FINISHED GRADE AT AMP SYMMETRICAL INTERRUPTING CAPACIT	C ת CY RMS	D TO BE DEMOLISHED	EWC	ELECTRIC WATER COOLER	HP KAIC	HORSEPOWER 1,000 AMP SYMMETRICAL INTERRUPTING CAPACITY RMS	MTD MTG	MOUNTED	PB PH	PULL BOX PHASE
	AWG AMERICAN WIRE GAUGE	D	DISC. DISCONNECT	EXIST.	EXISTING	KWH	1,000 WATT HOURS	NC	NORMALLY CLOSED	PNL	PANEL
	BG BELOW GRADE	D		FACP		KVA		NEC	NATIONAL ELECTRICAL CODE	PV	
	BKR BREAKER	E	E EXISTING TO REMAIN	FACPRA FC	FIRE ALARINI OUN FROL PANEL REMOTE ANNUNCIATOR	LAN LC	LUGAL AREA NE I WURK	NEU NF	NEUTRAL	PVC QTY	PULTVINTL UHLUKIDE QUANTITY
	C CONDUIT	E	EC EMPTY CONDUIT	FCU	FAN COIL UNIT	LTG	LIGHTING	NIC	NOT IN CONTRACT	RCPT	RECEPTACLE
	CAT CATEGORY	E	ECB ENCLOSED CIRCUIT BREAKER	FLA	FULL LOAD AMPERE(S)	MCA	MINIMUM CIRCUIT AMPACITY	NL	NIGHTLIGHT	REO'D	REOLIIRED

- tor is cautioned to re ct. The word "shall" v oard of Health, whe
- specific requireme
- tions.
- e bidding. Failure
- ials or doing any woi e drawings.
- h and install all nece Contractors. Caulk,

- nall be installed with a the finished floor or finished floor or fine and 4" beyond the ed

- mers). Length sha
- h shall not exceed ion type shall be

- to accommodate dev e piece, galvanized si
- rom back box.
- '2 inches deep. NEMA-3R cast alui
- over with identifying
- ure copper. Conductor specified, insulation shall be type THW, e of the single condu-
- nce with NEC 210.5. eutral conductors.

- Contractor to provide ected by the Architec

- and meet all

ALL SYMBOLS, ABBREVIATIONS, AND NOTES ABOVE ARE TYPICAL AND ARE NOT NECESSARILY USED IN THESE CONSTRUCTION DOCUMENTS

read I" where	2.6 A.	VOICE & DATA STATION CABLES Voice and data station wiring shall be Category 6 enhanced (Cat 6e) communications wire and cable. Station Cable shall be four-pair, unshielded, twisted pair, inside-station cable, and shall be constructed of solid 24 gauge annealed copper. Each conductor shall be insulated with a continuous layer of fluorinated ethylene propylene (FEP). The sheath shall be all weather, flame resistant, polyvinyl chloride. Station wire shall be constructed of 4 twisted pair sharing one sheath. Cable shall have Category 6e transmission characteristics as specified by ANSI/EIA/TIA-568-B2.1. Cables routed in air plenum shall have a sheath and conductor	
ether	2.7	insulation constructed of material so as to be classified as type CMP as defined by the NEC 800-3(b)(3). CIRCUIT BREAKER PANELBOARDS	
nent	А. В.	Panelboards shall be sized as shown on the drawings and schedules, and shall be the bolted breaker panelboard type. All panelboard bussing shall be copper. Load centers are not acceptable. Panel board shall be dead front safety type with main breaker or main lugs, as required by code. Panel boards shall have single, feed through, or double lugs to accommodate feeder conductors. Panel boards with neutrals shall have a neutral buss and a neutral bar insulated from the enclosure for terminating feeder and branch circuit neutral conductors. Each panel board shall have an equipment grounding bar connected to the cabinet for terminating feeder and branch circuit ground conductors.	IATES
to visit	C. D.	Directory: Provide a typed panel directory indicating load and location of load. Location shall be based on final room designations not those shown on plan. Enclosure: a. Interior: NEMA-1	U U U
ork. No	E.	 b. Exterior: NEMA-3R c. Corossive Environment (Not Chlorine): NEMA-3R SS Acceptable Manufacturers: a. Schneider Electrical, Square D b. EATON Corporation 	ASSC
the item		c. ABB d. Siemens	ళ
lk, flash h a r final edge of	2.8 A.	TVSS General Requirements: a. Fabrication using bolted compression lugs for internal wiring. b. Redundant suppression circuits. c. Fuses, rated at 200-kA interrupting capacity. d. Redundant replaceable modules. e. Arrangement with wire connections to phase buses, neutral bus, and ground bus. f. LED indicator lights for power and protection status. g. Audible alarm, with silencing switch, to indicate when protection has failed. h. Surge-event operations counter: Six-digit transient counter set to total all transient surges that deviate from the fundamental sine wave by more than 125V. i. EMI/RFI Noise attenuation: Exceeding 55dB at 100kHz, using 50 ohm insertion loss test. j. Magnetic Fields: No appreciable magnetic fields shall be generated. The device shall be capable of use directly in computer rooms in any location without danger to data storage systems or devices.	PSON LUKE
all not	В.	k. Leakage Current less than 1mA. Service Entrance Suppressors (CAT C)	Σ
d 3'	C.	 a. Withstand Capabilities: 3000 Category C surges with less than 5 percent change in clamping voltage. b. Peak Single-Impulse Surge Current Rating: 320/160 kA per phase/mode. Distribution Panelboard Suppressors (CAT B) a. Withstand Capabilities: 3000 Category B surges with less than 5 percent change in clamping voltage. b. Peak Single-Impulse Surge Current Rating: 240/120 kA per phase/mode. 	IHO HI
	D.	a. Withstand Capabilities: 3000 Category A surges with less than 5 percent change in clamping voltage. b. Peak Single-Impulse Surge Current Rating: 80/40 kA per phase/mode.	
levices I steel, uminum	PART 3 3.1 A. B. C.	3.0 EXECUTION WIRING - GENERAL Unless otherwise specified, all wiring shall be installed in conduit. No wire shall be smaller than No. 12 unless noted otherwise. Wire for each branch circuit shall be of single size and type from the branch circuit protective device the last outlet of the circuit. BX wiring shall not be allowed. Feeder conductors shall run their entire length without splice. No more than six current carrying conductors per raceway. If more than six required derate per NEC 310.15(B)(2)(a).	
ng text	D. 3.2 A.	Grounding: An equipment grounding conductor shall be provided for each branch circuit. The ground conductor shall be copper and sized per NEC 250.122. CONDUIT - MATERIALS AND METHODS Conduit shall be installed as per NEC and NEMA regulations and the manufacturer's recommendations. Electrical Metallic Tubing shall be used for feeders, branch circuit and communications and control wiring. In places where EMT is permitted, 1/2" through 2" sizes shall be the only sizes permitted. Fittings for EMT shall be the compression ring type fitting. Communications wiring may be installed without conduits above accessible coilings.	
ctors on shall /, ductor .5.	3.3 A. B. C. D. E.	LED Lighting Aiming of fixtures shall be completed at night to the satisfaction of the owner. Comply with manufacturer instructions Coordinate with architectural ceiling plans and provide accessories accordingly Install fixtures to avoid obstruction Do not support fixtures via conduit system	
	3.4 A. B. C. D. E.	ELECTRICAL BOXES Boxes are not to be installed back to back in walls. Do not use long, extended boxes that would effectively couple light and sound between adjoining spaces. All boxes shall be accessible for NEC. Conduit shall not be secured to suspended ceiling, HVAC duct or piping systems. Install raceways a minimum of 6-inches (150 mm) away from parallel runs of flues, steam pipes,hot-water pipes, and other objects operating at high temperatures Coordinate mounting orientation of boxes above counter with architectural drawings.	
	3.5 A. B.	 WIRING DEVICES Install switches on the strike side of doors. Gang switches under a single plate where multiple or located adjacent to one another. Provide GFCI receptacle: a. Within 25' of all mechanical equipment and electrical service equipment. b. All exterior applications 	SITY
	C. D. E. F.	Finishes shall be selected by the architect or owner. Provide a coverplate or blank cover for every electrical/telecom outlet. Refer to architectural plans for orientation of above counter receptacles Provide grounding pig tails for each device. Ground screws shall be green.	/ER
ide ect.	3.6 A.	MOUNTING HEIGHTS Unless otherwise noted on the drawings or required by the Architect, the following mounting heights shall apply: a. Toggle Switches - 4'-0" b. Receptacles - 1'-6" c. Communication Outlets - 1'-6"	
	3.7 A.	COMMUNICATIONS WIRING INSTALLATION Unless otherwise specified, all communications systems shall be permanently installed and connected to the wiring system. The systems must be installed according to manufacturer standards and recommendations. Wiring installation shall be tested after completion of installation. Test results and as-built documents will be provided to provided to provide the part opportunity opportunity opportunity opportunity opportunity.	R Z
	B. C.	Wining map/as built documents showing voice and data outlets, device numbers, room locations, and termination locations will be displayed in each wiring closet. Wireless drop wiring shall be punched down on a separate punch down block at the end of the data punch down blocks. The wireless punch down block shall be a different color.	
	D. E. F.	voice and data wining routed above accessible ceilings snall be supported on J-nooks, and snall be loose bundled using Velcro wraps. Voice and data wire bundles shall not include power wiring or wiring for other low voltage systems (fire alarm, intercom, security, CCTV, etc.). Communications system cables routed exposed above ceiling shall be plenum rated. Cabling between wiring closet and workstation shall be individual homeruns. Splicing is not permitted.	IUC
			Revisio

SF	SUPPLY FAN	UGS	UNDERGROUND SECONDARY
S/N	SOLID NEUTRAL	UH	UNIT HEATER
SPD	SURGE PROTECTIVE DEVICE	UL	UNDERWRITER'S LABORATORY, INC.
STD	STANDARD	UON	UNLESS OTHERWISE NOTED
TEL	TELEPHONE	V	VOLTS
TELECOM	TELECOMMUNICATIONS	VAC	VOLTS ALTERNATING CURRENT
TGB	TELECOMMUNICATIONS GROUND BUS	VDC	VOLTS DIRECT CURRENT
TMGB	TELECOMMUNICATIONS MAIN GROUND BUS	VFD	VARIABLE FREQUENCY DRIVE
TTB	TELECOM TERMINAL BOARD	WH	WATER HEATER
TV	TELEVISION	WP	WEATHERPROOF
TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSION	XFMR	TRANSFORMER
TYP.	TYPICAL		
UG	UNDERGROUND		

UGP

UNDERGROUND PRIMARY

LA 70809

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LIGHTING FIXTURE SCHEDULE

NOTES: ** FINISH 1)TES: FINISH TO BE SELECTED BY ARCHITECT FIXTURE COUNT IS PROVIDED FOR REFERENCE ONLY, CONTRACTOR IS RESPONSIBLE FOR DETERMINING EXACT QTY.									
MARK	DESCRIPTION		VOLTS		TEMP	LUMENS	MOUNTING		APPROVED FIXTURES	
		/ UIII O	10210	20/12		20112110		MANUFACTURER	CATALOG NO.	
A	6" OUTDOOR LED DOWNLIGHT.	LED	UNV	35 VA	4,000	3,500	RECESSED	COOPER	HC6-35-D010-HM6-3040-840-61-MD-**	
В	PAVILLION FLOODLIGHT. PROVIDE ALL MOUNTING ACCESSORIES AS REQUIRED.	LED	UNV	60 VA	4,000	6,140	WALL	LIGMAN LIGHTING	UMI-50393-51W-W-W40-**-120/277-DIM	
С	LIGHT POLE WITH (1) HEAD. FIXTURE SHALL BE PROVIDED WITH HOUSE SIDE SHIELD AND MOUNTING BRACKETS AS REQUIRED. FIXTURE SHALL HAVE DIMMING MOTION, AND DAYLIGHT SENSOR. FIXTURE SHALL BE PROGRAMMED TO DIM 50% FROM MIDNIGHT TO 0600 OR WHEN MOTION IS NOT DETECTED FOR A MAX OF 15 MINUTES.	LED	UNV	300 VA	4,000	41,100	POLE	COOPER LIGHTING	PRV-XL-C150-8540-D-UNV-T4-**-ZW-WOF-**	
D	LED ACCENT SIGN LIGHT. AIM AND ORIENT AS REQUIRED	LED	UNV	20 VA	4,000	800	LANDSCAPE	COOPER LIGHTING	TCRS-8-W-**	
F	52" 3 BLADE OUTDOOR FAN. PROVIDE PENDANT MOUNTING HARWARE AS REQUIRED.	N/A	120	50 VA	N/A	N/A	PENDANT	OXYGEN	ADORA-3-110-XX	

Branch	Panel:	LA

			1			1		1
ABR	скт	TRIP	POLES	WIRE	GND	CONDUIT	Circuit Description	
	1	20 A	1	2#10	#10	3/4"	RECEPT - TV	0.4 k\/A
	3	20 A	1	2#10	#12	3/4"	RECEPT - SERVICE	0.4 1.071
	5	20 A	1	2#12	#12	3/4"	DATA CABINET - COOLING	
	7	20 A	1	2#12	#12	3/4"	DATA CABINET - EQUIP	0.8 kVA
	9	20 A	1				SPARE	
	11	20 A	1				SPARE	
	13	20 A	1				SPARE	0.0 kVA
	15	20 A	1				SPARE	
	17	20 A	1				SPARE	
	19	20 A	1				SPARE	0.0 kVA
	21	20 A	1				SPARE	
	23	20 A	1				SPARE	
	25	20 A	1				SPARE	0.0 kVA
	27	20 A	1				SPARE	
	29	20 A	1				SPARE	
								23
								2
	01	- 161 41					0	
Load	Clas	sificati	on				Connec	ted Load
Other	•						159	8 VA
Rece	ptacle	;					126	0 VA
Lighti	ng						168	0 VA
Load Classification 0 V					VA			
Load	Sum	mary M	lotos:					
Luau	Load Summary Notes.							

-TYPICAL LANDSCAPE LIGHTING

-12" DIAMETER x 8" DEEP

CONCRETE FOUNDATION

SEE SPECIFICATIONS FOR MATERIALS, COLORS SIZE LETTERING, ETC.

ATTACH PLAQUES USING INDUSTRIAL

GRADE DOUBLE FACE ADHESIVE.

LABLING SHALL ADHERE TO NEC 408.4(B) SOURCE OF SUPPLY

-UTILITY BOX

