RECREATION AND PARK COMMISSION
FOR THE PARISH OF EAST BATON ROUGE

Golf Cart Path Renovations
City-Brooks Community Park Golf Course
1515 Dalrymple Dr., Baton Rouge, LA 70808
Santa Maria Golf Course
18460 Santa Maria Pkwy., St. George, LA 70810

BREC Planning & Engineering
6201 Florida Boulevard, Baton Rouge, LA 70806
Phone: 225-273-6405 and Fax: 225-273-6419

DEADLINE TO SUBMIT QUOTES:	2 pm on Friday, November 27, 2026

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REQUEST FOR QUOTATION

VENDOR NAME:	**RFQ ISSUE DATE:**	**11/5/2026**	
MAILING ADDRESS	**BID DUE DATE & TIME:**	**11/27/2026**	**2:00 P.M. CT**
CITY, STATE, ZIP	**RETURN TO:** RECREATION AND PARK COMMISSION 6201 FLORIDA BLVD. BATON ROUGE, LA 70806 (225) 273-6405 PHONE (225) 273-6404 FAX **ATTN: Bobby LaBorde Email: Bobby.LaBorde@brec.org**		
ATTENTION:			
EMAIL:			
PHONE:			

PROJECT: Golf Cart Path Renovations: City Park and Santa Maria

SCOPE OF WORK: Project involves paving modifications of 4 sections of concrete golf cart paths, 1 at City Park Golf and 3 at Santa Maria Golf. The project also involves removing existing concrete paths, grading along paths, and sodding. Contract time = 45 calendar days

Item #	Description	Quantity	Unit	Amount
1	**City Park Golf Cart Path near Hole 6**	1	LUMP SUM	
2	**Santa Maria Golf Cart Paths near Holes 1 and 10 and by restroom bldg.**	1	LUMP SUM	
3	**Performance & Payment Bond ***	1	LUMP SUM	
			TOTAL	

IMPORTANT DATES:

Pre-Quote Meeting: 9 a.m. on Monday, November 9, 2026, at 1515 Dalrymple Dr., Baton Rouge, LA 70808 (City Park Golf)

Please contact Project Manager, **Steven Lumpkin @ 225-224-5792, steven.lumpkin@brec.org** with any questions about the meeting

Prior Approvals: must be submitted by **4 pm Thursday, November 12, 2026**

Last Day for Questions: must be submitted by **end of day Tuesday, November 17, 2026**

Quotation Deadline: Must be emailed back by 2 p.m. on Friday, November 27, 2026

INSTRUCTIONS TO BIDDERS

1. This is not an order, it is a request for price / fee quotes.
2. If unable to quote, please return this form "No Bid"
3. See attached exhibits – Contract Documents and example Affidavit, Corporate Resolution, P&P Bond, Contract, Acceptance
4. **Submit only this completed form and a completed IRS Form W9 by the requested deadline**. If awarded, all required documents will be in the name of the vendor as listed below and the submitted W9, including but not limited to the resolution, affidavit, contract, bond, and insurance certificates.
5. **Inquiries to be directed to:** Bobby LaBorde, Bobby.Laborde@brec.org . Telephone – 225-272-9200, Ext. 1542.

ENUMERATE ADDENDA RECEIVED (if any)

FEDERAL TAX ID	**PRINTED NAME**	
AUTHORIZED SIGNATURE	**TITLE**	DATE

The above signature on this document certifies that bidder has carefully examined the instructions to bidders, terms and specifications applicable to, and made a part of this solicitation. By submission of this document, bidder further certifies that the prices shown are in full compliance with the conditions, terms and specifications of this solicitation.

No alterations, changes or additions are allowed on this solicitation, and no additional information, clarifications or other documents are to be included unless specifically required by the specification. Any errors in extensions of prices will be resolved in favor of unit prices submitted.

This public works project is subject to the provisions of Title 38 of the Louisiana Revised Statutes and shall be governed by and construed in accordance with the laws of the State of Louisiana. For public works contracts of $25,000 or more, a performance & payment bond for 50% of the contract price is required. The Contract and Bond shall be recorded by the contractor in the office of the recorder of mortgages in East Baton Rouge Parish not later than thirty days after the work has begun, and a recorded stamped copy from the Clerk must be provided to BREC. Each change order which adds 10% or more of the original contract amount and which is at least $10,000 or all change orders aggregating to an amount of 20% or more of the original contract amount and which additional amount is at least $10,000 shall be recorded by the Contractor, and a recorded stamped copy from the Clerk must be provided to BREC. Acceptance will be recorded by the contractor not later than forty-five days after the date of completion or substantial completion, and a recorded stamped copy from the Clerk must be provided to BREC. Full and final payment will be made upon satisfactory completion of the work and upon receipt of recorded copy of Acceptance.

AFFIDAVIT

STATE OF _____
PARISH/COUNTY OF _____

BEFORE ME, the undersigned authority, personally came and appeared:

_____

who, being first duly sworn did depose and say that he/she is a duly authorized representative of:

_____

receiving value for services rendered in connection with:

Golf Cart Path Renovations

a public project of the Recreation and Park Commission for the Parish of East Baton Rouge, Louisiana.

Pursuant to the provisions of LSA R.S. 38:2224, affiant has employed no person, corporation, firm, association, or other organization, either directly or indirectly, to secure the public contract under which he/she received or will receive payment, other than persons regularly employed by the affiant whose services in connection with the construction, alteration or demolition of the public building or project or in securing the public contract were in the regular course of their duties for affiant. No part of the contract price received by affiant was paid or will be paid to any person, corporation, firm, association, or other organization for soliciting the contract, other than the payment of their normal compensation to persons regularly employed by the affiant whose services in connection with the construction, alteration or demolition of the public building or project were in the regular course of their duties for affiant.

Pursuant to the provisions of LSA R.S. 38:2212.10, (1) Contractor is registered and participates in a status verification system, the electronic verification of work authorization program of the Illegal Immigration Reform and Immigrant Responsibility Act of 1996, 8 U.S.C. 1324(a), and operated by the United States Department of Homeland Security, known as the "E-Verify" program, to verify that all employees in the state of Louisiana are legal citizens of the United States or are legal aliens; (2) Contractor shall continue, during the term of the contract, to utilize a status verification system to verify the legal status of all new employees in the state of Louisiana; (3) Contractor shall require all subcontractors to submit to the Contractor a sworn affidavit verifying compliance with paragraphs (1) and (2).

_____
Signature

SWORN TO AND SUBSCRIBED before me, on this _____day of _____, 20_____, at _____, _____.

_____
Notary Public
Printed Name: _____
Notary ID No.:_____

CORPORATE RESOLUTION

A meeting of the Board of Directors of _____, a Corporation organized under the laws of the State of _____ and domiciled in _____, was held this _____ day of _____, 20____, and was attended by a quorum of the members of the Board of Directors.

The following resolution was offered, duly seconded and, after discussion, was unanimously adopted by said quorum:

BE IT RESOLVED, that _____ is hereby authorized to submit bid proposals and execute contracts and/or agreements on behalf of this corporation with the Recreation and Park Commission for the Parish of East Baton Rouge.

BE IT FURTHER RESOLVED, that said authorization and appointment shall remain in full force and effect, unless revoked by resolution of this Board of Directors, and that said revocation will not take effect until the Purchasing Manager of the Recreation and Park Commission for the Parish of East Baton Rouge has been furnished a copy of said resolution, duly certified.

I, _____, hereby certify that I am the Secretary of _____, a corporation created under the laws of the State of _____ domiciled in _____; that the foregoing is a true and exact copy of a resolution adopted by a quorum of the Board of Directors of said corporation at a meeting legally called and held on the _____ day of _____, 20____, as said resolution appears of record in the Official Minutes of the Board of Directors in my possession. This _____ day of _____, 20____.

_____
Secretary

_____
Printed Name

RESOLUTION ADOPTED BY LLC MEMBERS

The undersigned, being the member(s) of _____, **LLC**, duly organized under the laws of Louisiana, hereby adopt the following resolution:

BE IT RESOLVED, that _____ is hereby authorized to submit bid proposals and execute contracts and/or agreements on behalf of this LLC with the Recreation and Park Commission for the Parish of East Baton Rouge.

BE IT FURTHER RESOLVED, that said authorization and appointment shall remain in full force and effect, unless revoked by resolution of this LLC, and that said revocation will not take effect until the Purchasing Manager of the Recreation and Park Commission for the Parish of East Baton Rouge has been furnished a copy of said resolution, duly certified.

RESOLVED, that all the acts taken above and resolutions are approved, ratified, and adopted.

Member(s) Signature:	Printed Name:	Date:
_____	_____	_____
_____	_____	_____
_____	_____	_____

CONTRACT AGREEMENT

This Agreement is made and entered into at Baton Rouge, Louisiana, effective this _____ day of _____, 20_____, by and between

Recreation and Park Commission for the Parish of East Baton Rouge, 6201 Florida Boulevard, Baton Rouge, Louisiana 70806, "Owner," herein represented by **Dr. Brooks Williams**, Superintendent; and

_____ **(contractor company)**, _____ (address), "Contractor," herein represented by_____ (authorized signatory name), _____ (title).

The Contractor shall perform all work required by the Contract Documents for the construction of ***GOLF CART PATH RENOVATIONS***, "Project," located at **CITY-BROOKS COMMUNITY PARK GOLF COURSE located at 1515 Dalrymple Dr., Baton Rouge, LA 70808 and SANTA MARIA GOLF COURSE located at 18460 Santa Maria Pkwy., St. George, LA 70810**, "Location."

The following Contract Documents are all hereby made a part of this Agreement to the same extent as if incorporated herein:

1. Quotation Request and Quotation Submittal
2. Construction Drawings and Technical Specifications
3. The following enumerated addenda: _____
4. Modifications issued after execution of this agreement

CONTRACT PRICE

The amount to be paid to the Contractor by the Owner for the Project is _____ **Dollars ($_____)** based on the Quotation included in Contractor's Proposal for the Project. The final contract price will be increased or decreased for changes in the work by authorized written Change Orders.

CONTRACT TIME

All work set forth in the contract documents shall be substantially complete within **forty-five (45) calendar days** after the date set forth in the Notice to Proceed. Time is of the essence of the contract and the Notice to Proceed will be issued promptly. Contract time extensions will only be granted in accordance with provisions in the Contract Documents.

FAILURE TO COMPLETE WORK ON TIME

Should the Contractor fail to achieve substantial completion within the contract time, including any authorized extensions, liquidated damages in the amount of **Two Hundred and No/100 Dollars ($200.00)** per day, will be assessed Contractor in accordance with the Contract Documents until substantial completion is achieved.

INDEMNIFICATION

To the extent allowed by law, Contractor agrees to indemnify, defend, and to hold BREC, its officers, directors, agents and employees, harmless from and against any and all injuries, losses, liabilities, demands, suits, judgments and claims to the extent that such injuries, losses, liabilities, demands, suits, judgments, claims or fees arise out of or result from the terms of this Agreement or willful act, fault, omission, or negligence of Contractor, or of its employees, servants, or agents, in performing its obligations under this Agreement, provided, however that

Contractor shall not be liable to BREC for any consequential damages arising out of BREC's willful act, fault, omission or negligence.

PAYMENT

The Owner will make partial or progress payments based upon completed work and certification of the payment application by the Owner or its authorized representative. Upon satisfactory completion of the work, Owner will make full and final payment.

CHOICE OF LAW

This public works contract is subject to the provisions of Title 38 of the Louisiana Revised Statutes and shall be governed by and construed in accordance with the laws of the State of Louisiana. Any claims or controversy arising out of or relating to this Agreement shall be brought exclusively in any federal or state court of competent jurisdiction located in the Parish of East Baton Rouge, and the parties hereby consent to personal jurisdiction and venue in said court.

IN WITNESS WHEREOF, the parties hereto have executed this agreement effective as of the date first written above.

APPROVED AS TO FORM

Aneatra Boykin, Chief Legal Officer Date

OWNER:
RECREATION AND PARK COMMISSION
FOR THE PARISH OF EAST BATON ROUGE

Owner Witness #1

Owner Witness #2

By:
Dr. Brooks Williams, Superintendent Date

CONTRACTOR:
CONTRACTOR NAME

Contractor Witness #1

Contractor Witness #2

By:
Authorized Signatory Name, Title Date

BREC Insurance Requirements

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. Other Insurance Provisions

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

General Liability and Automobile Liability Coverage

1. BREC, 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 BREC.

2. The Contractor's insurance shall be primary as respects to BREC, its officers, agents, employees and volunteers. Any insurance or self-insurance maintained by BREC shall be excess and non-contributory of the Contractor's insurance.

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

4. 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.

PERFORMANCE AND PAYMENT BOND

KNOW ALL BY THESE PRESENTS that we, the undersigned _____ as principal, hereinafter referred to as "Contractor" and _____, a Corporation organized and existing under the laws of the State of _____ duly authorized to transact business in the State of Louisiana as surety, are held and firmly bound unto the Recreation and Park Commission for the Parish of East Baton Rouge, hereinafter referred to as "Owner", in the penal sum of _____($_____) lawful money of the United States, for the payment of which well and truly to be made, the said principal and the said surety do hereby bind ourselves, our heirs, executors, administrators, and assigns, jointly and severally, by these presents as follows:

The condition of this obligation is such that whereas, the Contractor by an instrument in writing attached hereto and bearing date of _____ has agreed with said Owner to furnish labor, materials, tools and equipment to construct _____ as shown on plans and specified thereby and in the specifications, proposals and contract forming the contract documents thereto attached.

NOW THEREFORE, if said Contractor shall well and truly in good, sufficient and workmanship manner, and to the satisfaction of the Owner, perform and complete the work required and shall pay all costs, charges, rentals and expenses for labor, material, supplies and equipment and deliver the said improvement to the Owner complete and ready for occupancy or operation, and free from all liens, encumbrances or claims for labor, material or otherwise; and shall pay all other expenses lawfully chargeable to the Owner by reason of any default or neglect of the said Contractor in the performance of said agreement and said work, then this obligation shall be void, otherwise to remain in full force and effect.

PROVIDED FURTHER, That the said surety for value received hereby stipulates and agrees that no change, extension of time, alterations, or addition to the terms of that contract, or the work to be performed there under, or the specifications accompanying the same, shall in anywise affect its obligation on the bond and it does hereby waive notice of any change, extension of time, alterations, or addition to the terms of the contract, or the work, or the specifications.

PROVIDED FURTHER, That if the Contractor, or his, their, or its subcontractors fail to duly pay for any labor, materials, team hire, sustenance, provisions, provender or any other supplies or materials used or consumed or for any materials or supplies furnished for use by such contractors or his, their, or its subcontractors in performance of the work contract to be done, the Surety will pay the same in any amount not exceeding the sum specified in the bond, together with interest and attorney's fees as provided by law.

IN WITNESS WHEREOF, Said Principal and Surety have hereunto set their hands and seals this _____ day of _____, 20____.

_____
(Contractor Signature)

_____
(Address)

_____
(Witness)

_____
(Witness)

By: _____
(Surety Signature)

_____
(Typed Name and Title)

_____
(Address)

RECREATION AND PARK COMMISSION
For the Parish of East Baton Rouge

CERTIFICATE OF SUBSTANTIAL COMPLETION

PROJECT:
Golf Cart Path Renovations
City-Brooks Community Park Golf Course
1515 Dalrymple Dr., Baton Rouge, LA 70808
Santa Martia Golf Course
18460 Santa Maria Pkwy., St. George, LA 70810

TO OWNER:
Recreation and Park Commission
for the Parish of East Baton Rouge
6201 Florida Blvd
Baton Rouge, LA 70806

CONTRACT DATE: 00/00/0000
CONTRACT RECORDATION:
ORIG: 000 BNDL: 00000
00/00/0000

TO CONTRACTOR:
Contractor name.
Contractor address
Address

PROJECT OR DESIGNATED PORTION SHALL INCLUDE:

All work under the Contract Documents

The work performed under this Contract has been reviewed and found, to the Engineer/Owner's best knowledge, information and belief, to be Substantially Complete in accordance with the Contract Documents so that the Owner can occupy or utilize the Work for its intended use. The date of Substantial Completion of the Project or portion designated above is hereby established as Month, Day, Year which is also the date of commencement of applicable warranties required by the Contract Documents.

A punch list of items agreed upon by the Contractor and Owner is attached and will be completed or corrected within Forty-five (45) days from the above date of substantial completion. The failure to include any items on such list does not alter the responsibility of the Contractor to complete all Work in accordance with the Contract Documents. At initial issuance the list shall not necessarily be considered final or all inclusive. If the Owner's subsequent inspections disclose any additional items which are not sufficiently complete, whether or not included on the initial list of items, the Contractor shall complete or correct such items before Final Acceptance.

Cost estimate of Work that is incomplete or defective: $0.00

Engineer/Project Manager Company Name **BREC Project Manager/Engineer**	**BY**	**DATE**
Contract Company Name. **CONTRACTOR**	**BY**	**DATE**
Recreation and Park Commission for the Parish of East Baton Rouge **OWNER**	**BY Dr. Brooks Williams, Superintendent**	**DATE**

RECREATION AND PARK COMMISSION
FOR THE PARISH OF EAST BATON ROUGE

October 5, 2026

Contractor (TBD)
Contractor Address

Re: **Golf Cart Path Renovations**

Dear Mr. Contractor:

This letter will serve as your **NOTICE TO PROCEED** with the above referenced project on **Tuesday, December 1, 2026**. Substantial completion of the work in accordance to the agreed-upon completion, subject to authorized adjustments, will be on or before forty-five (45) consecutive calendar days from the start date, or **Friday, January 15, 2027**.

Please let us know if you have any questions.

Sincerely,

Steven J. Lumpkin, PLA, PMP, CPSI
Assistant Director of Construction
BREC Planning and Engineering
(225) 224-5792

SAMPLE

SPECIAL PROVISIONS

DEFINITIONS

Owner: Recreation and Park Commission for the Parish of East Baton Rouge "BREC", mailing address 6201 Florida Boulevard, Baton Rouge, Louisiana, 70806, telephone (225) 273-6405.

Owner's Representative: The BREC Superintendent or duly authorized representative within the BREC Planning and Engineering Department.

Project Designer: The Project Landscape Architect (BREC).

Bidder: Any qualified individual, corporation or partnership lawfully organized and licensed under the laws of the State of Louisiana to perform construction work, and submitting a bona fide bid or response to the request for proposal on the herein described project.

Contractor: The term "Contractor" shall be understood as referring to the General Construction Contractor.

Sub-Contractor: A properly licensed and duly authorized business selected by the Contractor, to supply materials, equipment, labor, construction or other services for one or more phases of the contract work (i.e., electrical, plumbing, etc.).

Contract Documents: The following documents form the Contract Documents, and all are as fully a part of the Contract as if attached to or repeated therein:

1. Contract Agreement
2. Request for Quotation
3. Response to Request for Quotation
4. Construction Drawings
5. Special Provisions
6. Technical Specifications
7. All Issued Addenda
8. Modifications issued after execution of this agreement.

Specifications: The specifications issued by the Project Designer and marked with the project title, together with all standards, addenda or special designs, orders, directives that may be designated or referenced in such specifications.

Addenda: Any supplemental instructions or interpretations of the meaning of the specifications, or other contract documents will be made in the form of a written Addendum to the specifications which, if issued, will be e-mailed to prospective bidders. Addenda will not be issued within seventy-two hours prior to the deadline for receiving quotes., excluding weekends and legal holidays.

Work: The construction project as described in these Contract Documents and as authorized by BREC.

Submittals: Shop Drawings, Product Data, Specifications, Samples and other similar documents required by the Contract Documents to be submitted by the Contractor for the purpose of demonstrating portions of the Work; the manner in which the Contractor proposes to conform to

the information provided or requirements specified and the design concept expressed in the Contract Documents. Submittals are not to be considered Contract Documents. However, Contractor shall not deviate from approved submittals absent written approval from the Architect.

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

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

Change Order: An alteration, deviation, addition, or omission as to a preexisting contract which shall be in the form of a written instrument prepared by the Project Designer and signed by the Owner, Contractor and Project Designer, stating their agreement upon all of the following:

- change in the Work;
- the amount of the adjustment, if any, in the Contract Sum; and
- the extent of the adjustment, if any, in the Contract Time.

If Change Orders are required and agreed upon unit costs are applicable, unit costs shall be used to determine Change Order amounts.

Notice to Proceed: The date of commencement of Work established in a written letter to the Contractor. If there is no written notice to proceed, it shall be the date of the Owner-Contractor Agreement or such other date as may be established herein. The date shall not be postponed by the failure to act of the Contractor or of persons or entities for which the Contractor is responsible.

Punch List: A comprehensive list of the items of Work to be completed or corrected prior to final payment. Failure to include an item on such list does not alter the responsibility of the Contractor to complete all Work in accordance with the Contract Documents.

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

INFORMATION TO BIDDERS

QUALIFICATIONS OF BIDDER: STATE LICENSING LAW: Each Bidder's attention is called to LSA R.S. 37:2151 through LSA.R.S. 37:2165, requiring Contractors and subcontractors to be duly licensed before bidding on any contract in the amount of $50,000.00 or more. All Contractors who provide responses to the Request for Quotation must conform to all the provisions of the Louisiana State Licensing Law for Contractors as they apply to the Response and to the contract, and shall insert on the Response the number of its license above the signature of the duly authorized representative. **It is the responsibility of the General Contractor to ensure that subcontractors and suppliers conform to this law.**

ABILITY TO PERFORM: The Owner may make such investigations as it deems necessary to determine the ability of the Bidder to perform the work, and the Bidder shall furnish to the Owner all such information and data for this purpose as the Owner may request including, but not limited to, Bidder Identification Information, Project Experience Record, and Equipment Schedule. The Owner reserves the right to reject any bid or Response if the evidence submitted by, or investigation of, such Bidder fails to satisfy the Owner that such Bidder is properly qualified to

carry out the obligations of the Contract and to complete the work contemplated therein. Conditional bids or Responses will not be accepted. If applicable, the Bidder shall complete the specified Unit Price Form as requested by the Owner. The Request seeks a lump sum bid. If applicable, the Bidder shall provide separate unit costs for the listed work items in the event that an increase or decrease in the quantity of these particular items should be necessary or if adjustments necessary in the field require changes in the Work. Unit cost shall include all costs and shall comply with the Contract Documents.

CHARACTER OF BIDS: A **LUMP SUM** dollar amount is required for each item of work shown including alternates. The dollar amount shown in the base bid shall include the furnishing of all conditions of the contract, including but not limited to, the supervision, materials, tools, labor, equipment and construction necessary to fully complete the work in conformity with the Contract Documents.

The following are to be included with the Response to the Request for Quotations: (i) a corporate resolution or other written evidence of the authority of the person signing the Response, and (ii) the Unit Price Form if the Request for Qualifications includes unit prices.

Contractors shall include in their Responses, in addition to the contract price, all alternate proposals called for in these specifications, or in subsequent addenda. Failure to furnish all information required shall be just cause to reject the entire proposal. All materials incorporated into the construction of this project must conform in all respects to the requirements set forth herein.

Reasonable grounds to suggest that any Bidder is interested in more than one Response will cause the rejection of all Responses in which the Bidder is deemed to be interested. No oral proposals or modifications will be considered. Responses submitted past the due date set forth in the RFQ will not be considered.

Any addenda issued shall become part of the Request for Qualifications. Upon execution of a contract, the bid documents including any addenda and the Response shall become a part thereof.

The price indicated on the Response shall be based on the specifications with all addenda issued. It is assumed that all Bidders have received all addenda prior to the opening of bids. If a Bidder has not received the addenda, he may withdraw the Response without prejudice.

EXAMINATION OF SITE AND CONTRACT DOCUMENTS: Before preparing Response to the RFQ, each Bidder is expected to make a **field examination** of the proposed work, and to fully acquaint itself with site conditions so that he may fully understand the facilities, difficulties and restrictions attending the execution of the work under this Contract. Bidders should thoroughly examine and be familiar with the Contract Documents and site/building conditions. Access to the site/building/park shall be scheduled by BREC Planning and Engineering.

Submission of a Response shall be considered prima facie evidence that the Bidder has made such an examination and is satisfied as to the conditions to be encountered in performing the work and as to the requirements of the Contract Documents.

Contractor represents that he has familiarized himself with all applicable federal, state and local laws, ordinances, rules and regulations that in any manner may affect cost, progress or performance of the Work.

No additional compensation will be due the Bidder due to unusual difficulties which may be encountered in the execution of any portion of the contract or construction and which were evident through a site inspection or disclosed in drawings or reports made available to Bidder.

ADDENDA AND INTERPRETATIONS: If any person contemplating submitting a bid is in doubt as to the meaning of any part of the Contract Documents, he may submit to the Owner a written request for an interpretation thereof not later than fourteen **(14) calendar days before due date for Responses to the RFQ**. The person submitting the request will be responsible for its prompt delivery. Any interpretation of the Contract Documents will be made only by Addendum duly issued. Any Addenda will be e-mailed to prospective bidders who have been notified of the RFQ and/or signed the pre-bid sign-in sheet. The Owner will not be responsible for any other explanations or interpretations of the Contract Documents.

MANUFACTURER OR TRADE NAMES - It is intended that materials or products specified by name of manufacturer, brand, trade name, or by catalog reference shall be the basis of the Response to RFQ and furnished under the contract, unless changed by mutual agreement in accordance with the following "Prior Approval" paragraph. Where two or more materials are named, the choice of these shall be at the option of the Contractor. Regardless of the foregoing, wherever in the specifications the name of a certain brand, make, manufacturer, or definite specification is utilized, the specifications are used only to denote the quality standard of product desired and they do not restrict Bidders to the specific brand, make, manufacturer or specification named. Such specifications are used only to set forth and convey to prospective Bidders the general style, type, character, and quality of product desired and equivalent products will be acceptable. The Project Designer shall determine what is considered an equivalent product.

Electrical panel boxes and breakers shall be readily available by two (2) or more electrical supply houses within East Baton Rouge Parish. Breakers shall not be proprietary.

PREFERENCE FOR STEEL ROLLED IN LOUISIANA – Pursuant to RS 38:2251.2, when purchasing steel for this Work, steel rolled in this state shall be purchased which is equal in quality to steel rolled outside the state, provided the cost of steel rolled in this state does not exceed by more than ten percent the cost of steel which is rolled outside the state. This preference shall not apply when sufficient quantities of steel rolled in Louisiana are not available.

PRIOR APPROVAL: Bidders desiring to use any materials or products other than those specified, shall submit a request in writing to the Project Designer, no later than ten (10) **working days before the Response due date. The request shall** identify the proposed substitution and manufacturer and Bidder shall furnish with the request copies of all specifications, test date, samples, or other material necessary to establish the quality of the substitution. Failure to provide sufficient specifications and supporting data in a clear and concise manner shall serve as justification for the rejection of the proposed substitution.

Approvals will be given in writing only and will be forwarded to all Bidders via an addendum.

The requirement of approval in an addendum of substitute materials of equal quality to those specified shall not preclude the approval of equal materials after receipt of bids. **Contractors are**

cautioned that BREC reserves the right after receipt of bids to disapprove the use of any material not considered to be the equal of the one specified or not having pre-approval. Contractor's reliance upon unapproved materials shall be entirely at their own risk. Contractor is required to submit materials to the Project Designer for approval under the terms outlined above. Failing to comply with the above requirements may result in the rejection of materials.

LOCAL LABOR: BREC recommends to the Contractor and all subcontractors that they employ local craftsmen, laborers, etc., and taxpayers of East Baton Rouge Parish.

SALES TAX EXEMPTION: The Owner, as a political subdivision of the State of Louisiana, is exempt from the payment of Louisiana state and local sales and use taxes pursuant to La. R.S. 47:301(8)(c); and La. R.S. 33:1334(D). Furthermore, in order for the Owner to take advantage of this sales tax exemption, and in accordance with La. R.S. 38:2212(S), the Owner will designate Contractor, its subcontractors, and the sub-subcontractors as its agent(s) for the purchase of materials, supplies and equipment to be incorporated into the work or which are purchased solely for use and consumption in the fulfillment of the work under this Agreement. The designation as agent is for the sole and limited purpose of purchasing supplies and equipment for the Project and pursuant to the terms of the Contract Agreement. Some leases may be eligible for tax exemption. Purchases or leases of materials, supplies and equipment which are not incorporated in the Project or which are not otherwise authorized pursuant to the terms of the Contract Agreement are not eligible for the exemption. Contractor and its subcontractors or any subcontractor thereof shall not be considered agents of the Owner for any other purpose. In order to preserve the Owner's entitlement to tax exemption, the Owner will provide the Contractor with the Louisiana Department of Revenue Designation of Construction Contractor as Agent of a Governmental Entity Sales Tax Exemption Certificate covering purchases by a political subdivision of the State of Louisiana (R-1020). This completed form shall be presented to vendors of supplies, materials and equipment and shall serve as authority to apply the sales tax exemption.

Nothing herein is intended to modify or otherwise alter Contractor's responsibilities, express or implied, herein: (1) to fully ensure compliance with the Contract Documents, including but not limited to the Contract Agreement, the plans and project specifications; (2) to provide and maintain the insurance as called for in the Contract Documents; (3) to fully warrant all materials, supplies and equipment furnished under the Contract Agreement which shall remain the sole responsibility of the Contractor; (4) to provide complete indemnification as called for in the Contract Agreement and the Contract Documents; (5) to alter the method or time frames for payment established under the Contract Agreement or other Contract Documents; (6) to change the rights of the Owner to accept or reject the work, or any part thereof, or alter the manner or time frames in which inspections may be made; (7) to provide for the safety and protection of materials, supplies and equipment whether in transit to the site, or in storage on or off the site; (8) to properly correct the work as required under the Contract Documents, and nothing herein shall in any way diminish, impede or retard any rights granted to the Owner and/or the Architect to reject any portion of the work which does not comply with the Contract Documents; or (9) to pay any sales, consumer, use and similar taxes for the work or portion thereof to the extent such taxes are applicable and required by law.

Nothing herein shall be construed to relieve Contractor or any subcontractor or sub-subcontractor thereof from the payment of any sales, use or other taxes with respect to purchases of materials, supplies or equipment which are not to be incorporated into the work or used solely in the fulfillment of the work to be performed under the Contract Agreement, which are not otherwise

titled over to the Owner or which are otherwise not subject to the exemption. The payment of all such sales, use or other taxes shall be the sole responsibility of the Contractor.

Owner makes no representations regarding whether particular purchases or leases of materials, supplies or equipment are subject to the exemption and Contractor hereby agrees to indemnify, defend and hold Owner harmless from and against any claims for taxes or fees claimed by local, state or federal taxing authorities, including all attorneys' fees and other litigation costs incurred by Owner in connection with such claims.

All RFQ Responses shall include and Contractor shall be responsible for all applicable **out of state** sales taxes.

PERMITS AND FEES: Unless otherwise provided in the Contract Documents, the Contractor shall secure and pay for the building permit, plan review fees, and other permits, governmental fees, licenses and inspections necessary for proper execution of the Contract and which are legally required when bids are received or negotiations concluded. **Owner shall not be liable for delays resulting from the permitting process, except to the extent caused by the Owner.**

COMPLIANCE WITH LOCAL CODES: Contractor agrees to comply with all applicable provisions of the laws and building and construction codes of the City/Parish of East Baton Rouge, the State of Louisiana, and the United States and with all laws or regulations implemented for the protection of workers by any governmental agency. All work shall be protected with all necessary lighting, barriers, safeguards, and warnings as required by the Contract Documents and any applicable laws, ordinances or regulations of said City/Parish, State or the United States.

FOLLOWING OPENING OF BID

The Contractor shall not commence work prior to the issuance of a written notice to proceed issued by the Owner or its representative. BREC reserves the right to abandon, without obligation to the Contractor, any part of the project or the entire project at any time before the Contractor begins the construction work authorized by BREC.

The bidder awarded the Project shall furnish all required affidavits and certificates of insurance evidencing required coverages within ten-days after being awarded the Project. If the bidder does not submit the requested information within the ten-day period, such bidder shall be declared non-responsive, and BREC may award the bid to another bidder.

AFFIDAVIT OF COMPLIANCE; Nothing set forth herein shall be construed as adopting the public bid requirements of Title 38 of the Louisiana Revised Statutes and other applicable laws. Nevertheless, prior to beginning any work and no later than ten-days after being awarded the Project, the Bidder awarded the Project will be required to secure and file with the Owner such affidavit executed by all persons required by the provisions of LSA-R.S. 38:2224, LSA-R.S. 38:2212.10, and LSA R.S. 38:2227.

INSURANCE: The Contractor shall not commence work under this Contract until it has obtained all the insurance required hereunder and such insurance has been approved by the Owner, nor shall the Contractor allow any of the subcontractors to commence work on his subcontract until all insurance required of the subcontractor has been so obtained and approved. Approval of the insurance by the Owner shall not relieve or decrease the liability of the Contractor hereunder. The Contractor shall have the policies required by him, endorsed to reflect and insure any occupancy by Owner at the time of such occupancy.

Insurance shall be with a reliable company (having at least an "A" or better financial rating or a "B" or better General Policy Holders Rating according to the latest A.M. Best Report) of the Contractor's choice, acceptable to and approved by the Owner and authorized to do business in the state where the project is located.

Certificates of Insurance furnished by Contractor shall be issued to the Owner by the authorized Agent of the Insurance Company, or by the Insurance Company, and shall be on the current ACORD form, or another form providing no less coverage information. Certificates shall be furnished in duplicate. Owner shall be named as an additional insured on all commercial general liability and comprehensive automobile liability policies for any liability of the Owner arising out of the work of Contractor. Contractor acknowledges that the contract sum includes amounts representing the reimbursement of the cost of such coverage. The following coverages must be certified:

COMMERCIAL GENERAL LIABILITY INSURANCE: Contractor shall secure commercial general liability coverage with the following limits. Coverage shall be primary and non-contributory and shall provide completed operations coverage which shall remain in place for five (5) years after substantial completion of the Project. Minimum limits of liability are as follows:

Bodily Injury Liability	$1,000,000 each person
	$1,000,000 each occurrence
Property Damage Liability	$1,000,000 each occurrence
Or	$1,000,000 CSL (Combined Single Limit)
Minimum Required General Liability Aggregate -	$2,000,000

WORKERS COMPENSATION AND EMPLOYERS LIABILITY INSURANCE Contractor shall maintain insurance affording coverage under the statutory provisions of the worker's compensation laws and any other compensation provisions of the worker's compensation laws pertaining to the operations to be performed under this Contract, and Employer's Liability Insurance with minimum limits of $100,000. In the case of sub-contractors, Contractor shall require subcontractors to provide similar insurance unless it is his intent that such insurance be afforded under his policies.

COMPREHENSIVE AUTOMOBILE LIABILITY: All coverage options listed below must be included, with the exception of "Garage Liability," where not applicable. Minimum limits of liability are as follows:

Bodily Injury & Property	$1,000,000 each person
Damage Liability	$1,000,000 each accident
Or	$1,000,000 CSL

The Insurance Company or Companies certifying coverage shall agree that the insurance so certified shall not be canceled for any reason (including Non-Payment of Premium), or materially changed, without first giving at least 30 days written notice to the Owner. A waiver of subrogation shall apply in favor of the Owner with respect to Workmen's Compensation, Commercial General Liability, and Auto Liability coverage.

FOLLOWING AWARD OF CONTRACT

BREC will endeavor to award this Contract within forty-five (45) days to the Contractor submitting the most responsive and advantageous RFQ Response. The Contractor and BREC will execute this Contract not later than sixty (60) days from BREC's award of the Contract.

GENERAL LIABILITY AND AUTOMOBILE LIABILITY COVERAGE: The policies are to contain, or be endorsed to contain, the following provisions: (i) BREC, 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 BREC. (ii) The Contractor's insurance shall be primary with respect to BREC, its officers, agents, employees and volunteers. Any insurance or self-insurance maintained by BREC shall be excess and non-contributory with respect to the Contractor's insurance. (iii) Any failure of the Contractor to comply with reporting provisions of the policy shall not affect coverage provided to BREC, its officers, agents, employees and volunteers. (iv) 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.

OWNER'S AND CONTRACTOR'S PROTECTIVE LIABILITY INSURANCE (OCP): The Contractor shall purchase and maintain until final acceptance of the work an Owner's Protective Liability Policy, with no deductible, in which the Owner and their consultants shall be named as an additional insured, protecting the insured against liability arising from operations under the Contract. This policy shall not cover liability arising from errors in Drawings and Specifications prepared by the Project Designer. The policy shall provide the same minimum limits of liability as required for the Contractor's Comprehensive General Liability Policy.

In the event this Contract requires building of new works and not alteration or repair to existing works, then all such buildings shall be at the risk of Contractor until finally accepted by Owner and Contractor shall furnish at his own expense fire and windstorm insurance policies with good and solvent companies acceptable to Owner in such amounts on said work as will fully cover cost of replacing same.

PERFORMANCE AND PAYMENT BOND: 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 at least 50% of the Contract amount, and who is currently on the U.S. Department of the Treasury Financial Management Service List and who complies with LSA R.S. 38:2219. The bond shall not be accepted if written for an amount exceeding the amount listed in the Treasury Financial Management Service List, published annually in the Federal Register. Notwithstanding the foregoing, pursuant to LSA R.S. 38:2216, for contracts of less than $200,000, a contractor meeting the definition of a small business shall only be required to post a bond in the amount of 25% of the Contract amount so long as Contractor satisfies the requirements of LSA R.S. 38:2216(D).

RECORDATION: The original contract and the performance and payment bonds shall be recorded by the Contractor with the Clerk of Court of East Baton Rouge Parish, and an original copy of this recording shall be sent to the Owner not more than thirty (30) days after the work has commenced. Each change order which adds an amount of ten percent or more of the original contract amount and which additional amount is at least ten thousand dollars or all change orders aggregating to an amount of twenty percent or more of the original contract amount and which

additional amount is at least ten thousand dollars shall be recorded not later than thirty days after the date of the change order which requires that the recordation take place.

STATUTORY EMPLOYEE: Taking advantage of the provisions of LSA- R.S. 23:1031 and 23:1061, Owner and Contractor contract, agree and stipulate that Owner shall, solely for workers' compensation purposes, be the statutory employer of any and all of Contractor's employees, and any employees of any subcontractor or agent hired, or retained in any manner by Contractor (and any other person for whom Contractor may be held responsible) while any of said persons are performing any work or providing any services under this agreement. In that regard, Owner and Contractor contract, stipulate and agree that all work performed under this agreement shall be part of Owner's trade, business and occupation, and shall be specifically considered an integral part of and essential to the ability of Owner to generate its services, products and goods. Owner and Contractor further contract, stipulate and agree that the services or work provided by any subcontractor or other person retained by Contractor for the performance of any work or service under this Agreement shall be contemplated by and included in this provision.

TIME OF COMMENCEMENT AND COMPLETION: Upon execution of the Contract, BREC will issue a Notice to Proceed to the Contractor within thirty (30) days. The Notice to Proceed may be extended upon mutual consent by both parties. The work under this Contract shall commence on the date the Notice to Proceed is issued and shall be finished and completed within the time stipulated, subject to authorized adjustments. The Owner will suffer financial loss if the project is not substantially complete in the time set forth in the Contract Documents. The Contractor waives and dispenses with any requirement for putting in default for failing to complete the project within the time stipulated. The Contractor and his Surety shall be liable for and shall pay to the Owner the sum stated in the Contract Documents as fixed, agreed and liquidated damages for each consecutive calendar day (Saturdays, Sundays and holidays included) of delay until the work is substantially complete. By executing the Contract the Contractor confirms that the Contract Time is a reasonable period for performing the Work.

Liquidated damages will be deducted from any money due the Contractor under this Contract on a monthly basis, automatically and without the need for consent of the Contractor, and the Contractor and his/her surety shall be liable for any liquidated damages in excess of amounts due the Contractor. Contractor specifically agrees that the liquidated damages are due and payable to Owner, without regard to pending disputes regarding delays or outstanding requests for extensions of time.

The amount of liquidated damages is not a penalty nor has Contractor consented to these provisions under any duress, pressure, or enticements from the Owner, and hence the liquidated damages are not to be construed as a penalty or punishment under the law.

It is the intention of BREC to issue the Notice to Proceed immediately upon the receipt of a permit. The Contractor is required to obtain the permit within two (2) working days of it being issued by the City Parish.

PROCEDURE: The Owner's Representative will be introduced to the Contractor prior to beginning work. The administration of this Contract shall be through the BREC Representative. All requests for payment and change orders shall be submitted through those channels.

The BREC Representative should be contacted for information concerning interpretation of the plans and specifications, directions and instructions, approvals on the construction, materials, construction methods, and also as to the correctness of all measurements, etc. The decision of

the Owner shall be final and binding on all questions concerning the execution of the Work. Contractor shall notify BREC or its Representative immediately of any conflicts or errors in the Contract Documents.

The Contractor shall be responsible for determining exact dimensions in the field. The Contractor shall work with the BREC Representative **and/or BREC to establish the locations and elevations of slabs and/or buildings.**

The Contractor, before commencing Work on any surface which receives or is the base for other materials, shall inspect and report to the BREC Representative any defects in the receiving or base materials which will affect the application, fastening, or finish of the other material. Commencement of Work on such surface shall constitute acceptance of the receiving or base materials, and shall not relieve the Contractor of any warranties, whether contractual or by law, in connection with said other materials.

Concrete and compaction testing will be paid by the Owner. If material fails the testing, any re-testing will become the responsibility of the Contractor depending on conditions and at the discretion of the Owner.

The Contractor shall notify BREC twenty-four (24) hours prior to any potentially dangerous or noisy operation in connection with this work. The Contractor shall take all necessary precautions when implementing said work. Park visitors and equipment will be operating in the same area. Park operations and public visitation shall not be interrupted by the Contractor without prior coordination with BREC.

Final approval of the finished project shall be given by the Owner upon recommendation of the BREC Representative. Any work done at the direction of any other authority will not be accepted nor paid for by the Owner.

SUBMITTALS: The Contractor shall review all Submittals required for compliance with the Contract Documents and approve and submit all such submittals to the Project Designer with reasonable promptness and in such sequence as to cause no delay in the Work or in the activities of the Owner or of separate contractors. Submittals which are not marked as reviewed for compliance with the Contract Documents and approved by the Contractor may be returned by the Project Designer without action.

Informational submittals upon which the Project Designer is not expected to take responsive action may be so identified in the Contract Documents. Submittals which are not required by the Contract Documents may be returned by the Project Designer without action.

The Contractor shall perform no portion of the Work for which the Contract Documents require submission and review of Submittals until the respective Submittal has been approved in writing by the Project Designer.

VALUE ENGINEERING: The Contractor shall notify the BREC Representative of any conditions found by him which would make it desirable, in his judgment, to modify the requirements of the work in order to produce the best results. However, Planning and Engineering shall have the authority to determine whether any change or modification should be made, and no change or modification of any kind shall be made except upon their instruction.

The Contractor may make substitutions only with the consent of the Project Designer, after evaluation by the BREC Representative and in accordance with a Change Order.

STAGING: Location of a staging area and construction barricading needed for this work **must** be approved in advance by the BREC Representative.

TEMPORARY SCAFFOLDS, STAGING, AND SAFETY DEVICES: The Contractor shall provide, erect, maintain, and remove when directed, all scaffolding, staging, platforms, temporary runways, temporary flooring, guards, railings, stairs, etc., as required by local, federal, and state codes, or laws, for the protection of workers and the public. The construction, inspection, and maintenance of the above items shall comply with all safety codes and regulations applicable to the project.

MATERIAL AND EQUIPMENT: All material shall be systematically stored and stockpiled in areas where it will not interfere with parking, roadways, and walkways, nor become hazardous to personnel or park visitors occupying adjoining areas. All damage to curbing, walkways, paving, grounds, and finish work by other trades that results from storage or delivery of materials, shall be restored to their original condition by the Contractor. The Contractor shall be **fully responsible** for all equipment, materials, supplies, tools, etc., new and old, stored on the construction site. BREC shall not be held responsible for any damages, theft or loss of any kind regarding contract workers' vehicles or the vehicles of the Contractors and sub-contractors.

PROTECTION / MAINTENANCE OF SITE: The Contractor shall take all precautions necessary to protect and maintain the site including but not limited to all existing trees, shrubbery, sidewalks, buildings, vehicles, utilities, conduit, etc., in the area where work is being performed during the construction and cleanup operations. The Contractor shall repair, restore, and make good at his own expense all injury and damage to same which may result from work being carried out under this contract. The obligation to prevent damage to the site shall include taking reasonable precautions to prevent flooding.

The utility lines and conduit locations are the responsibility of the contractor so as to avoid injury to workers or the general public and to the utilities themselves. To the extent applicable, Contractors are required to comply with the Louisiana Underground Utilities and Facilities Damage Prevention Law, LSA R.S. 40:1749.11 et seq.

The Contractor shall exercise extreme caution to prevent damage to park facilities including but not limited to vegetation, parking lots, buildings, sidewalks, etc. outside of the work area. The Contractor's equipment may be parked in the park upon approval and at the direction of BREC. No equipment or vehicles are to be parked or stored under the canopy of any trees. Contractor shall not store or move equipment in recreation areas beyond the designated construction site. Contract personnel shall be limited to the work site and access routes through the park to the work site.

The Contractor shall keep all adjacent roads and sidewalks clean and free of mud, debris, tools, equipment, etc.

PROTECTION OF THE PUBLIC: The Contractor shall take all necessary precautions to protect the public or anyone who may encounter the Work during all phases of Work under this contract, including cleanup, until the Work is accepted by the Owner.

CONTRACTOR'S DUTIES AND STATUS: The Contractor accepts the relationship of trust and confidence established with the Owner by this agreement. Contractor covenants with the Owner

to furnish his best skill and judgment and to cooperate in furthering the interests of the Owner. He agrees to furnish efficient business administration and superintendence and to use his best efforts to furnish at all times an adequate supply of workmen and materials, and to perform the work in the best way and in the most expeditious and economical manner consistent with the interests of the Owner. The Contractor agrees that efficient and adequate subcontractors shall be provided by the Contractor. The Contractor shall be responsible for the actions and work of the subcontractors, and further, shall supervise the activities of the subcontractors to insure their compliance with all applicable standards and consistent with the Contractor's Duties set forth in this agreement. A written contract or agreement shall be executed between the contractor and subcontractor. All subcontractors and subcontracts shall conform to all requirements of the Contract Documents.

The Contractor or a competent and reliable superintendent shall oversee the work at all times. The superintendent shall represent the Contractor in his absence and all directions given to him shall be binding as if given to the Contractor. The superintendent shall be present at all times when work is underway on the project. The Contractor shall not employ a proposed superintendent to whom the Owner or Architect has made reasonable objections. The Contractor shall not change the superintendent without the Owner's consent, which shall not be unreasonably withheld or delayed. In the event that the superintendent fails to fulfill the Contractor's Duties under this agreement and upon request by Owner, Contractor shall replace the superintendent with a competent and reliable superintendent for which the Owner has no reasonable objection.

All BREC Parks are Drug Free Zones. No drugs, alcohol, firearms or fireworks of any kind are allowed in these park areas. Amplified music, loud or foul language from contract workers shall not be allowed in the park. BREC reserves the right to remove any contract personnel and the Contractor hereby agrees to remove said contract personnel from the construction site for due cause as determined by BREC.

QUALITY ASSURANCE: The Contractor shall use only skilled and experienced craftsmen, carpenters, landscape workers, mechanics, etc. skilled in their respective craft or trade, in the execution of this work, use adequate numbers of skilled craftsmen who are thoroughly trained and experienced in the necessary crafts and who are completely familiar with the specified requirements and the methods needed for proper performance of the work. The standard of Work required throughout the Project shall be sufficient to ensure first class results.

UNFORESEEN CIRCUMSTANCES: The Contractor and the Owner agree that should unforeseen issues arise during any phase of the construction, the Owner may require the Contractor to cease work for a period of time in order that said issues may be resolved in accordance with State Law. The Contractor shall resume work promptly upon written notification by Owner. No extra fee or charges shall be due to the Contractor for delays of up to sixty (60) days due to the discovery of unforeseen issues.

If the Contractor is delayed at any time in the commencement or progress of the Work by an act or neglect of the Owner or the Project Designer, or of an employee of either, or of a separate contractor employed by the Owner, or by changes ordered in the Work, or by labor disputes, fire, unusual and unavoidable delays in deliveries, unavoidable casualties or other causes beyond the Contractor's control, or by delays authorized by the Owner pending mediation and litigation, or by any other cause which the Owner determines may justify delay, then the Contract Time shall be extended by Change Order for such reasonable time as the Owner may determine. Any such claim for extension of time shall be submitted in writing along with documentation adequately

supporting the claimed delay. All claims shall be submitted to the Owner or the project architect or engineer no later than thirty (30) days after the occurrence. Failure to submit a claim timely shall constitute a waiver of all claims for extensions of time arising out of the occurrence. Except with respect to delays due to the fault of the Owner, no additional sums shall be due Contractor in connection with such delays. In the event that Contractor believes that it has been delayed due to the fault of the Owner, Contractor shall be required to demonstrate the impact of the delay to the critical path of the schedule.

ACCOUNTING RECORDS: The Contractor shall monitor and record all materials, equipment, and labor utilized and shall keep such full and detailed accounts as may be necessary for proper financial management under this agreement and proper verification of materials in accordance with the plans and specifications, and such system shall be maintained to the satisfaction of the Project Designer. The Project Designer and Owner shall be afforded access to all the Contractor's records, books, correspondence, instructions, drawings, receipts, vouchers, memorandum, and similar data relating to this contract, and the Contractor shall preserve all such records for a period of three(3) years or for such longer period as may be required by law, after the final payment.

CHANGE ORDERS: If the Owner decides to add to, or delete from the original scope of the project as defined by the Contract Documents, any Change Order shall be in writing and shall be authorized by the Project Designer and Owner.

Change Orders exceeding $100,000 or that cause the total Contract to exceed 120% of the Original Contract Sum must be approved by the BREC Commission.

Each change order to a public works contract which adds 10% or more of the original contract amount and which additional amount is at least $10,000 or all change orders to a contract aggregating to an amount of 20% or more of the original contract amount and which additional amount is at least $10,000 shall be recorded with the Clerk of Court of East Baton Rouge Parish by the Contractor, and an original notice of this recording is to be sent to the Owner within thirty(30) days of the date of the applicable change order.

Change orders which do not alter the nature of the thing to be constructed as described by these Contract Documents and which are an integral part of the project objective are considered change orders within the scope of the contract and shall either be negotiated by the Project Designer and Contractor in the best interest of the Owner. Where the change order is negotiated, it shall be fully documented and all costs shall be itemized, including material quantities, material costs, insurance, other related costs, overhead and profit as described below. Where certain unit prices may be contained in these initial contract documents, no deviations shall be allowed in computing negotiated change order costs.

Change orders which alter the nature of the thing to be constructed as described by these Contract Documents, and which are not an integral part of the project objective, are considered change orders outside the scope of the contract and, if they are in excess of the contract limit as defined by LSA-R.S. 38:2212 (d), shall be let out for public bid as provided by such statute.

The total cost of a change order, referred to as the Cost of the Work, shall be the eligible cost required to be incurred in performance of the Work and paid by the Contractor and Subcontractors. Eligible costs shall be limited to actual wages paid directly to labor personnel, with a labor burden markup exclusively limited to applicable payroll taxes, worker's compensation insurance, unemployment compensation, and social security taxes for those labor personnel performing the Work. Wages shall be the basic hourly labor rate paid an

employee exclusive of fringe benefits or other employee costs. The labor burden percentage for the Cost of the Work is limited to categories listed herein. Employer-provided health insurance, fringe benefits, employee training (whether a requirement of employment or not), vacation pay, etc., are examples of ineligible labor burden costs which shall not be included, as these costs are already compensated by the Overhead and Profit markup.

Supervision shall not be included as a line item in the Cost of the Work, except when the change results in a documented delay in the critical path, which shall be demonstrated by bonified construction schedules.

Cost of all materials and supplies necessary and required to perform the Work, identifying each item and its individual cost shall be allowed. Incidental consumables are not eligible costs and shall not be included.

Cost of each necessary piece of machinery and equipment required to perform the Work, identifying each item and its individual cost shall be allowed. Incidental small tools of a specific trade (i.e., shovels, saws, hammers, air compressors, etc.,) and general use vehicles, such as pickup trucks even for moving items around the site, fuel for these general use vehicles, travel, lodging, and/or meals are not eligible and shall not be included.

Cost of eligible Insurances shall be allowed and shall be limited to documented increases in "Builder's Risk" insurance premium costs only. Commercial General Liability, Automobile Liability, and all other required insurances, where referenced in the Contract shall be considered part of normal overhead. These costs are already compensated by the Overhead and Profit markup.

Cost for the General Contractor Performance and Payment Bond premium, where the documented cost of the premiums have been increased due to the Change Order shall be allowed.

The maximum allowed Overhead and Profit the Contractor and Subcontractor shall be 15% of the direct cost of any portion of Work. When all Work is performed by the General Contractor Work, 15% markup on the Cost of the Work is allowed for the general Contractor. When all Work performed is Subcontract Work, 10% markup is allowed on the Cost of the Work for Subcontractor's Overhead and Profit, plus 5% markup on the Subcontractor's Cost of the Work is allowed for General Contractor's Overhead and Profit.

The following are considered reasonably anticipated days of adverse weather on a monthly basis, and extensions of time for adverse weather will be considered only for days beyond these:

January	11 days	July	6 days
February	10 days	August	5 days
March	8 days	September	4 days
April	7 days	October	3 days
May	5 days	November	5 days
June	6 days	December	8 days

Note: Contract is on a calendar day basis.

APPLICATIONS FOR PAYMENT: The Contractor shall deliver to the Project Designer an itemized statement showing in complete detail all monies paid out or costs incurred by the

Contractor on account of the cost of the work during the previous month for which he is to be reimbursed, together with payroll records for all labor and such other data supporting Contractor's right to payment for subcontracts or materials as the Owner and Project Designer may require.

In taking action on the Contractor's Applications for Payment, the Owner shall be entitled to rely on the accuracy and completeness of the information furnished by the Contractor. Owner's reliance on pay applications shall not be deemed to represent that the Owner has made audits of the supporting data, exhaustive or continuous on-site inspections or that the Owner has made any examination to ascertain how or for what purposes the Contractor has used the moneys previously paid on account of the Contract.

PAYMENTS TO THE CONTRACTOR: The Project Designer will review the Contractor's Application for Payment and will promptly take appropriate action as provided in the Contract Documents. Payment shall be payable by the Owner within 30 days of receipt of application by Owner. Owner, however, hereby reserves the right to examine all Accounting Records as specified herein in order to verify the application for payment and its conformity to the actual material and labor incorporated into the work or stored at the site. Pay applications shall be submitted on forms approved by the Project Representative. Retainage of 5% shall be withheld on all pay applications and released with the final payment upon satisfaction of all contract conditions.

The Owner shall make payment on account of the Contractor as follows: Owner shall pay Contractor each month a percent of the certified value in accordance with LSA-R.S.38:2248, based on the Contract prices, of labor and materials incorporated in the work and materials suitably stored at the site thereof as submitted for payment by the Contractor and approved by the Superintendent or his duly authorized representative, less retainage and the aggregate of previous monthly payments.

Further, Owner shall retain all sums required to pay the properly payable claims of any claimant as defined in LSA-R.S.38:2242 that files a sworn statement of the amount due him with the Owner or recorded with the East Baton Rouge Parish Clerk of Court. Such amounts retained shall be paid directly to the claimant after seven days' notice to the Contractor and Contractor's failure to object to such direct payment within those seven days. If the Contractor does object to direct payment to the claimant, Owner will deposit the funds in the registry of the Court through the institution of a concursus proceeding or release payment to Contractor if there is sufficient security available to secure payment of the sum claimed due by claimant.

TERMINATION OF CONTRACTOR: During the progress of the work, the Owner may terminate the Contract if the Contractor:

- Persistently or repeatedly refuses or fails to supply enough properly skilled workers or proper materials;
- Fails to make payment to Subcontractors or Suppliers for materials or labor in accordance with the respective agreements between the Contractor and the Subcontractors;
- Persistently disregards laws, ordinances, or rules, regulations or orders of a public authority having jurisdiction;
- Files for bankruptcy;
- Should there be any unreasonable neglect in or suspension of the work;
- Should the Contractor fail to correct defective work;
- Should Contractor fail or refuse to follow the plans and specifications;
- Should the Contractor fail to timely complete the punch list; or

- Otherwise is guilty of material breach of any provision of the Contract Documents.

In the event of default, Owner shall have the right and power at Owner's option and upon 48-hours written notice to Contractor to terminate the Contractor and assign such Work to another contractor of Owner's choosing which shall be completed at the cost and expense of Contractor and Contractor's surety.

ATTORNEY FEES: Should Owner employ an attorney to enforce any of the provisions hereof, or to protect its interest in any matter arising under this contract, or to collect damages for the breach of this Contract, or to prosecute or defend any suit resulting from the Contract, or to recover under the terms of the surety bond supplied by Contractor under this contract, Contractor and his surety, jointly and severally, agree to pay Owner all reasonable costs, charges, expenses and attorney's and expert fees expended or incurred therein. With respect to any indemnity and defense obligations set forth in the contract documents, indemnitor's obligation to reimburse the indemnitee for attorney fees and costs incurred to defend claims subject to the indemnification and defense obligations shall accrue immediately upon receipt of notice of claim by indemnitor and indemnitor shall reimburse indemnitee for any attorneys and expert fees or costs as incurred on a monthly basis.

SUBSTANTIAL COMPLETION AND ACCEPTANCE: When the Contractor considers that the Work, or a portion thereof which the Owner agrees to accept separately, is substantially complete, the Contractor shall prepare and submit a Punch List to the Project Designer. Any punch list generated during a construction project shall include the cost estimates for the particular items of work the design professional has developed based on the mobilization, labor, material, and equipment costs of correcting each punch list item.

Upon receipt of the Punch List, the Project Designer will make an inspection to determine whether the Work, or designated portion thereof, is substantially complete. If the Project Designer's inspection discloses any item which is not sufficiently complete, whether or not included on the Punch List, the Contractor shall, before issuance of the Certificate of Substantial Completion, complete or correct such items upon notification by the Project Designer. In such case, the Contractor shall then submit a request for another inspection by the Project Designer to determine Substantial Completion.

When the Work, or designated portion thereof, is substantially complete, the Project Designer will prepare a Certificate of Substantial Completion which shall establish the date of Substantial Completion, shall establish responsibilities of the Owner and Contractor for security, maintenance, utilities, damage to the Work and insurance, and shall fix the time, no later than fifteen(15) days after the Substantial Completion date within which the Contractor shall finish all items on the Punch List accompanying the Certificate. Warranties required by the Contract Documents shall commence on the date of Substantial Completion unless otherwise provided in the Certificate of Substantial Completion.

Upon completion of all punch list items to the satisfaction of Owner and its Representative, Owner shall record an Acceptance in the mortgage records of East Baton Rouge Parish. In the event that the punch list is completed, Acceptance shall be filed no later than thirty (30) days after Substantial Completion. As a condition to final payment, upon the expiration of the forty-five-day lien period, Contractor shall furnish a clear Lien Certificate from the Clerk of Court of East Baton Rouge Parish stating that all expenses have been paid and that there are no liens and claims growing out of said Work.

FINAL INSPECTION: Upon receipt of written notice that the Work is ready for final inspection and acceptance and upon receipt of a final Application for Payment, all required written guarantees, mechanical warranties, operation instructions, and related documents, the Project Designer will promptly make such inspection. Upon making the inspection, if the Project Designer finds any Work not complete, or not in conformance with the Contract Documents, he will furnish the Contractor with a Punch List. Any punch list generated during a construction project shall include the cost estimates for the particular items of work the design professional has developed based on the mobilization, labor, material, and equipment costs of correcting each punch list item. The Contractor shall remedy such defects within fifteen (15) days of his receipt of the list, and the Project Designer will make one subsequent inspection of the Work. The Contractor shall make every effort to limit the number of inspections of punch list items by the Project Designer, and the costs of an unreasonable number of inspections due to failure of the Contractor to remedy defects listed, shall be cause for the Owner to deduct the expense of any additional inspections from the contract amount due.

The Contractor shall make final cleanup of the construction site to the satisfaction of BREC as soon as construction in that area is completed. Cleanup shall include removal of all construction materials, nails, equipment, and/or other rubbish. No more than five (5) days shall elapse after the completion of construction before the area is cleaned. Surplus materials shall be disposed of by the Contractor at the Contractor's expense and as directed by BREC. Cleaning of equipment by Contractor or Subcontractor shall take place in an area approved by BREC.

FINAL ACCEPTANCE: When the Project Designer finds the Work acceptable under the Contract Documents and the Contract fully performed, he will issue the final Certificate of Payment stating that to the best of their knowledge, information, and belief, and on the basis of his observations and inspections, the Work has been completed in accordance with the terms and conditions of the Contract Documents.

FINAL PAYMENT: The last and final payment of the retainage, applying to such Work or designated portion thereof, and adjusted by authorized Change Orders, shall be due and payable upon the expiration of the forty-five day lien period and after all materials and rubbish have been removed from said premises. Such payment shall be adjusted for Work that is incomplete or not within the requirements of the Contract Documents.

If the Work has been accepted by the Project Designer and Owner and all materials and rubbish have been removed from the premises by the Contractor, but there remain outstanding claims for payment by claimants either filed with the Owner or recorded with the East Baton Rouge Parish Clerk of Court, Owner may pay all such claims and thereafter, make final payment to the Contractor less payments to claimants and be released of all further claims and liabilities for payments due for Work performed under this contract.

GUARANTEE: The Contractor shall warrant and guarantee the Work, installation and materials installed by the Contractor for a period of one (1) year, after the date of substantial completion of the project, against defects arising due to faulty workmanship or materials installation. The Contractor, individually and separate from the Performance and Payment Bond, shall guarantee his work and bind himself to repair at his expense, any and all defects for a period of one (1) year, which are not due to causes beyond his control, such as fire, earthquakes, tornadoes, or wind storm (in excess of 80 mph), normal use or vandalism.

END OF SECTION

TECHNICAL SPECIFICATIONS

SECTION 01 11 00 - SCOPE OF WORK

PART 1 - GENERAL

1.01 DESCRIPTION

A. The Work is to be performed under the Project Title:

GOLF CART PATH RENOVATIONS

City-Brooks Community Park Golf Course
1515 Dalrymple Dr., Baton Rouge, LA 70808

Santa Maria Golf Course
18460 Santa Maria Pkwy., St. George, LA 70810

B. All transmittals, correspondence, requests for payment, etc., shall refer to the project number and the project title in its entirety.

C. The location of the staging area shall be approved by the Recreation and Park Commission for The Parish of East Baton Rouge (BREC).

D. BREC owned dumpsters are not to be used for disposal.

D. It is the Contractor's responsibility to protect all existing vegetation. The Contractor shall coordinate with BREC in trimming and removing of any vegetation, including trees, that is interfering or compromising access to the project site.

1.02 WORK INCLUDED:

A. All work shall be as described in the project specifications and shown on the accompanying drawings.

B. The work includes furnishing all labor, equipment and materials needed for a complete project unless otherwise stated in the Construction Drawings. This work shall be in accordance with the plans and specifications, and the contractor is cautioned to study carefully the field conditions, the Contract Documents and the Proposal Form.

C. Description of Base Bid:

1. Saw-cutting existing concrete at existing control joints where new path tie-ins will occur.
2. Demolition of existing paths.
3. Construction of the new golf cart paths involves: excavation of topsoil, clearing and grubbing, installation of non-woven geotextile, installation and compaction of aggregate base, formwork and joints needed for new cast-in-place concrete golf cart paths, welding work needed to fabricate cross drain within the new cart paths.
4. Clean-up and disposal of all earthen and concrete spoils, construction debris (nails, screws, lumber, empty containers, packaging, etc.), sodding disturbed areas with Tifway 419 sod, fill-in ruts, and regrade to existing conditions.

1.03 PRECONSTRUCTION MEETINGS:

A. After the execution of the construction contract and issuance of the written Notice to Proceed, the Owner shall arrange with the Contractor a pre-construction conference. The Contractor shall be responsible to see that his Subcontractors are in attendance and shall furnish the Owner:
1. List of Subcontractors and materials suppliers.
2. The Construction Schedule.

B. The Contractor shall not start work at the job site nor order materials until this meeting has taken place.

1.04 PROGRESS MEETINGS

A. The Owner will establish and conduct a regular schedule of bi-weekly meetings, to be held on the job site throughout the construction period. The Owner, Contractor, Contractor's Subcontractors, etc., should have representatives in attendance at these meetings.

B. It shall be the primary purpose of these meetings or conferences to effect coordination, cooperation and assistance in every practical way to the end of maintaining progress of the project on schedule and completing the project within the contract time.

1.05 EXTENSION OF TIME

A. Request for time extension shall be presented to the Owner who will evaluate the request prior to the processing of a written change order for the time extensions and notify the Contractor of the mutual decision. No request for extension of time will be approved other than for major reasons beyond the control of the contractor, such as major transportation interruptions or delays, problems arising from governmental controls, labor disputes, or other major reasons.

B. Request for extension of time will be presented to the Owner for presentation to the Owner with the monthly application for payment.

1.06 RECORDATION

A. The Owner shall file the original of the Contract and Bonds with the Clerk of Court of East Baton Rouge Parish. At the completion of work, the Contractor shall file the Owner's Notice of Acceptance of Work and after expiration of Lien Period (45 days) shall obtain the Clear Lien Certificate for forwarding to the Owner. The Contractor shall pay all costs involved in the recordation.

1.07 CONTRACT DOCUMENTS

A. The Contractor shall receive two (2) sets of prints and specifications upon award of contract. Further sets may be obtained from the Owner at-cost, at the Contractor's request.

B. Any discrepancies between drawings and specifications must be reported to the Owner for correction and interpretation before the work is executed.

PART 2 - MATERIALS

2.01 TRADE NAMES

A. Wherever in these specifications the name of a certain brand, make, manufacturer, or definite specification is utilized, they are used only to denote the quality standard of products required and are not intended to restrict Bidders to the specific brand, make, manufacturer or specification. The trade names are used only to set forth and convey to prospective bidders the general style, type, character and quality of the desired product and equivalent products will be acceptable if approved in advance by the Owner and in accordance with the conditions of the Bidding Documents. In the case that a manufacturer's name has been utilized in the Project Manual, additional manufacturers that are acceptable as to function and quality have also been indicated for each item so specified.

PART 3 EXECUTION

3.01 SCHEDULE

A. The Contractor shall prepare an overall Construction Schedule of the Work which will be kept current and issued every 7 days to the Owner.

3.02 CODES, ORDINANCES, AND REGULATIONS

A. All applicable federal and state regulations shall be followed including the Federal Occupational Safety and Health Act (OSHA).

3.03 EXAMINATION OF SITE

A. All bidders are expected to visit the site of the work to ascertain existing conditions, grades, etc. Failure to do so will in no way relieve the successful bidder from the necessity of furnishing all materials and equipment and performing all work required for the completion of the contract in conformity with the drawings and specifications.

3.04 CLEANING UP

A. In addition to the requirements of the General Conditions, the Contractor shall be required to keep the premises clean and orderly and shall remove all debris, replace broken articles and comply with the various sections of these specifications.

END OF SECTION 01 11 00

SECTION 01 20 00 – PAYMENT PROCEDURES

PART I - GENERAL

1.01 CONTRACT MODIFICATION PROCEDURES

A. Upon the Owners approval of a proposal from the Contractor, submitted either in response to a Proposal Request issued by the Owner or as a request for change from the Contractor, the Owner will issue a Change Order using the Change Order Forms that are contained in these Specifications, for all changes to the Contract Sum or Contract Time.

B. When the Owner and Contractor disagree on the terms of a proposal, the Owner may issue a Construction Change Directive on AIA Document G714, instructing the Contractor to proceed with the change. The Construction Change Directive will contain a description of the change and designate the method to be followed to determine changes to the Contract Sum or Contract Time.

1.02 PAYMENT PROCEDURES

A. Submit a Schedule of Values which breaks down the Contract Sum into:

1. Correlate the Schedule of Values with the Contractor's Construction Schedule
2. Submit a Schedule of Values at least 10 days prior to the first Application for Payment.

B. Submit 3 copies of each Application for Payment on AIA Document G702/703-1992 Edition, in accordance with the schedule established in the Agreement.

END OF SECTION 01 20 00

SECTION 01 30 00 – ADMINISTRATIVE

REQUIREMENTS PART 1 GENERAL

1.01 PROJECT MANAGEMENT AND COORDINATION

A. Verify layout information shown on Drawings before laying out the Work.

B. Progress meetings will be held at Project site to be announced at the pre-construction meeting. Owner, Contractor, and each subcontractor or other entity concerned with current progress or involved with planning or coordination of future activities, shall attend.

1. Minutes of each meeting will be prepared by Contractor and distributed to all parties present.

1.02 CONSTRUCTION SCHEDULE

A. Prepare a horizontal bar chart type, construction schedule. Provide a separate time bar for each activity and a vertical line to identify the first workday of each week. Use same breakdown of Work indicated in the Schedule of Values. As Work progresses, mark each bar to indicate actual completion.

1. Submit within 5 days of the date established for Commencement of the Work.
2. Prepare the schedule on reproducible media, of width sufficient to show data for the entire construction period.
3. Coordinate each element with other activities. Show each activity in proper sequence. Indicate sequences necessary for completion of related work.
4. Indicate Substantial Completion and allow time for Owner's procedures necessary for certifying Substantial Completion.
5. Schedule Distribution: Distribute copies to Owner, subcontractors, and parties required to comply with dates.
6. Updating: Revise the schedule after each meeting or activity where revisions have been made.

1.03 SUBMITTAL PROCEDURES

A. Coordinate submittal preparation with construction schedule, fabrication lead times, other submittals, and other activities that require sequential operations.

1. No extension of Contract Time will be authorized due to failure to transmit submittals in time to permit processing sufficiently in advance of when materials are required in the Work.
2. Owner will not accept submittals from sources other than Contractor.

B. Prepare submittals by placing a permanent label on each for identification. Provide a 4 by 5-inch space on the label or beside title block to record review and approval markings and action taken. Include the following information on the label:

1. Project name.
2. Date.
3. Name and address of Contractor.
4. Name and address of subcontractor or supplier.
5. Number and title of appropriate Specification Section.
6. Contractor's certification that materials comply with specified requirements.

C. Shop Drawings. Submit newly prepared information drawn to scale. Indicate deviations from Contract Documents. Do not reproduce Contract Documents or copy standard information. Submit 1 reproducible print and 1 black line print on sheets at least 8-1/2 x 11 inches (215 x 280 mm) but no larger than 11 x 17 inches. Owner will return the reproducible print. Include the following:

1. Dimensions, profiles, methods of attachment, coordination with adjoining work, large scale details, and other information, as appropriate for the Work.
2. Identification of products and materials.
3. Notation of coordination requirements.
4. Notation of dimensions established by field measurement.

1.04 SUBCONTRACTOR RESPONSIBILITY

A. Define his operation to the rate and the work involved as required by City Ordinance.

B. Reasonable use of site for materials and equipment.

C. Do not create any hazards to pedestrians or residential vehicular traffic.

END OF SECTION 01 30 00

SECTION 01 45 23 – TESTING LABORATORY SERVICES

PART 1 – GENERAL

1.01 RELATED DOCUMENTS

A. The Conditions of the Contract and applicable requirements of Division 1 govern this Section.

1.02 DESCRIPTION OF WORK

A. An independent testing laboratory approved by the Owner shall be retained and paid for by the Owner to inspect and test the materials and methods of construction as hereinafter specified or otherwise directed by the Owner for compliance with the requirements of the Contract Documents and to perform such other specialized technical services as may be required by the Owner.

1.03 QUALITY ASSURANCE

A. The testing laboratory selected shall meet the basic requirements of ASTM E 329 "Standard of Recommended Practice for Inspection and Testing Agencies for Concrete and Steel as used in Construction".

1. The testing laboratory is required to have testing facilities for work included in this project.
2. Testing machines shall have been calibrated at intervals not exceeding 12 months by devices of accuracy traceable to the National Bureau of Standards.

B. Failure of any tested area to meet specification requirements shall be cause for rejection. All deficiencies shall be corrected and retested for compliance.

1.04 SUBMITTALS

A. Copies of all laboratory and field test reports, inspections and/or certifications shall be issued promptly and directly to the Owner and the Contractor.

1.05 JOB CONDITIONS

A. The testing laboratory and/or Engineers are not authorized to revoke, alter, relax, enlarge, or release any requirements of the Contract Documents.

D. When it appears that the material furnished or work performed by the Contractor fails to fulfill Contract Document requirements, the laboratory and/or Engineer shall promptly direct the attention of BREC or BREC's Representative to such deficiencies.

1.06 CONTRACTOR'S RESPONSIBLITY

A. The use of laboratory services shall in no way relieve the Contractor of his responsibility to furnish materials and construction in full compliance with the Contract Documents.

B. To facilitate testing services, the Contractor shall cooperate with the testing laboratory and:

1. Secure and deliver to the laboratory, without cost, preliminary representative samples of the materials he proposes to use and which are required to be tested.
2. Furnish such casual labor and facilities which are necessary to obtain and handle samples at the project and to facilitate the specified inspections.
3. Advise the laboratory, engineers, and inspectors sufficiently in advance of operations to allow for completion of tests and for the assignment of personnel.
4. Provide and maintain for the sole use of the laboratory, adequate facilities for safe storage and proper curing of such test specimens which must remain on the project site prior to testing.
5. Furnish copies of mill test reports for such materials as may be requested by the Owner.

PART 2 – REQUIRED TESTS

2.02 CONCRETE

A. For sampling and testing for quality control during placement of concrete include the following as directed by Owner:

1. Sampling Fresh Concrete: ASTM C172, except modified for slump to comply with ASTM C94.
2. Slump: ASTM C143; one test at point of discharge for each day's pour of concrete; additional tests when concrete consistency seems to have change.
3. Concrete Temperature: Test hourly when air temperature is 40 degrees F. (4 degrees C) and below, and when 80 degrees F. (27 degrees C) and above; and each time a set of compression test specimens is made.
4. Compression Test Specimen: ASTM C31; one set of 4 standard cylinders placement, unless otherwise directed. Mold and store cylinders for laboratory cured test specimens except when field-cure test specimens are required.
5. Compressive Strength Tests: ASTM C39; one set for each days pour exceeding 5 cu. yds. plus additional sets for each cu. yds. over and above the first 40 cu. yds. of each concrete class placed in any one day; one specimen tested at 7 days, two specimens tested at 28 days, and one specimen retained in reserve for later testing if required.

B. Test Cylinders:

1. Hardrock Concrete Testing: Prepare a minimum of 3 cylinders for each concrete placement. A minimum of 3 cylinders shall be taken based upon 3 casts per 40 yards of placed concrete.
2. Strength level of concrete will be considered satisfactory if averages of sets

of three consecutive strength test results equal or exceed specified compressive strength, and no individual strength test result falls below specified compressive by more than 500 psi.

*Test results will be reported in writing directly to the Owner and Contractor within 3 days of the date that the tests are made. Reports of compressive strength tests shall contain the project identification name and number, date of concrete placement, name of concrete testing service, concrete type and class, location of concrete batch in structure, design compressive strength at 28 days, concrete mix proportions and material; compressive strength at 28 days, concrete mix proportions and material; compressive breaking strength and type of break for both 7-day tests and 28-day tests.

E. Nondestructive Testing: Impact hammer, sonoscope, or other nondestructive device may be permitted by shall not be used as the sole basis for acceptance or rejection.

F. Additional Tests: The testing service will make additional tests of in-place concrete when test results indicate specified concrete strengths and other characteristics have not been attained in the structure, as directed by the Owner. Testing service may conduct tests to determine adequacy of concrete by cored cylinders complying with ASTM C42, or by other methods as directed by the Owner. Contractor shall pay for such tests conducted and any other additional testing that may be required, when acceptable concrete is verified.

END OF SECTION 01 45 23

SECTION 01 50 00 – TEMPORARY FACILITIES AND CONTROLS

PART 1 – GENERAL

1.01 SECTION REQUIREMENTS

A. Standards: Comply with NFPA 241, "Standard for Safeguarding Construction, Alterations, and Demolition Operations"; ANSI A10 Series standards for "Safety Requirements for Construction and Demolition"; and NECA Electrical Design Library's "Temporary Electrical Facilities."

PART 2 – EXECUTION

2.01 TEMPORARY FACILITIES

A. Restrooms are available onsite for contractor use.

2.02 TEMPORARY CONSTRUCTION FACILITIES

A. Provide field offices, storage trailers and other support facilities as necessary for efficient prosecution of the Work.

1. Temporary facilities located within the construction area or within 30 feet of building lines shall be noncombustible construction.

B. Provide temporary enclosures for protection of construction and workers from exposure and inclement weather and for containment of heat.

C. Collect waste daily and dispose of waste off site according to local ordinances, when containers are full.

1. Handle hazardous, dangerous, or unsanitary waste materials separately from other waste by containerizing properly. Dispose of material according to applicable laws and regulations.

2.03 TEMPORARY CONTROLS

A. Provide temporary fire protection until permanent systems supply fire protection needs.

1. Provide adequate numbers and types of fire extinguishers.
2. Store combustible materials in fire safe containers in fire safe locations.
3. Prohibit smoking on site.
4. Supervise welding operations, combustion type temporary heating units, and similar sources of fire ignition.

B. Provide temporary barricades, warning signs, and lights to protect the public and construction personnel from construction hazards.

1. Enclose construction area(s) with fence(s) with lockable entrance gates, to prevent unauthorized access. Fence separating completed buildings from construction areas.

C. Provide temporary environmental controls as required by authorities having jurisdiction including, but not limited to, erosion and sediment control, dust control, noise control, and pollution control.

END OF SECTION 01 50 00

SECTION 01 60 00 – PRODUCT REQUIREMENTS

PART 1 – GENERAL

1.01 SECTION REQUIREMENTS

A. Provide products of same kind from a single source.

B. Deliver, store, and handle products according to manufacturer's written instructions, using means and methods that will prevent damage, deterioration, and loss, including theft.

1. Schedule delivery to minimize long-term storage and to prevent overcrowding construction spaces.
2. Deliver in manufacturer's original sealed packaging with labels and written instructions for handling, storing, protecting, and installing.
3. Inspect to ensure compliance with the Contract Documents and to ensure items are undamaged and properly protected.
4. Store heavy items in a manner that will not endanger supporting construction.
5. Store items subject to damage aboveground, under' cover in a weathertight enclosure, with ventilation adequate to prevent condensation. Maintain temperature and humidity within range required.

PART 2 – PRODUCTS

2.01 PRODUCT OPTIONS

A. Provide items that comply with the Contract Documents, are undamaged, and are new at the time of installation.

1. Provide products and equipment complete with accessories, trim, finish, and other devices and components needed for a complete installation and the intended use and effect.

B. Do not attach manufacturer's labels or trademarks, except for required nameplates, on surfaces exposed to view in occupied spaces or on the exterior.

C. Select products as follows:

1. Where these Specifications name only a single product or manufacturer, provide the item indicated.
2. Where these Specifications name 2 or more products or manufacturers, provide of the items indicated. No substitutions will be permitted.
3. Where products or manufacturers are specified by name, accompanied by the term "or approved equal," comply with provisions concerning "product substitutions" to obtain approval for use of an unnamed product or manufacturer.
4. Where these Specifications describe a product and list characteristics comply with the characteristics and other requirements.
5. Where these Specifications require compliance with performance requirements, provide products that comply and are recommended in writing by the manufacturer for the application.

6. Where these Specifications require compliance with codes, regulations, or reference standards, select a product that complies with the codes, regulations, or reference standards.

D. Unless otherwise indicated, Owner will select color, pattern, and texture of any product from manufacturer's full range of options.

2.02 PRODUCT PRIOR APPROVALS

A. Reasonable and timely requests for prior approvals will be considered prior to bidding. No substitution will be considered unless written request for approval has been submitted by the Proposer and has been received by the Owner at least seven (7) calendar days prior to the opening of bids. No substitutions will be made after bids are received.

END OF SECTION 01 60 00

SECTION 01 70 00 – EXECUTION REQUIREMENTS

PART 1 – EXECUTION

1.01 EXAMINATION AND PREPARATION

A. Examine substrates and conditions for compliance with manufacturer's written requirements including, but not limited to, surfaces that are sound, level, and plumb; substrates within installation tolerances; surfaces that are smooth, clean, and free of deleterious substances; and application conditions within environmental limits. Do not proceed with installation until unsatisfactory conditions have been corrected.

B. Prepare substrates and adjoining surfaces according to manufacturer's written instructions, including, but not limited to, the application of fillers and primers.

1.02 CUTTING AND PATCHING

A. Do not cut structural members without prior written approval from the Owner.

B. For patching, provide materials whose installed performance will equal or surpass that of existing materials. For exposed surfaces, provide or finish materials to visually fully match existing adjacent surfaces where possible.

1.03 INSTALLATION

A. Comply with manufacturer's written instructions for installation. Anchor each product securely in place, accurately located and aligned. Clean exposed surfaces and protect from damage. If applicable, prepare surfaces for field finishing.

2.04 FINAL CLEANING

A. Entire area of project to be "broom clean" before requesting inspection for Substantial Completion.

2.05 CLOSEOUT PROCEDURES

A. Request Substantial Completion inspection once the following are complete:

1. Advise Owner of pending insurance changeover requirements.
2. Submit maintenance manuals, warranties, and similar record information.
3. Remove temporary facilities and controls.
4. Complete final cleanup.
5. Touch up, repair, and restore marred, exposed finishes.
6. Obtain final inspections from authorities having jurisdiction.

B. Upon receipt of a request for inspection, Owner will proceed with inspection or advise Contractor of unfulfilled requirements. Owner will prepare the Certificate of Substantial Completion (on AIA Form G704) with punchlist items which must be completed or corrected before the certificate is issued.

C. Request inspection for certification of final acceptance and final payment, once the following are complete:

1. Submit final payment request with release of liens and supporting documentation. Include insurance certificates.
2. Submit a copy of the Substantial Completion inspection list stating that each item has been completed or otherwise resolved for acceptance.
3. Provide Owner with Manufacturer's Roofing Warrant.
4. Provide Owner with Contractor's Roofing Warranty.
5. Complete Owner's Roof Completion Information Form.
6. Submit consent of surety to final payment.
7. All grounds and shrubs are restored to and/or left in pre-construction condition.

D. Owner will re-inspect the Work on receipt of notice that the Work has been completed.

1. On completion of re-inspection, Owner will prepare a certificate of final acceptance. If the Work is incomplete, Owner will advise Contractor of the Work that is incomplete or obligations that have not yet been fulfilled.
2. Owner will provide Contractor with the Certificate of Substantial Completion. This is the form to be filed in the Clerk of Court to begin the 45-day lien period.

END OF SECTION 01 70 00

SECTION 03 30 53 - MISCELLANEOUS CAST-IN-PLACE CONCRETE

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

A. This Section specifies cast-in-place concrete, including reinforcement, concrete materials, mixture design, placement procedures, and finishes, for noncritical applications of concrete and for projects using small quantities of concrete.

B. Related Sections include the following:
   1. Division 31 Section "Earth Moving" for drainage fill under slabs-on-grade.
   2. Division 31 Section "Concrete Paving" for concrete pavement and walks.
   3. Division 31 Section "Decorative Concrete Paving" for decorative concrete pavement and walks.

1.3 SUBMITTALS

A. General: In addition to the following, comply with submittal requirements in ACI 301.

B. Product Data: For each type of product indicated.

C. Design Mixtures: For each concrete mixture.

1.4 QUALITY ASSURANCE

A. Manufacturer Qualifications: A firm experienced in manufacturing ready-mixed concrete products and that complies with ASTM C 94/C 94M requirements for production facilities and equipment.

B. Source Limitations: Obtain each type of cement of the same brand from the same manufacturer's plant, obtain aggregate from one source, and obtain admixtures through one source from a single manufacturer.

C. Comply with ACI 301, "Specification for Structural Concrete," including the following sections, unless modified by requirements in the Contract Documents:

   1. "General Requirements."
   2. "Formwork and Formwork Accessories."
   3. "Reinforcement and Reinforcement Supports."
   4. "Concrete Mixtures."

5. "Handling, Placing, and Constructing."
6. "Lightweight Concrete."

D. Comply with ACI 117, "Specifications for Tolerances for Concrete Construction and Materials."

PART 2 - PRODUCTS

2.1 FORMWORK

A. Furnish formwork and formwork accessories according to ACI 301.

2.2 STEEL REINFORCEMENT

A. Reinforcing Bars: ASTM A 615/A 615M, Grade 60, deformed.

B. Plain-Steel Wire: ASTM A 82, as drawn.

C. Plain-Steel Welded Wire Reinforcement: ASTM A 185, fabricated from as-drawn steel wire into flat sheets.

D. Deformed-Steel Welded Wire Reinforcement: ASTM A 497, flat sheet.

2.3 CONCRETE MATERIALS

A. Cementitious Material: Use the following cementitious materials, of the same type, brand, and source throughout Project:

1. Portland Cement: ASTM C 150, Type I. No fly ash or slag may be used.

B. Normal-Weight Aggregate: ASTM C 33, graded, 3/8 to 1/2-inch nominal maximum aggregate size.

C. Water: ASTM C 94/C 94M.

2.4 ADMIXTURES

A. Air-Entraining Admixture: ASTM C 260.

B. Chemical Admixtures: Provide admixtures certified by manufacturer to be compatible with other admixtures and that will not contribute water-soluble chloride ions exceeding those permitted in hardened concrete. Do not use calcium chloride or admixtures containing calcium chloride.

1. Water-Reducing Admixture: ASTM C 494/C 494M, Type A.
2. Retarding Admixture: ASTM C 494/C 494M, Type B.
3. Water-Reducing and Retarding Admixture: ASTM C 494/C 494M, Type D.
4. High-Range, Water-Reducing Admixture: ASTM C 494/C 494M, Type F.
5. High-Range, Water-Reducing and Retarding Admixture: ASTM C 494/C 494M, Type G.

6. Plasticizing and Retarding Admixture: ASTM C 1017/C 1017M, Type II.

2.5 CURING MATERIALS

A. Evaporation Retarder: Waterborne, monomolecular film forming; manufactured for application to fresh concrete.

B. Absorptive Cover: AASHTO M 182, Class 2, burlap cloth made from jute or kenaf, weighing approximately 9 oz./sq. yd. (305 g/sq. m) when dry.

C. Moisture-Retaining Cover: ASTM C 171, polyethylene film or white burlap-polyethylene sheet.

D. Water: Potable.

E. Clear, Waterborne, Membrane-Forming Curing Compound: ASTM C 309, Type 1, Class B.

F. Clear, Solvent-Borne, Membrane-Forming Curing and Sealing Compound: ASTM C 1315, Type 1, Class A.

G. Clear, Waterborne, Membrane-Forming Curing and Sealing Compound: ASTM C 1315, Type 1, Class A.

2.6 CONCRETE MIXTURES

A. Comply with ACI 301 requirements for concrete mixtures.

B. Normal-Weight Concrete: Prepare design mixes, proportioned according to ACI 301, as follows:

1. Minimum Compressive Strength: 3500 psi (24.1 MPa) at 28 days.
2. Maximum Water-Cementitious Materials Ratio: 0.45 max
3. Slump Limit: 4 inches (100 mm), plus or minus 1 inch (25 mm).
4. Air Content: Maintain within range permitted by ACI 301. Do not allow air content of floor slabs to receive troweled finishes to exceed 3 percent.

C. Project-Site Mixing: Measure, batch, and mix concrete materials and concrete according to ASTM C 94/C 94M. Mix concrete materials in appropriate drum-type batch machine mixer.

1. For mixer capacity of 1 cu. yd. (0.76 cu. m) or smaller, continue mixing at least 1-1/2 minutes, but not more than 5 minutes after ingredients are in mixer, before any part of batch is released.
2. For mixer capacity larger than 1 cu. yd. (0.76 cu. m), increase mixing time by 15 seconds for each additional 1 cu. yd. (0.76 cu. m).
3. Provide batch ticket for each batch discharged and used in the Work, indicating Project identification name and number, date, mix type, mix time, quantity, and amount of water added. Record approximate location of final deposit in structure.

PART 3 - EXECUTION

3.1 FORMWORK

A. Design, construct, erect, brace, and maintain formwork according to ACI 301.

3.2 VAPOR RETARDERS

A. Install, protect, and repair vapor retarders according to ASTM E 1643; place sheets in position with longest dimension parallel with direction of pour.

1. Lap joints 6 inches (150 mm) and seal with manufacturer's recommended adhesive or joint tape.

3.3 STEEL REINFORCEMENT

A. Comply with CRSI's "Manual of Standard Practice" for fabricating, placing, and supporting reinforcement.

1. Do not cut or puncture vapor retarder. Repair damage and reseal vapor retarder before placing concrete.

3.4 JOINTS

A. General: Construct joints true to line with faces perpendicular to surface plane of concrete.

B. Construction Joints: Locate and install so strength and appearance of concrete are not impaired, at locations indicated or as approved by Landscape Architect.

C. Contraction or Control Joints in Slabs-on-Grade: Form weakened-plane contraction joints, sectioning concrete into areas as indicated. Construct contraction joints for a depth equal to at least one-fourth of concrete thickness, as follows:

1. Grooved Joints: Form contraction joints after initial floating by grooving and finishing each edge of joint with groover tool to a radius of 1/8 inch (3.2 mm). Repeat grooving of contraction joints after applying surface finishes. Eliminate groover marks on concrete surfaces.

D. Isolation or Expansion Joints: Install joint-filler strips at junctions with slabs-on-grade and vertical surfaces, such as column pedestals, foundation walls, grade beams, and other locations, as indicated.

1. Extend joint fillers full width and depth of joint, terminating flush with finished concrete surface, unless otherwise indicated.

3.5 CONCRETE PLACEMENT

A. Comply with ACI 301 for measuring, batching, mixing, transporting, and placing concrete.

B. Before test sampling and placing concrete, water may be added at Project site, subject to limitations of ACI 301.

C. Do not add water to concrete during delivery, at Project site, or during placement.

D. Consolidate concrete with mechanical vibrating equipment.

3.6 FINISHING UNFORMED SURFACES

A. General: Comply with ACI 302.1R for screeding, restraightening, and finishing operations for concrete surfaces.

B. Screed surfaces with a straightedge and strike off. Begin initial floating using bull floats or darbies to form a uniform and open-textured surface plane before excess moisture or bleedwater appears on surface.

1. Do not further disturb surfaces before starting finishing operations.

C. Scratch Finish: Apply scratch finish to surfaces indicated and surfaces to receive concrete floor topping or mortar setting beds for ceramic or quarry tile, portland cement terrazzo, and other bonded cementitious floor finishes, unless otherwise indicated.

D. Float Finish: Apply float finish to surfaces indicated, to surfaces to receive trowel finish, and to floor and slab surfaces to be covered with fluid-applied or sheet waterproofing, fluid-applied or direct-to-deck-applied membrane roofing, or sand-bed terrazzo.

E. Trowel Finish: Apply a hard trowel finish to surfaces indicated and to floor and slab surfaces exposed to view or to be covered with resilient flooring, carpet, ceramic or quarry tile set over a cleavage membrane, paint, or another thin film-finish coating system.

F. Trowel and Fine-Broom Finish: Apply a partial trowel finish, stopping after second troweling, to surfaces indicated and to surfaces where ceramic or quarry tile is to be installed by either thickset or thin-set methods. Immediately after second troweling, and when concrete is still plastic, slightly scarify surface with a fine broom.

G. Nonslip Broom Finish: Apply a nonslip broom finish to surfaces indicated and to exterior concrete platforms, steps, and ramps. Immediately after float finishing, slightly roughen trafficked surface by brooming with fiber-bristle broom perpendicular to main traffic route.

3.7 CONCRETE PROTECTING AND CURING

A. General: Protect freshly placed concrete from premature drying and excessive cold or hot temperatures. Comply with ACI 306.1 for cold-weather protection and with ACI 301 for hot-weather protection during curing.

B. Evaporation Retarder: Apply evaporation retarder to concrete surfaces if hot, dry, or windy conditions cause moisture loss approaching 0.2 lb/sq. ft. x h (1 kg/sq. m x h) before and during finishing operations. Apply according to manufacturer's written instructions after placing, screeding, and bull floating or darbying concrete, but before float finishing.

C. Begin curing after finishing concrete but not before free water has disappeared from concrete surface.

D. Curing Methods: Cure formed and unformed concrete for at least seven days by one or a combination of the following methods:

1. Moisture Curing: Keep surfaces continuously moist for not less than seven days with the following materials:

   a. Water.
   b. Continuous water-fog spray.
   c. Absorptive cover, water saturated and kept continuously wet. Cover concrete surfaces and edges with 12-inch (300-mm) lap over adjacent absorptive covers.

2. Moisture-Retaining-Cover Curing: Cover concrete surfaces with moisture-retaining cover for curing concrete, placed in widest practicable width, with sides and ends lapped at least 12 inches (300 mm), and sealed by waterproof tape or adhesive. Cure for not less than seven days. Immediately repair any holes or tears during curing period using cover material and waterproof tape.
3. Curing Compound: Apply uniformly in continuous operation by power spray or roller according to manufacturer's written instructions. Recoat areas subjected to heavy rainfall within three hours after initial application. Maintain continuity of coating and repair damage during curing period.
4. Curing and Sealing Compound: Apply uniformly to floors and slabs indicated in a continuous operation by power spray or roller according to manufacturer's written instructions. Recoat areas subjected to heavy rainfall within three hours after initial application. Repeat process 24 hours later and apply a second coat. Maintain continuity of coating and repair damage during curing period.

3.8 REPAIRS

A. Remove and replace concrete that does not comply with requirements in this Section.

END OF SECTION 03 30 53

SECTION 055000 - METAL FABRICATIONS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

A. This Section includes the following:

1. Steel weld plates and angles for casting into concrete not specified in other Sections.
2. Metal floor plate [and supports].

B. Related Sections include the following:

1. Division 03 Section "Cast-in-Place Concrete" for installing anchor bolts, steel pipe sleeves, wedge-type inserts and other items indicated to be cast into concrete.

1.3 SUBMITTALS

A. Shop Drawings: Show fabrication and installation details for metal fabrications.

1. Include plans, elevations, sections, and details of metal fabrications and their connections. Show anchorage and accessory items.

B. Samples for Verification: For each type and finish of extruded [nosing] [and] [tread].

C. Welding certificates.

1.4 QUALITY ASSURANCE

A. Welding: Qualify procedures and personnel according to the following:

1. AWS D1.1, "Structural Welding Code--Steel."
2. AWS D1.3, "Structural Welding Code--Sheet Steel."
3. AWS D1.6, "Structural Welding Code--Stainless Steel."

1.5 PROJECT CONDITIONS

A. Field Measurements: Verify actual locations of walls and other construction contiguous with metal fabrications by field measurements before fabrication and indicate measurements on Shop Drawings.

1. Established Dimensions: Where field measurements cannot be made without delaying the Work, establish dimensions and proceed with fabricating metal fabrications without field measurements. Coordinate wall and other contiguous construction to ensure that actual dimensions correspond to established dimensions.
2. Provide allowance for trimming and fitting at site.

1.6 COORDINATION

A. Coordinate installation of anchorages for metal fabrications. Furnish setting drawings, templates, and directions for installing anchorages, including sleeves, concrete inserts, anchor bolts, and items with integral anchors, that are to be embedded in concrete or masonry. Deliver such items to Project site in time for installation.

B. Coordinate installation of steel weld plates and angles for casting into concrete that are specified in this Section but required for work of another Section. Deliver such items to Project site in time for installation.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

A. In other Part 2 articles where titles below introduce lists, the following requirements apply to product selection:

1. Available Products: Subject to compliance with requirements, products that may be incorporated into the Work include, but are not limited to, products specified.
2. Products: Subject to compliance with requirements, provide one of the products specified.
3. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include, but are not limited to, manufacturers specified.
4. Manufacturers: Subject to compliance with requirements, provide products by one of the manufacturers specified.

2.2 METALS, GENERAL

A. Metal Surfaces, General: Provide materials with smooth, flat surfaces, unless otherwise indicated. For metal fabrications exposed to view in the completed Work, provide materials without seam marks, roller marks, rolled trade names, or blemishes.

2.3 FERROUS METALS

A. Steel Plates, Shapes, and Bars: ASTM A 36/A 36M.

B. Stainless-Steel Sheet, Strip, Plate, and Flat Bars: ASTM A 666, Type [**304**] [**316L**].

C. Stainless-Steel Bars and Shapes: ASTM A 276, Type [**304**] [**316L**].

D. Rolled-Steel Floor Plate: ASTM A 786/A 786M, rolled from plate complying with ASTM A 36/A 36M or ASTM A 283/A 283M, Grade C or D.

E. Rolled-Stainless-Steel Floor Plate: ASTM A 793.

2.4 MISCELLANEOUS MATERIALS

A. Welding Rods and Bare Electrodes: Select according to AWS specifications for metal alloy welded.

B. Universal Shop Primer: Fast-curing, lead- and chromate-free, universal modified-alkyd primer complying with MPI#79.

1. Use primer with a VOC content of [**420 g/L (3.5 lb/gal.)**] or less when calculated according to 40 CFR 59, Subpart D (EPA Method 24).
2. Use primer containing pigments that make it easily distinguishable from zinc-rich primer.

C. Zinc-Rich Primer: Complying with SSPC-Paint 20 or SSPC-Paint 29 and compatible with topcoat.

1. Use primer with a VOC content of [**420 g/L (3.5 lb/gal.)**] or less when calculated according to 40 CFR 59, Subpart D (EPA Method 24).
2. Available Products:

a. Benjamin Moore & Co.; Epoxy Zinc-Rich Primer CM18/19.
b. Carboline Company; Carbozinc 621.
c. ICI Devoe Coatings; Catha-Coat 313.
d. International Coatings Limited; Interzinc 315 Epoxy Zinc-Rich Primer.
e. PPG Architectural Finishes, Inc.; Aquapon Zinc-Rich Primer 97-670.
f. Sherwin-Williams Company (The); Corothane I GalvaPac Zinc Primer.
g. Tnemec Company, Inc.; Tneme-Zinc 90-97.

D. Galvanizing Repair Paint: High-zinc-dust-content paint for regalvanizing welds in steel, complying with SSPC-Paint 20.

E. Bituminous Paint: Cold-applied asphalt emulsion complying with ASTM D 1187.

F. Nonshrink, Metallic Grout: Factory-packaged, ferrous-aggregate grout complying with ASTM C 1107, specifically recommended by manufacturer for heavy-duty loading applications.

G. Nonshrink, Nonmetallic Grout: Factory-packaged, nonstaining, noncorrosive, nongaseous grout complying with ASTM C 1107. Provide grout specifically recommended by manufacturers for interior and exterior applications.

H. Concrete Materials and Properties: Comply with requirements in Division 03 Section "Cast-in-Place Concrete" for normal-weight, air-entrained, ready-mix concrete with a minimum 28-day compressive strength of 3500 psi, unless otherwise indicated.

2.5 FABRICATION, GENERAL

A. Shop Assembly: Preassemble items in the shop to greatest extent possible. Disassemble units only as necessary for shipping and handling limitations. Use connections that maintain structural value of joined pieces. Clearly mark units for reassembly and coordinated installation.

B. Cut, drill, and punch metals cleanly and accurately. Remove burrs and ease edges to a radius of approximately 1/32 inch (1 mm), unless otherwise indicated. Remove sharp or rough areas on exposed surfaces.

C. Form bent-metal corners to smallest radius possible without causing grain separation or otherwise impairing work.

D. Form exposed work true to line and level with accurate angles and surfaces and straight edges.

E. Weld corners and seams continuously to comply with the following:

1. Use materials and methods that minimize distortion and develop strength and corrosion resistance of base metals.
2. Obtain fusion without undercut or overlap.
3. Remove welding flux immediately.
4. At exposed connections, finish exposed welds and surfaces smooth and blended so no roughness shows after finishing and contour of welded surface matches that of adjacent surface.

F. Form exposed connections with hairline joints, flush and smooth, using concealed fasteners where possible. Where exposed fasteners are required, use Phillips flat-head (countersunk) screws or bolts, unless otherwise indicated. Locate joints where least conspicuous.

G. Fabricate seams and other connections that will be exposed to weather in a manner to exclude water. Provide weep holes where water may accumulate.

H. Cut, reinforce, drill, and tap metal fabrications as indicated to receive finish hardware, screws, and similar items.

I. Provide for anchorage of type indicated; coordinate with supporting structure. Space anchoring devices to secure metal fabrications rigidly in place and to support indicated loads.

1. Where units are indicated to be cast into concrete or built into masonry, equip with integrally welded steel strap anchors, 1/8 by 1-1/2 inches (3.2 by 38 mm), with a minimum 6-inch (150-mm) embedment and 2-inch (50-mm) hook, not less than 8 inches (200 mm) from ends and corners of units and 24 inches (600 mm) o.c., unless otherwise indicated.

2.6 MISCELLANEOUS FRAMING AND SUPPORTS

A. General: Provide steel framing and supports not specified in other Sections as needed to complete the Work.

B. Fabricate units from steel shapes, plates, and bars of welded construction, unless otherwise indicated. Fabricate to sizes, shapes, and profiles indicated and as necessary to receive adjacent

construction retained by framing and supports. Cut, drill, and tap units to receive hardware, hangers, and similar items.

1. Fabricate units from slotted channel framing where indicated.
2. Furnish inserts if units are installed after concrete is placed.

2.7 SHELF ANGLES

A. Fabricate shelf angles from steel angles of sizes indicated and for attachment to concrete framing. Provide horizontally slotted holes to receive 3/4-inch (19-mm) bolts, spaced not more than 6 inches (150 mm) from ends and 24 inches (600 mm) o.c., unless otherwise indicated.

1. Provide mitered and welded units at corners.
2. Provide open joints in shelf angles at expansion and control joints. Make open joint approximately 2 inches (50 mm) larger than expansion or control joint.

B. Prime shelf angles located in exterior walls with zinc-rich primer.

C. Furnish wedge-type concrete inserts, complete with fasteners, to attach shelf angles to cast-in-place concrete.

2.8 STEEL WELD PLATES AND ANGLES

A. Provide steel weld plates and angles not specified in other Sections, for items supported from concrete construction as needed to complete the Work. Provide each unit with not less than two integrally welded steel strap anchors for embedding in concrete.

2.9 METAL FLOOR PLATE

A. Fabricate from rolled-steel floor plate of thickness indicated below:

1. Thickness: **3/8 inch (9.5 mm)** [**As indicated**].

B. Provide steel angle supports as indicated.

C. Comply with NAAMM's "Metal Finishes Manual for Architectural and Metal Products" for recommendations for applying and designating finishes.

D. Finish metal fabrications after assembly.

2.10 STEEL AND IRON FINISHES

A. Galvanizing: Hot-dip galvanize items as indicated to comply with applicable standard listed below:

1. ASTM A 123/A 123M, for galvanizing steel and iron products.
2. ASTM A 153/A 153M, for galvanizing steel and iron hardware.

B. Preparation for Shop Priming: Prepare uncoated ferrous-metal surfaces to comply with minimum requirements indicated below for SSPC surface preparation specifications and environmental exposure conditions of installed metal fabrications:

1. Exteriors (SSPC Zone 1B) [and Items Indicated to Receive Zinc-Rich Primer]: SSPC-SP 6/NACE No. 3, "Commercial Blast Cleaning."
2. Interiors (SSPC Zone 1A): SSPC-SP 3, "Power Tool Cleaning."

C. Shop Priming: Apply shop primer to uncoated surfaces of metal fabrications, except those with galvanized finishes and those to be embedded in concrete, sprayed-on fireproofing, or masonry, unless otherwise indicated. Comply with SSPC-PA 1, "Paint Application Specification No. 1: Shop, Field, and Maintenance Painting of Steel," for shop painting.

1. Stripe paint corners, crevices, bolts, welds, and sharp edges.

2.11 STAINLESS-STEEL FINISHES

A. Remove tool and die marks and stretch lines or blend into finish.

B. Grind and polish surfaces to produce uniform, directionally textured, polished finish indicated, free of cross scratches. Run grain with long dimension of each piece.

C. Bright, Directional Satin Finish: No. 4.

D. Dull Satin Finish: No. 6.

E. When polishing is completed, passivate and rinse surfaces. Remove embedded foreign matter and leave surfaces chemically clean.

PART 3 - EXECUTION

3.1 INSTALLATION, GENERAL

A. Cutting, Fitting, and Placement: Perform cutting, drilling, and fitting required for installing metal fabrications. Set metal fabrications accurately in location, alignment, and elevation; with edges and surfaces level, plumb, true, and free of rack; and measured from established lines and levels.

B. Fit exposed connections accurately together to form hairline joints. Weld connections that are not to be left as exposed joints but cannot be shop welded because of shipping size limitations. Do not weld, cut, or abrade surfaces of exterior units that have been hot-dip galvanized after fabrication and are for bolted or screwed field connections.

C. Field Welding: Comply with the following requirements:

1. Use materials and methods that minimize distortion and develop strength and corrosion resistance of base metals.
2. Obtain fusion without undercut or overlap.
3. Remove welding flux immediately.

4. At exposed connections, finish exposed welds and surfaces smooth and blended so no roughness shows after finishing and contour of welded surface matches that of adjacent surface.

D. Fastening to In-Place Construction: Provide anchorage devices and fasteners where metal fabrications are required to be fastened to in-place construction. Provide threaded fasteners for use with concrete and masonry inserts, toggle bolts, through bolts, lag bolts, wood screws, and other connectors.

E. Provide temporary bracing or anchors in formwork for items that are to be built into concrete, masonry, or similar construction.

F. Corrosion Protection: Coat concealed surfaces of aluminum that will come into contact with grout, concrete, masonry, wood, or dissimilar metals with a heavy coat of bituminous paint.

3.2 ADJUSTING AND CLEANING

A. Touchup Painting: Immediately after erection, clean field welds, bolted connections, and abraded areas. Paint uncoated and abraded areas with the same material as used for shop painting to comply with SSPC-PA 1 for touching up shop-painted surfaces.

1. Apply by brush or spray to provide a minimum 2.0-mil (0.05-mm) dry film thickness.

B. Touchup Painting: Cleaning and touchup painting of field welds, bolted connections, and abraded areas of shop paint are specified in Division 09 painting Sections.

C. Galvanized Surfaces: Clean field welds, bolted connections, and abraded areas and repair galvanizing to comply with ASTM A 780.

END OF SECTION 055000

SECTION 311000 - SITE CLEARING

PART 1 - GENERAL

1.1 SUMMARY

A. This Section includes the following:

1. Protecting existing trees to remain.
2. Removing existing trees, shrubs, groundcovers, plants and grass.
3. Clearing and grubbing.
4. Stripping and stockpiling topsoil.
5. Removing above- and below-grade site improvements.
6. Disconnecting, capping or sealing site utilities.
7. Temporary erosion and sedimentation control measures.

B. Related Sections include the following:

1. Division 01 Section "Temporary Tree and Plant Protection" for protecting trees remaining on-site that are affected by site operations.
2. Division 31 Section "Earth Moving" for soil materials, excavating, backfilling, and site grading.

1.2 DEFINITIONS

A. Topsoil: Natural or cultivated surface-soil layer containing organic matter and sand, silt, and clay particles; friable, pervious, and black or a darker shade of brown, gray, or red than underlying subsoil; reasonably free of subsoil, clay lumps, gravel, and other objects more than 2 inches in diameter; and free of subsoil and weeds, roots, toxic materials, or other nonsoil materials.

B. Tree Protection Zone: Area surrounding individual trees or groups of trees to be protected during construction, and defined by the drip line of individual trees or the perimeter drip line of groups of trees, unless otherwise indicated.

1.3 MATERIAL OWNERSHIP

A. Except for stripped topsoil or other materials indicated to remain Owner's property, cleared materials shall become Contractor's property and shall be removed from Project site.

1.4 PROJECT CONDITIONS

A. Traffic: Minimize interference with adjoining roads, streets, walks, and other adjacent occupied or used facilities during site-clearing operations.

1. Do not close or obstruct streets, walks, or other adjacent occupied or used facilities without permission from Owner and authorities having jurisdiction.

B. Utility Locator Service: Notify Louisiana One Call (Dial 811) for area where Project is located before site clearing. BREC will conduct a locate on private electrical and irrigation lines in the vicinity of the construction sites.

C. Do not commence site clearing operations until temporary erosion and sedimentation control measures are in place.

PART 2 - PRODUCTS[**(Not Applicable)**]

PART 3 - EXECUTION

3.1 PREPARATION

A. Protect and maintain benchmarks and survey control points from disturbance during construction.

B. Locate and clearly flag trees and vegetation to remain or to be relocated.

C. Protect existing site improvements to remain from damage during construction.

1. Restore damaged improvements to their original condition, as acceptable to Owner.

3.2 TEMPORARY EROSION AND SEDIMENTATION CONTROL

A. Provide temporary erosion and sedimentation control measures to prevent soil erosion and discharge of soil-bearing water runoff or airborne dust to adjacent properties and walkways.

B. Inspect, repair, and maintain erosion and sedimentation control measures during construction until permanent vegetation has been established.

C. Remove erosion and sedimentation controls and restore and stabilize areas disturbed during removal.

3.3 TREE PROTECTION

A. Erect and maintain temporary fencing around tree protection zones before starting site clearing. Remove fence when construction is complete.

1. Do not store construction materials, debris, or excavated material within fenced area.
2. Do not permit vehicles, equipment, or foot traffic within fenced area.
3. Maintain fenced area free of weeds and trash.

B. Do not excavate within tree protection zones, unless otherwise indicated.

C. Where excavation for new construction is required within tree protection zones, hand clear and excavate to minimize damage to root systems. Use narrow-tine spading forks, comb soil to expose roots, and cleanly cut roots as close to excavation as possible.

1. Cover exposed roots with burlap and water regularly.
2. Temporarily support and protect roots from damage until they are permanently redirected and covered with soil.
3. Coat cut faces of roots more than 1-1/2 inches in diameter with an emulsified asphalt or other approved coating formulated for use on damaged plant tissues.
4. Backfill with soil as soon as possible.

D. Repair or replace trees and vegetation indicated to remain that are damaged by construction operations, in a manner approved by Architect.

1. Employ an arborist, licensed in jurisdiction where Project is located, to submit details of proposed repairs and to repair damage to trees and shrubs.
2. Replace trees that cannot be repaired and restored to full-growth status, as determined by Architect.

3.4 UTILITIES

A. Owner will arrange for disconnecting and sealing indicated utilities that serve existing structures before site clearing, when requested by Contractor.

1. Verify that utilities have been disconnected and capped before proceeding with site clearing.

B. Locate, identify, disconnect, and seal or cap off utilities indicated to be removed.

1. Arrange with utility companies to shut off indicated utilities.
2. Owner will arrange to shut off indicated utilities when requested by Contractor.

C. Existing Utilities: Do not interrupt utilities serving facilities occupied by Owner or others unless permitted under the following conditions and then only after arranging to provide temporary utility services according to requirements indicated:

1. Notify Architect not less than two days in advance of proposed utility interruptions.
2. Do not proceed with utility interruptions without Architect's written permission.

D. Excavate for and remove underground utilities indicated to be removed.

3.5 CLEARING AND GRUBBING

A. Remove obstructions, trees, shrubs, grass, and other vegetation to permit installation of new construction.

1. Do not remove trees, shrubs, and other vegetation indicated to remain or to be relocated.

3.6 TOPSOIL STRIPPING

A. Remove sod and grass before stripping topsoil.

B. Strip topsoil to whatever depths are encountered in a manner to prevent intermingling with underlying subsoil or other waste materials.

1. Remove subsoil and nonsoil materials from topsoil, including trash, debris, weeds, roots, and other waste materials.

C. Stockpile topsoil materials away from edge of excavations without intermixing with subsoil. Grade and shape stockpiles to drain surface water. Cover to prevent windblown dust.

3.7 SITE IMPROVEMENTS

A. Remove existing above- and below-grade improvements as indicated and as necessary to facilitate new construction.

B. Remove slabs, paving, curbs, gutters, and aggregate base as indicated.

1. Unless existing full-depth joints coincide with line of demolition, neatly saw-cut length of existing pavement to remain before removing existing pavement. Saw-cut faces vertically.
2. Paint cut ends of steel reinforcement in concrete to remain to prevent corrosion.

3.8 DISPOSAL

A. Disposal: Remove surplus soil material, unsuitable topsoil, obstructions, demolished materials, and waste materials including trash and debris, and legally dispose of them off Owner's property.

1. Separate recyclable materials produced during site clearing from other nonrecyclable materials. Store or stockpile without intermixing with other materials and transport them to recycling facilities.

END OF SECTION 311000

SECTION 321313 - CONCRETE PAVING

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

A. This Section includes exterior cement concrete pavement for the following:

1. Driveways and roadways.
2. Parking lots.
3. Curbs and gutters.
4. Walkways.
5. Unit paver base.

B. Related Sections include the following:

1. Division 03 Section "Cast-in-Place Concrete and Miscellaneous Cast-in-Place Concrete" for general building applications of concrete.
2. Division 31 Section "Earth Moving" for subgrade preparation, grading, and subbase course.
3. Division 32 Section "Decorative Concrete Paving" for surface-imprinted, stamped finished concrete pavement.
4. Division 32 Section "Concrete Paving Joint Sealants" for joint sealants of joints in concrete pavement and at isolation joints of concrete pavement with adjacent construction.

1.3 DEFINITIONS

A. Cementitious Materials: Portland cement alone or in combination with one or more of blended hydraulic cement, fly ash and other pozzolans, and ground granulated blast-furnace slag.

1.4 SUBMITTALS

A. Design Mixtures: Submit a design mixture for each concrete mixture, proportioned based on field experience or trial mixtures, or both, as required by ACI 318-14, chapter 26. Evidence of the ability of the proposed mixture to comply with concrete mixture requirements on the Drawings shall be included. The evidence shall be based on field test records or laboratory trial batches. Submit alternate design mixtes when characteristics of materials, Project conditions, weather, test results, or other circumstances warrant adjustments.

B. Mix Design:

1. aggregates (sand & gravel): 145 pcf
2. min. cement: 489 lb/cy
3. slump: 5 inches (+/- 1 inch)
4. 7-day strength: 2,000 psi
5. 28-day strength: 3,500 psi

C. Material Test Reports: From a qualified testing agency indicating and interpreting test results for compliance of the following with requirements indicated, based on comprehensive testing of current materials:

1. Aggregates. [Include service record data indicating absence of deleterious expansion of concrete due to alkali-aggregate reactivity].

D. Material Certificates: Signed by manufacturers certifying that each of the following materials complies with requirements:

1. Cementitious materials.
2. Steel reinforcement and reinforcement accessories.
3. Fiber reinforcement.
4. Admixtures.
5. Curing compounds.
6. Applied finish materials.
7. Bonding agent or epoxy adhesive.
8. Joint fillers.

E. Field quality-control test reports.

F. Minutes of preinstallation conference.

1.5 QUALITY ASSURANCE

A. Manufacturer Qualifications: Manufacturer of ready-mixed concrete products who comply with ASTM C 94/C 94M requirements for production facilities and equipment.

1. Manufacturer certified according to NRMCA's "Certification of Ready Mixed Concrete Production Facilities."

B. Testing Agency Qualifications: An independent agency qualified according to ASTM C 1077 and ASTM E 329 for testing indicated, as documented according to ASTM E 548.

1. Personnel conducting field tests shall be qualified as ACI Concrete Field Testing Technician, Grade 1, according to ACI CP-01 or an equivalent certification program.

C. ACI Publications: Comply with ACI 301, "Specification for Structural Concrete," unless modified by requirements in the Contract Documents.

D. Concrete Testing Service: BREC will engage a qualified independent testing agency to perform material evaluation tests and to design concrete mixtures.

E. Preinstallation Conference: Conduct conference at Project site to comply with requirements in Division 01 Section "Project Management and Coordination."

1. Before submitting design mixtures, review concrete pavement mixture design and examine procedures for ensuring quality of concrete materials and concrete pavement construction practices. Require representatives, including the following, of each entity directly concerned with concrete pavement, to attend conference:

a. Contractor's superintendent.
b. Independent testing agency responsible for concrete design mixtures.
c. Ready-mix concrete producer.
d. Concrete pavement subcontractor.

1.6 PROJECT CONDITIONS

A. Traffic Control: Maintain access for vehicular and pedestrian traffic as required for other construction activities.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

A. In other Part 2 articles where titles below introduce lists, the following requirements apply to product selection:

1. Available Products: Subject to compliance with requirements, products that may be incorporated into the Work include, but are not limited to, products specified.
2. Products: Subject to compliance with requirements, provide one of the products specified.
3. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include but are not limited to, manufacturers specified.
4. Manufacturers: Subject to compliance with requirements, provide products by one of the manufacturers specified.

2.2 FORMS

A. Form Materials: Plywood, metal, metal-framed plywood, or other approved panel-type materials to provide full-depth, continuous, straight, smooth exposed surfaces.

B. Form-Release Agent: Commercially formulated form-release agent that will not bond with, stain, or adversely affect concrete surfaces and will not impair subsequent treatments of concrete surfaces.

2.3 STEEL REINFORCEMENT

A. Plain-Steel Welded Wire Reinforcement: ASTM A 185, fabricated from as-drawn steel wire into flat sheets.

B. Deformed-Steel Welded Wire Reinforcement: ASTM A 497, flat sheet.

C. Reinforcing Bars: ASTM A 615/A 615M, Grade 60; deformed.

D. Galvanized Reinforcing Bars: ASTM A 767/A 767M, Class II zinc coated, hot-dip galvanized after fabrication and bending; with ASTM A 615/A 615M, Grade 60 deformed bars.

E. Deformed-Steel Wire: ASTM A 496.

F. Joint Dowel Bars: Plain steel bars, ASTM A 615/A 615M, Grade 60. Cut bars true to length with ends square and free of burrs.

G. Tie Bars: ASTM A 615/A 615M, Grade 60, deformed.

H. Bar Supports: Bolsters, chairs, spacers, and other devices for spacing, supporting, and fastening reinforcing bars, welded wire reinforcement, and dowels in place. Manufacture bar supports according to CRSI's "Manual of Standard Practice" from steel wire, plastic, or precast concrete of greater compressive strength than concrete, and as follows:

1. Equip wire bar supports with sand plates or horizontal runners where base material will not support chair legs.
2. For epoxy-coated reinforcement, use epoxy-coated or other dielectric-polymer-coated wire bar supports.

I. Zinc Repair Material: ASTM A 780.

2.4 CONCRETE MATERIALS

A. Cementitious Material: Use the following cementitious materials, of the same type, brand, and source throughout the Project:

1. Portland Cement: ASTM C 150, Type I/II unless otherwise acceptable to Landscape Architect.

B. Normal-Weight Aggregates: ASTM C 33, coarse aggregate, uniformly graded. Provide aggregates from a single source with documented service record data of at least 10 years' satisfactory service in similar pavement applications and service conditions using similar aggregates and cementitious materials.

1. Maximum Coarse-Aggregate Size: 1 inch nominal for regular sand and gravel mixtures.
2. Fine Aggregate: Free of materials with deleterious reactivity to alkali in cement.

C. Water: ASTM C 94/C 94M and potable.

D. Chemical Admixtures: Provide admixtures certified by manufacturer to be compatible with other admixtures and that will not contribute water-soluble chloride ions exceeding those permitted in hardened concrete. Do not use calcium chloride or admixtures containing calcium chloride.

1. Water-Reducing Admixture: ASTM C 494/C 494M, Type A.
2. Retarding Admixture: ASTM C 494/C 494M, Type B.
3. Water-Reducing and Retarding Admixture: ASTM C 494/C 494M, Type D.

2.5 CURING MATERIALS

A. Absorptive Cover: AASHTO M 182, Class 2, burlap cloth made from jute or kenaf, weighing approximately 9 oz./sq. yd. (305 g/sq. m) dry.

B. Moisture-Retaining Cover: ASTM C 171, 10 mil polyethylene film or white burlap-polyethylene sheet.

C. Water: Potable.

2.6 RELATED MATERIALS

A. Expansion- and Isolation-Joint-Filler Strips: ASTM D 1751, asphalt-saturated cellulosic fiber or ASTM D 1752, cork or self-expanding cork.

B. Bonding Agent (if required): ASTM C 1059, Type II, non-redispersible, acrylic emulsion or styrene butadiene.

C. Epoxy Bonding Adhesive (if required): ASTM C 881, two-component epoxy resin, capable of humid curing and bonding to damp surfaces, of class suitable for application temperature and of grade to requirements, and as follows:

1. Provide material "type", "grade" and "class" to suit project requirements.

2.7 CONCRETE MIXTURES

A. Prepare design mixtures, proportioned according to ACI 301, for each type and strength of normal-weight concrete determined by either laboratory trial mixes or field experience.

1. Use a qualified independent testing agency for preparing and reporting proposed concrete mixture designs for the trial batch method.

B. Add air-entraining admixture at manufacturer's prescribed rate to result in normal-weight concrete at point of placement having an air content as follows:

1. Air Content: 4-1/2 percent plus or minus 1.5 percent for 1-1/2-inch (38-mm) nominal maximum aggregate size.

C. Limit water-soluble, chloride-ion content in hardened concrete to 0.1 percent by weight of cement.

D. Chemical Admixtures: Use admixtures according to manufacturer's written instructions.

1. Use water-reducing admixture, high-range, water-reducing or plasticizing admixture in concrete, as required, for placement and workability, except in slabs.
2. Use water-reducing and retarding admixture when required by high temperatures, low humidity, or other adverse placement conditions.
3. Use water-reducing admixture in pumped concrete, concrete for heavy-use industrial slabs and parking structure slabs, concrete required to be watertight, and concrete with a water-cementitious materials ratio below 0.50.
4. Use corrosion-inhibiting admixture in concrete mixtures where indicated.
5. If more than one admixture is used in a concrete mix, assure that only compatible admixtures are used.
6. Do not use an air-entraining admixture or allow total air content to exceed 3 percent for concrete used in trowel-finished floors.

2.8 CONCRETE MIXING

A. Ready-Mixed Concrete: Measure, batch, and mix concrete materials and concrete according to ASTM C 94/C 94M. Furnish batch certificates for each batch discharged and used in the Work. The time concrete is unloaded shall be recorded on each batch ticket.

1. When air temperature is between 85 deg F (30 deg C) and 90 deg F (32 deg C), reduce mixing and delivery time from 1-1/2 hours to 75 minutes; when air temperature is above 90 deg F (32 deg C), reduce mixing and delivery time to 60 minutes.

2. Batch ticket information shall include information necessary to calculate total mixing water and the amount of water added by the receiver.

B. Project-Site Mixing is not allowed.

PART 3 - EXECUTION

3.1 PREPARATION

A. Remove loose material from compacted subbase surface immediately before placing concrete.

3.2 EDGE FORMS AND SCREED CONSTRUCTION

A. Set, brace, and secure edge forms, bulkheads, and intermediate screed guides for pavement to required lines, grades, and elevations. Install forms to allow continuous progress of work and so forms can remain in place at least 24 hours after concrete placement.

B. Clean forms after each use and coat with form-release agent to ensure separation from concrete without damage.

3.3 STEEL REINFORCEMENT

A. General: Comply with CRSI's "Manual of Standard Practice" for fabricating, placing, and supporting reinforcement.

B. Clean reinforcement of loose rust and mill scale, earth, ice, or other bond-reducing materials.

C. Arrange, space, and securely tie bars and bar supports to hold reinforcement in position during concrete placement. Maintain minimum cover to reinforcement.

D. Install welded wire reinforcement in lengths as long as practicable. Lap adjoining pieces at least one full mesh and lace splices with wire. Offset laps of adjoining widths to prevent continuous laps in either direction.

E. Zinc-Coated Reinforcement: Use galvanized steel wire ties to fasten zinc-coated reinforcement. Repair cut and damaged zinc coatings with zinc repair material.

F. Install fabricated bar mats in lengths as long as practicable. Handle units to keep them flat and free of distortions. Straighten bends, kinks, and other irregularities, or replace units as required before placement. Set mats for a minimum 2-inch (50-mm) overlap of adjacent mats.

3.4 JOINTS

A. General: Form construction, isolation, and contraction joints and tool edgings true to line with faces perpendicular to surface plane of concrete. Construct transverse joints at right angles to centerline, unless otherwise indicated.

1. When joining existing pavement, place transverse joints to align with previously placed joints, unless otherwise indicated.

B. Construction Joints: Set construction joints at side and end terminations of pavement and at locations where pavement operations are stopped for more than one-half hour unless pavement terminates at isolation joints.

1. Continue steel reinforcement across construction joints, unless otherwise indicated. Do not continue reinforcement through sides of pavement strips, unless otherwise indicated.
2. Provide tie bars at sides of pavement strips where indicated.
3. Butt Joints: where fresh concrete is placed against hardened or partially hardened concrete surfaces are not allowed.
4. Keyed Joints: Provide preformed keyway-section forms or bulkhead forms with keys, unless otherwise indicated. Embed keys at least 1-1/2 inches (38 mm) into concrete.
5. Doweled Joints: Install dowel bars and support assemblies at joints where indicated. Lubricate or asphalt-coat one-half of dowel length to prevent concrete bonding to one side of joint.

C. Isolation/Expansion Joints: Form isolation joints of preformed joint-filler strips abutting concrete curbs, catch basins, manholes, inlets, structures, walks, other fixed objects, and where indicated.

1. Locate expansion joints at intervals of 50 feet (15.25 m) unless otherwise indicated.
2. Extend joint fillers full width and depth of joint.
3. Terminate joint filler not less than 1/2 inch (13 mm) or more than 1 inch (25 mm) below finished surface if joint sealant is indicated. Backer rods shall be inserted at the bottom of the joint where merch redwood is used for the expansion material.
4. Place top of joint filler flush with finished concrete surface if joint sealant is not indicated.
5. Furnish joint fillers in one-piece lengths. Where more than one length is required, lace or clip joint-filler sections together.
6. Protect top edge of joint filler during concrete placement with metal, plastic, or other temporary preformed cap. Remove protective cap after concrete has been placed on both sides of joint.

D. Contraction Joints: Form weakened-plane contraction joints, sectioning concrete into areas as indicated. Construct contraction joints for a depth equal to at least one-fourth of the concrete thickness, as follows:

1. Grooved Joints: Form contraction joints after initial floating by grooving and finishing each edge of joint with grooving tool to a 1/4-inch (6-mm) radius. Repeat grooving of contraction joints after applying surface finishes. Eliminate groover marks on concrete surfaces.
2. Sawed Joints: Form contraction joints with power saws equipped with shatterproof abrasive or diamond-rimmed blades. Cut 1/8-inch- (3-mm-) wide joints into concrete when cutting action will not tear, abrade, or otherwise damage surface and before developing random contraction cracks.
3. Doweled Contraction Joints: Install dowel bars and support assemblies at joints where indicated. Lubricate or asphalt coat one-half of dowel length to prevent concrete bonding to one side of joint.

E. Edging: Tool edges of pavement, gutters, curbs, and joints in concrete after initial floating with an edging tool to a 1/4-inch (6-mm) radius. Repeat tooling of edges after applying surface finishes. Eliminate tool marks on concrete surfaces.

3.5 CONCRETE PLACEMENT

A. Inspection: Before placing concrete, inspect and complete formwork installation, steel reinforcement, and items to be embedded or cast in. Notify other trades to permit installation of their work.

B. Comply with ACI 301 requirements for measuring, mixing, transporting, and placing concrete.

C. Do not add water to concrete during delivery or at Project site.

D. Do not add water to fresh concrete after testing.

E. Deposit and spread concrete in a continuous operation between transverse joints. Do not push or drag concrete into place or use vibrators to move concrete into place.

F. Consolidate concrete according to ACI 301 by mechanical vibrating equipment supplemented by hand spading, rodding, or tamping.

1. Consolidate concrete along face of forms and adjacent to transverse joints with an internal vibrator. Keep vibrator away from joint assemblies, reinforcement, or side forms. Use only square-faced shovels for hand spreading and consolidation. Consolidate with care to prevent dislocating reinforcement, dowels, and joint devices.

G. Place concrete in two operations; strike off initial pour for entire width of placement and to the required depth below finish surface. Lay welded wire fabric or fabricated bar mats immediately in final position. Place top layer of concrete, strike off, and screed.

1. Remove and replace concrete that has been placed for more than 15 minutes without being covered by top layer or use bonding agent if approved by Landscape Architect.

H. Screed pavement surfaces with a straightedge and strike off.

I. Initial floating stage between screeding and final floating finish is included here rather than in "Concrete Protection and Curing" Article.

J. Commence initial floating using bull floats or darbies to impart an open textured and uniform surface plane before excess moisture or bleed water appears on the surface. Do not further disturb concrete surfaces before beginning finishing operations or spreading surface treatments.

K. Hot-Weather Placement: Comply with ACI 301 and as follows when hot-weather conditions exist:

1. Cool ingredients before mixing to maintain concrete temperature below 90 deg F (32 deg C) at time of placement. Chilled mixing water or chopped ice may be used to control temperature, provided water equivalent of ice is calculated to total amount of mixing water. Using liquid nitrogen to cool concrete is Contractor's option.
2. Cover steel reinforcement with water-soaked burlap so steel temperature will not exceed ambient air temperature immediately before embedding in concrete.
3. Fog-spray forms, steel reinforcement, and subgrade just before placing concrete. Keep subgrade moisture uniform without standing water, soft spots, or dry areas.

3.6 FLOAT FINISHING

A. General: Do not add water to concrete surfaces during finishing operations.

B. Float Finish: Begin the second floating operation when bleed-water sheen has disappeared and concrete surface has stiffened sufficiently to permit operations. Float surface with power-driven floats, or by hand floating if area is small or inaccessible to power units. Finish surfaces to true planes. Cut down high spots and fill low spots. Refloat surface immediately to uniform granular texture.

1. Medium-to-Fine-Textured Broom Finish: Draw a soft bristle broom across float-finished concrete surface perpendicular to line of traffic to provide a uniform, fine-line texture.

3.7 CONCRETE PROTECTION AND CURING

A. General: Protect freshly placed concrete from premature drying and excessive cold or hot temperatures.

B. Comply with ACI 306.1 for cold-weather protection.

C. Evaporation Retarder: Apply evaporation retarder to concrete surfaces if hot, dry, or windy conditions cause moisture loss approaching 0.2 lb/sq. ft. x h (1 kg/sq. m x h) before and during finishing operations. Apply according to manufacturer's written instructions after placing, screeding, and bull floating or darbying concrete, but before float finishing.

D. Begin curing after finishing concrete but not before free water has disappeared from concrete surface.

E. Curing Methods: Cure concrete by moisture curing, moisture-retaining-cover curing, curing compound, or a combination of these as follows:

1. Moist Curing: Keep surfaces continuously moist for not less than seven days with the following materials:

    a. Water.
    b. Continuous water-fog spray.
    c. Absorptive cover, water saturated and kept continuously wet. Cover concrete surfaces and edges with 12-inch (300-mm) lap over adjacent absorptive covers.

2. Moisture-Retaining-Cover Curing: Cover concrete surfaces with moisture-retaining cover for curing concrete, placed in widest practicable width, with sides and ends lapped at least 12 inches (300 mm), and sealed by waterproof tape or adhesive. Immediately repair any holes or tears during curing period using cover material and waterproof tape.
3. Curing Compound: Apply uniformly in continuous operation by power spray or roller according to manufacturer's written instructions. Recoat areas subjected to heavy rainfall within three hours after initial application. Maintain continuity of coating and repair damage during curing period.

3.8 PAVEMENT TOLERANCES

A. Comply with tolerances of ACI 117 and as follows:

1. Elevation: 1/4 inch (6 mm).
2. Thickness: Plus 3/8 inch (10 mm), minus 1/4 inch (6 mm).
3. Surface: Gap below 10-foot- (3-m-) long, unleveled straightedge not to exceed 1/4 inch (6 mm).
4. Lateral Alignment and Spacing of Tie Bars and Dowels: 1 inch (25 mm).

5. Vertical Alignment of Tie Bars and Dowels: 1/4 inch (6 mm).
6. Alignment of Tie-Bar End Relative to Line Perpendicular to Pavement Edge: 1/2 inch (13 mm).
7. Alignment of Dowel-Bar End Relative to Line Perpendicular to Pavement Edge: Length of dowel 1/4 inch per 12 inches (6 mm per 300 mm).
8. Joint Spacing: 3 inches (75 mm).
9. Contraction Joint Depth: Plus 1/4 inch (6 mm), no minus.
10. Joint Width: Plus 1/8 inch (3 mm), no minus.

3.9 FIELD QUALITY CONTROL

A. Testing Agency: Owner will engage a qualified independent testing and inspecting agency to perform field tests and inspections and prepare test reports.

B. Testing Services: Testing of composite samples of fresh concrete obtained according to ASTM C 172 shall be performed according to the following requirements:

1. Testing Frequency: Obtain at least 1 composite sample for each concrete pour or fraction thereof of each concrete mix placed each day.

    a. When frequency of testing provides fewer than five compressive-strength tests for each concrete mixture, testing shall be conducted from at least five randomly selected batches or from each batch if fewer than five are used.

2. Slump: ASTM C 143/C 143M; one test at point of placement for each composite sample, but not less than one test for each day's pour of each concrete mix. Perform additional tests when concrete consistency appears to change.
3. Air Content: ASTM C 231, pressure method; one test for each composite sample, but not less than one test for each day's pour of each concrete mix.
4. Concrete Temperature: ASTM C 1064; one test hourly when air temperature is 40 deg F (4.4 deg C) and below and when 80 deg F (27 deg C) and above, and one test for each composite sample.
5. Compression Test Specimens: ASTM C 31/C 31M; cast and laboratory cure one set of three standard cylinder specimens for each composite sample.
6. Compressive-Strength Tests: ASTM C 39/C 39M; test 1 specimen at 7 days and 2 specimens at 28 days.

    a. A compressive-strength test shall be the average compressive strength from 2 specimens obtained from same composite sample and tested at 28 days.

C. Strength of each concrete mix will be satisfactory if average of any 3 consecutive compressive-strength tests equals or exceeds specified compressive strength and no compressive-strength test value falls below specified compressive strength by more than 500 psi (3.4 MPa).

D. Test results shall be reported in writing to Architect, concrete manufacturer, and Contractor within 48 hours of testing. Reports of compressive-strength tests shall contain Project identification name and number, date of concrete placement, name of concrete testing and inspecting agency, location of concrete batch in Work, design compressive strength at 28

days, concrete mixture proportions and materials, compressive breaking strength, and type of break for both 7- and 28-day tests.

E. Nondestructive Testing: Impact hammer, sonoscope, or other nondestructive device may be permitted by Architect but will not be used as sole basis for approval or rejection of concrete.

F. Additional Tests: Testing and inspecting agency shall make additional tests of concrete when test results indicate that slump, air entrainment, compressive strengths, or other requirements have not been met, as directed by the Landscape Architect.

G. Remove and replace concrete pavement where test results indicate that it does not comply with specified requirements.

H. Additional testing and inspecting, at Contractor's expense, will be performed to determine compliance of replaced or additional work with specified requirements.

3.10 REPAIRS AND PROTECTION

A. Remove and replace concrete pavement that is broken, damaged, or defective or that does not comply with requirements in this Section.

B. Drill test cores, where directed by Architect, when necessary to determine magnitude of cracks or defective areas. Fill drilled core holes in satisfactory pavement areas with Portland cement concrete bonded to pavement with epoxy adhesive.

C. Protect concrete from damage. Exclude traffic from pavement for at least 14 days after placement. When construction traffic is permitted, maintain pavement as clean as possible by removing surface stains and spillage of materials as they occur.

D. Maintain concrete pavement free of stains, discoloration, dirt, and other foreign materials. Sweep concrete pavement not more than two days before date scheduled for Substantial Completion inspections.

END OF SECTION 321313

SECTION 321373 - CONCRETE PAVING JOINT SEALANTS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

A. This Section includes the following:

1. Expansion and contraction joints within cement concrete pavement.
2. Joints between cement concrete and asphalt pavement.

B. Related Sections include the following:

1. Division 07 Section "Joint Sealants" for sealing nontraffic and traffic joints in locations not specified in this Section.
2. Division 32 Section "Asphalt Paving" for constructing joints between concrete and asphalt pavement.
3. Division 32 Section "Concrete Paving" for constructing joints in concrete pavement.

1.3 DELIVERY, STORAGE, AND HANDLING

A. Deliver materials to Project site in original unopened containers or bundles with labels indicating manufacturer, product name and designation, color, expiration date, pot life, curing time, and mixing instructions for multicomponent materials.

B. Store and handle materials to comply with manufacturer's written instructions to prevent their deterioration or damage due to moisture, high or low temperatures, contaminants, or other causes.

1.4 PROJECT CONDITIONS

A. Do not proceed with installation of joint sealants under the following conditions:

1. When ambient and substrate temperature conditions are outside limits permitted by joint-sealant manufacturer.
2. When ambient and substrate temperature conditions are outside limits permitted by joint-sealant manufacturer or are below 40 deg F (4.4 deg C).
3. When joint substrates are wet or covered with frost.
4. Where joint widths are less than those allowed by joint-sealant manufacturer for applications indicated.

5. Where contaminants capable of interfering with adhesion have not yet been removed from joint substrates.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

A. Available Products: Subject to compliance with requirements, products that may be incorporated into the Work include, but are not limited to, products listed in other Part 2 articles.

B. Products: Subject to compliance with requirements, provide one of the products listed in other Part 2 articles.

2.2 MATERIALS, GENERAL

A. Compatibility: Provide joint sealants, backing materials, and other related materials that are compatible with one another and with joint substrates under conditions of service and application, as demonstrated by joint-sealant manufacturer based on testing and field experience.

B. Colors of Exposed Joint Sealants: As selected by Architect from manufacturer's full range.

2.3 COLD-APPLIED JOINT SEALANTS

A. Multicomponent Jet-Fuel-Resistant Sealant for Concrete: Pourable, chemically curing elastomeric formulation complying with the following requirements for formulation and with ASTM C 920 for type, grade, class, and uses indicated:

1. Urethane Formulation: Type M; Grade P; Class 12-1/2; Uses T, M, and, as applicable to joint substrates indicated, O.

2. Bitumen-Modified Urethane Formulation: Type M; Grade P; Class 25; Uses T, M, and, as applicable to joint substrates indicated, O.

B. Single-Component Jet-Fuel-Resistant Urethane Sealant for Concrete: Single-component, pourable, coal-tar-modified, urethane formulation complying with ASTM C 920 for Type S; Grade P; Class 25; Uses T, M, and, as applicable to joint substrates indicated, O.

C. Type NS Silicone Sealant for Concrete: Single-component, low-modulus, neutral-curing, nonsag silicone sealant complying with ASTM D 5893 for Type NS.

D. Type SL Silicone Sealant for Concrete and Asphalt: Single-component, low-modulus, neutral-curing, self-leveling silicone sealant complying with ASTM D 5893 for Type SL.

E. Multicomponent Low-Modulus Sealant for Concrete and Asphalt: Proprietary formulation consisting of reactive petropolymer and activator components producing a pourable, self-leveling sealant.

2.4 JOINT-SEALANT BACKER MATERIALS

A. General: Provide joint-sealant backer materials that are nonstaining; are compatible with joint substrates, sealants, primers, and other joint fillers; and are approved for applications indicated by joint-sealant manufacturer based on field experience and laboratory testing.

B. Round Backer Rods for Cold- and Hot-Applied Sealants: ASTM D 5249, Type 1, of diameter and density required to control sealant depth and prevent bottom-side adhesion of sealant.

C. Backer Strips for Cold- and Hot-Applied Sealants: ASTM D 5249; Type 2; of thickness and width required to control sealant depth, prevent bottom-side adhesion of sealant, and fill remainder of joint opening under sealant.

D. Round Backer Rods for Cold-Applied Sealants: ASTM D 5249, Type 3, of diameter and density required to control sealant depth and prevent bottom-side adhesion of sealant.

2.5 PRIMERS

A. Primers: Product recommended by joint-sealant manufacturer where required for adhesion of sealant to joint substrates indicated, as determined from preconstruction joint-sealant-substrate tests and field tests.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine joints indicated to receive joint sealants, with Installer present, for compliance with requirements for joint configuration, installation tolerances, and other conditions affecting joint-sealant performance.

1. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

A. Surface Cleaning of Joints: Clean out joints immediately before installing joint sealants to comply with joint-sealant manufacturer's written instructions.

B. Joint Priming: Prime joint substrates where indicated or where recommended in writing by joint-sealant manufacturer, based on preconstruction joint-sealant-substrate tests or prior experience. Apply primer to comply with joint-sealant manufacturer's written instructions. Confine primers to areas of joint-sealant bond; do not allow spillage or migration onto adjoining surfaces.

3.3 INSTALLATION OF JOINT SEALANTS

A. General: Comply with joint-sealant manufacturer's written installation instructions for products and applications indicated, unless more stringent requirements apply.

B. Sealant Installation Standard: Comply with recommendations in ASTM C 1193 for use of joint sealants as applicable to materials, applications, and conditions indicated.

C. Install backer materials of type indicated to support sealants during application and at position required to produce cross-sectional shapes and depths of installed sealants relative to joint widths that allow optimum sealant movement capability.

1. Do not leave gaps between ends of backer materials.
2. Do not stretch, twist, puncture, or tear backer materials.
3. Remove absorbent backer materials that have become wet before sealant application and replace them with dry materials.

D. Install sealants using proven techniques that comply with the following and at the same time backings are installed:

1. Place sealants so they directly contact and fully wet joint substrates.
2. Completely fill recesses provided for each joint configuration.
3. Produce uniform, cross-sectional shapes and depths relative to joint widths that allow optimum sealant movement capability.

E. Tooling of Nonsag Sealants: Immediately after sealant application and before skinning or curing begins, tool sealants according to requirements specified below to form smooth, uniform beads of configuration indicated; to eliminate air pockets; and to ensure contact and adhesion of sealant with sides of joint.

1. Remove excess sealants from surfaces adjacent to joint.
2. Use tooling agents that are approved in writing by joint-sealant manufacturer and that do not discolor sealants or adjacent surfaces.

F. Provide joint configuration to comply with joint-sealant manufacturer's written instructions, unless otherwise indicated.

G. Provide recessed joint configs for silicone sealants of recess depth and at locations indicated.

3.4 CLEANING

A. Clean off excess sealants or sealant smears adjacent to joints as the Work progresses by methods and with cleaning materials approved by manufacturers of joint sealants and of products in which joints occur.

3.5 PROTECTION

A. Protect joint sealants during and after curing period from contact with contaminating substances and from damage resulting from construction operations or other causes so

sealants are without deterioration or damage at time of Substantial Completion. If damage or deterioration occurs, cut out and remove damaged or deteriorated joint sealants immediately and replace with joint sealant so installations with repaired areas are indistinguishable from the original work.

END OF SECTION 321373

BREC GOLF CART PATH RENOVATIONS:
CITY-BROOKS COMMUNITY PARK AND SANTA MARIA

CITY-BROOKS GOLF
1515 DALRYMPLE DR.
BATON ROUGE, LA 70806

SANTA MARIA GOLF
18460 SANTA MARIA PKWY.
ST. GEORGE, LA 70810

SEPTEMBER 2026

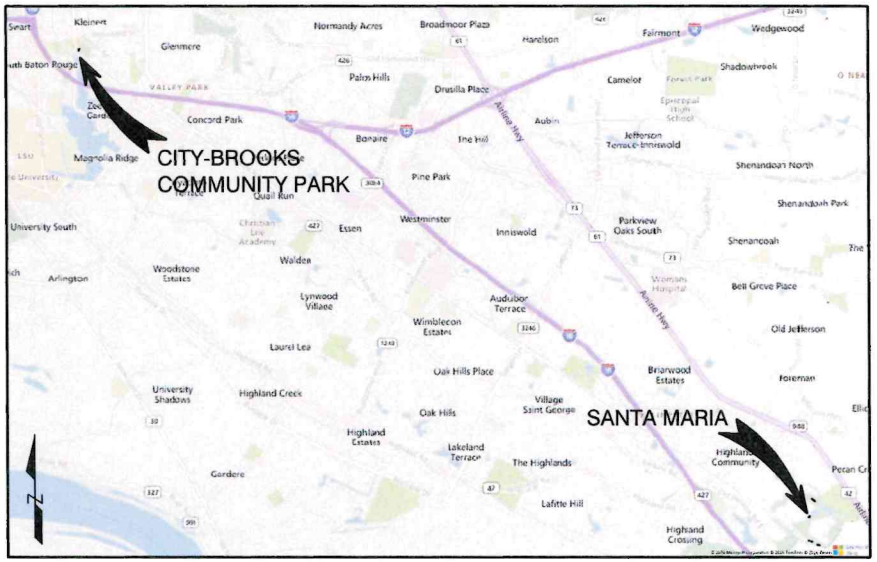
RECREATION AND PARK COMMISSION
FOR THE PARISH OF EAST BATON ROUGE

PLANNING AND ENGINEERING DEPARTMENT
6201 FLORIDA BLVD.
BATON ROUGE, LA 70806

BREC COMMISSION

MICHAEL POLITO, CHAIR
WADE EVANS, VICE CHAIR
CARL STAGES, TREASURER
DAVID MCDAVID
DUSTIN YATES
LON VICKNAIR
COLLIS TEMPLE III
DR. MURELLE G. HARRISON
JOSEPH MARSHALL ORTEGO

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L1.2	PAVING PLAN: SANTA MARIA GOLF - HOLE 1 CART PATH
L1.3	LAYOUT PLAN: SANTA MARIA GOLF - HOLE 1 CART PATH
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VICINITY MAP
NOT TO SCALE

STATE OF LOUISIANA
STEVEN J. LUMPKIN
REG. NO. L-254
LICENSED LANDSCAPE ARCHITECT
9/23/26

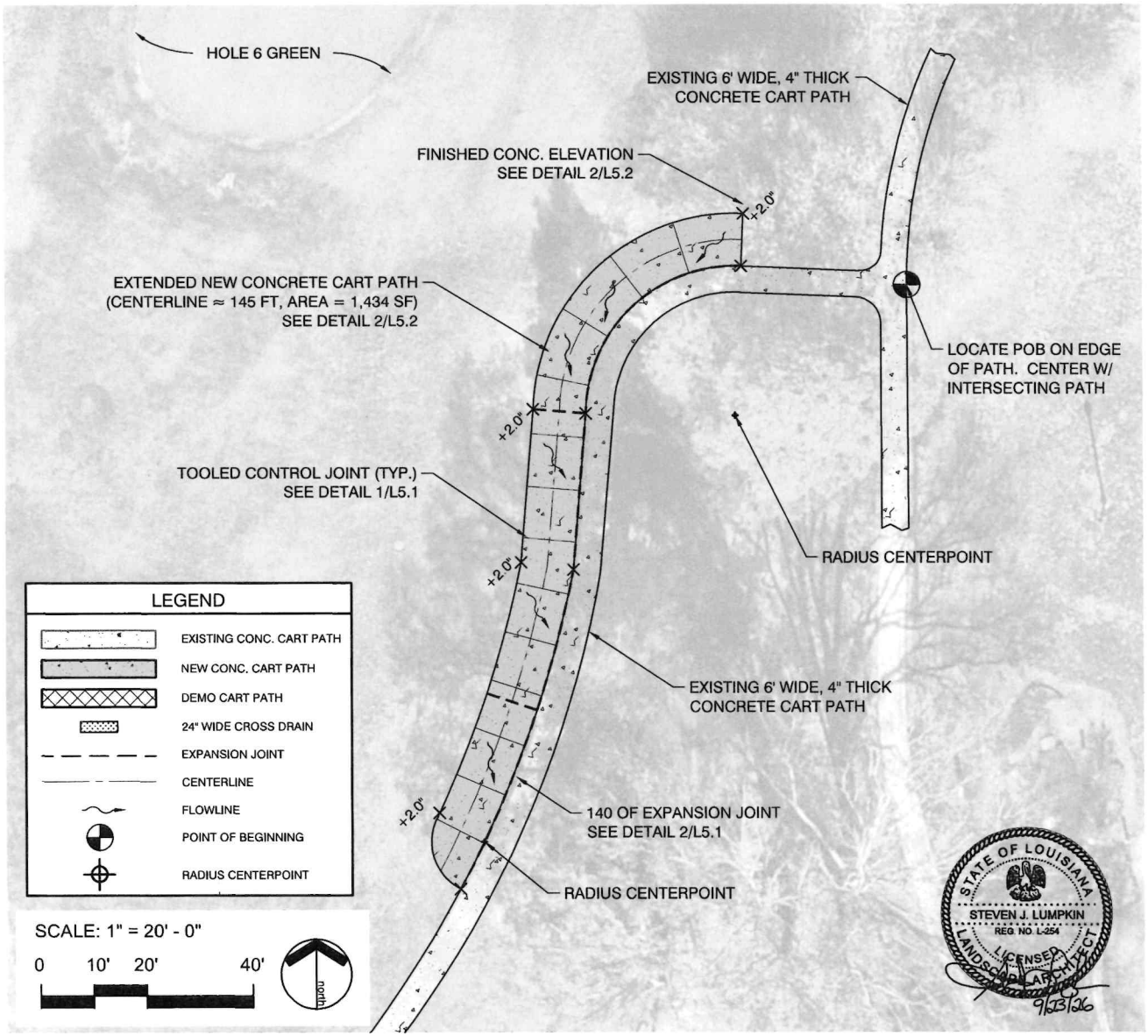
BREC

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BREC GOLF CART PATH RENOVATIONS
CITY-BROOKS AND SANTA MARIA GOLF COURSES
RECREATION and PARK COMMISSION for the PARISH of EAST BATON ROUGE PARISH PLANNING & ENGINEERING DEPT.
TITLE PAGE
SEPTEMBER 2026

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GENERAL NOTES:

1. **PROJECT DESCRIPTION:** PROJECT INCLUDES PAVING MODIFICATIONS OF 4 SECTIONS OF GOLF CART PATHS, 1 AT CITY-BROOKS GOLF AND 3 AT SANTA MARIA GOLF.
2. **PROJECT REQUIREMENTS:** THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONSTRUCTION IN ACCORDANCE WITH THESE CONTRACT DOCUMENTS.
3. **UTILITIES AND PIPELINES:** THE PROJECT SITE MAY INCLUDE EXISTING IRRIGATION PLUMBING AND ELECTRICAL. BREC WILL MARK ANY EXISTING UNDERGROUND PLUMBING AND ELECTRICAL. THERE ARE NO SUSPECTED PUBLIC UTILITIES IN THESE AREAS. HOWEVER, BY LAW, CONTRACTOR MUST CONTACT LOUISIANA ONE CALL (811) A MIN. OF 48 HOURS PRIOR TO CONSTRUCTION TO HAVE ANY PUBLICLY-OWNED UTILITIES LOCATED IN THE FIELD. IF ANY UNFORESEEN UTILITY LINE(S) ARE OBSTRUCTING THE SCOPE OF WORK, NOTIFY BREC IMMEDIATELY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING AND/OR REPLACING ANY DAMAGED UTILITIES AT NO ADDITIONAL COST TO BREC.
4. **PROJECT CONTROL:** ALL SPECIFIED CONTROL MEASURES WILL BE MAINTAINED IN EFFECTIVE CONDITION THROUGHOUT THE CONSTRUCTION PERIOD. ANY DISCREPANCIES B/W ACTUAL SITE CONDITIONS AND THE CONSTRUCTION DOCUMENTS SHALL BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT IN A TIMELY MANNER TO NOT ADVERSELY AFFECT THE PROGRESS OF WORK.

   STAGING FOR MATERIALS AND EQUIPMENT AND PROJECT INGRESS AND EGRESS SHALL BE COORDINATED WITH BREC.

   CONTRACTOR SHALL BE REQUIRED TO KEEP STREETS FREE OF MUD AND DIRT AT ALL TIMES.

   ALL CONSTRUCTION TO COMPLY WITH ALL APPLICABLE CODES AND ORDINANCES.

   CONTRACTOR SHALL BE FAMILIAR WITH ACTUAL SITE CONDITIONS BEFORE PROCEEDING WITH WORK.

   CONTRACTOR SHALL EXERCISE EXTREME CAUTION TO PROTECT TREES, PLANTINGS, AND SOD. CONTRACTOR SHALL REPLACE ANY DAMAGED TREES, PLANTINGS, AND SOD, IN KIND, TO THE SPECIFICATIONS OF THE LANDSCAPE ARCHITECT.

   LAYOUT, GEOMETRY, AND DIMENSIONS OF ALL PROPOSED PAVING MAY REQUIRE ADJUSTMENTS IN THE FIELD. FINAL STAKING OF ALL PROPOSED PAVED AREAS MUST BE APPROVED BY THE LANDSCAPE ARCHITECT PRIOR TO POURING CONCRETE.

   CONTRACTOR IS RESPONSIBLE FOR REPAIRING ALL EXISTING GRADES DAMAGED DURING CONSTRUCTION IN ORDER TO PROVIDE POSITIVE DRAINAGE.
5. **PROJECT SEQUENCE:** THESE DOCUMENTS DO NOT DESCRIBE THE MEANS, METHODS, AND PROCEDURES FOR ACCOMPLISHING THE WORK. THE CONTRACTOR IS RESPONSIBLE FOR SETTING THESE GUIDELINES TO SUCCESSFULLY COMPLETE THE PROJECT IN THE TIME PROVIDED. BASIC ELEMENTS OF THE PROJECT INVOLVE SEQUENCING IN ORDER FOR THE CONSTRUCTION TO PROCEED IN AN ORDERLY MANNER.
6. **CONCRETE PAVING:** TO PREPARE PAVING AREAS FOR CONSTRUCTION, THE SITE SHALL BE STRIPPED OF ALL SURFACE VEGETATION AND EXCAVATED TO ALLOW FOR 4" OF COMPACTED #610 LIMESTONE OVER A 4 OZ NONWOVEN GEOTEXTILE MEMBRANE AND 4" OF CONCRETE PAVING.

CONTINUED ON NEXT SHEET...

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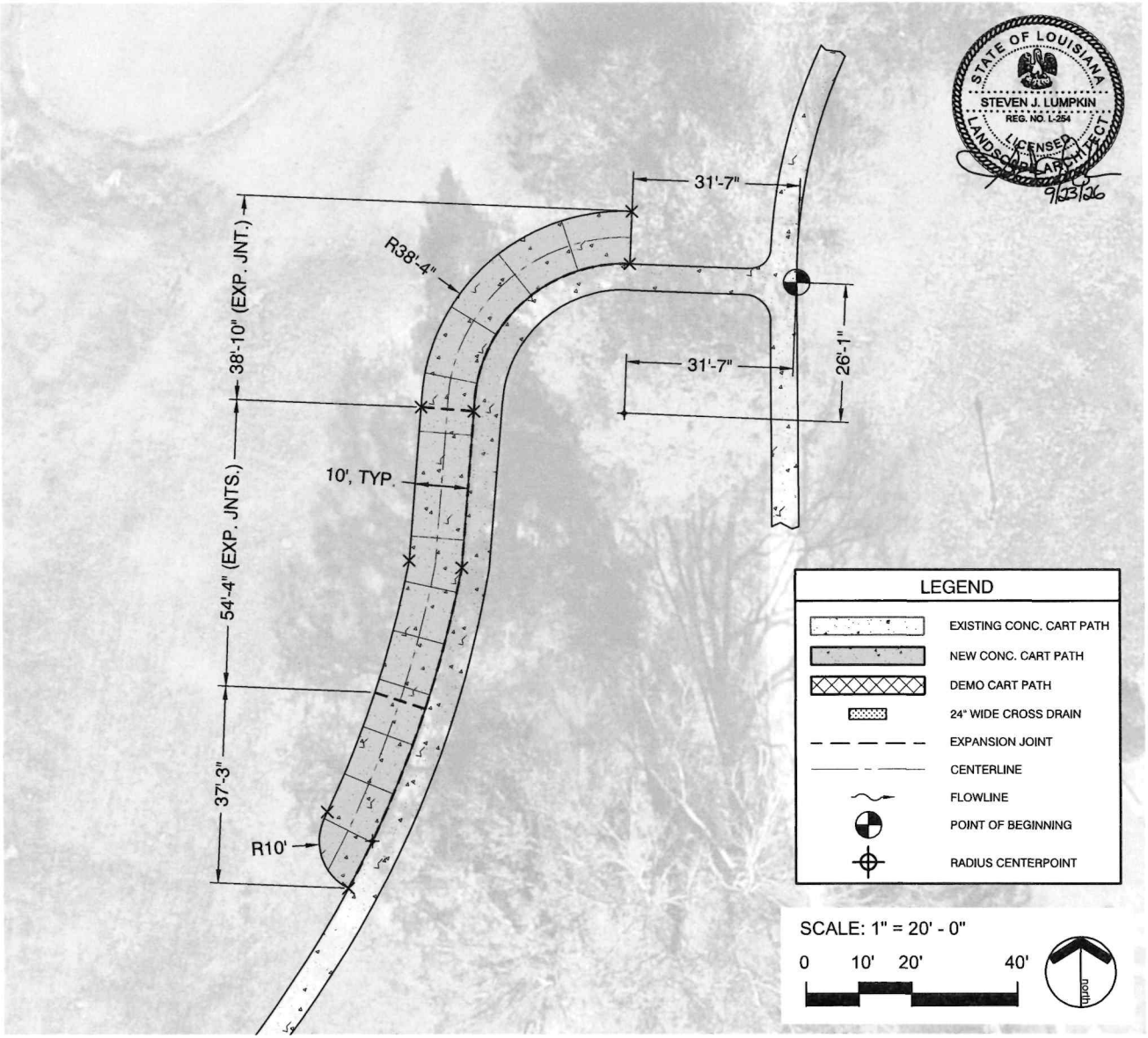
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IMAGINE YOUR PARKS

BREC GOLF CART PATH RENOVATIONS
CITY-BROOKS GOLF COURSE
RECREATION and PARK COMMISSION for the PARISH of EAST BATON ROUGE PARISH PLANNING & ENGINEERING DEPT.
PAVING PLAN & NOTES: CITY-BROOKS GOLF - HOLE 9 CART PATH
SEPTEMBER 2026

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STATE OF LOUISIANA
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GENERAL NOTES:

6. **CONCRETE & PAVING:**

SLAB THICKNESS: AS SHOWN

28-DAY STRENGTH: 3,500 PSI (MIN.)

SLUMP: 5" MAX.

WATER/CEMENT RATIO: 0.45 (MAX.)

FLY ASH: NONE ALLOWED

SLAG: NONE ALLOWED

FINISH: MEDIUM BROOM FINISH PERPENDICULAR TO THE MAIN DIRECTION OF TRAVEL.

REINFORCEMENT SUPPORTS: DOBIES/CONCRETE BLOCKS SHALL BE PLACED TO PROVIDE ADEQUATE SUPPORT FOR SLAB REBAR CAGE TO PREVENT EXCESSIVE DEFLECTION.

CONCRETE MATERIAL TESTING TO BE PROVIDED BY BREC. ALL CONCRETE POURS > 30 CY SHALL BE TESTED FOR SLUMP AND COMPRESSIVE STRENGTH. COMPRESSIVE STRENGTH TESTS SHALL INCLUDE 3 SETS OF CYLINDERS FOR TESTING ON DAYS 7, 14, AND 28.

CONCRETE PAVING SHALL BE BACKFILLED AND COMPACTED WITHIN 3/4" OF THE TOP OF PAVEMENT WITH TOPSOIL AFTER REMOVING FORMWORK.

7. **CROSS SLOPES AND TRANSITIONS:** ALL SIDEWALKS SHALL MAINTAIN A MINIMUM CROSS SLOPE OF 1:100 (1%) AND A MAXIMUM CROSS SLOPE OF 1:50 (2%). SIDEWALK CROSS SLOPES SHALL ALLOW WATER FLOW TOWARD AN EXISTING OR NEW CATCH BASIN OR TOWARD THE SIDE NEARER A LOWER CONTOUR. SIDEWALKS SLOPED INTO CONTOURS ON THE HIGH SIDE CAUSING WATER TO BE TRAPPED WILL NOT BE ACCEPTED. CROSS DRAINS IN SIDEWALK SHALL BE INSTALLED AS SHOWN. 3/8" FLOOR PLATE WITH A DIAMOND TEXTURE SHALL BE USED AND TACK WELDED TO THE STEEL SUPPORTS. THE STEEL BRACKETS SHALL BE CASTED INTO THE CONCRETE SO THAT THE TOP OF THE BRACKETS ARE FLUSH WITH THE SIDEWALK AND PLATE. FOUR (4) BENT GALVANIZED 10 PENNY NAILS, SPACED 12" O.C., SHALL BE TACK WELDED IN THE GROOVE OF THE ANGLE STEEL WITH 2 INCHES FACING THE CONCRETE POUR (SEE SHEET L5.3).

CONTRACTOR SHALL MAKE SMOOTH, FLUSH TRANSITIONS BETWEEN ALL EXISTING AND PROPOSED PAVEMENTS. CONTRACTOR SHALL SAWCUT EXISTING CONCRETE SLABS AT AN EXISTING CONTROL JOINT WHERE THERE ARE TIE-INS WITH NEW CONCRETE. AN EXPANSION JOINT SHALL BE INSTALLED AT ALL NEW AND OLD CONCRETE TRANSITIONS ACCORDING TO THE DETAILS INCLUDED IN THESE PLANS.

ALL MIXING, TRANSPORTING, PLACING, AND CURING OF CONCRETE SHALL BE DONE IN ACCORDANCE WITH THE SPECIFICATIONS INCLUDED IN THE BID DOCUMENTS.

8. **JOINTS:**

EXPANSION JOINTS (EJ): EXPANSION JOINTS SHALL BE PLACED AS SHOWN. EXPANSION JOINTS SHALL BE 1/2" WIDE AND THE FULL DEPTH OF THE CONCRETE. PRE-FORMED EJ MATERIAL SHALL BE INSTALLED IN THE EJ, FROM 1/2" TO 3/4" BELOW THE FINISHED TOP OF NEW CONCRETE TO THE BOTTOM OF THE NEW CONCRETE AND FOR THE FULL LENGTH OF THE EJ. PROVIDE 18" LONG SMOOTH #4 STEEL DOWELS AT 24" O.C., BEGINNING 3" TO 6" FROM EACH EDGE OF CONCRETE AND CENTERED ALONG THE JOINT. DOWELS SHALL BE GREASED AND SLEEVED AS SHOWN IN DETAIL 2/L5.1.

CONTRACTION/CONTROL JOINTS (CJ): CONTROL JOINTS SHALL BE PROVIDED AS SHOWN USING A JOINTING TOOL, 1/4" WIDE AND 1" DEEP FOR 4" THICK CONCRETE. CONTROL JOINTS SHALL BE PERPENDICULAR TO THE EDGE OF CONCRETE.

9. **SITE SECURITY & STORAGE:** THE CONTRACTOR IS FULLY RESPONSIBLE FOR PROVIDING SITE SECURITY FOR ALL ITEMS REQUIRED FOR THIS PROJECT. THIS INCLUDES, BUT NOT LIMITED TO, MEANS, METHODS, MATERIALS, AND LABOR TO PROVIDE SITE SECURITY. THE SITE SECURITY IF REQUIRED FOR THE ENTIRE DURATION OF THE PROJECT. CONTRACTOR IS RESPONSIBLE FOR THE SECURITY OF FRESHLY POURED CONCRETE UNTIL CONCRETE HARDENS. PROTECT CONCRETE FROM VANDALISM.

10. **TREE PROTECTION:** NO VEHICLES, MACHINERY, EQUIPMENT, CONTAINERS, MATERIALS, OR PERSONAL VEHICLES ARE TO BE STORED OR PARKED UNDER THE DRIPLINE OF ANY EXISTING TREES EXCEPT FOR THOSE UNDERGOING PAVING CONSTRUCTION AS INDICATED ON THESE PLANS.

11. **PROTECTION OF EXCAVATIONS:** WHEREVER LAWN IS DISTURBED, KILLED, OR LEFT IN ANY UNHEALTHY CONDITION AS DETERMINED BY THE BREC, IT IS TO BE RESODDED BY THE CONTRACTOR WITH TIFWAY 419 BERMUDA AS DIRECTED BY THE BREC LANDSCAPE ARCHITECT. BREC WILL RUN IRRIGATION ON NEWLY INSTALLED SOD.

12. **CUT AND FILL:** EXCESS CUT/SPOILS TO BE REMOVED AT NO ADDITIONAL CHARGES TO BREC.

BREC

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BREC GOLF CART PATH RENOVATIONS

CITY-BROOKS GOLF COURSE

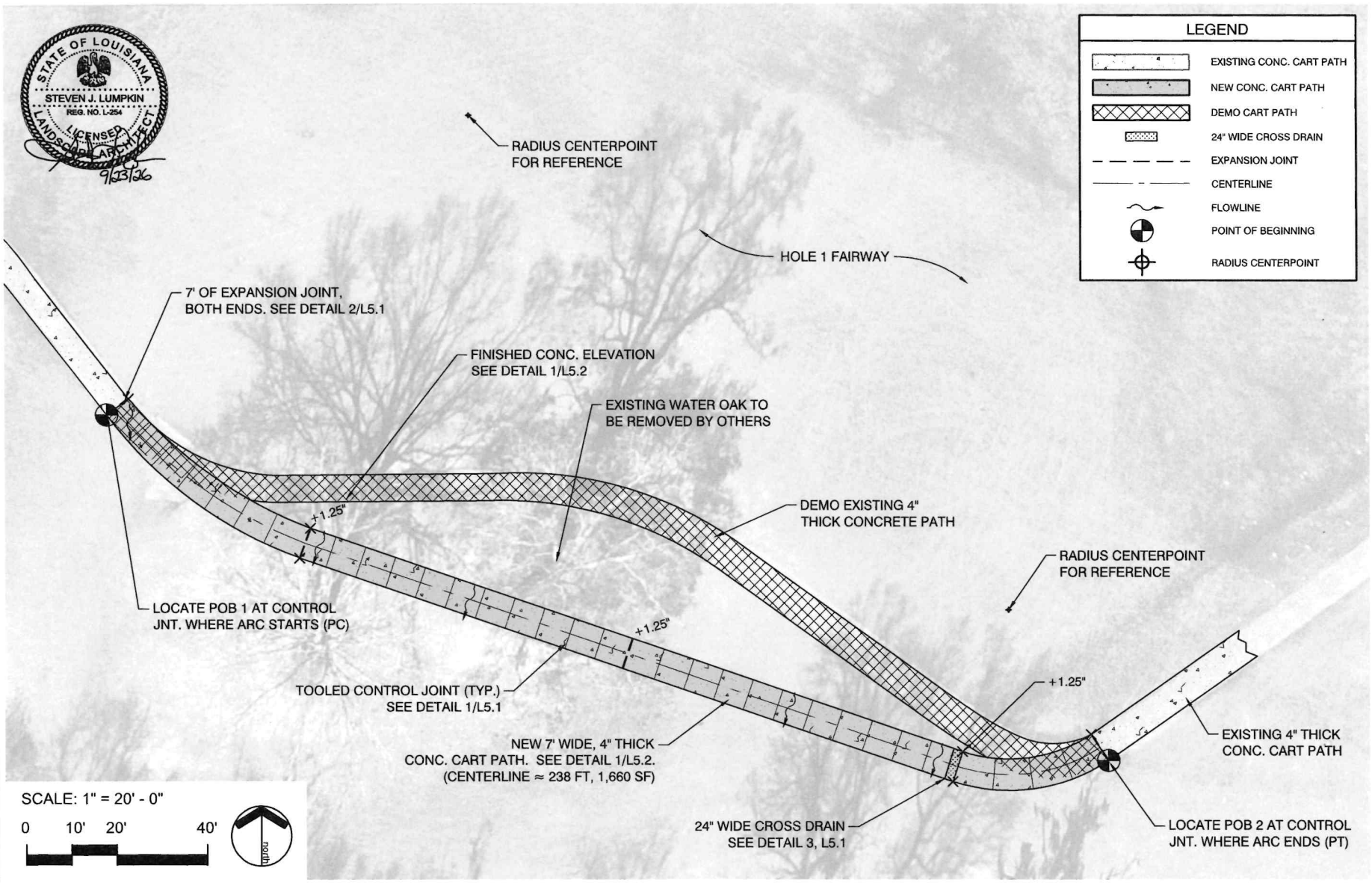
RECREATION and PARK COMMISSION for the PARISH of EAST BATON ROUGE PARISH PLANNING & ENGINEERING DEPT.

LAYOUT PLAN & NOTES: CITY-BROOKS GOLF - HOLE 9 CART PATH

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BREC GOLF CART PATH RENOVATIONS

CITY-BROOKS COMMUNITY PARK & SANTA MARIA

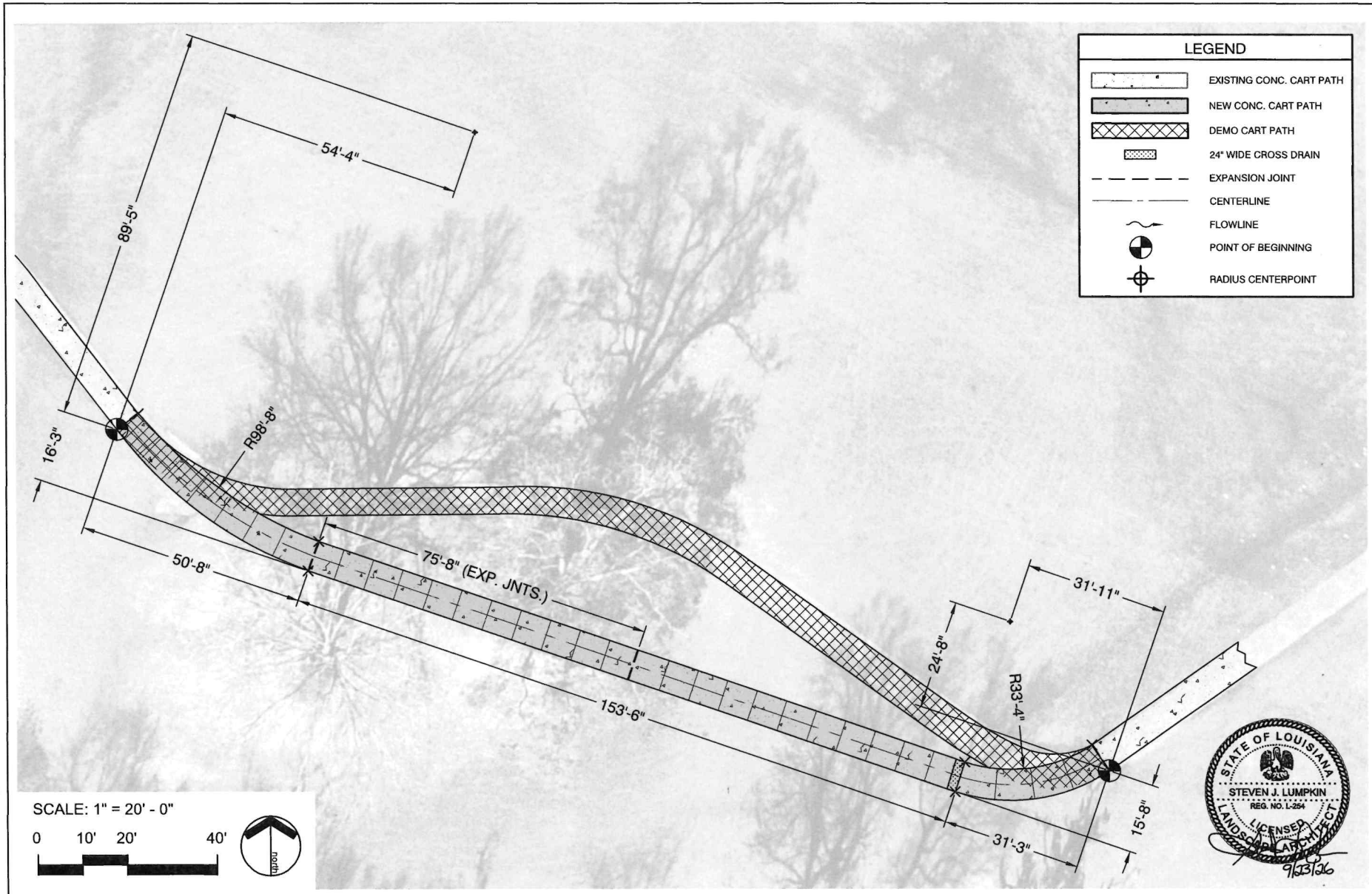
RECREATION and PARK COMMISSION for the PARISH of EAST BATON ROUGE PARISH PLANNING & ENGINEERING DEPT.

PAVING PLAN: SANTA MARIA GOLF - HOLE 1 CART PATH

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BREC

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BREC GOLF CART PATH RENOVATIONS

SANTA MARIA GOLF

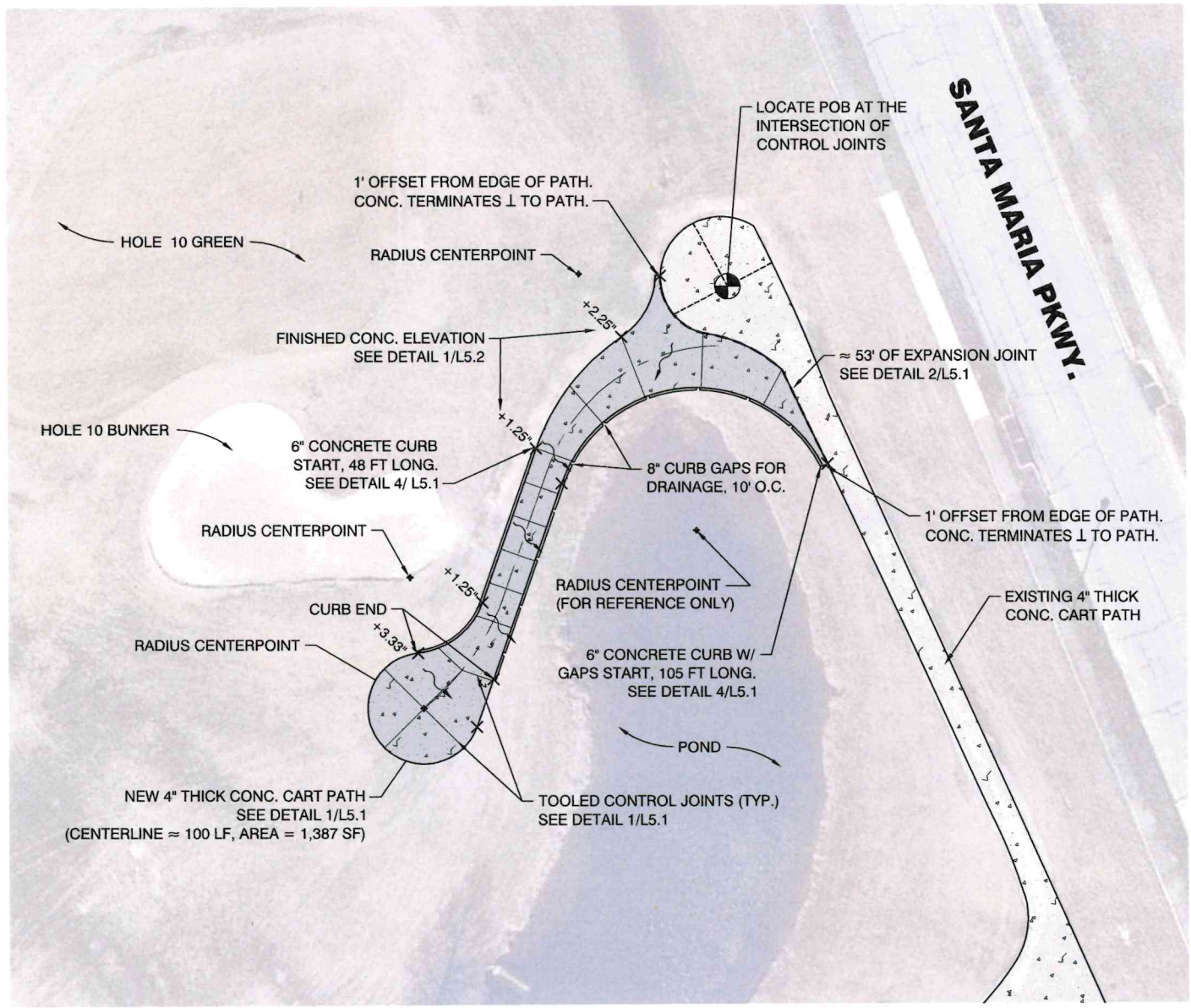
RECREATION and PARK COMMISSION for the PARISH of EAST BATON ROUGE PARISH PLANNING & ENGINEERING DEPT.

PAVING PLAN: SANTA MARIA GOLF - HOLE 1 CART PATH

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NOTES FOR HOLE 10 CART PATH:

1. THE SIX-INCH CURB AGAINST THE HOLE 10 BUNKER MOUND SHOULD BE CUT INTO THE GRADE WHERE TOP OF GRADE IS 3/4" BELOW TOP OF CURB.
2. THE SIX-INCH CURB AGAINST THE POND WILL HAVE 8" WIDE GAPS EVERY 10 FEET TO ALLOW FOR DRAINAGE INTO THE POND.

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LEGEND

- EXISTING CONC. CART PATH
- NEW CONC. CART PATH
- DEMO CART PATH
- 24" WIDE CROSS DRAIN
- EXPANSION JOINT
- CENTERLINE
- FLOWLINE
- POINT OF BEGINNING
- RADIUS CENTERPOINT

SCALE: 1" = 20' - 0"

0 10' 20' 40'

north

BREC

IMAGINE YOUR PARKS

BREC GOLF CART PATH RENOVATIONS

SANTA MARIA GOLF

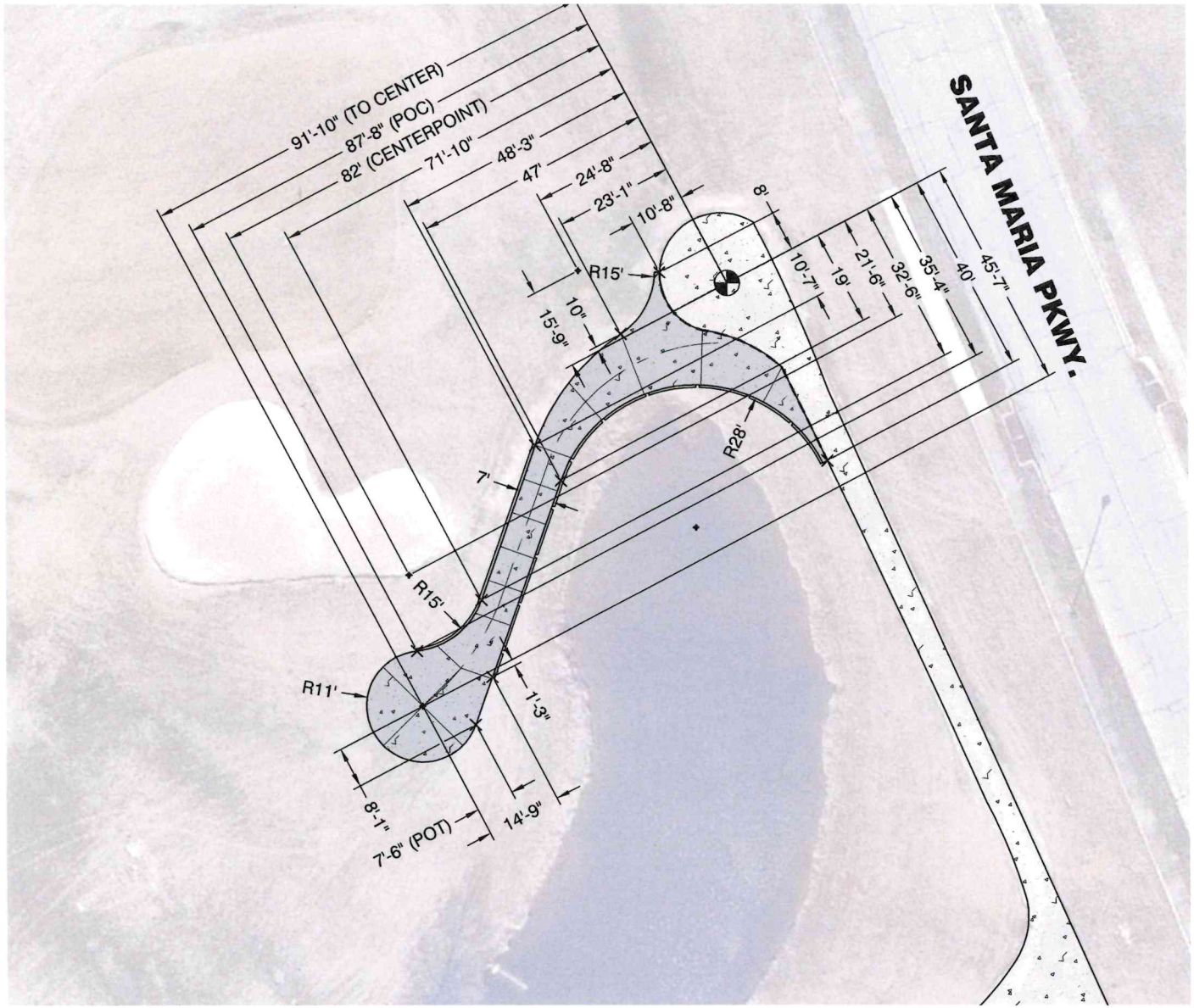
RECREATION and PARK COMMISSION for the PARISH of EAST BATON ROUGE PARISH PLANNING & ENGINEERING DEPT.

PAVING PLAN: SANTA MARIA GOLF - HOLE 10 CART PATH

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STATE OF LOUISIANA
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LEGEND

- EXISTING CONC. CART PATH
- NEW CONC. CART PATH
- DEMO CART PATH
- 24" WIDE CROSS DRAIN
- EXPANSION JOINT
- CENTERLINE
- FLOWLINE
- POINT OF BEGINNING
- RADIUS CENTERPOINT

SCALE: 1" = 20' - 0"

0 10' 20' 40'

north

BREC

IMAGINE YOUR PARKS

BREC GOLF CART PATH RENOVATIONS

SANTA MARIA GOLF

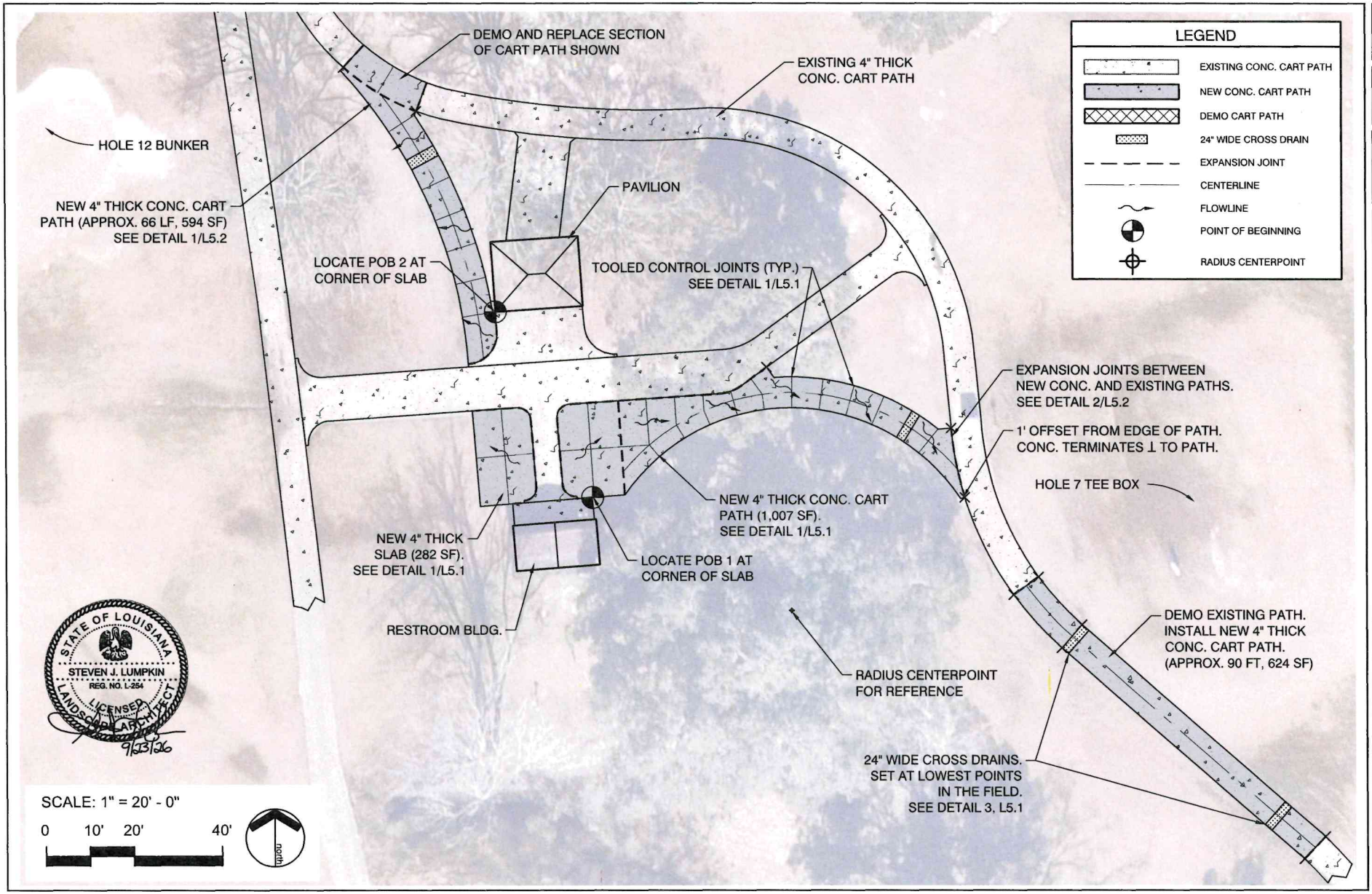
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LAYOUT PLAN: SANTA MARIA GOLF - HOLE 10 CART PATH

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SANTA MARIA GOLF

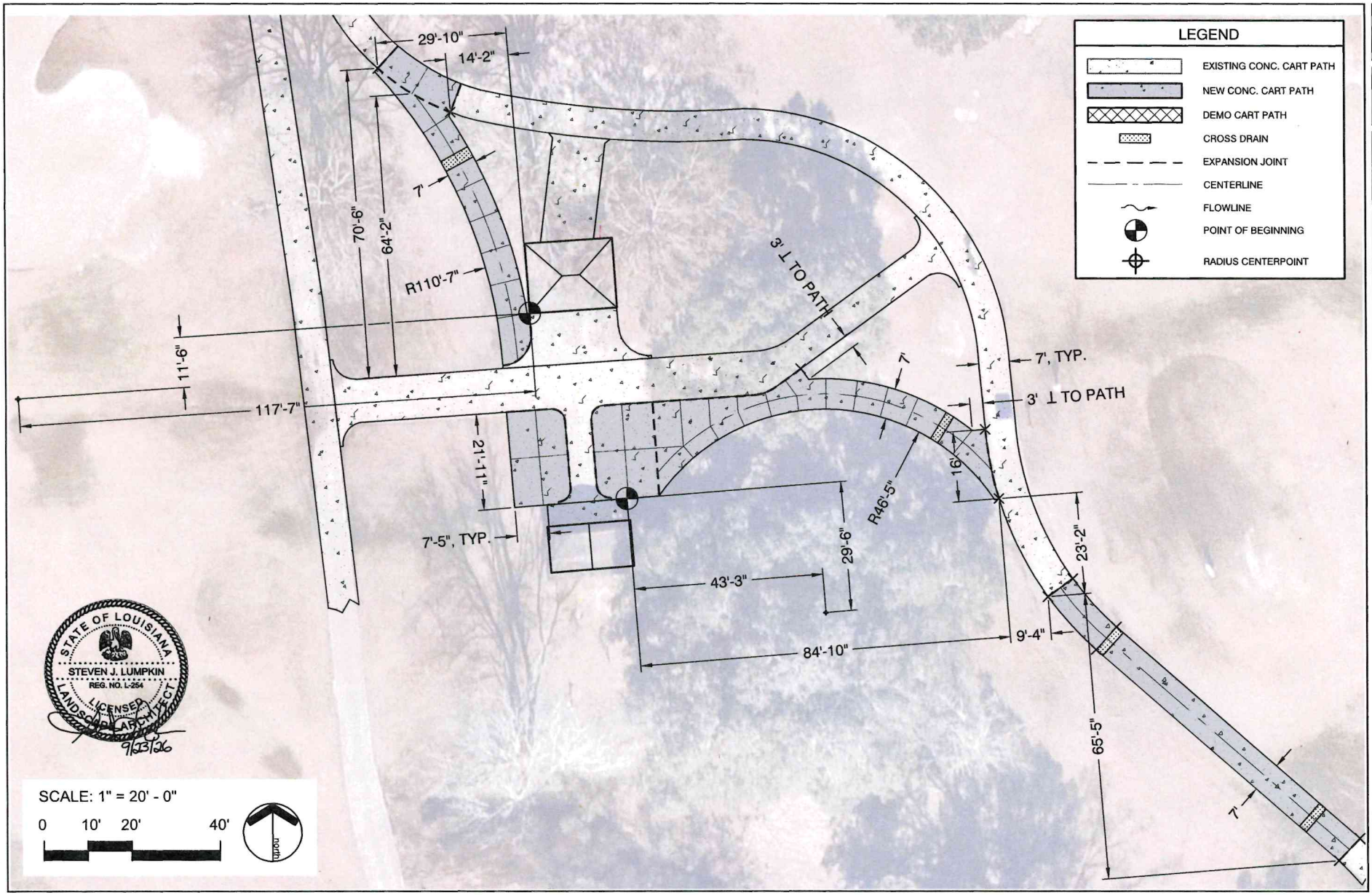
RECREATION and PARK COMMISSION for the PARISH of EAST BATON ROUGE PARISH PLANNING & ENGINEERING DEPT.

PAVING PLAN: SANTA MARIA GOLF - CART PATHS AT RESTROOMS

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BREC GOLF CART PATH RENOVATIONS

SANTA MARIA GOLF

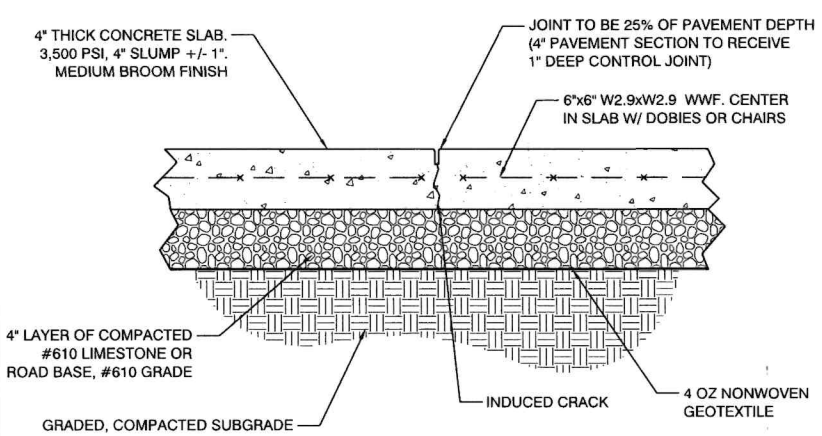
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LAYOUT PLAN: SANTA MARIA GOLF - CART PATHS AT RESTROOMS

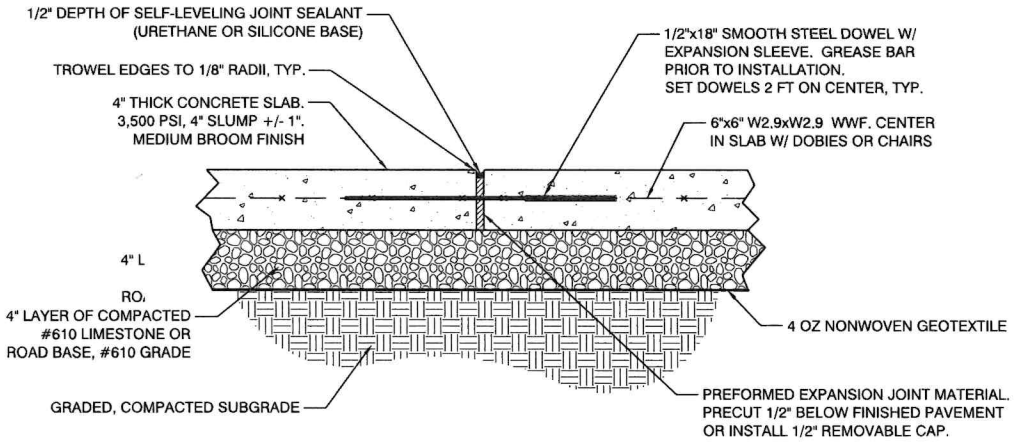
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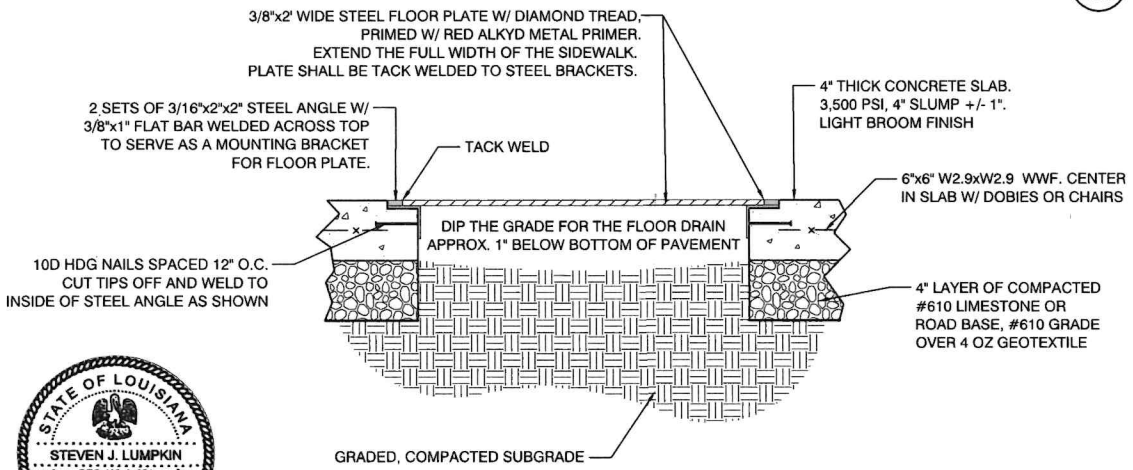


1 L5.1 **CONTROL JOINT FOR SLABS**
LONGITUDINAL SECTION N.T.S.

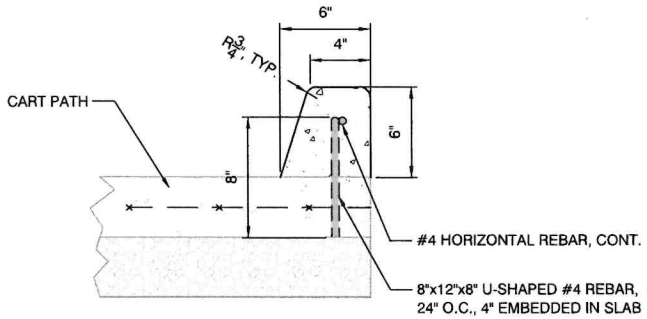


NOTE: IF USING MERCH REDWOOD FOR EXPANSION JOINT, PRECUT 1 INCH BELOW FINISHED PAVEMENT TO ALLOW FOR BACKER ROD INSERTION AND JOINT SEALANT.

2 L5.1 **EXPANSION JOINT FOR SLABS**
LONGITUDINAL SECTION N.T.S.



3 L5.1 **CROSS DRAIN FOR SIDEWALKS**
LONGITUDINAL SECTION N.T.S.



4 L5.1 **CONCRETE CURB**
CROSS SECTION N.T.S.

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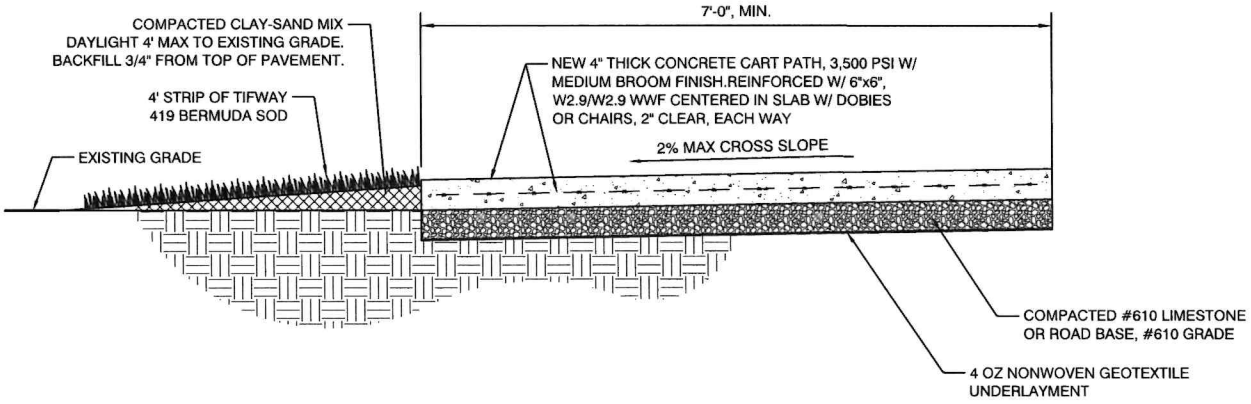
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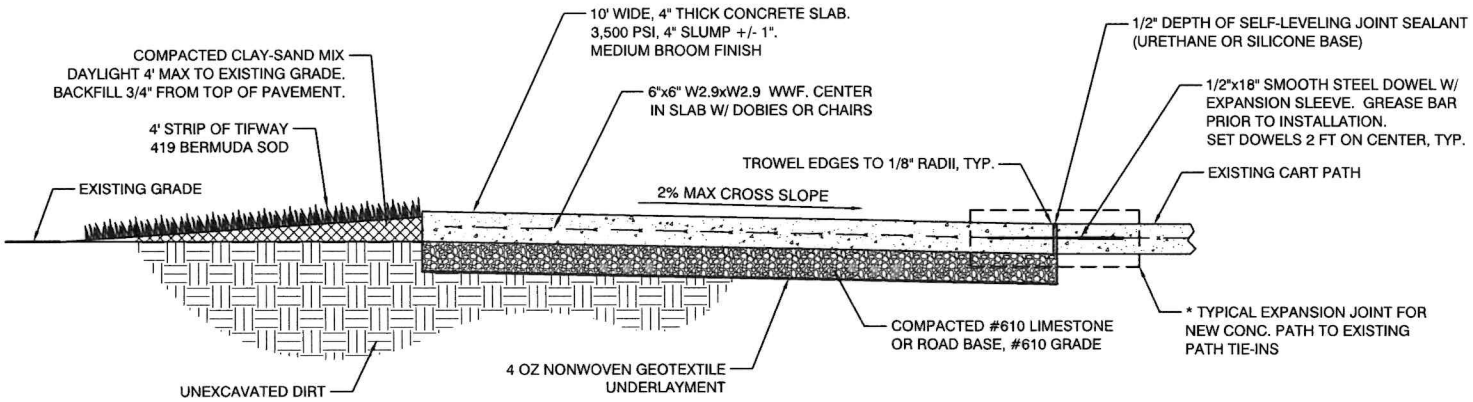
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1 L5.2 **NEW CONCRETE CART PATH, TYP.**
CROSS SECTION N.T.S.



2 L5.2 **CART PATH EXTENSION (CITY-BROOKS GOLF)**
CROSS SECTION N.T.S.

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PAVING DETAILS: CITY-BROOKS AND SANTA MARIA GOLF
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1 L5.3 **CROSS DRAIN SUPPORT BRACKETS**
IMAGE FOR REFERENCE ONLY N.T.S.



2 L5.3 **CROSS DRAIN SUPPORT BRACKETS**
IMAGE FOR REFERENCE ONLY N.T.S.



3 L5.3 **CROSS DRAIN SUPPORT BRACKETS**
IMAGE FOR REFERENCE ONLY N.T.S.



4 L5.3 **CROSS DRAIN SUPPORT BRACKETS**
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CROSS DRAIN IMAGES (FOR REFERENCE ONLY)
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1 / L5.4 **CROSS DRAIN SUPPORT BRACKETS**
IMAGE FOR REFERENCE ONLY N.T.S.



2 / L5.4 **CROSS DRAIN FLOOR PLATE**
IMAGE FOR REFERENCE ONLY N.T.S.



3 / L5.4 **CROSS DRAIN FLOOR PLATE**
IMAGE FOR REFERENCE ONLY N.T.S.

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