Deborah L. Clark, Purchasing Agent



1149 Pearl Street 1st Floor, Beaumont, TX 77701 OFFICE MAIN: (409) 835-8593 FAX: (409) 835-8456

LEGAL NOTICE Advertisement for Invitation for Bids February 21, 2023

Notice is hereby given that sealed bids will be accepted by the Jefferson County Purchasing Department for Invitation for Bid **(IFB 23-009/JW) Landside Road Pavement Repairs at the Jack Brooks Regional Airport.** This project is 100% funded by the Federal Aviation Administration (FAA) Airport Improvement Program (AIP Grant #37). Specifications for this project may be obtained from the Jefferson County website, <u>https://www.co.jefferson.tx.us/Purchasing/</u> or by calling 409-835-8593.

Bids are to be sealed and addressed to the Purchasing Agent with the bid number and name marked on the outside of the envelope or box. Bidders shall forward an original and two (2) copies of their bid to the address shown below. Jefferson County <u>does not</u> accept bids submitted electronically. Late bids will be rejected as non-responsive. Bids will be publicly opened and read aloud in the Jefferson County Engineering Department Conference Room (5th Floor, Historic Courthouse) 1149 Pearl Street, Beaumont, Texas 77701, at the time and date below. Bidders are invited to attend the sealed bid opening.

BID NAME:	Landside Road Pavement Repairs at the Jack Brooks Regional Airport
BID NUMBER:	IFB 23-009/JW
	DATE: 11:00 AM CT Wednesday, March 20, 2022

DUE BY TIME/DATE:	11:00 AM CT, Wednesday, Warch 29, 2023
MAIL OR DELIVER TO:	Jefferson County Purchasing Department
	1149 Pearl Street, 1 st Floor
	Beaumont, Texas 77701

There will be a Non-mandatory Pre-Bid Conference and Walk-Through at 2:00 PM CT on Tuesday, March 7, 2023, at the Airport Administration Conference Room located at 5000 Jerry Ware Blvd. Beaumont, Texas 77705. This conference will be the Bidder's <u>only opportunity</u> to view secured areas of the project.

The County shall require the bidder to furnish a bid security in the amount of five percent (5%) of the total contract cost. The bid bond must be executed with a surety company authorized to do business in the State of Texas. Within ten (10) days after the date of the signing of a contract, the bidder shall furnish a performance bond to the County for the full amount of the contract, if the contract exceeds one hundred thousand dollars (\$100,000). If the contract is for one hundred thousand dollars (\$100,000) or less, the County may provide that no money be paid to the contractor until completion and acceptance of the work or the fulfillment of the purchase obligation to the County.

Any questions relating to these bid requirements should be directed to at Jamey West, Contract Specialist at 409-835-8593 or via email at: <u>Jamey.West@jeffcotx.us</u>

Jefferson County encourages Disadvantaged Business Enterprises (DBEs), Minority/Women Business Enterprises (M/WBEs), and Historically Underutilized Businesses (HUBs) to participate in the bidding process. Jefferson County does not discriminate on the basis of race, color, national origin, sex, religion, age or disability in employment, or the provisions of services. Individuals requiring special accommodations are requested to contact our office at least seven (7) days prior to the bid due date at 409-835-8593. All interested firms are invited to submit a bid in accordance with the terms and conditions stated in this bid.

Bidders are strongly encouraged to carefully read the entire invitation, as failure to return and/or complete all required documentation <u>will result</u> in a response being declared as non-responsive.

Deborah Clasel

Deborah L. Clark, Purchasing Agent Jefferson County, Texas

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BID SUBMISSIONS:

One (1) Original and Two (2) Bid Copies; with all copies to include a Completed Copy of this specifications packet, drawings, and project manuals IN THEIR ENTIRETY. Drawings and project manuals -only- may be submitted as double-sided copies.

Each Bidder shall ensure that required parts of their bid submission are completed with accuracy and submitted as per the requirements within this specifications packet, including any addenda.

Additionally, Bidder shall monitor the Jefferson County Purchasing Department Website for any addenda, additional instructions, or bid updates. <u>https://www.co.jefferson.tx.us/Purchasing/</u>

Failure to return and/or complete all required documentation will result in a response being declared as non-responsive.

By execution of this document, the Vendor accepts all general and special conditions of the contract as outlined below and, in the specifications, and plans.

1. BIDDING.

1.1 BIDS.

All bids must be submitted on the bid form furnished in this package.

1.2 AUTHORIZED SIGNATURES.

The bid must be executed personally by the Vendor, duly authorized partner of the partnership, or duly authorized officer of the corporation. If executed by an agent, a power of attorney or other evidence of authority to act on behalf of the Vendor shall accompany the bid to become a valid bid.

1.3 LATE BIDS.

Bids must be in the office of the Jefferson County Purchasing Agent before or at the specified time and date bids are due. Bids received after the submission deadline shall be rejected as non-responsive and returned unopened.

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1.4 WITHDRAWAL OF BID PRIOR TO OPENING.

• A bid may be withdrawn before the opening date by submitting a written request to the Purchasing Agent. If time allows, the Bidder may submit a new bid. Bidder assumes full responsibility for submitting a new bid before or at the specified time and date bids are due. Jefferson County reserves the right to withdraw a request for bids before the opening date.

1.5 WITHDRAWAL OF BID AFTER OPENING.

Bidder agrees that its offer may not be withdrawn or cancelled by the Vendor for a period of ninety (90) days following the date and time designated for the receipt of bids unless otherwise stated in the bid and/or specifications.

1.6 BID AMOUNTS.

Bids shall show net prices, extensions where applicable and net total. In case of conflict between unit price and extension, the unit price will govern. Any ambiguity in the bid as a result of omission, error, unintelligible or illegible wording shall be interpreted in the favor of Jefferson County.

1.7 EXCEPTIONS AND/OR SUBSTITUTIONS.

All bids meeting the intent of the specifications and plans will be considered for award. Vendors taking exception to the specifications and plans, or offering substitutions, shall state these exceptions in the section provided. If bid is made on an article other than the one specified, which a Bidder considers comparable, the name and grade of said article must be specified in the bid and sufficient specifications and descriptive data must accompany same to permit thorough evaluation. The absence of stated exceptions and/or substitutions shall indicate that the Vendor has not taken any exceptions to the specifications and shall be responsible to perform in strict accordance with the specifications. As a matter of practice, Jefferson County rejects exception(s) and /or substitutions as non-responsive but reserves the right to accept any and/or all of the exception(s) and/or substitution(s) deemed to be in the best **interest of Jefferson County.**

1.8 ALTERNATES.

The Invitation for Bid and/or specifications may expressly allow Bidder to submit an alternate bid. Presence of such an offer shall not be considered an indication of non-responsiveness.

1.9 DESCRIPTIONS.

Unless otherwise specified, any reference to make, manufacturer and/or model used in the bid specifications is merely descriptive and not restrictive, and is used only to indicate type, style, or quality of material desired.

1.10 BID ALTERATIONS.

• Bids cannot be altered or amended after submission deadline. Any interlineations, alterations, or erasures made before opening time must be initialed by the signer of the bid, guaranteeing authenticity.

1.11 TAX EXEMPT STATUS.

Jefferson County is exempt from federal excise tax and state sales tax. Unless the bid form or specifications specifically indicate otherwise, the bid price must be net, exclusive of above-mentioned taxes and will be so construed. Therefore, the bid price shall not include taxes.

1.12 QUANTITIES.

Quantities indicated are estimated quantities only and are not a commitment to buy. Approximate usage does not constitute an order, but only implies the probable quantity that will be used. Commodities will be ordered on an as-needed basis. Bidder is responsible for accurate final counts.

1.13 BID AWARD.

Award of contract shall be made to the most responsible, responsive Bidder, whose offer is determined to be the best value, taking into consideration the relative importance of price. Jefferson County reserves the right to be the sole judge as to whether items bid will serve the purpose intended.

Jefferson County reserves the right to award based upon individual line items, sections or total bid.

1.14 SILENCE OF SPECIFICATIONS FOR COMPLETE UNITS.

All materials, equipment and/or parts that will become a portion of the completed work, including items not specifically stated herein but, necessary to render the service(s) complete and operational per the specifications, are to be included in the bid price. Vendor may be required to furnish evidence that the service, as bid, will meet or exceed these requirements.

1.15 ADDENDA.

Any interpretations, corrections or changes to the specifications and plans will be made by addenda no later than forty-eight (48) hours prior to the bid opening. Addenda will be posted on the Purchasing web site. Vendors are responsible for monitoring the web site in order to remain informed on addenda. Vendors shall acknowledge receipt of all addenda with submission of bid.

1.16 GENERAL BID BOND/SURETY REQUIREMENTS.

• Failure to furnish bid bond/surety, if requested, will result in bid being declared non-responsive. Non-responsive bids will not be considered for award.

• 1.17 GENERAL INSURANCE REQUIREMENTS.

Failure to furnish Affidavit of Insurance, if required in these specifications, will result in bid being declared non-responsive. Non-responsive bids will not be considered for award.

1.18 **RESPONSIVENESS.**

A responsive bid shall substantially conform to the requirements of this Invitation to Bid and/or specifications contained herein. Bidders who substitute any other terms, conditions, specifications and/or requirements or who qualify their bids in such a manner as to nullify or limit their liability to the contracting entity shall have their bids

deemed non-responsive. Also, bids containing any clause that would limit contracting authority shall be considered non-responsive. Examples of non-responsive bids include but shall not be limited to: a) bids that fail to conform to required delivery schedules as set forth in the bid request; b) bids with prices qualified in such a manner that the bid price cannot be determined, such as with vague wording that may include "price in effect at the time of delivery," and c) bids made contingent upon award of other bids currently under consideration.

1.19 **RESPONSIBLE STANDING OF BIDDER.**

To be considered for award, Bidder must at least: have the ability to obtain adequate financial resources, be able to comply with required or proposed delivery/completion schedule, have a satisfactory record of performance; have a satisfactory record of integrity and ethics, and be otherwise qualified and eligible to receive award.

1.20 CONFIDENTIAL/PROPRIETARY INFORMATION.

If any material in the bid submission is considered by Bidder to be confidential or proprietary information (including manufacturing and/or design processes exclusive to the Bidder), Bidder <u>must</u> clearly mark the applicable pages of bid submission to indicate each claim of confidentiality. Additionally, Bidder must include a statement on company letterhead identifying all Bid Submission section(s) and page(s) that have been marked as confidential. Jefferson County will protect from public disclosure such portions of a bid, unless directed otherwise by legal authority, including existing open records acts. Merely making a blanket claim that the entire bid submission is protected from disclosure because it contains some proprietary information is not acceptable, and will make the entire bid submission subject to release under the Texas Public Information Act.

By submitting a bid, Bidder agrees to reproduction by Jefferson County, without cost or liability, of any copyrighted portions of Bidder's bid submission or other information submitted by Bidder.

1.21 PUBLIC BID OPENING.

Bidders are invited to be present at the opening of bids. After the official opening of bids, a period of not less than one week is necessary to evaluate bids. The amount of time necessary for bid evaluation may vary and is determined solely by the County. Following the bid evaluation, all bids submitted are available for public review.

2. PERFORMANCE.

2.1 DESIGN, STRENGTH, AND QUALITY.

• Design, strength, and quality of materials and workmanship must conform to the highest standards of manufacturing and engineering practices. The apparent silence of specifications and/or plans as to any detailed description concerning any point shall be regarded as meaning that only the best commercial practices are to prevail. All interpretations of these specifications and/or plans shall be made on the basis of this statement.

2.2 AGE AND MANUFACTURE.

All tangible goods being bid must be new and unused, unless otherwise specified, in first-class condition, of current manufacture, and furnished ready to use. All items not specifically mentioned that are required for a complete unit shall be furnished.

2.3 DELIVERY LOCATION.

All deliveries will be made to the address(es) specified on the purchase order during normal working hours of 8:00 am CT to 4:00 pm CT, Monday through Friday, unless otherwise authorized by the Purchasing Agent or designee.

2.4 DELIVERY SCHEDULE.

Delivery time may be an important consideration in the evaluation of best value. The maximum number of days necessary for delivery ARO shall be stated in the space, if provided, on the bid form.

2.5 DELIVERY CHARGES.

All delivery and freight charges, F.O.B. destination shown on Jefferson County purchase order, as necessary to perform contract are to be included in the bid price.

2.6 INSTALLATION CHARGES.

All charges for assembly, installation and set-up shall be included in the bid price. Unless otherwise stated, assembly, installation and set-up will be required.

2.7 OPERATING INSTRUCTIONS AND TRAINING.

Clear and concise operating instructions and descriptive literature will be provided in English, if requested. On-site detailed training in the safe and efficient use and general maintenance of item(s) purchased shall be provided as needed at the request of Jefferson County. Instructions and training shall be at no additional cost to the County.

2.8 STORAGE.

Bidder agrees to provide storage of custom ordered materials, if requested, for up to thirty (30) calendar days.

2.9 COMPLIANCE WITH FEDERAL, STATE, COUNTY, AND LOCAL LAWS.

Bids must comply with all federal, state, county and local laws, including, but not limited to, all applicable standard safety, emission, and noise control requirements. Any vehicles or equipment shall contain all standard safety, emission, and noise control requirements required for the types and sizes of equipment at the time of their manufacture. The contractor agrees, during the performance of work or service, to comply with all applicable codes and ordinances of Jefferson County or the State of Texas as they may apply, as these laws may now read, or as they may hereafter be changed or amended.

2.10 OSHA.

The Bidder will certify all equipment complies with all regulations and conditions stipulated under the Williams-Steiger Occupational Safety and Health Act of 1971, as amended. The successful Bidder will further certify that all items furnished under this project will conform and comply with federal and State of Texas OSHA standards. The successful Bidder will agree to indemnify and hold harmless Jefferson County for any and all damages that may be assessed against the County.

2.11 PATENTS AND COPYRIGHTS.

The successful Vendor agrees to protect the County from claims involving infringements of patents and/or copyrights.

2.12 SAMPLES, DEMONSTRATIONS, AND TESTING.

At Jefferson County's request and direction, Bidder shall provide product samples and/or testing of items bid to ensure compliance with specifications. Samples, demonstrations and/or testing may be requested at any point prior to or following bid award. Samples, demonstrations and/or testing may be requested upon delivery and/or any point during the term of resulting contract. All samples (including return thereof), demonstrations, and/or testing shall be at the expense of the Bidder/Vendor.

2.13 ACCEPTABILITY.

All articles enumerated in the bid shall be subject to inspection by an officer designated for that purpose by Jefferson County. If found inferior to the quality called for, or not equal in value to the specifications, deficient in workmanship or otherwise, this fact shall be certified to the Purchasing Agent, who shall have the right to reject the whole or any part of the same. Items and/or work determined to be contrary to specifications must be replaced at the vendor's expense. Inferior items not retrieved by the vendor within thirty (30) calendar days, or an otherwise agreed upon time, shall become the property of the County. If disposal of such items warrants an expense, an amount equal to the disposal expense will be deducted from amounts payable to the vendor.

2.14 MAINTENANCE.

Maintenance required for equipment bid should be available in Jefferson County by a manufacturer authorized maintenance facility. Cost for this service shall be shown on the bid sheet as requested or on a separate sheet, as required. If Jefferson County opts to include maintenance, it shall be so stated in the purchase order and said cost will be included. Service will commence only upon expiration of applicable warranties and should be priced accordingly.

2.15 MATERIAL SAFETY DATA SHEETS.

Under the "Hazardous Communications Act," common known as the "Texas Right to Know Act," a Bidder must provide the user department, with each delivery, material safety data sheets which are applicable to hazardous substances defined in the Act. Failure of the Bidder to furnish this documentation, will be cause to reject any bid applying thereto. **2.16 EVALUATION.**

Evaluation shall be used as a determinant as to which services are the most efficient and/or most economical for the County. It shall be based on all factors having a bearing on price and performance of the items in the user environment. All bids are subject to tabulation by the Jefferson County Purchasing Department and recommendation to Jefferson County Commissioners' Court. Compliance with all bid requirements and needs of the using department are considered in evaluating bids. Pricing is not the only criteria for making a recommendation. The Jefferson County Purchasing Department reserves to right to contact any Bidder, at any time, to clarify, verify or requirement information with regard to this bid.

3. PURCHASE ORDERS AND PAYMENT.

3.1 PURCHASE ORDERS.

A purchase order(s) shall be generated by the Jefferson County Purchasing Agent to the successful vendor. The purchase order number must appear on all itemized invoices and packing slips. The County will not be held responsible for any work orders placed and/or performed without a valid current purchase order number. Payment will be made for all services rendered and accepted by the contract administrator for which a valid invoice has been received.

3.2 INVOICES.

All invoices shall reference the Purchase Order number. Invoices shall reference the bid item number or a detailed description for each item invoiced. If an item purchased and itemized on the invoice does not correspond to an item in any of the categories awarded to the vendor, invoice shall reference the item as "N/C" to indicate that it is a non-contract item. This requirement is to assist the County in verifying contract pricing on all invoices. Payment will be made under terms of net thirty (30) days unless otherwise agreed upon by seller and the purchasing department.

3.3 PROMPT PAYMENT.

In accordance with the State of Texas Prompt Payment Act, Article 601f V.T.C.S., payment will be made after receive and acceptance by the County of the merchandise ordered and of a valid invoice. Successful Bidder(s) is required to pay subcontractors within ten (10) days after the successful Bidder receives payment from the County.

3.4 FUNDING.

Jefferson County is operated and funded on an October 1 to September 30 basis; accordingly, the County reserves the right to terminate, without liability to the County, any contract for which funding is not available.

4. CONTRACT.

4.1 CONTRACT DEFINITION.

The General Conditions of Bidding and Terms of Contract, Specifications, Plans, Bidding Forms, Addenda, and any other documents made a part of this bid shall constitute the complete bid. This bid, when duly accepted by Jefferson County, shall constitute a contract equally binding between the successful Bidder and Jefferson County.

4.2 CHANGE ORDER.

No different or additional terms will become part of this contract with the exception of a change order. No oral statement of any person shall modify or otherwise change, or affect the terms, conditions or specifications stated in the resulting contract. All change orders to the contract will be made in writing and at the discretion and approval of Jefferson County. No change order will be binding unless signed by an authorized representative of the County and the vendor.

4.3 PRICE RE-DETERIMINATION.

A price re-determination may be requested at the time of annual renewal. All requests for price re-determination shall be in written form. Cause for such request, i.e., manufacturer's direct cost, postage rates, Railroad Commission rates, Federal/State minimum wage law, Federal/State unemployment taxes, F.I.C.A, Insurance Coverage Rates, etc., shall be substantiated in writing by the source of the cost increase. The Bidder's past experience of honoring contracts at the bid price will be an important consideration in the evaluation of the lowest and best bid. Jefferson County reserves the right to accept or reject any/all requests for price re-determination as it deems to be in the best interest of the County.

4.4 TERMINATION.

Jefferson County reserves the right to terminate the contract for default if the Bidder breached any of the terms therein, including warranties of Bidder or if the Bidder becomes insolvent or commits acts of bankruptcy. Such right of termination is in addition to and not in lieu of any other remedies which Jefferson County may have in law or equity. Default may be construed as, but not limited to, failure to deliver the proper goods and/or service within the proper amount of time, and/or to properly perform any and all services required to Jefferson County's satisfaction and/or to meet all other obligations and requirements. Contracts may be terminated without cause upon thirty (30) days' written notice to either party unless otherwise specified. Jefferson County reserves the right to award canceled contract to the next lowest Bidder. Bidder, in submitting this bid, agrees that Jefferson County shall not be liable to prosecution for damages in the event that the County declares the Bidder in default.

4.5 CONFLICT OF INTEREST.

Employees of the County are not permitted to maintain financial interest in, or receive payment, directly or indirectly, borrow from, lend to, invest in, or engage in any substantial financial transaction with any individual, organization, supplier, or subcontractor who does business with the County without disclosure. When conflict of interest is discovered, it shall be grounds for termination of contract.

4.6 INTEREST BY PUBLIC OFFICIALS.

No public official shall have interest in this contract, in accordance with Texas Local Government Code.

4.7 PRE-AWARD/CONTRACT CONTACT BETWEEN COUNTY AND VENDORS.

The Jefferson County Purchasing Department may initiate discussions with selected vendors; however, discussions <u>may not</u> be initiated by vendors.

The Jefferson County Purchasing Department expects to conduct discussions with vendor's representatives authorized to contractually obligate the vendor with an offer. Vendors shall not contact any Jefferson County personnel during the IFB process without the express permission from the Jefferson County Purchasing Agent. The Purchasing Agent will disqualify any vendor who has made site visits, contacted Jefferson County personnel, or distributed any literature without authorization from the Jefferson County Purchasing Department.

All correspondence relating to this IFB, from advertisement to award shall be sent to the Jefferson County Purchasing Department. All presentations and/or meetings between Jefferson County and the vendor relating to this IFB shall be coordinated by the Jefferson County Purchasing Department.

Selected vendors may be expected to make a presentation/product demonstration to an Evaluation Committee. Proposals, vendor presentations, and product/service evaluations may develop into negotiating sessions with the vendor(s) as selected by the Evaluation Committee. Jefferson County expects to conduct negotiations with vendor representatives authorized to contractually obligate the vendor with an offer. If vendor is unable to agree to contract terms and conditions, Jefferson County reserves the right to terminate contract negotiations with that vendor and initiate negotiations with another vendor. In addition to a presentation, visits by the Evaluation Committee to representative vendor client sites may be conducted where the proposed solution can be demonstrated in a production environment.

4.8 INJURIES OR DAMAGES RESULTING FROM NEGLIGENCE.

Successful vendor shall defend, indemnify and save harmless Jefferson County and all its officers, agents and employees from all suits, actions, or other claims of any character, name and description brought for or on account of any injuries or damages received or sustained by any person, persons, or property on account of any negligent act or fault of the successful vendor, or of any agent, employee, subcontractor or supplier in the execution of, or performance under, any contract which may result from bid award. Successful vendor shall pay any judgment with cost which may be obtained against Jefferson County growing out of such injury or damages.

4.9 WARRANTY.

The successful vendor shall warrant that all materials utilized in the performance of this contract shall conform to the proposed specifications and/or all warranties as stated in the Uniform Commercial Code and be free from all defects in material, workmanship and title.

4.10 UNIFORM COMMERCIAL CODE.

The successful vendor and Jefferson County agree that both parties have all rights, duties, and remedies available as stated in the Uniform Commercial Code.

4.11 VENUE.

This agreement will be governed and construed according to the laws of the State of Texas. This agreement is performable in the County of Jefferson, Texas.

4.12 SALE, ASSIGNMENT, OR TRANSFER OF CONTRACT.

The successful vendor shall not sell, assign, transfer or convey this contract, in whole or in part, without the prior written consent of Jefferson County.

4.13 SILENCE OF SPECIFICATIONS.

The apparent silence of these specifications as to any detailed description concerning any point, shall be regarded as meaning that only the best commercial practices are to prevail. All interpretations of these specifications shall be made on the basis of this statement.

5. **REJECTION OR WITHDRAWAL.**

Submission of additional terms, conditions or agreements with the bid document are grounds for deeming a bid non-responsive and may result in bid rejection. Jefferson County reserves the right to reject any and all bids and to waive any informalities and minor irregularities or defects in bids. Bids may be withdrawn in person by a bidder or authorized representative, provided their identity is made known and a receipt is signed for the bid, but only if the withdrawal is made prior to the time set for receipt of bids. Bids are an irrevocable offer and may not be withdrawn within <u>90</u> days after opening date.

6. EMERGENCY/DECLARED DISASTER REQUIREMENTS.

In the event of an emergency or if Jefferson County is declared a disaster area, by the County, State, or Federal Government, this Acceptance of Offer may be subjected to unusual usage. Contractor shall service the county during

such an emergency or declared disaster under the same terms and conditions that apply during non-emergency/disaster conditions. The pricing as specified in this Acceptance of Offer shall apply to serving the County's needs regardless of the circumstances. If Contractor is unable to supply the services under the terms of the Acceptance of Offer, then Contractor shall provide proof of such disruption and a copy of the invoice from Contractor's supplier(s).

Additional profit margin as a result of supplying services during an emergency or declared disaster shall not be permitted. In the event that additional equipment, supplies, and materials are required during the declared disaster, additional shipping, handling and drayage fees may apply.

7. AWARD.

The bid will be awarded to the responsible, responsive bidder(s) whose bid, conforming to the solicitation, will be most advantageous to Jefferson County – price and other factors considered. Unless otherwise specified in this IFB, Jefferson County reserves the right to accept a bid in whole or in part, and to award by item or by group, whichever is deemed to be in the best interest of Jefferson County. Any bidder who is in default to Jefferson County at the time of submittal of the bid shall have that bid rejected.

Jefferson County reserves the right to clarify any contractual terms with the concurrence of the Contractor; however, any substantial non-conformity in the offer, as determined by Jefferson County, shall be deemed non-responsive and the offer rejected.

In evaluating bids, Jefferson County shall consider the qualifications of the bidders, and, where applicable, operating costs, delivery time, maintenance requirements, performance data, and guarantees of materials and equipment.

In addition, Jefferson County may conduct such investigation as it deems necessary to assist in the evaluation of a bid and to establish the responsibility, qualifications, and financial ability of the bidders to fulfill the contract.

Jefferson County reserves the right to award this contract on the basis of **lowest and best bid** in accordance with the laws of the State of Texas, to waive any formality or irregularity, to make awards to more than one offeror, and/or to reject any or all bids. In the event the lowest dollar offeror meeting specifications is not a awarded a contract, Offeror may appear before the Commissioners' Court and present evidence concerning Offeror responsibility after officially notifying the Office of the Purchasing Agent of Offeror's intent to appear.

8. CONTRACT.

A response to an IFB is an offer to contract with Jefferson County based upon the terms, conditions, and specifications contained in the IFB. Bids do not become contracts unless and until they are executed by Jefferson County, eliminating a formal signing of a separate contract. For that reason, all of the terms and conditions of the contract are contained in the IFB, unless any of the terms and conditions is modified by an IFB Amendment, a Contract Amendment, or by mutually agreed terms and conditions in the contract documents.

9. WAIVER OF SUBROGATION.

Bidder and bidder's insurance carrier waive any and all rights whatsoever with regard to subrogation against Jefferson County as an indirect party to any suit arising out of personal or property damages resulting from bidder's performance under this agreement.

10. FISCAL FUNDING.

A multi-year contract (if requested by the specifications) continuing as a result of an extension option must include fiscal funding out. If, for any reason, funds are not appropriated to continue the contract, said contract shall become null and void.

11. BID RESULTS.

Bid results are not provided in response to telephone inquiries. A preliminary tabulation of bids received will be posted on the Purchasing web page at https://www.co.jefferson.tx.us/Purchasing/ as soon as possible following bid opening. A final tabulation will be posted following bid award, and will also be available for review in the Purchasing Department.

12. CHANGES AND ADDENDA TO BID DOCUMENTS.

Each change or addendum issued in relation to this IFB document will be on file in the Office of the Purchasing Agent, and will be posted on the Purchasing web site as soon as possible. It shall be the bidder's responsibility to make inquiry as to change or addenda issued, and to monitor the web site. All such changes or addenda shall become part of the contract and all bidders shall be bound by such addenda. Information on all changes or addenda issued will be available at the Office of the County Purchasing Agent.

13. SPECIFICATIONS.

Unless otherwise stated by the bidder, the bid will be considered as being in accordance with Jefferson County's applicable standard specifications, and any special specifications outlined in the bid document. References to a particular trade name, manufacturer's catalogue, or model number are made for descriptive purposes to guide the bidder in interpreting the requirements of Jefferson County, and should not be construed as excluding bids on other types of materials, equipment, and supplies. However, the bidder, if awarded a contract, will be required to furnish the particular item referred to in the specifications or description unless departure or substitution is clearly noted and described in the bid.

Jefferson County reserves the right to determine if equipment/ product being bid is an acceptable alternate. All goods shall be new unless otherwise so stated in the bid. Any unsolicited alternate bid, or any changes, insertions, or omissions to the terms and conditions, specifications, or any other requirements of the bid, may be considered non-responsive.

14. DELIVERY.

Bids shall include all charges for delivery, packing, crating, containers, etc. Unless otherwise stated by the bidder (<u>in writing on the included Bid Form</u>), prices bid will be considered as being based on F.O.B. destination/delivered freight included.

15. INTERPRETATION OF BID AN/OR CONTRACT DOCUMENTS.

All inquiries shall be made within a reasonable time prior to the date and time fixed for the bid opening, in order that a written response in the form of an addendum, if required, can be processed before the bids are opened. Inquiries received that are not made in a timely fashion may or may not be considered.

16. CURRENCY.

Prices calculated by the bidder shall be stated in U.S. dollars.

17. PRICING.

Prices shall be stated in units of quantity specified in the bid documents. In case of discrepancy in computing the amount of the bid, the unit price shall govern.

18. NOTICE TO PROCEED/PURCHASE ORDER.

The successful bidder may not commence work under this contract until authorized to do so by the Purchasing Agent.

19. CERTIFICATION.

By signing the offer section of the Offer and Acceptance page, Bidder certifies:

- The submission of the offer did not involve collusion or other anti-competitive practices.
- The Bidder has not given, offered to give, nor intends to give at any time hereafter, any economic opportunity, future employment, gift, loan, gratuity, special discount, trip, favor, or service to any public servant in connection with the submitted offer.
- The Bidder hereby certifies that the individual signing the bid is an authorized agent for the Bidder and has the authority to bind the Bidder to the contract.

20. DEFINITIONS.

"County" – Jefferson County, Texas.

"Contractor" – The Bidder whose proposal is accepted by Jefferson County.

21. DISADVANTAGED BUSINESS ENTERPRISES (DBEs), MINORITY/WOMEN BUSINESS ENTERPRISES (M/WBEs), AND HISTORICALLY UNDERUTILIZED BUSINESSES (HUBs)

It is the desire of Jefferson County to increase the participation of Disadvantaged (DBE), Minority (MBE), Women-Owned (WBE), and Historically Underutilized (HUB) Business Enterprises in its contracting and procurement programs. While the County does not have any preference or set aside programs in place, it is committed to a policy of equitable participation for these firms.

Affirmative Steps pursuant to 2 CFR §200.321

Good faith efforts will be taken to assure small and minority firms are used whenever possible, consistent with 49 CFR part 26. These steps and efforts include, but not limited to:

- Including qualified small business and minority forms on solicitation lists
- Assure that small businesses and minority firms are solicited whenever they are potential sources. Consultation with Airports Division, Office of Civil Rights and or State transportation offices is used.
- When economically feasible, the total requirements will be divided into tasks to permit maximum small business and DBE firm participation.
- Encourage consultants to subcontract portions of the work, even when they might otherwise perform the work with their own forces.

For the purposes of this IFB, respondents are to provide the following information:

- Certification of any DBEs on this project.
- Percentage of project DBEs will work on, if part of a team.
- The Bidder must clearly state that they have no DBEs on their team, if applicable. If Bidder has minority businesses as part of a team or is a minority business registered with the State of Texas but is not certified as a DBE, that information must also be clearly stated in bid response.

SECTION 2: FEDERAL MANDATED CONTRACT PROVISIONS

Some or all of the provisions in this section will be incorporated into a professional service agreement as a result of this solicitation.

BREACH OF CONTRACT TERMS/REMEDIES

Source: 2 CFR § 200 Appendix II (A)

Applicability: This provision requires Jefferson County, as the Airport Sponsor, to incorporate administrative, contractual, or legal remedies if contractor/consultant violate or breach contract terms. The sponsor must also include appropriate penalties and sanctions. Language acceptable to meet the intent of this requirement will be included in contractual documents.

This requirement applies to all FEMA grant and cooperative agreement programs

Contract Types: This provision is required for all contracts that exceed the simplified acquisition threshold as stated in 2 CFR § 200, Appendix II (A). This threshold is occasionally adjusted for inflation and is now equal to \$150,000.

TERMINATION OF CONTRACT (FOR CAUSE AND CONVENIENCE)

Source: 2 CFR § 200 Appendix II (B)

FAA Advisory Circular 150/5370-10, Section 80-09

Applicability: This provision requires Jefferson County, as the Airport Sponsor, to incorporate in all contracts over \$10,000, a provision that addresses termination for cause and termination for convenience, by the sponsor. The contractual provision must address the manner by which the sponsor's contract will be affected and the basis for settlement. Language acceptable to meet the intent of this requirement will be included in contractual documents.

This requirement applies to all FEMA grant and cooperative agreement programs.

Contract Types: This provision is required for all contracts that exceed \$10,000.

EQUAL EMPLOYMENT OPPORTUNITY

Source:	2 CFR § 200 Appendix II (C)	41 CFR § 60-1.4
	Executive Order 11246	41 CFR § 60-4.3

Applicability: The purpose of this provision is to provide equal opportunity for all persons, without regard to race, color, religion, sex, or national origin who are employed or seeking employment with contractors performing under a federally assisted construction contract. There are two provisions, a construction clause and a specification clause.

The equal opportunity contract clause must be included in any contract or subcontract when the amount exceeds \$10,000. Once the equal opportunity clause is determined to be applicable, the contract or subcontract must include the clause for the remainder of the year, regardless of the amount of the contract.

This requirement applies to all FEMA grant and cooperative agreement programs.

Contract Types: This provision is required for all contracts that exceed \$10,000.

Use of Provision: 41 CFR 60-1.4 provides the mandatory **contract** language. 41 CFR 60-4.3 provides the mandatory **specification** language. The sponsor will incorporate these clauses without modification.

Note: Any contracts resulting from this IFB will have the requisite language as set forth in 2 CFR 200 App II, 41 CFR 60-1.4, 41 CFR 60-4.3, and Executive Order 11246.

DAVIS-BACON REQUIREMENTS

Source: 2 CFR § 200 Appendix II (D)

29 CFR Part 5

Applicability: The Davis-Bacon Act ensures that laborers and mechanics employed under the contract receive pay no less than the locally prevailing wages and fringe benefits as determined by the Department of Labor.

For Professional Services: The emergence of different project delivery methods has created situations where Professional Service Agreements (PSAs) includes tasks that meet the definition of construction, alteration, or repair as defined in 29 CFR Part 5. If such tasks result in work that qualifies as construction, alteration, or repair and it exceeds \$2,000, the PSA must incorporate this clause.

Use of Provision: 29 CFR 5 establishes the specific language the sponsor must use without modification. A/E firms that employ laborers and mechanics on a task that meets the definition of construction, alteration, or repair are acting as a contractor. The sponsor may not substitute the term "Contractor" for "Consultant" in such instances.

COPELAND ANTI-KICKBACK

Source: 2 CFR § 200 Appendix II (D)

29 CFR Part 3 & Part 5

Applicability: The Copeland Act (18 USC 874 and 40 USC 3145) makes it unlawful to induce by force, intimidation, threat of dismissal from employment, or by any other manner, any person employed in the construction or repair of public buildings or public works, financed in whole or in part by the United States, to give up any part of the compensation to which that person is entitled under a contract of employment. The Copeland Act also requires each contractor and subcontractor to furnish weekly a statement of compliance with respect to the wages paid each employee during the preceding week.

It DOES NOT apply to the FEMA Public Assistance Program.

For Professional Services: The emergence of different project delivery methods has created situations where Professional Service Agreements (PSAs) includes tasks that meet the definition of construction, alteration, or repair as defined in 29 CFR Part 5. If such tasks result in work that qualifies as construction, alteration, or repair and it exceeds \$2,000, the PSA must incorporate the Copeland Anti-kickback provision.

Use of Provision: 29 CFR 5 establishes the specific language the sponsor must use without modification. A/E firms that employ laborers and mechanics on a task that meets the definition of construction, alteration, or repair are acting as a contractor. The sponsor may not substitute the term "Contractor" for "Consultant" in such instances.

CONTRACT WORK HOURS AND SAFETY STANDARDS ACT REQUIREMENTS

Source: 2 CFR § 200 Appendix II (E) 29 CFR Part 5

40 U.S.C. § 3701-3708

Applicability: Contract Workhours and Safety Standards Act Requirements (CWHSSA) requires contractors and subcontractors on covered contracts to pay laborers and mechanics employed in the performance of the contracts one and one-half times their basic rate of pay for all hours worked over 40 in a workweek and prohibits unsanitary, hazardous, or dangerous working conditions on federally assisted projects. The Wage and Hour division (WHD) within the U.S. Department of Labor (DOL) enforces the compensation requirements of this Act, while DOL's Occupational Safety and Health Administration (OSHA) enforces the safety and health requirements.

Jefferson County urges all contractors, regardless of funding sources for projects, to follow all applicable Federal and State labor laws.

For Professional Services: This provision applies to professional service agreements that exceed \$100,000 and employs laborers, mechanics, watchmen, and guards This includes members of survey crews and exploratory drilling operations.

Use of Provision: The following text will be included in applicable contracts without modification:

- Overtime requirements. No contractor or subcontractor contracting for any part of the contract work which may require or involve the employment of laborers or mechanics shall require or permit any such laborer or mechanic in any workweek in which he or she is employed on such work to work in excess of forty hours in such workweek unless such laborer or mechanic receives compensation at a rate not less than one and one-half times the basic rate of pay for all hours worked in excess of forty hours in such workweek.
- 2. Violation; liability for unpaid wages; liquidated damages. In the event of any violation of the clause set forth in paragraph (1) of this clause, the Contractor and any subcontractor responsible therefor shall be liable for the unpaid wages. In addition, such contractor and subcontractor shall be liable to the United States (in the case of work done under contract for the District of Columbia or a territory, to such District or to such territory), for liquidated damages. Such liquidated damages shall be computed with respect to each individual laborer or mechanic, including watchmen and guards, employed in violation of the clause set forth in paragraph (1) of this section, in the sum of \$500.00 for each calendar day on which such individual was required or permitted to work in excess of the standard workweek of forty hours without payment of the overtime wages required by the clause set forth in paragraph (1) of this clause.
- 3. Withholding for unpaid wages and liquidated damages. Jefferson County shall upon its own action or upon written request of an authorized representative of the Department of Labor withhold or cause to be withheld, from any moneys payable on account of work performed by the contractor or subcontractor under any such contract or any other Federal contract with the same prime contractor, or any other federally-assisted contract subject to the Contract Work Hours and Safety Standards Act, which is held by the same prime contractor, such sums as may be determined to be necessary to satisfy any liabilities of such contractor or subcontractor for unpaid wages and liquidated damages as provided in the clause set forth in paragraph (2) of this clause.
- 4. Subcontracts. The contractor or subcontractor shall insert in any subcontracts the clauses set forth in paragraph (1) through (4) of this section and also a clause requiring the subcontractors to include these clauses in any lower tier subcontracts. The prime contractor shall be responsible for compliance by any subcontractor or lower tier subcontractor with the clauses set forth in paragraphs (1) through (4) of this clause.

RIGHTS TO INVENTIONS

Source: 2 CFR § 200 Appendix II (F)

37 CFR § 401

Applicability: This provision applies to all contracts and subcontracts with small business forms or nonprofit organizations that include performance of *experimental, developmental, or research work*. This clause is not applicable to construction, equipment, or professional service contracts unless the contract includes *experimental, developmental, or research work*. This requirement applies to "funding agreements," but it DOES NOT apply to the Public Assistance, Hazard Mitigation Grant Program, Fire Management Assistance Grant Program, Crisis Counseling Assistance and Training Grant Program, Disaster Case Management Grant Program, and Federal Assistance to Individuals and Households – Other Needs Assistance Grant Program, as FEMA awards under these programs do not meet the definition of "funding agreement."

Use of Provision: When applicable, the sponsor's language in the contract must fully satisfy the requirements of Appendix II to 2 CFR part 200.

CLEAN AIR AND WATER POLLUTION CONTROL

Source: 2 CFR § 200 Appendix II (G)

29 CFR Part 5

Applicability: This provision is required on all contracts and lower tier contracts that exceed \$150,000.

Use of Provision: The following language will be included in applicable contracts:

 Contractor agrees to comply with all applicable standards, orders, and regulations pursuant to the Clean Air Act (42 U.S.C. § 7401-7671q) and the Federal Water Pollution Control Act, as amended (33 U.S.C. § 1251-13870). The contractor agrees to report any violation to the owner immediately upon discovery. The owner assumes responsibility for notifying the EPA and the FAA.

DEBARMENT AND SUSPENSION

Source:	2 CFR Part 180 (Subpart C)	2 CFR Part 3000
	2 CFR Part 1200	DOT Order 4200.5

Applicability: Required in all FEMA grant and cooperative agreement programs, regardless of amount. This requirement applies to covered transactions as defined in 2 CFR part 180. AIP funded contracts are non-procurement transactions as defined by §180.970. Covered transactions include any AIP-funded contract, regardless of tier, that is awarded by a contractor, subcontractor, supplier, consultant, or its agents or representative in any transaction, if the amount of the contract is expected to equal or exceed \$25,000. Jefferson County must verify that the firm or individual that is entering into a contract with is not presently suspended, excluded, or debarred by any Federal department or agency from participating in federally assisted projects. This is accomplished by:

- 1. Checking SAM.gov to verify the firm's or individual's status;
- 2. Collecting a certification from the firm or individual that is not suspended, debarred, or excluded; and
- 3. Incorporating a clause into the contract that requires lower tier contracts to verify that no suspended, debarred, or excluded firm or individual is included in the project.

See Paragraph above for more information on SAM.gov.

Use of Provision: When applicable, the sponsor's language in the contract must fully satisfy the requirements of Appendix II to 2 CFR part 200.

LOBBYING AND INFLUENCING FEDERAL EMPLOYEES

Source:	2 CFR § 200 Appendix II (J)	31 USC § 1352 – Byrd Anti-Lobbying Amendment
	49 CFR Part 20, Appendix A	44 CFR Part 18

Applicability: This requirement applies to all FEMA grant and cooperative agreement programs. Consultants and contractors that apply or bid an award of \$100,000 or more must certify that it will not and has not used Federal appropriated funds to pay any person or organization for influencing or attempting to influence an officer or employee of any agency, a member of Congress, officer or employee of Congress, or an employee of a member of Congress in connection with obtaining any Federal contract, grant, or another award covered by 31 USC 1352. Each tier must also disclose any lobbying with non-Federal funds that takes place in connection with obtaining any Federal award.

Use of Provision: When applicable, the sponsor's language in the contract must fully satisfy the requirements of Appendix II to 2 CFR part 200 Appendix (J) and 31 USC 1352.

If applicable, contractors *must sign and submit* to Jefferson County the "Certification Regarding Lobbying" Form included in this bid specification.

PROCUREMENT OF RECOVERED MATERIALS

Source:	2 CFR § 200 Appendix II (J)	Solid Waste Disposal Act
	40 CFR Part 247	2 CFR § 200.322

Applicability: Sponsors of AIP funded development and equipment projects must comply with Section 6002 of the Solid Waste Disposal Act, as amended by the Resource Conservation and Recovery Act. Section 6002 emphasizes maximizing energy and resource recovery through use of affirmative procurement actions for recovered materials identified in the EPA guidelines. When acquiring items designated in the guidelines, the sponsor must procure items that contain the highest percentage of recovered materials practicable, consistent with maintaining a satisfactory level of competition.

This requirement applies to:

- All contracts awarded by a non-Federal entity under FEMA grant and cooperative agreement programs.
- All construction and equipment projects.
- Any contract, professional and property acquisition, that includes procurement of a product that exceeds \$10,000.

Information about this requirement, along with the list of EPA designated items, is available at EPA's Comprehensive Procurement Guidelines website:

https://www.epa.gov/smm/comprehensiveprocurement-guideline-cpg-program.

The Contractor also agrees to comply with all other applicable requirements of Section 6002 of the Solid Waste Disposal Act." The Uniform Rules authorize FEMA to require additional provisions for non-Federal entity contracts.

Use of Provision: When applicable, the sponsor's language in the contract must fully satisfy the requirements of Appendix II to 2 CFR part 200.

ACCESS TO RECORDS AND REPORTS

Source: 2 CFR §	200.333	FAA Order 5100.38
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2 CFR § 200.336

Applicability: 2 CFR § 200.333 requires a sponsor to retain records pertinent to a federal award for a period of three years from submission of final closure documents. 2 CFR § 200.336 establishes that sponsors must provide Federal entities the right to access records pertinent to the Federal award. FAA policy extends these requirements to the sponsor's contracts and subcontracts of AIP funded projects.

Use of Provision: When applicable, the sponsor's language in the contract must fully satisfy the requirements of Appendix II to 2 CFR part 200. The following will be in applicable contracts:

- The contractor must maintain an acceptable cost accounting system. The Contractor agrees to provide the local/state/federal entity providing funding for this project, the FEMA Administrator, the Comptroller General of the United States, or any of their authorized representatives access to any books, documents, papers, and records of the Contractor which are directly pertinent to this contract for the purposes of making audits, examinations, excerpts, and transcriptions.
- 2. The contractor agrees to maintain all books, records and reports required under this contract for a period of not less than three years after final payment is made and all pending matters have been resolved.
- 3. The Contractor agrees to permit any of the foregoing parties to reproduce by any means whatsoever or to copy excerpts and transcriptions as reasonably needed.

- 4. The Contractor agrees to provide the FEMA Administrator or their representatives access to construction or other work sites pertaining to the work being completed under the contract.
- 5. In compliance with the Disaster Recovery Act of 2018, the County and the Contractor acknowledge and agree that no language in this contract is intended to prohibit audits or internal reviews by the FEMA Administrator or the Comptroller General of the United States.

AFFIRMATIVE ACTION REQUIREMENT

Source: 41 CFR Part 60-4

FAA Order 5100.38

Executive Order 11246

Applicability: Sponsors are required to set goals for minority participation in AIP funded projects exceeding \$10,000. The goals for minority participation derive from Economic Area (EA) and Standard Metropolitan Statistical Area (SMSA) as established in Volume 45 of the Federal Register dated 10/03/80. Page 65984 contains a table of all EAs and SMSAs and the associated minority participation goals.

Executive Order 11246 has set a goal of 6.9% nationally for female participation for all construction projects. This value remains constant for all counties and states.

Contract Types:

- **Construction:** The sponsor must incorporate this notice in all solicitations for bids or requests for proposals for AIP funded construction work contracts and subcontracts that exceed \$10,000.
- **Equipment:** The sponsor must incorporate this notice in all solicitations for equipment project exceeding \$10,000 that involves installation of equipment onsite (e.g. electrical vault equipment, generators). This provision does not apply to equipment acquisition projects where the manufacturer of the equipment takes place offsite at a manufacturer's plant (e.g. firefighting and vehicles).
- **Professional Services:** The sponsor must incorporate this notice in any professional service agreement if the agreement includes tasks that meet the definition of construction work, as defined by the DOL, and exceeds \$10,000.

Use of Provision: When applicable, the sponsor's language in the contract must fully satisfy the requirements of 41 CFR Part 60-4. The following will be in applicable contracts:

SOLICITATION CLAUSE:

NOTICE OF REQUIREMENT FOR AFFIRMATIVE ACTION TO ENSURE EQUAL EMPLOYMENT OPPORTUNITY

- 1. The Offeror's or Bidder's attention is called to the "Equal Opportunity Clause" and the "Standard Federal Equal Employment Opportunity Construction Contract Specifications" set forth herein.
- 2. The goals and timetables for minority and female participation, expressed in percentage terms for the contractor's aggregate workforce in each trade on all construction work in the covered area, are as follows:

a.	Goals for minority participation for each trade:	10.01 %
<mark>b.</mark>	Goals for female participation in each trade:	10.01 %

These goals are applicable to all of the contractor's construction work, whether or not it is federal or federally assisted, performed in the covered area. If the contractor performs construction work in a geographical area located outside of the covered area, it shall apply the goals established for such geographical area where the work is actually performed. With regard to this second area, the contractor also is subject to the goals for both its federally involved and non-federally involved construction.

The contractor's compliance with the Executive Order and the regulations in 41 CFR Part 60-4 shall be based on its implementation of the Equal Opportunity Clause, specific affirmative action obligations required by the specifications set forth in 41 CFR Part 60-4.3(a) and its efforts to meet the goals. The hours of minority and female employment and training must be substantially uniform throughout the length of the contract, and in each trade, and the contractor shall make a good faith effort to employ minorities and women evenly on each of its projects. The transfer of minority or female employees or trainees from contractor to contractor or from project to project for the sole purpose of meeting the contractor's goals shall be a violation of the contract, the Executive Order and the regulations in 41 CFR Part 60-4. Compliance with these goals will be measured against the total work hours performed.

The contractor shall provide written notification to the Director of the Office of Federal Contract Compliance Programs (OFCCP) within 10 working days of award of any construction subcontract in excess of \$10,000 at any tier for construction work under the contract resulting from this solicitation. The notification shall list the name, address, and telephone number of the subcontractor; employer identification number of the subcontract; estimated dollar amount of these subcontract; estimated starting and completion dates of the subcontract; and the geographical area in which the subcontract is to be performed.

As used in this notice and in the contract resulting from this solicitation, the covered area is Texas, Jefferson County, Beaumont.

BUY AMERICAN PREFERENCES

Source: 49 USC § 50101

Applicability: the buy American preference requirement in 49 USC § 50101 requires that all still in manufactured goods used on AIP projects be produced in the United States. This statute gives the FAA the ability to issue a waiver to a sponsor to use non-domestic material on an AIP funded project subject to meeting certain conditions a sponsor may request that the FAA issue a waiver from the by American preference requirements if the FA finds that:

- 1. Applying the provision is not in the public interest;
- 2. The steel or manufactured goods are not available in sufficient quantity or quality in the United States;
- 3. The cost of components in subcomponents produced in the United States is more than 60% of the total components of a facility or equipment, and final assembly has taken place in the United States. Items that have an FAA standard specification item number, such as specific airport lighting equipment, are considered the equipment.
- 4. Applying this provision would increase the cost of the overall project by more than 25%.

For construction and equipment procurement projects, language, forms, and references to 49 USC § 50101 will be included in the solicitation.

Professional Service Agreements typically do not result in a deliverable that meets the definition of a manufactured product. If a PSA includes providing a manufactured good as a deliverable under the contract, the sponsor must include the Buy American Preference provision in the agreement.

Use of Provision: When applicable, the sponsor's language in the contract must fully satisfy the requirements of 49 USC § 50101.

CIVIL RIGHTS

Source:	49 USC § 47123	Title VI of the Civil Rights Act of 1964
	FAA Order 1400.11	US DOT Order 1050.2

Applicability: Title VI of the Civil Rights Act of 1964, as amended, Title VI, prohibits discrimination on the grounds of race, color, or national origin under any program or activity receiving Federal financial assistance. Sponsors must include appropriate clauses from the Standard DOT Title VI Assurances in all contracts and solicitations.

The text of each individual clause comes from the U.S. DOT Order 1050.2 Standard Title VI Assurances and Nondiscrimination Provisions, effective 04/24/2013. These assurances require the sponsor insert the appropriate clauses in the form provided by the DOT. Where the clause refers to the applicable activity, project, or program, it means the AIP project.

TITLE VI SOLICITATION NOTICE

Jefferson County, in accordance with the provisions of Title VI of the Civil Rights Act of 1964 (78 Stat. 252, 42 USC § 2000d to 2000d-4) and the Regulations, hereby notifies all bidders or offerors that it will affirmatively ensure that any contract entered into pursuant to this advertisement, Disadvantaged Business Enterprises will be afforded full and fair opportunity to submit bids in response to this invitation and will not be discriminated against on the grounds of race, color, or national origin in consideration for an award.

Title VI List of Pertinent Nondiscrimination Acts and Authorities

During the performance of any contract as a result of this bid, the Contractor, for itself, its assignees, and successors in interest, hereinafter referred to as the Contractor, agrees to comply with the following nondiscrimination statutes and authorities, including but not limited to:

- Title VI of the Civil Rights Act of 1964
- 49 CFR part 21
- The Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970
- Section 504 of the Rehabilitation Act of 1973
- The Age Discrimination Act of 1975
- Airport and Airway Improvement Act of 1982
- The Civil Rights Restoration Act of 1987
- Titles II and III of the Americans with Disabilities Act of 1990
- The Federal Aviation Administration's Nondiscrimination Statute
- Executive Order 12898, Federal Actions to Address Environmental Justice in Minority Populations and Low-Income Populations
- Executive Order 13166, Improving Access to Services for Persons with Limited English Proficiency
- Title IX of the Education Amendments of 1972

DISADVANTAGED BUSINESS ENTERPRISE

Source: 49 CFR part 26

Applicability: A sponsor that anticipates awarding \$250,000 or more in AIP funding prime contracts in a federal fiscal year must have an approved Disadvantaged Business Enterprise (DBE) program on file with the FAA Office of Civil Rights (§26.21). The approved DBE program will identify a 3-year overall program goal that the sponsor bases on the availability of ready, willing, and able DBEs relative to all businesses ready, willing, and able to participate on the project. (§26.45).

Sponsors with a DBE program on file with the FAA must include the three following provisions, if applicable:

- Clause in all solicitations for proposals for which a contract goal has been established;
- Clause in each prime contract, and;
- Clause in solicitations that are obtaining DBE participation through race/gender neutral means.

As a condition of bid responsiveness, the Bidder or Offeror must submit the following information with its proposal on the forms provided herein:

- 1. Names and addresses of the DBE firms that will participate in the contract;
- 2. A description of the work each DBE firm will perform;
- 3. Percentage/dollar amount of the participation of each DBE firm listed under 1.

- 4. Written statement from Bidder or Offeror that attests their commitment to use the DBE firm(s) listed under (1) to meet the Owner's project goal; and
- 5. If Bidder or Offeror cannot meet the advertised project DBE goal, evidence of good faith efforts undertaken by the Bidder or Offeror as described in 49 CFR part 26 Appendix A

The requirements of 49 CFR part 26 apply to this contract. It is the policy of Jefferson County to practice nondiscrimination based on race, color, sex, or national origin in the award or performance of this contract. Jefferson County encourages participation by all firms qualifying under this solicitation regardless of business size or ownership.

DBE CONTRACT ASSURANCES

Contracts as a result of this bid will include contract assurances per §26.13, if applicable:

The contractor or subcontractor shall not discriminate on the basis of race, color, national origin, or sex in the performance of this contract. The contractor shall carry out applicable requirements of 49 CFR part 26 and the award and administration of Department of Transportation-assisted contracts. Failure by contractor to carry out these requirements is a material breach of this contract which may result in the termination of this contract or such other remedy as the owner deems appropriate, which may include but is not limited to:

- 1. Withholding monthly progress payments;
- 2. Accessing sanctions;
- 3. Liquidated damages; and/or
- 4. Disqualifying the Contractor from future bidding as non-responsible.

Prompt Payment (§26.29) – The prime contractor agrees to pay each subcontractor under this prime contract for satisfactory performance of its contract no later than 30 days from the receipt of each payment the prime contractor receives from Jefferson County. The prime contractor agrees further to return retainage payments to each subcontractor within 30 days after the subcontractor's work is satisfactorily completed. Any delay or postponement of payment from the above referenced time frame may occur only for good cause following written approval of Jefferson County. This clause applies to both DBE and non-DBE subcontractors.

DISTRACTED DRIVING

Source:	Executive Order 13513	2 CFR §200.67

DOT Order 3902.10

Applicability: The FAA encourages recipients of federal grant funds to adopt and enforce safety policies that decrease crashes by distracted drivers, including policies to ban text messaging while driving when performing work related to a grant or subgrant.

Use of Provision: The following clause will be included in all Federally-assisted contracts regardless of amount:

In accordance with executive order 13513, federal leadership on reducing text messaging while driving, Andy OT order 3902.10, text messaging while driving, the FAA encourages recipients of Federal grant funds to adopt and enforce safety policies that decrease crashes by distracted drivers including policies to ban text messaging while driving when performing work related to a grant or subgrant.

In support of this initiative, Jefferson County encourages the contractor to promote policies and initiatives for its employees and other work personnel that decrease crashes by distracted drivers, including policies that ban text messaging while driving motor vehicles Papa forming work activities associated with the project. The contractor must include the substance of this clause and other sub tier contracts exceeding \$3,500 that involve driving a motor vehicle and performance of work activities associated with the project.

COMPLIANCE WITH FEDERAL LAW, REGULATIONS, AND EXECUTIVE ORDERS

The recipient and its contractors are required to comply with all Federal laws, regulations, and executive orders.

Applicability: FEMA recommends that all non-Federal entities place into their contracts an acknowledgement that FEMA financial assistance will be used to fund the contract along with the requirement that the contractor will comply with all applicable Federal law, regulations, executive orders, and FEMA policies, procedures, and directives.

"This is an acknowledgement that FEMA financial assistance will be used to fund all or a portion of the contract. The contractor will comply with all applicable Federal law, regulations, executive orders, FEMA policies, procedures, and directives."

NO OBLIGATION BY FEDERAL GOVERNMENTS

The FAA and or FEMA is not a party to any transaction between the recipient and its contractor. The FAA and or FEMA is not subject to any obligations or liable to any party for any matter relating to the contract.

Applicability: FEMA recommends that the non-Federal entity include a provision in its contract that states that the Federal Government is not a party to the contract and is not subject to any obligations or liabilities to the non-Federal entity, contractor, or any other party pertaining to any matter resulting from the contract.

"The Federal Government is not a party to this contract and is not subject to any obligations or liabilities to the non-Federal entity, contractor, or any other party pertaining to any matter resulting from the contract."

PROGRAM FRAUD AND FALSE OR FRAUDULENT STATEMENTS OR RELATED ACTS

Recipients must comply with the requirements of The False Claims Act (31 U.S.C. §§ 3729-3733) which prohibits the submission of false or fraudulent claims for payment to the federal government. See DHS Standard Terms and Conditions: Version 8.1 (2018); and 31 U.S.C. §§ 3801-3812, which details the administrative remedies for false claims and statements made. The non-Federal entity must include a provision in its contract that the contractor acknowledges that 31 U.S.C. Chap. 38 (Administrative Remedies for False Claims and Statements) applies to its actions pertaining to the contract.

FEMA recommends that the non-Federal entity include a provision in its contract that the contractor acknowledges that 31 U.S.C. Chap. 38 (Administrative Remedies for False Claims and Statements) applies to its actions pertaining to the contract.

"The Contractor acknowledges that 31 U.S.C. Chap. 38 (Administrative Remedies for False Claims and Statements) applies to the Contractor's actions pertaining to this contract."

Certification for Contracts, Grants, Loans, and Cooperative Agreements-The undersigned certifies, to the best of his or her knowledge and belief, that:

No Federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of an agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.

If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form-LLL, "Disclosure Form to Report Lobbying," in accordance with its instructions.

The undersigned shall require that the language of this certification be included in the award documents for all subawards at all tiers (including subcontracts, subgrants, and contracts under grants, loans, and cooperative agreements) and that all subrecipients shall certify and disclose accordingly.

This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by section 1352, title 31, U.S. Code. Any person who fails to file the required certification shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.

The Contractor ______ certifies or affirms the truthfulness and accuracy of each statement of its certification and disclosure, if any. In addition, the Contractor understands and agrees that the provisions of 31 U.S.C. Chap. 38, Administrative Remedies for False Claims and Statements, apply to this certification and disclosure, if any.

Signature of Contractor's Authorized Official

Name and Title of Contractor's Authorized Official

Date

REQUIRED FORM <u>Bidder</u>: Please complete this form and include with bid submission. Non-Federal entities and contractors are subject to the debarment and suspension regulations implementing Executive Order 12549, Debarment and Suspension (1986) and Executive Order 12689, Debarment and Suspension (1989) at 2 C.F.R. Part 180 and the Department of Homeland Security's regulations at 2 C.F.R. Part 3000 (No procurement Debarment and Suspension).

This requirement applies to all FEMA grant and cooperative agreement programs.

Federal Executive Order (E .O.) 12549 "Debarment" requires that all contractors receiving individual awards, using federal funds, and all sub recipients certify that the organization and its principals are not debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded by any Federal department or agency from doing business with the Federal Government. By signing this document, you certify that your organization and its principals are not debarred. Failure to comply or attempts to edit this language may disqualify your bid. Information on debarment is available at the following websites: **Error! Hyperlink reference not valid.**and https://acguisition.qov/far/index.html see section 52.209-6.

The Contractor ______ certifies or affirms by your signature that neither you nor your principal is presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participation in this transaction by any federal department or agency.

Signature of Contractor's Authorized Official

Name and Title of Contractor's Authorized Official

Date

REQUIRED FORM <u>Bidder</u>: Please complete this form and include with bid submission.

EQUAL EMPLOYMENT OPPORTUNITY (Equal Opportunity Clause)

(For all awarded contracts that meet the definition of "federally assisted construction contract" provided in 41 CFR Part 60-1.3)

During the performance of this contract, the contractor agrees as follows:

 The contractor will not discriminate against any employee or applicant for employment because of race, color, religion, sex, sexual orientation, gender identity, or national origin. The contractor will take affirmative action to ensure that applicants are employed, and that employees are treated during employment without regard to their race, color, religion, sex, sexual orientation, gender identity, or national origin. Such action shall include, but not be limited to the following:

Employment, upgrading, demotion, or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship. The contractor agrees to post in conspicuous places, available to employees and applicants for employment, notices to be provided setting forth the provisions of this nondiscrimination clause.

- 2) The contractor will, in all solicitations or advertisements for employees placed by or on behalf of the contractor, state that all qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation, gender identity, or national origin.
- 3) The contractor will not discharge or in any other manner discriminate against any employee or applicant for employment because such employee or applicant has inquired about, discussed, or disclosed the compensation of the employee or applicant or another employee or applicant. This provision shall not apply to instances in which an employee who has access to the compensation information of other employees or applicants as a part of such employee's essential job functions discloses the compensation of such other employees or applicants to individuals who do not otherwise have access to such information, unless such disclosure is in response to a formal complaint or charge, in furtherance of an investigation, proceeding, hearing, or action, including an investigation conducted by the employer, or is consistent with the contractor's legal duty to furnish information.
- 4) The contractor will send to each labor union or representative of workers with which he has a collective bargaining agreement or other contract or understanding, a notice to be provided advising the said labor union or workers' representatives of the contractor's commitments under this section and shall post copies of the notice in conspicuous places available to employees and applicants for employment.
- 5) The contractor will comply with all provisions of Executive Order 11246 of September 24, 1965, and of the rules, regulations, and relevant orders of the Secretary of Labor.
- 6) The contractor will furnish all information and reports required by Executive Order 11246 of September 24, 1965, and by rules, regulations, and orders of the Secretary of Labor, or pursuant thereto, and will permit access to his books, records, and accounts by the administering agency and the Secretary of Labor for purposes of investigation to ascertain compliance with such rules, regulations, and orders.
- 7) In the event of the contractor's noncompliance with the nondiscrimination clauses of this contract or with any of the said rules, regulations, or order this contract may be canceled, terminated, or suspended in whole or in part and the contractor may be declared ineligible for further Government contracts or federally assisted construction contracts in accordance with procedures authorized in Executive Order 11246 of September 24, 1965, and such other sanctions may be imposed and remedies invoked as provided in Executive Order 11246 of September 24, 1965, or by rule, regulation, or order of the Secretary of Labor, or as otherwise provided by law.
- 8) The contractor will include the portion of the sentence immediately preceding paragraph (1) and the provisions of paragraphs (1) through (8) in every subcontract or purchase order unless exempted by rules, regulations, or orders of the Secretary of Labor issued pursuant to section 204 of Executive Order 11246 of September 24, 1965, so that such provisions will be binding upon each subcontractor or vendor. The contractor will take such action with respect to any subcontract or purchase order as the administering agency may direct as a means of enforcing such provisions, including sanctions for noncompliance:

Provided, however, that in the event a contractor becomes involved in, or is threatened with, litigation with a subcontractor or vendor as a result of such direction by the administering agency, the contractor may request the United States to enter into such litigation to protect the interests of the United States.

The applicant further agrees that it will be bound by the above equal opportunity clause with respect to its own employment practices when it participates in federally assisted construction work: Provided, that if the applicant so participating is a State or local government, the above equal opportunity clause is not applicable to any agency, instrumentality or subdivision of such government which does not participate in work on or under the contract.

The applicant agrees that it will assist and cooperate actively with the administering agency and the Secretary of Labor in obtaining the compliance of contractors and subcontractors with the equal opportunity clause and the rules, regulations, and relevant orders of the Secretary of Labor, that it will furnish the administering agency and the Secretary of Labor such information as they may require for the supervision of such compliance, and that it will otherwise assist the administering agency in the discharge of the agency's primary responsibility for securing compliance.

The applicant further agrees that it will refrain from entering into any contract or contract modification subject to Executive Order 11246 of September 24, 1965, with a contractor debarred from, or who has not demonstrated eligibility for, Government contracts and federally assisted construction contracts pursuant to the Executive Order and will carry out such sanctions and penalties for violation of the equal opportunity clause as may be imposed upon contractors and subcontractors by the administering agency or the Secretary of Labor pursuant to Part II, Subpart D of the Executive Order. In addition, the applicant agrees that if it fails or refuses to comply with these undertakings, the administering agency may take any or all of the following actions: Cancel, terminate, or suspend in whole or in part this grant (contract, loan, insurance, guarantee); refrain from extending any further assistance to the applicant under the program with respect to which the failure or refund occurred until satisfactory assurance of future compliance has been received from such applicant; and refer the case to the Department of Justice for appropriate legal proceedings.

Signature of Contractor's Authorized Official

Name and Title of Contractor's Authorized Official

Date

REQUIRED FORM <u>Bidder</u>: Please complete this form and include with bid submission. The following requirements and instructions **<u>supersede</u>** General Requirements where applicable.

1. SUBMISSION OF BID.

Bidder is Responsible for Submitting:

One (1) Original and Two (2) Bid Copies; with all copies to include a Completed Copy of this specifications packet, drawings, and project manuals <u>IN THEIR ENTIRETY.</u> Drawings and project manuals -only- may be submitted as double-sided copies.

The County requests that bid submissions <u>NOT</u> be bound by staples or glued spines.

Each Bidder shall ensure that required parts of their bid submission are completed with accuracy and submitted as per the requirements within this specifications packet, including any addenda.

Additionally, Bidder shall monitor the Jefferson County Purchasing Department Website for any addenda, additional instructions, or bid updates. <u>https://www.co.jefferson.tx.us/Purchasing/</u>

Failure to return and/or complete all required documentation <u>will result</u> in a response being declared as non-responsive.

Bids must be submitted in complete original form by mail or messenger to the following address:

Jefferson County Purchasing Department 1149 Pearl Street, 1st Floor Beaumont, TX 77701

BID PACKAGING: Bidder shall submit response in a tightly sealed opaque envelope or box, plainly marked "SEALED BID." The outside of the envelope of box shall also include the IFB Number, IFB Name, IFB Due Date, and the Bidder's Name and Address; and shall be addressed to the Purchasing Agent.

All submissions must be received by 11:00 am CT, Wednesday, March 29, 2023.

Bids will be accepted at the above address until the time and date specified herein, and immediately after will be publicly opened and read aloud.

Jefferson County will not accept any responsibility for bids being delivered by third party carriers.

Late bids will not be accepted and will be returned unopened to the Bidder. Jefferson County shall not be responsible for any effort or cost expended in the preparation of a response to this IFB.

All bid responses submitted in response to this invitation shall become the property of Jefferson County and will be a matter of public record available for review.

All protests should be coordinated through the Purchasing Office prior to award recommendation to Commissioners' Court.

<u>COURTHOUSE SECURITY</u>: All visitors to the Courthouse must pass through Security. Respondents planning to hand deliver proposals must allow time to get through Security, as a delay in entering the Courthouse will not be accepted as an excuse for late submittal. Mondays and Tuesdays are particularly heavy days.

In response to the Covid-19 pandemic, Jefferson County has implemented precautionary measures as currently recommended by the CDC within its facilities. Bidders are strongly urged to plan accordingly.

COUNTY HOLIDAYS (2023):

January 16	(Monday)	Martin Luther King, Jr. Day		
February 20	(Monday)	President's Day		
April 7	(Friday)	Good Friday		
May 29	(Monday)	Memorial Day		
July 4	(Tuesday)	Independence Day		
September 4	(Monday)	Labor Day		
November 10	(Friday)	Veteran's Day		
November 23 & 24	(Thursday & Friday)	Thanksgiving		
December 25 & 26	(Monday & Tuesday)	Christmas		
January 1, 2024	(Monday)	New Year's		

Submissions During Time of Inclement Weather, Disaster, or Emergency:

In case of inclement weather or any other unforeseen event causing the County to close for business on the date of a bid/proposal/statement of qualifications submission deadline, the IFB closing will automatically be postponed until the next business day that County offices are open to the public. Should inclement weather conditions or any other unforeseen event cause delays in courier service operations, the County may issue an addendum to all known vendors interested in the project to extend the deadline. It will be the responsibility of the vendor to notify the county of their interest in the project should these conditions impact their ability to submit a bid/proposal/statement of qualifications submission before the stated deadline. The County reserves the right to make the final judgement call to extend any deadline.

Should an emergency or unanticipated event interrupt normal County processes, and bid/proposal/statement of qualifications submissions cannot be received by the Jefferson County Purchasing Department's office by the exact time specified in the IFB and urgent County requirements preclude amendment to the IFB, the time specified for receipt of Statements of Qualifications will be deemed to be extended to the same time of day specified in the solicitation on the first business day on which normal County processes resume.

2. PRE-BID MEETING AND WALK-THROUGH.

There will be a **Non-Mandatory Pre-Bid Meeting on Tuesday, March 7, 2023 at 2:00 pm CT**, at the Jack Brooks Regional Airport - Administration Conference Room located at 5000 Jerry Ware Blvd. Beaumont, Texas 77705. This conference will be the Bidder's only opportunity to view secured areas of the project.

3. QUESTIONS/DEADLINE FOR QUESTIONS.

Questions may be emailed to Jamey West & Contract Specialist at: <u>Jamey.West@jeffcotx.us</u> The Deadline for asking questions or requesting additional information (in writing) is 5:00 pm, CT, Monday, March 20, 2023.

4. VENDOR REGISTRATION (System for Award Management).

Vendors doing business with Jefferson County are **required** to be registered with The System for Award Management (SAM), with an "active" status. The System for Award Management (SAM) is the Official U.S. Government system that consolidated the capabilities of CCR/FedReg, ORCA, and EPLS. There is NO fee to register for this site. Entities may register at no cost directly from the SAM website at: <u>https://www.sam.gov</u>

In instances where a vendor has either an "Inactive" SAM Registration or is not currently registered with the System for Award Management, the Purchasing Department may *initially* accept proof (printout from the SAM website) that the vendor has begun the registration process in order for the IFB/RFQ/RFP submission to be considered as "responsive" to the specifications for the project.

However, the SAM Registration must be completed (showing "active" status, with no exclusions) prior to the award and/or execution of an agreement or contract for the project.

5. FORM 1295 (Texas Ethics Commission) SUBMISSION REQUIREMENT/INSTRUCTIONS FOR BIDDERS.

All <u>Non-Exempt Bidders</u> are required to submit a completed FORM 1295 with bid submission.

1. Submit a FORM 1295 online via the Texas Ethics Commission website link below.

Vendors must enter the required information on Form 1295, and print a copy of the completed form. The form will include a certification of filing that will contain a unique certification number.

2. Submit a FORM 1295 <u>hard copy</u> (completed & signed by an Authorized Agent of the Awarded Vendor), to the Jefferson County Purchasing Department <u>with bid submission</u>.

FORM 1295, Completion Instructions, and Login Instructions are available via the Texas Ethics Commission Website at: <u>https://www.ethics.state.tx.us/whatsnew/elf_info_form1295.htm</u>

A sample of a completed FORM 1295 is included on PAGE 37.

FORM 1295 Implementation Background:

In accordance with House Bill 1295 (passed January 1, 2016), Vendors entering into contracts and professional agreements with Jefferson County will be required to complete a Certificate of Interested Parties (FORM 1295), **unless contract is considered exempt as described below.**

In 2017, the Texas legislature amended the law to require Form 1295 to include an "unsworn declaration" which includes, among other things, the date of birth and address of the authorized representative signing the form. The unsworn declaration, including the date of birth and address of the signatory, <u>replaces the notary requirement</u> that applied to contracts entered into before January 1, 2018. The TEC filing application does not capture the date of birth or street address of the signatory and it will not appear on forms that are filed using the TEC filing application.

Changes to the law requiring certain businesses to file a Form 1295 are in effect for contracts entered into or amended on or after January 1, 2018. The changes exempt businesses from filing a Form 1295 for certain types of contracts and replace the need for a completed Form 1295 to be notarized. Instead, the person filing a 1295 needs to complete an "unsworn declaration."

Question: Will the date of birth and address provided appear on the TEC's website when the form is filed?

<u>Answer</u>: No. The TEC filing application does not capture the date of birth or street address of the signatory and it will not appear on forms that are filed using the TEC filing application. Although the TEC does not capture the date of birth and street address of the signatory, the contracting state agency or governmental agency will have a physical copy of the form that includes the date of birth and address of the signatory. The TEC cannot answer whether the contracting state agency or governmental agency may release such information. Questions regarding the Texas Public Information Act may be directed to the Office of the Attorney General. See also Paxton v. City of Dall., No. 03-13-00546-CV, 2015 Tex. App. LEXIS 5228, at *10-11 (App.—Austin May 22, 2015) (mem. op.) (pet. denied) (available here)

FORM 1295 EXEMPTIONS:

What type of contracts are exempt from the Form 1295 filing requirement under the amended law? The amended law adds to the list of types of contract exempt from the Form 1295 filing requirement.

A completed Form 1295 is not required for:

- a sponsored research contract of an institution of higher education
- an interagency contract of a state agency or an institution of higher education

• a contract related to health and human services if: the value of the contract cannot be determined at the time the contract is executed; and any qualified vendor is eligible for the contract

• a contract with a publicly traded business entity, including a wholly owned subsidiary of the business entity

• a contract with an electric utility, as that term is defined by Section 31.002, Utilities Code

• a contract with a gas utility, as that term is defined by Section 121.001, Utilities Code

<u>BIDDER</u>: INSERT PROOF OF SYSTEM FOR AWARD MANAGEMENT (SAM) REGISTRATION BEHIND THIS PAGE.

SAMPLE COMPLETED FORM 1295

Complete Nos. 1 - 4 and 6 if there are interested parties. Complete Nos. 1, 2, 3, 5, and 6 if there are no interested parties. Name of business entity filing form, and the city, state and country of the business entity's place of business. ''YOUR FIRM NAME HERE*' Name of Interested Party City, State, Country (place of business) Controlling Intermediary Controlling Intermed	CERTIFICATE OF INTE	ERESTED PARTIES	_	F	orm 1295			
CLETPENSION COUNTY, TEXAS A Provide the identification number used by the governmental entity or state agency to tack of identify the contract, and provide a description of the services, goods, or other property to be provided used to cack e contract. **BID/CONTRACT/PO NUMBER GOES HERE** A Name of Interested Party City, State, Country (place of business) Controlling Intermediary **NAME OF PERSON/PERSONS THAT OWN BUSINESS GOES HERE! MUST LIST ANY PERSON THAT DOES NOT WORK FOR THE COMPANY LISTED IN #1 THAT WILL PROFIT FROM THE BID/CONTRACT/PO** Controlling **ONLY CHECK IF NO CONTROLLING OR INTERMEDIARY PARTY** CONTROLLING OR INTERMEDIARY PARTY** Controlling work der of birth is My addret (street) (city) (state) (zip code) (country) (year) Signature of authorized agent of contracting business entity (Dedirant)				6.000				
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4 City, State, Country (place of business) Nature of Interest (check applicable) **NAME OF PERSON/PERSONS THAT OWN BUSINESS GOES HERE MUST LIST ANY PERSON THAT DOES NOT Intermediary **NAME OF PERSON/PERSONS THAT OWN BUSINESS GOES HERE MUST LIST ANY PERSON THAT DOES NOT Intermediary WORK FOR THE COMPANY LISTED IN #1 THAT WILL PROFIT FROM THE BID/CONTRACT/PO** Intermediary 5 Check only if there we interested Party. CONTROLLING OR INTERMEDIARY PARTY** 6 UNSWORN DECIDENTION Vendor is to complete #6 - Unsworn Declaration My name is	"JEFFERSON COUNTY, TEXAS"							
Name of Interested Party City, State, Country (place of business) Nature of Interest (check applicable) **NAME OF PERSON/PERSONS THAT OWN BUSINESS GOES HERE, MUST, LIST ANY PERSON THAT DOES NOT Intermediary WORK FOR THE COMPANY LISTED IN #1 THAT WILL PROFIT FROM THE BID/CONTRACT/PO** Intermediary **ONLY CHECK IF NO CONTROLLING OR INTERMEDIARY PARTY** **ONLY CHECK IF NO CONTROLLING OR INTERMEDIARY PARTY** 6 UNSWORN DECLARATION	**BID/CONTRACT/PO NUN	MBER GOES HERE**	xO	•				
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	OWN BUSINESS GOES HERE LIST ANY PERSON THAT DOE WORK FOR THE COMPANY L IN #1 THAT WILL PROFIT FRO	S THAT MUST S NOT STED M THE						
Check only if there is interested Party. CONTROLLING OR INTERMEDIARY PARTY** UNSWORN DECLEMENTON Vendor is to complete #6 - Unsworn Declaration My name is My address (street) (street) (street) (city) (state) (zip code) (country) (dentify (state) (country) (country) (state) (country) (count		10						
My name is, and my date of birth is My address	5 Check only if there in the linteres] ited Party. [ROLLING	GOR			
(street) (city) (state) (zip code) (country) I dentage under penalty of perjury that the foregoing is true and correct. Executed in County, State of, on the day of, 20 (month) (year) Signature of authorized agent of contracting business entity (Declarant)	My name is	•						
(Declarant)	(street)	regoing is true and correct.	of	20				
ADD ADDITIONAL PAGES AS NECESSARY								
Form provided by Texas Ethics Commission www.ethics.state.tx.us Revised 12/22/201								

BIDDER: INSERT COMPLETED FORM 1295 BEHIND THIS PAGE.

6. MULTIPLE VENDOR AWARD.

Jefferson County reserves the right to award this contract to more than one vendor at the County's discretion.

7. DELIVERY.

If delivery is required, all items must be packaged so as to be protected from damage during shipping and handling. Any item(s) damaged in shipping must be replaced in kind, or repaired, by the contractor, at the discretion of, and at no additional charge to, Jefferson County.

8. PAYMENT.

Jefferson County will pay original invoices that clearly itemize the goods and/or services provided as to quantity, part number, description, price, applicable discount (if any), labor charges showing time differential, if applicable and if previously agreed to, and delivery, installation, and set-up costs, if applicable and if previously agreed to. Only charges as stated on the Bid Form(s) submitted as a part of the bid will be considered.

Invoices must indicate Jefferson County as applicable, the address to which the product(s) and/or service(s) were delivered, and the applicable purchase order number. Invoices will be matched to delivery tickets prior to payment; therefore, all delivery tickets should have an accurate description of the product(s) and/or service(s).

Invoices shall be submitted to:

Jefferson County Auditing Department Attention: Accounts Payable 1149 Pearl Street, 7th floor Beaumont, TX 77701.

9. USAGE REPORTS.

Jefferson County reserves the right to request, and receive at no additional cost, up to two (2) times during the contract period, a usage report detailing the products and/or services furnished to date under a contract resulting from this IFB. The reports must be furnished no later than five (5) working days after written request and itemize all purchases to date by Jefferson County department, description of each item purchased, including manufacturer, quantity of each item purchased, per unit and extended price of each item purchased, and total amount and price of all items purchased.

10. INSURANCE.

The contractor (including any and all subcontractors as defined in Section 11.1.3 below) shall, at all times during the term of this contract, maintain insurance coverages with not less than the type and requirements shown below. Such insurance is to be provided at the sole cost of the contractor. These requirements do not establish limits of the contractor's liability.

All policies of insurance shall waive all rights of subrogation against the County, its officers, employees and agents; a copy of the policy wording or endorsement is required.

Contractor shall furnish Jefferson County with Certificate of Insurance naming Jefferson County as additional insured and will provide the actual policy wording or endorsement showing as such.

All insurance must be written by an insurer licensed to conduct business in the State of Texas.

Minimum Insurance Requirements:Public Liability, including Products & Completed Operations\$1,000,000Excess Liability\$1,000,000

<u>Property Insurance (policy below that is applicable to this project)</u>:

Improvements & Betterments Policy: Improvements/Remodeling (for Lease Tenants) Builder's Risk Policy: Structural Coverage for Construction Projects Installation Floater Policy: Improvements/Alterations to Existing Structure

Workers' Compensation Statutory Coverage (See Section 9 Below)

11. WORKERS' COMPENSATION INSURANCE

- 11.1 Definitions:
 - 11.1.1 **Certificate of coverage ("Certificate")** A copy of a certificate of insurance, a certificate of authority to self-insure issued by the commission, or a coverage agreement, DWC-81, DWC-82, DWC-83, or DWC-84 showing statutory workers' compensation insurance coverage for the person's or entity's employees providing services on a project, for the duration of the project.
 - 11.1.2 **Duration of the project** Includes the time from the beginning of the work on the project until the contractor's/person's work on the project has been completed and accepted by the governmental entity.
 - 11.1.3 Persons providing services on the project ("subcontractor") in article 406.096 Includes all persons or entities performing all or part of the services under the contractor has undertaken to perform on the project, regardless of whether that person contracted directly with the contractor and regardless of whether that person has employees. This includes, without limitation, independent contractors, subcontractor, leasing companies, motor carriers, owner-operators, employees of any such entity, or employees of any entity which furnishes persons to provide services on the project. "Services" includes, without limitation, providing, hauling or delivering equipment or materials, or providing labor, transportation, or other service related to a project. "Services" does not include activities unrelated to the project, such as food/beverage vendors, office supply deliveries, and delivery of portable toilets.
- 11.2 The Contractor shall provide coverage, based on proper reporting of classification code and payroll amounts and filing any coverage agreements, which meets the statutory requirements of Texas Labor Code, Section 401.011(44) for all employees of the contractor providing services on the project, for the duration of the project.
- 11.3 The Contractor must provide a certificate of coverage to the governmental entity prior to being awarded the contract <u>refer to Section 10 above</u>.
- 11.4 If the coverage period shown on the Contractor's current certificate of coverage ends during the duration of the project, the Contractor must, prior to the end of the coverage period, file a new certificate of coverage with the governmental entity showing that coverage has been extended.
- 11.5 The Contractor shall obtain from each person providing services on a project, and provide to the governmental entity:
 - 11.5.1 A certificate of coverage, prior to that person beginning work on the project, so the governmental entity will have on file certificates of coverage showing coverage for all persons providing services on the project; and
 - 11.5.2 No later than seven (7) days after receipt by the Contractor, a new certificate of coverage showing extension of coverage, if the coverage period shown on the current certificate ends during the duration of the project.
- 11.6 The Contractor shall retain all required certificates of coverage for the duration of the project and for one (1) year thereafter.
- 11.7 The Contractor shall notify the governmental entity in writing by certified mail or personal delivery, within ten (10) days after the contractor knew or should have known, of any change that materially affects the provision of coverage of any person providing services on the project.
- 11.8 The Contractor shall post on each project site a notice, in the text, form and manner prescribed by the Texas Department of Workers' Compensation, informing all persons providing services on the project that they are required to be covered, and stating how a person may verify coverage and report lack of coverage.

- 11.9 The Contractor shall contractually require each person with whom it contracts to provide services on a project to:
 - 11.9.1 Provide coverage, based on reporting of classification codes and payroll amounts and filing of any coverage agreements, which meets the statutory requirements of Texas Labor Code, Section 401.011(44) for all its employees providing services on the project, for the duration of the project.
 - 11.9.2 Provide to the Contractor, prior to that person beginning work on the project a certificate of coverage showing that coverage is being provided for all employees of the person providing services on the project, for the duration of the project.
 - 11.9.3 Provide the Contractor, prior to the end of coverage period, a new certificate of coverage showing extension of coverage, if the coverage period shown on the current certificate of coverage ends during the duration of the project.
 - 11.9.4 Obtain from each person with whom it contracts, and provide to the Contractor:
 - 11.9.4.1 A certificate of coverage, prior to the other person beginning work on the project; and
 - 11.9.4.2 the coverage period, if the coverage period shown on the current certificate of a new certificate of coverage showing extension of coverage, prior to the end of coverage ends during the duration of the project.
 - 11.9.5 Retain all required certificates of coverage on file for the duration of the project and for one (1) year thereafter.
 - 11.9.6 Notify the governmental entity in writing by certified mail or personal delivery, within ten (10) days after the person knew or should have known, of any change that materially affects the provision of coverage of any person providing services on the project; and
 - 11.9.7 Contractually require each person with whom it contracts to perform as required by paragraphs $\underline{11.1. 11.7}$, with the certificates of coverage to be provided to the person for whom they are providing services.
- 11.10 By signing this contract or providing or causing to be provided a certificate of coverage, the Contractor is representing to the governmental entity that all employees of the contractor who will provide services of the project will be covered by workers' compensation coverage for the duration of the project, that the coverage will be based on proper reporting of classification codes and payroll amounts, and that all coverage agreements will be filed with the appropriate insurance carrier or, in the case of a self-insured, with the commission's Division of Self-Insurance Regulation. Providing false or misleading information may subject the contractor to administrative penalties, criminal penalties, civil penalties, or other civil actions.
- 11.11 The Contractor's failure to comply with any of these provisions is a breach of contract by the Contractor which entitles the governmental entity to declare the contract void if the Contractor does not remedy the breach within ten (10) days after receipt of notice of breach from the governmental entity.

<u>BIDDER</u>: INSERT COPY OF CERTIFICATE OF INSURANCE (COI) BEHIND THIS PAGE.

Note: For bid purposes, a general COI will suffice. However, a COI that includes the notation that "Jefferson County as an additional insured" will be required from Awarded Bidder(s) prior to the issuance of a Purchase Order. **BIDDER: INSERT BID SURETY BEHIND THIS PAGE.**

Instructions: Complete the form below. Please provide legible, accurate, and complete contact information. PLEASE PRINT.

Bid Number & Name: Invitation for Bid (IFB 23-009/J Landside Road Pavement Repa	W) irs at the Jack Brooks Regional Airport
Bidder's Company/Business Name:	
Bidder's TAX ID Number:	
If Applicable: HUB Vendor No	DBE Vendor No
Contact Person:	Title:
Phone Number (with area code):	
Alternate Phone Number if available (with area code	e):
Fax Number (with area code):	
Email Address:	
Mailing Address (Please provide a physical address for	<u>or bid bond return</u> , if applicable):
Address	

City, State, Zip Code

<u>BIDDER</u>: INSERT ALL ADDENDA BEHIND THIS PAGE. PLEASE BE SURE TO COMPLETE, SIGN, ATTEST, AND DATE EACH ADDENDUM.

PLEASE NOTE: Bid Award is subject to grant funding for this project. The County may choose to award all or in partial the projects listed on this bid form.

We have examined the site of the Work and the nature and kind of work to be performed and have informed ourselves of all local conditions and other things that might affect the cost or difficulty of performing the Work, and we represent and warrant that we have experience in the use of materials and methods of performance specified, and that we can and will do the Work and construct the improvements with the specified materials as contemplated and indicated by the Drawings and Specifications.

Upon receipt of notice of acceptance of our bid, we agree to execute the Contract within 10 (ten) days after such notice, begin work on or before the date of commencement of the Work established in the Notice to Proceed, and to complete the Work within ______ calendar days.

We have visited and examined the site of the Work and the nature and kind of work to be performed and have informed ourselves of all local conditions and other things that might affect the cost or difficulty of performing the Work, and we represent and warrant that we have experience in the use of materials and methods of performance specified, and that we can and will do the Work and construct the improvements with the specified materials as contemplated and indicated by the drawings and specifications.

LIQUIDATED DAMAGES FOR DELAYS:

It is understood and agreed between the parties that time is of the essence of this contract, and in case the Contractor shall fail to fully, entirely, and in conformity with the provisions of this contract, perform and complete said work within the time stated in the proposal with such allowances as herein before provided or within such further time as he may be allowed by the Owner, the Architect shall compute the number of days of delinquency in said final and entire completion. It is hereby acknowledged by the Contractor that such delinquency caused additional overhead costs and expenses to the Owner.

It is hereby agreed between both parties to this contract that the amount of said damages are hereby ascertained and liquidated at the greater of **FIVE HUNDRED DOLLARS (\$250.00)** per day of delay, or the actual measurable damages to the Owner including penalties, or other fees which may be charged to the Owner for failure to meet the time requirements. The Contractor hereby agrees to pay the stated sum to the Owner for each and every day of delinquency.

Item No.	TxDO Item N	T Est. No Qty.		Description of Item with Unit Price Written in Words	Unit Price	Amount
01	100	4.42	Ac.	Preparing Right-Of-Way, complete in place	\$	\$
02	500	1	L.S.	Mobilization/demobilization, complete in place @ per lump sum	\$	\$
03	110	1,746	C.Y	Excavation, complete in place @ per cubic yard		
04	132	1,988	C.Y	Embankment, complete in place @ 		
05	110	5,463	S.Y	Removing existing Concrete roadway, complete in place @ per square yard	\$	\$
06	110	2,663	S.Y	Removing existing asphalt shoulder, complete in place @ per square yard	\$	\$

ltem No.	TxDO Item N		. Unit	Description of Item with Unit Price Written in Words	Unit Price	Amount
07	110	478	S.Y	Removing existing asphalt driveway, complete in place @ per square yard	\$	\$
08	110	255	S.Y	Removing existing asphalt turnout, complete in place @ per square yard	\$	\$
09	496	17	L.F.	Removing existing 12" storm sewer, complete in place @ per linear foot	\$	\$
10	496	77	L.F.	Removing existing 15" storm sewer, complete in place @ per linear foot	\$	\$
11	496	339	L.F.	Removing existing 18" storm sewer, complete in place @ per linear foot	\$	\$
12	496	48	L.F.	Removing existing 24" storm sewer, complete in place @ per linear foot	\$	\$
13	496	6	E.A.	Removing existing concrete storm inlet, complete in place @ per <u>Each</u>	\$	\$

Item No.	TxDO Item N		. Unit	Description of Item with Unit Price Written in Words	Unit Price	Amount
14	360	6,372	S.Y.	7" Reinforced Concrete Pavement, complete in place @ per square yard	\$	\$
15	247	1,627	S.Y.	7" Compacted Limestone Shoulder, complete in place @ per square yard	\$	\$
15 A	292	1,627	S.Y.	Alternate Item: 7" Asphalt Stab Base (GR 2)(PG 70) Shoulder, complete in place @ per square yard	\$	\$
16	260	8,214	S.Y.	8" hydrated lime stabilized base (10%-12% DC) (In Place & Salvaged Fill), complete in place @ per square yard	\$	\$
17	360	583	S.Y.	7" Reinforced concrete driveway pavement, complete in place @ per square yard	\$	\$
18	760	2,492	L.F.	Re-grade existing roadside ditches, complete in place @ per linear foot	\$	\$

ltem No.	TxDO Item N		. Unit	Description of Item with Unit Price Written in Words	Unit Price	Amount
19	464	56	L.F.	24" HDPE storm sewer, complete in place @ per linear foot	\$	\$
20	464	230	L.F.	18" HDPE storm sewer, complete in place @ per linear foot	\$	\$
21	467	24	Ea.	Precast Safety End Treatment SET. Complete in place @ per each	\$	\$
22	164	4.42	Ac.	Hydromulch Seeding of ROW, incl. fertilizer & watering, complete in place @ per Acre	\$	\$
23	502	1	L.S.	Barricades, Signs & Traffic Control, complete in place @ per lump sum	\$	\$
24	506	1	L.S.	Temp Erosion Control, complete in place @ 	\$	\$
25	644	1	L.S.	Small Sign Assemblies, complete in place @ per lump sum	\$	\$

ltem No.	TxDO [*] Item N		. Unit	Description of Item with Unit Price Written in Words	Unit Price	Amount
26	666	4,402	L.F.	Reflect Pav. Marking Ty-II 4" Solid, White 0.90 Mil, including surface preparation, complete in place		
				@ per linear foot	\$	\$
27	666	4,118	L.F.	Reflect Pav. Marking Ty-II 4" Solid, Yellow 0.90 Mil, including surface preparation, complete in place @	\$	\$
20	666	100		per linear foot		
28	666	180	L.F.	Reflect Pav. Marking Ty-II 12" Solid, White 0.90 Mil, including surface preparation, complete in place @	\$	\$
				per linear foot		
29	666	62	L.F.	Reflect Pav. Marking Ty-II 24" Solid, White 0.90 Mil, including surface preparation, complete in place		
				@	\$	\$
				per linear foot		

* 2014 Texas Department of Transportation Standard Specifications for Construction and Maintenance of Highways, Streets, and Bridges

TOTAL AMOUNT BID

\$_____

IFB 23-009/JW.LANDSIDE ROAD PAVEMENT REPAIRS-JBRA PAGE 48 OF 73

Section D

and /100 Dollars

(Total Base Contract Price-Written)

Total number of <u>Calendar days</u> to complete: <u>270</u>

QUANTITIES OF WORK:

The quantities of work or material stated in unit price items of the Bid are supplied only to give an indication of the general scope of Work; the Owner does not expressly or by implication agree that the actual amount of work or material will correspond therewith, and reserves the right afterward to increase or decrease the quantity of any unit price item of the Work by any amount up to and including twenty percent (20%) of any Bid Item, without a change in the unit price, and shall have the right to delete any Bid Item in its entirety, or to add additional Bid Items up to and including an aggregate total amount not to exceed twenty percent (20%) of the Contract Price.

Bid Submitted by:	, Contractor
-------------------	--------------

Represented by: _____

Bid Prepared by:	. Estimator
	,,

_____, Estimator

_____, Title

BID SCHEDULE

ADDITIVE ALTERNATE #1 BID ITEMS – 3rd Street Segment A

Item No.	TxDO Item N		. Unit	Description of Item with Unit Price Written in Words	Unit Price	Amount
01	100	0.930	Ac.	Preparing Right-Of-Way, complete in place	\$	\$
				per Acre	φ	Φ
02	500	1	L.S.	Mobilization/demobilization, complete in place @	\$	\$
				per lump sum		
03	110	210	C.Y	Excavation, complete in place		
				per cubic yard		
04	132	156	C.Y	Embankment, complete in place		
				per cubic yard		
05	110	3,904	S.Y	Removing existing Concrete roadway, complete in place @	\$	\$
				per square yard		
06	360	2,521	S.Y.	7" Reinforced Concrete Pavement, complete in place	\$	\$
				per square yard		

ADDITIVE ALTERNATE #1 BID ITEMS – 3rd Street Segment A

ltem No.	TxDO Item N		Unit	Description of Item with Unit Price Written in Words	Unit Price	Amount
07	260	2,726	S.Y.	8" hydrated lime stabilized base (10%-12% DC) (In Place & Salvaged Fill), complete in place @	\$	\$
08	360	379	S.Y.	per square yard 7" Reinforced concrete driveway pavement, complete in place @		
				per square yard	\$	\$
09	360	68	S.Y.	5" Reinforced Concrete Pavement, complete in place @	\$	\$
10	465	13	Ea.	per square yard Concrete surface grate inlet,		
				complete in place @ per each	\$	\$
11	464	442	L.F.	24" HDPE storm sewer, complete in place @ per linear foot	\$	\$
12	464	140	L.F.	18" HDPE storm sewer, complete in place	\$	\$
13	464	332	L.F.	15" HDPE storm sewer, complete in place	\$	\$

ADDITIVE ALTERNATE #1 BID ITEMS – 3rd Street Segment A

ltem No.	TxDO ⁻ Item N		Unit	Description of Item with Unit Price Written in Words	Unit Price	Amount
14	464	195	L.F.	12" HDPE storm sewer, complete in place @ per linear foot	\$	\$
15	164	0.93	Ac.	Hydromulch Seeding of ROW, incl. fertilizer & watering, complete in place @ per Acre	\$	\$
16	502	1	L.S.	Barricades, Signs & Traffic Control, complete in place @ per lump sum	\$	\$
17	506	1	L.S.	Temp Erosion Control, complete in place @ per lump sum	\$	\$
18	644	1	L.S.	Small Sign Assemblies, complete in place @ per lump sum	\$	\$
19	666	1,635	L.F.	Reflect Pav. Marking Ty-II 4" Solid, White 0.90 Mil, including surface preparation, complete in place @ per linear foot	\$	\$

ADDITIVE ALTERNATE #1 BID ITEMS – 3rd Street Segment A

Item No.	TxDO ⁻ Item N		. Unit	Description of Item with Unit Price Written in Words	Unit Price	Amount
20	666	220	L.F.	Reflect Pav. Marking Ty-II 4" Broken, Yellow 0.90 Mil, including surface preparation, complete in place	\$	\$
21	666	35	L.F.	per linear foot Reflect Pav. Marking Ty-II 24" Solid, White 0.90 Mil, including surface preparation, complete in place @ per linear foot	\$	\$
22	666	16	E.A.	Reflect Pav. Marking Ty-II 18" White, Tri Yield 0.90 Mil, including surface preparation, complete in place @ per each	\$	\$

* 2014 Texas Department of Transportation Standard Specifications for Construction and Maintenance of Highways, Streets, and Bridges

ADDITIVE ALTERNATE #1 TOTAL AMOUNT BID

\$_____

BID SCHEDULE

ADDITIVE ALTERNATE #2 BID ITEMS – 3rd Street Segment B

Item No.	TxDO Item N		. Unit	Description of Item with Unit Price Written in Words	Unit Price	Amount
		y				
01	100	2.75	Ac.	Preparing Right-Of-Way, complete in place @ per Acre	\$	\$
02	500	1	L.S.	Mobilization/demobilization, complete in place @ per lump sum	\$	\$
03	110	400	C.Y	Excavation, complete in place @ per cubic yard		
04	132	297	C.Y	Embankment, complete in place @ 		
05	110	9,000	S.Y	Removing existing Concrete roadway, complete in place @ per square yard	\$	\$
06	360	4,302	S.Y.	7" Reinforced Concrete Pavement, complete in place @ per square yard	\$	\$

ADDITIVE ALTERNATE #2 BID ITEMS – 3rd Street Segment B

ltem No.	TxDO Item N		Unit	Description of Item with Unit Price Written in Words	Unit Price	Amount
07	260	4,652	S.Y.	8" hydrated lime stabilized base (10%- 12% DC) (In Place & Salvaged Fill), complete in place @	\$	\$
				per square yard		
08	360	735	S.Y.	7" Reinforced concrete driveway pavement, complete in place @	\$	\$
				per square yard		
09	465	8	Ea.	Concrete surface grate inlet, complete in place @	\$	\$
				per each		
10	465	2	Ea.	Concrete Junction Box with surface grate inlet, complete in place @ per each	\$	\$
11	760	1,314	L.F.	Grade proposed roadside ditches, complete in place @ per linear foot	\$	\$
12	464	351	L.F.	24" HDPE storm sewer, complete in place	\$	\$
13	464	465	L.F.	18" HDPE storm sewer, complete in place @ per linear foot	\$	\$

ADDITIVE ALTERNATE #2 BID ITEMS – 3rd Street Segment B

Item No.	TxDO Item N		Unit	Description of Item with Unit Price Written in Words	Unit Price	Amount
14	464	36	L.F.	12" HDPE storm sewer, complete in place @ per linear foot	\$	\$
15	467	9	Ea.	Precast Safety End Treatment SET. Complete in place @ per each	\$	\$
16	164	2.75	Ac.	Hydromulch Seeding of ROW, incl. fertilizer & watering, complete in place @ per Acre	\$	\$
17	502	1	L.S.	Barricades, Signs & Traffic Control, complete in place @ per lump sum	\$	\$
18	506	1	L.S.	Temp Erosion Control, complete in place @ per lump sum	\$	\$
19	644	1	L.S.	Small Sign Assemblies, complete in place @ per lump sum	\$	\$
20	666	2,447	L.F.	Reflect Pav. Marking Ty-II 4" Solid, White 0.90 Mil, including surface preparation, complete in place @ per linear foot	\$	\$

ADDITIVE ALTERNATE #2 BID ITEMS – 3rd Street Segment B

ltem No.	TxDO ⁻ Item N		Unit	Description of Item with Unit Price Written in Words	Unit Price	Amount
21	666	400	L.F.	Reflect Pav. Marking Ty-II 4" Broken, Yellow 0.90 Mil, including surface preparation, complete in place		
				@ per linear foot	\$	\$
22	666	18	L.F.	Reflect Pav. Marking Ty-II 24" Solid, White 0.90 Mil, including surface preparation, complete in place		
				@ per linear foot	\$	\$

* 2014 Texas Department of Transportation Standard Specifications for Construction and Maintenance of Highways, Streets, and Bridges

ADDITIVE ALTERNATE #2 TOTAL AMOUNT BID

\$_____

CONTRACTOR'S PERSONNEL: The Bidder agrees to employ the following individuals for the entire duration of the Work at the positions indicated, and agrees not to remove them from the Work and replace them with others except as otherwise allowed in the Contract Documents.

Project Manager:	

Superintendent:

Project Clerk:

	BIDDER ACKNOWLEDGEMENT O	F BID ADDENDA (IF APPLICABLE):
	Addendum 1 I	Date Received
	Addendum 2 I	Date Received
	Addendum 3 I	Date Received
	BIDDER: INCLUDE FULL, SIGNE ADDENDUM ISSUED WITH BID S	D, & ATTESTED COPY OF EACH UBMISSION.
1		

VENDOR REFERENCES FORM

referably a m	st at least three (3) companies or gove unicipality) where the same or simila ined in this specification package were	ar products and/or	REQUIRED FORM <u>Bidder</u> : Please complete this form and include with bid submission.
REFERENCE	ONE		
Government	Company Name:		
Address:			
Contact Pers	on and Title:		
Phone:		Fax:	
Email Addres	ss:	Contract Perio	od:
Scope of Wo	ork:		
REFERENCE	TWO		
Government	Company Name:		
Address:			
Contact Pers	on and Title:		
Phone:		Fax:	
Email Addres	55:	Contract Perio	od:
Scope of Wo	rk:		
REFERENCE	THREE vernment/Company Name:		
	Address:		
	Contact Person and Title:		
-	Phone:		
	Email Address:	Fax:	
	Scope of Work:	Contract Perio	od:
	IFB 23-009/JW.LANDSIDE ROAD PAVE JBRA PAGE 59 OF 73	MENT REPAIRS-	

As permitted under Article 4413 (32c) V.A.C.S., other governmental entities may wish to participate under the same terms and conditions contained in this contract (i.e., piggyback). In the event any other entity participates, all purchase orders will be issued directly from and shipped directly to the entity requiring supplies/services. Jefferson County shall not be held responsible for any orders placed, deliveries made or payment for supplies/services ordered by another entity. Each entity reserves the right to determine their participation in this contract.

This bid shall remain in effect for ninety (90) days from bid opening and shall be exclusive of federal excise and state and local sales tax (exempt).

The undersigned agrees, if this bid is accepted, to furnish any and all items upon which prices are offered, at the price and upon the terms and conditions contained in the Invitation for Bid, Conditions of Bidding, Terms of Contract, and Specifications and all other items made a part of the accepted contract.

The undersigned affirms that they are duly authorized to execute the contract, that this company, corporation, firm, partnership or individual has not prepared this bid in collusion with any other Bidder, and that the contents of this bid as to prices, terms or conditions of said bid have not been communicated by the undersigned nor by any employee or agent to any other Bidder or to any other person(s) engaged in this type of business prior to the official opening of this bid. And further, that neither the Bidder nor their employees nor agents have been for the past six (6) months directly nor indirectly concerned in any pool or agreement or combination to control the price of goods or services on, nor to influence any person to bid or not to bid thereon.

Bidder (Entity Name)	Signature
Street & Mailing Address	Print Name
City, State & Zip	Date Signed
Telephone Number	Fax Number
E-mail Address	

Certification for Contracts, Grants, Loans, and Cooperative Agreements

The undersigned certifies, to the best of his or her knowledge and belief, that:

1. No Federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of an agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.

2. If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form-LLL, "Disclosure Form to Report Lobbying," in accordance with its instructions.

3. The undersigned shall require that the language of this certification be included in the award documents for all subawards at all tiers (including subcontracts, subgrants, and contracts under grants, loans, and cooperative agreements) and that all subrecipients shall certify and disclose accordingly.

This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by section 1352, title 31, U.S. Code. Any person who fails to file the required certification shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.

The Contractor, certifies or affirms the truthfulness and accuracy of each statement of its certification and disclosure, if any. In addition, the Contractor understands and agrees that the provisions of 31 U.S.C. Chap. 38, Administrative Remedies for False Claims and Statements, apply to this certification and disclosure, if any.

Signature of Contractor's Authorized Official

Name and Title of Contractor's Authorized Official (Please Print)

Date

CONFLICT OF INTEREST QUESTIONNAIRE For vendor doing business with local governmental entity	FORM CI
This questionnaire reflects changes made to the law by H.B. 23, 84th Leg., Regular Session.	OFFICE USE ONLY
This questionnaire is being filed in accordance with Chapter 176, Local Government Code, by a vendor who has a business relationship as defined by Section 176.001(1-a) with a local governmental entity and the vendor meets requirements under Section 176.006(a). By law this questionnaire must be filed with the records administrator of the local governmental entity not later than the 7th business day after the date the vendor becomes aware of facts hat require the statement to be filed. <i>See</i> Section 176.006(a-1), Local Government Code. A vendor commits an offense if the vendor knowingly violates Section 176.006, Local	Date Received
Bovernment Code. An offense under this section is a misdemeanor. Name of vendor who has a business relationship with local governmental entity.	
Check this box if you are filing an update to a previously filed questionnaire. (The law requires that you file an updated completed questionnaire with the applater than the 7th business day after the date on which you became aware that the origin complete or inaccurate.)	
 This section (item 3 including subparts A, B, C, & D) must be completed for each officer of employment or other business relationship as defined by Section 176.001(1-a), Local Govern pages to this Form CIQ as necessary. A. Is the local government officer named in this section receiving or likely to receive taxable in the local government officer named in this section receiving or likely to receive taxable in the local government of the section the section taxable in the local government officer named in this section receiving or likely to receive taxable in the section taxable in taxable in the section taxable in taxable in the section taxable in the section taxable in taxable in	ment Code. Attach additional
income, from the vendor?	
Yes No	
B. Is the vendor receiving or likely to receive taxable income, other than investment income, fror government officer named in this section AND the taxable income is not received from the log	
B. Is the vendor receiving or likely to receive taxable income, other than investment income, from the second s	al governmental entity? th respect to which the local
B. Is the vendor receiving or likely to receive taxable income, other than investment income, from government officer named in this section AND the taxable income is not received from the low Ves No C. Is the filer of this questionnaire employed by a corporation or other business entity w government officer serves as an officer or director, or holds an ownership interest of one period Yes No	al governmental entity? th respect to which the local cent or more?
 B. Is the vendor receiving or likely to receive taxable income, other than investment income, from government officer named in this section AND the taxable income is not received from the loc Yes No C. Is the filer of this questionnaire employed by a corporation or other business entity w government officer serves as an officer or director, or holds an ownership interest of one per Yes No D. Describe each employment or business and family relationship with the local government 	al governmental entity? th respect to which the local cent or more?
B. Is the vendor receiving or likely to receive taxable income, other than investment income, from government officer named in this section AND the taxable income is not received from the loc Ves No C. Is the filer of this questionnaire employed by a corporation or other business entity w government officer serves as an officer or director, or holds an ownership interest of one period Yes No	al governmental entity? th respect to which the local cent or more?

LOCAL GOVERNMENT OFFICER CONFLICTS DISCLOSURE STATEMENT – OFFICE USE ONLY

	MENT OFFICER	FORM CIS
CONFLICTS DISC	CLOSURE STATEMENT	
This questionnaire reflects chan	ges made to the law by H.B. 23, 84th Leg., Regular Session.	OFFICE USE ONLY
	opriate local governmental entity that the following local e aware of facts that require the officer to file this statement 6, Local Government Code.	Date Received
Name of Local Governmen	l Officer	
Office Held		
Name of vendor described	by Sections 176.001(7) and 176.003(a), Local Government	Code
Description of the nature a	nd extent of employment or other business relationship wi	th vendor named in item 3
from vendor named in item	ocal government officer and any family member, if aggreg a sexceeds \$100 during the 12-month period described by Description of Gift	Section 176.003(a)(2)(B).
Date Gift Accepted	Description of Gift	
Date Gift Accepted	Description of Gift	
	(attach additional forms as necessary)	
AFFIDAVIT	I swear under penalty of perjury that the above statement is	
	that the disclosure applies to each family member (as defin Government Code) of this local government officer. I also covers the 12-month period described by Section 176.003(s	ned by Section 176.001(2), Local acknowledge that this statement
	Government Code) of this local government officer. I also covers the 12-month period described by Section 176.003(a	ned by Section 176.001(2), Local acknowledge that this statement
AFFIX NOTARY STAMP / SE	Government Code) of this local government officer. I also covers the 12-month period described by Section 176.003(a Signature of Local of AL ABOVE	ned by Section 176.001(2), Local acknowledge that this statement a)(2)(B), Local Government Code. Government Officer
Sworn to and subscribed before	Government Code) of this local government officer. I also covers the 12-month period described by Section 176.003(a 	ned by Section 176.001(2), Local acknowledge that this statement a)(2)(B), Local Government Code.
Sworn to and subscribed before	Government Code) of this local government officer. I also covers the 12-month period described by Section 176.003(a Signature of Local of AL ABOVE	ned by Section 176.001(2), Local acknowledge that this statement a)(2)(B), Local Government Code. Government Officer

THIS FORM IS FOR OFFICE USE ONLY

Bidder intends to utilize subcontractors/subconsultants in the fulfillment of this contract (if awarded).

Instructions: In order to determine if a "Good Faith Effort" was made in soliciting DBEs for subcontracting opportunities, the following checklist and supporting documentation shall be completed by the Prime Contractor/Consultant, and returned with the Prime Contractor/ Consultant's bid. This list contains the **minimum** efforts that should be put forth by the Prime Contractor/Consultant when attempting to achieve or exceed the goals of DBE Subcontractor participation. The Prime Contractor/Consultant may extend his/her efforts in soliciting DBE Subcontractor participation beyond what is listed below.

Did the Prime Contractor/Consultant ...?

□ Yes	□ No	1.	To the extent practical, and consistent with standard and prudent industry standards, divide the contract work into the smallest feasible portions, to allow for maximum DBE Subcontractor participation?
□ Yes	□ No	2.	Notify in writing a reasonable number of DBEs, allowing sufficient time for effective participation of the planned work to be subcontracted?
□ Yes	🗆 No	3.	Provide DBEs that were genuinely interested in bidding on a subcontractor, adequate information regarding the project (i.e., plans, specifications, scope of work, bonding and insurance requirements, and a point of contract within the Prime Contractor/Consultant's organization)?
□ Yes	□ No	4.	Negotiate in good faith with interested DBEs, and not reject bids from DBEs that qualify as lowest and responsive Bidders?
□ Yes	□ No	5.	Document reasons DBEs were rejected? Was a written rejection notice, including the reason for rejection, provided to the rejected DBEs?
🗆 Yes	🗆 No	6.	If Prime Contractor/Consultant has zero (0) DBE participation, please explain the reasons why.

If "No" was selected, please explain and include any pertinent documentation with your bid. If necessary, please use a separate sheet to answer the above questions.

Printed Name of Authorized Representative

Signature

Title

Date

NOTICE OF INTENT (NOI) TO SUBCONTRACT WITH DISADVANTAGED BUSINESS ENTERPRISE (DBE)

Bidder intends to utilize subcontractors/subconsultants in the fulfillment of this contract (if awarded).

Instructions for Prime Contractor/Consultant: Bidder shall submit this form with the bid; however, the information below may be submitted after contract award, but prior to beginning performance on the contract. Please submit one form for each DBE Subcontractor/Subconsultant with proper signatures, per the terms and conditions of your contract.

Contractor Name:				_ DBE: 🗌 Yes	🗌 No
Address:	<u> </u>	<u>Classe</u>	7.		
Street	City	State	Zip		
Phone (with area code):		Fax (w	ith area code):		
Project Title & No.:					
Prime Contract Amount: \$		-			
DBE Subcontractor Name:					
DBE Status (Gender & Ethnicity):					
Certifying Agency: 🛛 Tx. Bldg	& Procurement Comm.	□ Jefferson County	🗆 Tx Unified C	Certification Prog.	
Address:					
Street	City	State	Zip		
Phone (with area code):		Fax (w	ith area code):		
Proposed Subcontract Amount:	\$	Perc	entage of Prime	Contract:	%
Description of Subcontract Work t	o be Performed:				
Printed Name of Contractor Represe	entative	Signature of Represen	tative	Da	te
Printed Name of DBE		Signature of Represen	tative	Da	te
Note: Nothing on this Notice of			-	-	
for Subcontractor Substitutions Subcontractor/Subconsultant Ch	must be obtained from	n the Jefferson Coun	ty Purchasing	Agent's Represent	
REQUIRED FORM					

DISADVANTAGED BUSINESS ENTERPRISE (DBE) SUBCONTRACTING PARTICIPATION DECLARATION FORM

PAGE 1 OF 4

Prime Contractor:						DBE: 🗌 Ye	s 🗌 No
DBE Status (Gender &	Ethnicity):						
Address:							
	Street		City	State	Zip		
Phone (with area code	e):			Fax (w	ith area code):		
Project Title & No.:					IFB/RFP No.:		
Fotal Contract: \$				Total DBE S	Subcontract(s):	\$	
Construction DBE Goa	ls: <u>10.01 %</u>				WBE:	<mark>10.01%</mark>	
Sul	b-goals: 1.7 Afr		•	anic, 0.7% Native as a guide to dive		% Asian American.	
	<i>(</i> •						
		wed and verifie	d DBE Sub in	ormation	Date:	Initials:	
Verification date DBE Pro	gram Office revie		d DBE Sub in	ormation	Date:	Initials:	
Verification date DBE Pro	gram Office revie	CLOSURE		ormation			
DR DBE OFFICE USE ONLY Verification date DBE Pro ART I. DBE SUBCON DBE Subcontractor Nat DBE Status (Gender &	gram Office revie	CLOSURE					
Verification date DBE Pro ART I. DBE SUBCON DBE Subcontractor Nai DBE Status (Gender &	gram Office revie						
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Verification date DBE Pro ART I. DBE SUBCON DBE Subcontractor Nat DBE Status (Gender & ertifying Agency: Address:	gram Office revie						
Verification date DBE Pro ART I. DBE SUBCON DBE Subcontractor Nat DBE Status (Gender & ertifying Agency: Address:	ITRACTOR DIS me: Ethnicity): Texas Bldg Street		nt Comm. City	Texas Unified	Certification F Zip		
Verification date DBE Pro ART I. DBE SUBCON DBE Subcontractor Nai DBE Status (Gender & ertifying Agency: Address:	ITRACTOR DIS me: Ethnicity): Texas Bldg Street	& Procuremen	nt Comm. City	Texas Unified State	Certification F Zip	Prog.	
Verification date DBE Pro ART I. DBE SUBCON DBE Subcontractor Nai DBE Status (Gender & ertifying Agency: Address: Contact person: Phone (with area code	ITRACTOR DIS me: Ethnicity): Texas Bldg Street :):	& Procuremen	nt Comm. City	Texas Unified State Title Fax (w	Certification F Zip e: ith area code):	Prog.	
Verification date DBE Pro ART I. DBE SUBCON DBE Subcontractor Nat DBE Status (Gender & ertifying Agency: Address:	ITRACTOR DIS me: Ethnicity): Texas Bldg Street :): Amount:	& Procuremen	nt Comm. City	Texas Unified State Title Fax (w	Certification F Zip e: ith area code):	Prog.	

DISADVANTAGED BUSINESS ENTERPRISE (DBE) SUBCONTRACTING PARTICIPATION DECLARATION FORM

PAGE 2 OF 4

DBE Subcontractor Disclosure

PART I: Continuation Sheet (Duplicate as Needed)

DBE Status (Gender	& Ethnicity):				
Certifying Agency:	🗌 Tx. Bldg & P	rocurement Comm.	Jefferson County	Tx Unified Certification Prog.	
Address:					
	Street	City	State	Zip	
Contact person:			Title:		
Phone (with area co	ode):		Fax (with	area code):	
Proposed Subcontra	act Amount:	\$	Percer	ntage of Prime Contract:	%
Description of Subc	ontract Work to be	Performed:			
·					
DBE Subcontractor	Name:				
DBE Subcontractor DBE Status (Gender					
DBE Status (Gender	& Ethnicity):				
DBE Status (Gender Certifying Agency:	& Ethnicity):				
DBE Status (Gender	& Ethnicity):	rocurement Comm.		Tx Unified Certification Prog.	
DBE Status (Gender Certifying Agency: Address:	& Ethnicity):	rocurement Comm. City	Jefferson County State	Tx Unified Certification Prog.	
DBE Status (Gender Certifying Agency:	& Ethnicity):	rocurement Comm.	Jefferson County State	Tx Unified Certification Prog.	
DBE Status (Gender Certifying Agency: Address:	& Ethnicity):	rocurement Comm. City	Jefferson County State Title:	Tx Unified Certification Prog.	
DBE Status (Gender Certifying Agency: Address: Contact person:	& Ethnicity):	rocurement Comm. City	Jefferson County State Title: Fax (with	Tx Unified Certification Prog.	
DBE Status (Gender Certifying Agency: Address: Contact person: Phone (with area co	& Ethnicity): Tx. Bldg & P Street ode): act Amount:	rocurement Comm. City	Jefferson County State Title: Fax (with Percer	Tx Unified Certification Prog.	%

All DBE Subcontractor Participation may be verified with the DBE Subcontractor(s) listed on Part I.

DISADVANTAGED BUSINESS ENTERPRISE (DBE) SUCONTRACTING PARTICIPATION DECLARATION FORM

PAGE 3 OF 4

PART II: STATEMENT OF NON-COMPLIANCE FOR NOT MEETING DBE SUBCONTRACTING GOALS Please complete Good Faith Effort (GFE) Checklist and attach any supporting documentation.

Our firm was unable to meet the DBE goals for this project for the following reasons:

	All subcontractors to be utilized are "Non-DBEs." (Complete Part III)		
	DBEs were solicited but did not respond.		
	DBEs solicited were not competitive.		
	DBEs were unavailable for the following trade(s):		
	Other:		
Was the .	lefferson County DBE Office contacted for assistance in locating DBEs?	Yes	🗌 No

PART III: DISCLOSURE OF OTHER "NON-DBE" SUBCONTRACTS

The Bidder shall use this area to provide a listing of all "Non-DBE" Subcontractors, including suppliers, that will perform under this project. A list of those "Non-DBE" Subcontractors the Bidder selects, after bid submission, shall be provided to the Purchasing Office not later than five (5) calendar days after being notified that Bidder is the apparent low Bidder. A list of those "Non-DBE" Subcontractors that are selected after contract award must be provided **immediately** after their selection.

Phone (with area code): Fax Proposed Subcontract Amount: \$ Description of Subcontract Work to be Performed: ubcontractor Name: ubcontractor Name: Street City Street City Stat Contact person: Phone (with area code): Fax Proposed Subcontract Amount: \$	Zip cle: with area code): rcentage of Prime Contract:%
Phone (with area code): Fax Proposed Subcontract Amount: \$ Description of Subcontract Work to be Performed: ubcontractor Name: ubcontractor Name: Street City Street City Stat Contact person: Phone (with area code): Fax Proposed Subcontract Amount: \$	with area code): rcentage of Prime Contract:%
Proposed Subcontract Amount: \$ Description of Subcontract Work to be Performed: ubcontractor Name: ubcontractor Name: Street City Street City Stat Contact person: Phone (with area code): Fax Proposed Subcontract Amount: \$	rcentage of Prime Contract:%
Description of Subcontract Work to be Performed: ubcontractor Name:	
ubcontractor Name: ddress: Street City Stat Contact person: Phone (with area code): Proposed Subcontract Amount: \$	
ubcontractor Name: ddress: Street City Stat Contact person: hone (with area code): roposed Subcontract Amount: \$	
Street City Stat Contact person:	
Street City Stat Contact person:	
Street City Stat Contact person:	
roposed Subcontract Amount: \$	Zip
roposed Subcontract Amount: \$:le:
	with area code):
an aviation of Culture that Allock to be Deeferment.	rcentage of Prime Contract:%
Description of Subcontract Work to be Performed:	
REQUIRED FORM	

and include with bid submission.

DISADVANTAGED BUSINESS ENTERPRISE (DBE) SUBCONTRACTING PARTICIPATION DECLARATION FORM

Subcontractor Name:	
Address:	
Street City	State Zip
Contact person:	Title:
Phone (with area code):	- /
Proposed Subcontract Amount: \$	Percentage of Prime Contract: %
Description of Subcontract Work to be Performed:	
Subcontractor Name:	
Address:	
Street City	State Zip
Contact person:	Title:
Phone (with area code):	Fax (with area code):
Proposed Subcontract Amount: \$	Percentage of Prime Contract:%
Description of Subcontract Work to be Performed:	

Name (print or type):	
Title:	
Signature:	
Date:	
E-mail address:	
Contact person that will be in charge of invoicing for this project:	
Name (print or type):	
Title:	REQUIRED FORM
Date:	<u>Bidder</u>: Please complete this form and include with bid submission.

-

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Pursuant to Texas Government Code §2252.001 *et seq.*, as amended, Jefferson County requests Resident Certification. §2252.001 *et seq.* of the Government Code provides some restrictions on the awarding of governmental contracts; pertinent provisions of §2252.001 are stated below:

- (3) "Non-resident Bidder" refers to a person who is not a resident.
- (4) "Resident Bidder" refers to a person whose principal place of business is in this state, including a contractor whose ultimate parent company or majority owner has its principal place of business in this state.
- □ I certify that _____ [company name] is a Resident Bidder of Texas as defined in Government Code §2252.001.
- I certify that _____ [company name] is a Nonresident Bidder as defined in Government Code §2252.001 and our principal place of business is ______ (city and state).

Taxpayer Identification	n Number (T.I.N.):			
Company Name subm	itting bid/proposal:			
Mailing address:				
If you are an individual, list the names and addresses of any partnership of which you are a general partner:				

Property: List all taxable property owned by you or above partnerships in Jefferson County.

Jefferson County Tax Acct. No.*	Property address or location**

* This is the property amount identification number assigned by the Jefferson County Appraisal District.

** For real property, specify the property address or legal description. For business property, specify the address where the property is located. For example, office equipment will normally be at your office, but inventory may be stored as a warehouse or other location.

I, _____, the undersigned representative of (company or business name)______ (heretofore referred to as company) being an adult over the age of eighteen (18) years of age, after being duly sworn by the undersigned notary, do hereby depose and verify under oath that the company named above, under the provisions of Subtitle F, Title 10, Government Code Chapter 2270:

- 1. Does not boycott Israel currently; and
- 2. Will not boycott Israel during the term of the contract.

Pursuant to Section 2270.002, Texas Government Code:

1. **"Boycott Israel**" means refusing to deal with, terminating business activities with, or otherwise taking any action that is intended to penalize, inflict economic harm on, or limit commercial relations specifically with Israel, or with a person or entity doing business in Israel or in an Israeli-controlled territory, but does not include an action made ordinary business purposes; and

2. "**Company**" means a for-profit sole proprietorship, organization, association, corporation, partnership, joint venture, limited partnership, limited liability partnership, or an limited liability company, including a wholly owned subsidiary, majority-owned subsidiary, parent company or affiliate of those entities or business association that exist to make a profit.

Signature of Company Re	presentative	
Date		
On this day of _	, 20	_, personally appeared
duly sworn, did swear a	nd confirm that the al	, the above-named person, who after by me being pove is true and correct.
Notary Seal	Notary Signatur	 ′e
	Date	

On this day, I, Deborah L. Clark, Purchasing Agent for Jefferson County, Texas, pursuant to Texas Government Code, Chapter 2252, Section 2252.152 and Section 2252.153, certify that I did review the website of the Comptroller of the State of Texas concerning the listing of companies that is identified under Section 806.051, Section 807.051, or Section 2253.253 and I have ascertained that the below named company is not contained on said listing of companies which do business with Iran, Sudan, or any Foreign Terrorist Organization.

Company Name

IFB/RFP/RFQ number

Certification check performed by:

Purchasing Representative

Date

The undersigned certifies that the bid prices contained in this bid have been carefully reviewed and are submitted as correct and final. Bidder further certifies and agrees to furnish any and/or all commodities upon which prices are extended at the price offered, and upon the conditions contained in the specifications and the Notice to Bidders.

STATE OF	COUNTY OF
BEFORE ME, the undersigned autho	prity, a Notary Public in and for the State of,
on this day personally appeared	, who
after being by me duly sworn, did d	(name)
after being by the duty sworth, did d	epose and say.
"I,	am a duly authorized officer of/agent
(name)	
for (name of firm)	and have been duly authorized to execute the
	(name of firm)
or persons engaged in the same line Bidder is not now, nor has been f agreement or combination, to cont persons to bid or not to bid thereor	bid has not been prepared in collusion with any other Bidder or other person e of business prior to the official opening of this bid. Further, I certify that the for the past six (6) months, directly or indirectly concerned in any pool or trol the price of services/commodities bid on, or to influence any person or n."
 Fax:	
by:(print name)	Title:
SUBSCRIBED AND SWORN to before	e me by the above-named
	on
this the day of	, 20
REQUIRED FORM <u>Bidder</u> : Please complete this form and include with bid submission.	Notary Public in and for the State of

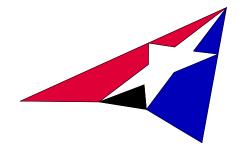
INVITATION FOR BID (IFB 23-009/JW)

LANDSIDE ROAD PAVEMENT REPAIRS AT JACK BROOKS REGIONAL AIRPORT

TECHNICAL SPECIFICATIONS, PLAN SHEETS, AND GEOTECHNICAL SURVEY

TECHNICAL SPECIFICATIONS

JANUARY 2023



Jack Brooks Regional Airport Landside Road Pavement Repairs



Consulting Engineers and Land Surveyors 1405 CORNERSTONE COURT BEAUMONT, TEXAS 77706 (409) 832-7238 T.B.P.E. FIRM #1160 T.X.L.S. FIRM #100186

FS 21200

January 9, 2023

General Notes and Specifications

General Notes:

- 1. The contractor will establish the project control point, points of tangency, pi's (points of intersections), point of curvature (pc, pi and pt) and bench mark at the beginning and end of the project.
- 2. The contractor shall furnish all lines, grades and benchmarks, other than those specified above. Notify the Engineer immediately if discrepancies are discovered in the horizontal control or the benchmark data.
- 3. References to manufacturer's trade name or catalog numbers are for the purpose of identification only. Similar materials from other manufacturers are permitted if they are of equal quality, comply with the specifications for this project, and are approved, except for roadway illumination, electrical, and traffic signal items.
- 4. The lengths of the posts for ground mounted signs are approximate. Verify the lengths before ordering these materials to meet the existing field conditions and to conform to the minimum sign mounting heights shown in the plans.
- 5. Unless otherwise shown on the plans or otherwise directed, commence work after sunrise and ensure construction equipment is off the road by sunset.
- 6. Do not mix or store materials, or store or repair equipment, on top of concrete pavement or bridge decks unless authorized by the Engineer. Permission will be granted to store materials on surfaces if no damage or discoloration will result.
- 7. The contractor will assume ownership of debris and dispose of at an approved location. Do not dispose of debris on private property unless approved in writing by the Engineer.
- 8. Control the dust caused by construction operations. For sweeping the finished concrete pavement, use one of the following types of sweepers or equal:

Tricycle Type	Truck Type-4 Wheel
Wayne Series 900	M-B Cruiser II
Elgin White Wing	Wayne Model 945
Elgin Pelican	Mobile TE-3
	Mobile TE-4
	Murphy 4042

- 9. Schedule construction operations such that preparing individual items of work follows in close sequence to constructing storm drains in order to provide as little inconvenience as practical to the businesses and residents along the project.
- 10. Contractor shall limit his work zone for pavement demolition and concrete placement to three (3) blocks. Concrete placement for new pavement must be complete within one (1) block of the

existing roadway/pavement before demolition in the next three (3) blocks can be initiated.

- 11. Schedule work so that the base placement operations follow the subgrade work as closely as practical to reduce the hazard to the traveling public and to prevent undue delay caused by wet weather.
- 12. The Contractor's construction schedule shall be based upon the Contract Time. The Contract Time has an inclusion of Thirty (30) calendar days of inclement weather as defined in Article 54.b, c & d of the General Conditions. No request for an extension of Contract time will be considered until the actual number of inclement weather days exceeds the number of days set out herein.
- 13. When design details are not shown on the traffic control plans, modifications to the proposed traffic control plan to meet site conditions by either adding more detour, warning and traffic signs as approved by the engineer shall not be paid for separately but shall be considered subsidiary to the traffic control bid items. Temporary pavement markings will be paid for under its unit bid item cost. Signs and arrows shall conform to the latest "Standard Highway Sign Designs for Texas" manual.
- 14. County forces will maintain the existing section of streets and its appurtenances not a part of this project except that those sections damaged by the contractor's forces shall be repaired by the contractor at his entire expense.
- 15. The contractor shall be responsible for all maintenance of the travel way and appurtenances within the barricades for the duration of the project. No direct payment will be made for maintenance of the travel way and appurtenances within the barricades, but shall be subsidiary to various bid items.
- 16. All authorized waste material shall become the property of the contractor and shall be disposed of at a place off the right-of-way and approved by the engineer.
- 17. The contractor shall maintain adequate drainage throughout the limits of the project during all construction phases.
- 18. The contractor shall allow county forces to enter this project to accomplish such work as shown in the plans (by others) and as may be deemed necessary by the engineer.
- 19. All drainage structures shall be cleaned and outfall channels unobstructed at the time of acceptance by the county.
- 20. Ingress and egress to adjacent property shall be provided and maintained by the contractor at all times. This will not be paid for separately but shall be considered subsidiary to various bid Items.
- 21. The Contractor will utilize an independent Geotechnical Testing Laboratory to sample all concrete structures and make and test all concrete cylinders and test all roadway density controlled base and or subgrades in accordance with the test methods provided for under the TxDOT Standard Specifications for Construction of Highways, and Bridges (Adopted November 2014). This will not be paid for separately but shall be considered subsidiary to various bid Items.

22. The approximate locations of the known underground utility installations are shown on the plans. The contractor shall be responsible for confirming the exact location of these utility lines and of any others which may exist. No delay claim is allowed because of utility conflicts. It shall be the contractor's responsibility to notify the utility involved in case of conflict or damage and the contractor shall be held responsible for any damage that occurs due to negligence. Where the contractor encounters abandoned lines that interfere with the construction of this project, such lines shall be removed and disposed of by the contractor. There will be no direct payment for this work and it shall be considered subsidiary to the various bid items in the contract. Before excavating near existing utilities, contact the utility companies or the utility coordinating committee for exact locations to prevent damage or interference with present facilities. Notify the utility coordinating committee and the Texas One Call System. at the following numbers:

Texas One Call, toll-free 1-800-245-4545

<u>UTILITY</u>	<u>TELEPHONE NO.</u>	CONTACT PERSON
AT & T Telephone Company	O: 409.839.7851 M: 409.924.1495	Eddie Cook
	O: 409.893.1666 M: 409.291.9489	Cliff Palermo
Texas Gas Service	O: 409.963.0263 M: 409.460.9236	Patrick Sam
City of Nederland Public Works	O: 409.723.1541	Robert Woods
Entergy	O: 409.982.5810 M: 409.974.8663	Ron Fletcher
Spectrum	O: 409.720.5565	Adam LaRive

This action does not relieve the Contractor of the responsibilities under the terms of the contract or the plans and specifications. Damage caused by the Contractor's operations shall be repaired and restored to service in a timely manner at no expense to the County.

- 23. Notify the Engineer at least 48 hours before constructing junction boxes at intersections of storm drains and utilities.
- 24. Install or remove poles, street lights and luminaires located near overhead or underground electrical lines using established industry and utility safety practices. Consult the appropriate utility company before beginning such work.
- 25. If overhead or underground power lines need to be de-energized, contact the electrical service provider to perform this work. Costs associated with de-energizing the power lines or other protective measures required are at no expense to the County.

- 26. If working near power lines, comply with the appropriate sections of Texas State Law and Federal Regulations relating to the type of work involved.
- 27. Perform electrical work in conformance with the National Electrical Code (NEC) and County standard sheets.
- 28. All materials, labor and incidentals required for the contractor to provide for traffic across the streets and for temporary ingress and egress to private property shall be furnished by the contractor at no additional cost to the county and shall be considered as incidental to the various bid items in this project.
- 29. The contractor shall furnish a certified tabulation of measurements, tare weights and allowable legal gross weight calculations for all trucks, etc., prior to their use on the project. Each truck shall be identified by a permanent and plainly legible number located on the truck and on the bed of the truck and/or trailer.
- 30. Any storm water permit and associated fees required for construction of this project shall be at the contractor's expense. Also, any temporary erosion, sediment and water control measures required shall be in accordance with the details shown in the plans and all work and materials required shall be paid for under the item "Temporary Erosion, Sedimentation & Environmental Controls".
- 31. Storm water grading permit is required for this project and shall be filed by the contractor at the contractor's expense.
- 32. Procure all the necessary city, county and/or state permits and licenses before the start of this project.
- 33. Prepare, maintain and submit for approval, a project schedule using CPM or similar project planning method. Also, submit contractor's contact personnel's telephone or cell phone numbers in case of emergencies during and after working hours.
- 34. Move existing signs, mailboxes, delineators and any other similar obstructions that interfere with construction to temporary locations approved by the engineer. Move them back to their permanent positions when the work progresses to the point where this is possible. Place the sign post back in accordance with the applicable standard sheets. (Pozloc System). This will not be paid for directly and will be considered subsidiary to various bid items.
- 35. The contractor shall maintain adequate drainage throughout the limits of the project during all construction phases. The contractor will provide all necessary labor, equipment, temporary conveyance materials and all other incidentals and cost associated with this task to prevent flooding of roadway pavements, roadside ditches and properties on areas were construction work has started and/or on areas within project limits that will affect public safety and property damage during a storm event. Storm water will be conveyed and discharged into existing and new storm sewer structures. This work will not be measured or paid for directly but will be subsidiary to pertinent items. On areas within scope of work where water is ponding and or flooding during a rain event and as directed by the engineer, the contractor shall provide drainage and maintain temporary drainage structures and facilities which are necessary to facilitate drainage. All incidental labor, equipment, temporary material and incidental cost will not be measured or paid for directly but will be subsidiary to pertinent items.
- 36. Care shall be taken when moving existing property irrigation or sprinkling water facilities and its

appurtenances that interfere with construction. Contractor shall temporarily relocate or disassemble, disable, and plug these facilities at their temporary location. Contractor shall restore, reconnect and activate property irrigation or sprinkling facilities its original condition or better when work is completed. This work will not be measured or paid for directly but will be subsidiary to pertinent items.

Specifications:

ITEM 5: CONTROL OF WORK

Any earthwork cross-sections, computer printouts, data files and any other information provided is for non-construction purposes only and it is the responsibility of the prospective bidder to validate the data with the appropriate plans, specifications and estimates for the projects. Contact the Fittz & Shipman, Inc. located at 1405 Cornerstone Court (409) 832-7238.

ITEM 7: LEGAL RELATIONS AND RESPONSIBILITIES

Furnish all materials, labor and incidentals required to provide for traffic across the highway and for temporary ingress and egress to private property in accordance with article 7.7 of the standard specifications at no additional cost to the County. This shall be incidental to the bid items on this project.

Maintain the roadway slope stability. Temporary retaining structures or shoring may be required. Before installing any proposed temporary retaining structures or shoring, secure written approval. Submit design calculations, working drawings and a plan of operations including sequencing. Maintaining slope stability is subsidiary to the various bid items.

This contract requires work performed on railroad property. Cooperate with the railroads and comply with all of their requirements including obtaining any training they require before performing work on railroad property.

ITEM 8: PROSECUTION AND PROGRESS

Gather information and direct attention to the aspects of adjoining projects that may be in progress during the construction of a portion of this project. Plan and prosecute the sequence of construction and the traffic control plan with adjacent construction projects so as not to interfere with, or hinder the completion of the work in progress on the adjoining projects. Coordinate projects to ensure an uninterrupted flow of traffic.

BID ITEM NOTES

ITEM 104: REMOVING CONCRETE

- All concrete (sidewalks, driveways, slabs, pavements, etc.) will be saw cut to full depth at connection points to existing pavements. Saw cutting of all concrete (sidewalks, driveways, slabs, pavements, etc.) and as directed by engineer for removing concrete will not be measured or paid for directly but will be subsidiary to pertinent items.
- Replace that portion of the pavement removed for storm sewer installation with ten (10) inches of flexible base and one (1) inch of asphaltic concrete pavement. This work will be considered subsidiary to this item.
- Removal of concrete curb is subsidiary to this item.

ITEM 110: EXCAVATION

- All excavated material not used on this project shall be the property of the contractor and disposed of at a site approved by the engineer. There will be no direct payment for hauling of excess excavated material, but shall be considered subsidiary to the item 110 "Excavation".
- Excavation shall be a plans quantity measurement item. Payment shall be based on the quantity as shown in the proposal sheet. Additional compensation will be considered for extra excavation due to field change which effect the total quantity more than 5%.
- If manipulating the excavated material requires moving the same material more than once to accomplish the desired results, the excavation is measured and paid for only once regardless of the number of manipulations required.
- The total excavation quantity shown on the plans includes the quantity for excavating the material beyond the extents of the existing street to allow the installation of stabilized base, concrete pavement and asphalt stabilized shoulder as shown on the typical sections.
- Excavation required for the installation of drainage structures including but not limited to storm sewer, inlets, safety end treatment, etc. as well as re-grading the road side ditches shall be subsidiary to the associated bid item and not included in the excavation quantities.

ITEM 164 SEEDING FOR EROSION CONTROL

- Final grading and stabilization (seeding) shall be achieved as soon as possible and not scheduled only for the end of the project. Final grading and stabilization should be initiated as the overall work progresses.
- Multiple mobilizations of the seeding crews will be expected to comply with the TCEQ Requirements for Construction General Permit of the Texas Pollution Elimination Discharge System requirements for re-vegetating disturbed soils.
- Eliminate seeding in areas of natural growth determined by the Engineer to have sufficient cover.

ITEM 168 VEGETATIVE WATERING

- Equip water trucks with sprinkler systems capable of covering the entire area to be seeded from the roadway.
- Water all newly placed seeded areas the same day of installation. Thereafter, maintain the seeded areas in a well-watered condition and at no time allow the areas to dry to the condition that water stress is evident.
- Mechanical watering may not be required during periods of adequate moisture as determined by the Engineer.
- Furnish and apply water at a rate of 6.788 Mega gallons per acre per cycle.
- Comply with stabilization requirements for 70% grass coverage; uniform vegetative coverage is required. During this period, meter and operate water equipment under pumping pressure capable of delivering the required quantities of water necessary. For Permanent seeding each cycle shall be executed weekly for 12 weeks, unless directed otherwise by the Engineer. For Temporary seeding each cycle shall be executed weekly for 6 weeks, unless directed otherwise by the Engineer.
- Provide a log book showing daily water usage and receipts of water applied, in addition to metering the water equipment.
- Vegetative watering for seeding for erosion control shall be subsidiary to the associated bid item.

ITEM 210: ROLLING

- Compact embankment, subgrade, base, surface treatment, or base materials.
- The work performed, materials furnished, equipment, labor, tools, and incidentals will not be measured or paid for directly but will be subsidiary to pertinent Items.

ITEM 247: FLEXIBLE BASE

- Flexible base Type "A" GR 1-2, Density Control and complete in place shall be used on the project unless otherwise approved by the engineer.
- Flexible base materials shall be placed and compacted in a minimum of two lifts with a maximum loose material thickness of 8 inches. Compaction test will be taken at each lift as required by the Engineer. Minimum density shall be not less than 95% of maximum dry density as determined by test method TEX-1 14e & TEX-1 15-e.
- Subgrade shall be rolled and compacted to not less than 95% of maximum dry density as determined by test method TEX-1 14e & TEX-1 15-e. This work shall not be measured or paid for directly but will be subsidiary to pertinent items.

ITEM 340: DENSE GRADED HOT-MIX ASPHALT

• The transition surface areas to be overlaid shall be bladed, cleaned and broomed where necessary

and tack coated as directed by the engineer. There will be no direct payment for this work, but shall be considered subsidiary to item 340.

- Siliceous granite and gravel, iron ore, or lightweight material will not be permitted on this project.
- The paving mixture shall consist of a uniform mixture of coarse aggregate, intermediate aggregate, fine, and asphalt material. Fine aggregate shall consist of manufactured sands, screenings, and field sands.
- Prime coating flexible base course for asphalt placement surfaces will not be paid for directly, but will be considered subsidiary to Item 340.
- Neither recycled asphalt shingles (RAS) or reclaimed asphalt pavement (RAP) shall be permitted to be used on this project.

ITEM 354: PLANING AND TEXTURING PAVEMENT

- Planning of asphalt surface is limited within the area of each sub-phase under construction.
- Planning of asphalt surface is for the purpose of asphalt material salvage and recycle.
- County has coordinated with the Jack Brook Airport and will provide an area on the southeast side of Jerry Ware Drive, just south of the fueling entrance near Airline Drive split for a laydown area and stockpiling.

ITEM 360: CONCRETE PAVEMENT

- Class P concrete shall be used for all concrete roadway pavements.
- Deformed reinforcement bar size, spacing and placement shall conform to Roadway Standards and Paving Details. Spacing adjustments may be required at the edges on both sides of the proposed concrete pavement lane widths as shown in the contract drawings.
- Wire mat reinforcements are not allowed for use on roadway construction for this project. Wire mat reinforcement will be allowed for use on driveways and sidewalk construction.
- The contractor may use transit mix concrete in accordance with the item "ready-mix plants".
- Where the pavement curb is left off for a later tie, provide the dowels or the tie bars as indicated on the paving detail sheets. The dowel bars and tie bars are subsidiary to the various bid items.
- Repair portions of the concrete pavement surfaces that are damaged while in a plastic state before that area receives permanent pavement markings and opens to traffic. Perform repairs that are structurally equivalent to and cosmetically uniform with the adjacent undamaged areas. Do not repair by grouting onto the surface.
- Set-retarding admixtures will not be allowed.

- Hand-finishing of concrete pavement will be permitted as directed by the engineer.
- Sawing of all joints shall begin as soon as sawing can be accomplished without damage to the pavement and completed before 12 hours has elapsed. Any random cracking of the pavement, which in the opinion of the engineer, is due to incomplete sawing operation shall be removed and replaced at the expense of the contractor.
- Class 5 self-leveling low modulus silicone sealant shall be used on this project.
- All longitudinal and transverse joints shall be sawed.
- Surface test Type "A" shall apply to this project.
- Concrete placement will not be permitted when impending weather conditions, in the opinion of the engineer, may result in rainfall or low temperatures which will impair the quality of the finishing work.
- The contractor shall have on the job site sufficient burlap or polyethylene fabric, as directed by the engineer, to cover a section of concrete pavement 600 feet long and 16 feet wide.
- Siliceous gravel will not be permitted in the mix design.
- The dowel support assemblies used in concrete pavement shall be constructed using number 1/0 (0.306 inch diameter) wire in the main vertical members. Dowels shall be rigidly supported in parallel positions and shall be welded on one end to support the frame. The weld attachment shall be made alternately on opposite ends of successive dowels. The support assembly shall be subject to the approval of the engineer.
- A minimum of 3/5th of each dowel bar shall be coated with hot-applied asphalt cement. The coating shall be placed on opposite ends of successive dowels.
- Saw cutting of all joints (transverse expansion joints, longitudinal construction joints, longitudinal sawed joints, transverse sawed joints and others) will not be paid for separately, but shall be considered subsidiary to pertinent items.
- Newly placed roadway pavement surfaces with crack(s) of any cause or nature will not be approved and accepted by the County. Crack(s) shall be repaired as shown on TxDOT Standard Full Depth Repair for Concrete Pavement (REPCP) – 14 before the acceptance of the project for maintenance by the Owner. This repair, including saw cutting of pavement full depth, reinforcing, tie and dowel bars, concrete and all incidental materials, saw cutting and sealing of joints, labor and equipment needed to complete the work shall be at the contractor's expense.

ITEM 400: EXCAVATION AND BACKFILL FOR STRUCTURES

- Structural excavation for pipes will not be paid for separately, but shall be considered subsidiary to pertinent items.
- As shown in the drawings, structural backfilling with cement stabilized backfill for pipes under roadway pavements and or outside roadway pavements around pipe zones will not be paid for

separately, but will be considered subsidiary to pertinent items.

• Removal of existing storm sewer pipes as called for in the drawings will be paid for under the item for removal of pipes. Pipes removed under roadway pavements will be backfield with cement stabilized sand material up to the bottom of subgrade stabilization or base course. Pipes removed outside the roadway pavement will be backfield with suitable excavated ordinary material up to finish grade line. Cement stabilized sand backfill will be compacted to fill all voids and ordinary soil material will be compacted at 8" lifts equal to the surrounding undisturbed soil condition. Backfilling of cement stabilized sand for trench underneath roadway pavement and ordinary soil materials for trench outside roadway pavement will not be paid for separately, but will be considered subsidiary to pertinent items.

ITEM 465: MANHOLES AND INLETS

- The use of precast storm sewer manholes and/or inlets will not be permitted in this project.
- Inlet and manhole "ring and cover" shall be gray cast iron of part no. as shown in the plans. The dimensions and descriptions are shown on the plans. Dimensions may vary to the extent determined by the engineer.
- Excavation will not be paid for directly but shall be considered subsidiary to this bid item.
- Cement stabilized backfill shall be required around all inlets. The stabilized backfill shall not be paid for directly but shall be considered subsidiary to pertinent bid items.
- If building manholes or inlets in graded areas, first construct them to an elevation at least 4 in. above the top of the highest entering pipe and cover with a wooden cover. Complete the construction of such manholes or inlets to the finished elevation when completing the grading work for such manholes or inlets. Adjust the final elevation, if required, since this elevation is approximate.
- Construct manholes and inlets in paved areas to an elevation so their temporary wooden covers are flush with the surface of the base material.
- Do not leave excavations or trenches open overnight.

ITEM 500: MOBILIZATION

• Mobilization shall not exceed ten (10) percent of the total construction items amount.

ITEM 502: BARRICADES, SIGNS, AND TRAFFIC HANDLING

- Submit changes to the traffic control plan to the Engineer. Provide a layout showing the construction phasing, signs, striping, and signalizations for changes to the original traffic control plan.
- Furnish and maintain the barricades and warning signs, including the necessary temporary and portable traffic control devices, during the various phases of construction. Place and construct these barricades and warning signs in accordance with the latest "Texas Manual on Uniform Traffic

Control Devices for Streets and Highways" for typical construction layouts.

- Furnish additional barricades and signs to maintain traffic and motorists' safety when directed by the Engineer. Consider payment for these additional signs and barricades subsidiary to Item 502.
- Cover work zone signs when work related to the signs is not in progress, or when any hazard related to the signs no longer exists.
- Keep the delineation devices, signs, and pavement markings clean. This work is subsidiary to the Item, "Barricades, Signs, and Traffic Handling".
- If a section is not complete before the end of the workday, pull back the base material to the existing pavement edge on a 6H: 1V slope. Edge drop-offs during the hours of darkness are not permitted.
- Do not mount signs on drums or barricades, except those listed in the latest Barricades and Construction standard sheets.
- Use traffic cones for daytime work only. Replace the cones with plastic drums during nighttime hours.
- Place positive barriers to protect drop-off conditions greater than 2 ft. within the clear zone that remain overnight. The traffic control plan (TCP) shall conform to the BC (1) (12) standards and part VI of the Current Texas Manual Of Uniform Traffic Control Devices.
- Remove all traffic control devices from the roadway, off of the right of way, when they are not in use. Devices scheduled to be used within 3 days may be placed along the shoulder of the roadway or right of way when not in use, or stored in other approved areas on the project. Cover any construction signs that are not in effect that are installed in a fashion that will not allow them to be removed from the right of way easily.
- Use vertical panels instead of cones as traffic control devices.
- Construct all work zone signs, sign supports, and barricades from material other than wood unless approved by the engineer.
- Galvanize steel supports if used. Aluminum posts, if used, shall meet the following minimum thickness requirements:

Square Feet	Minimum Thickness
Less Than 7.5	0.080 Inches
7.5 To 1.5	0.100 Inches
Greater Than 1.5	0.125 Inches

• Plan the sequence of work so as to minimize inconvenience to the traveling public. Any changes to the traffic control plan shown in the plans must be approved in writing by the Engineer. Submit the revised plan for approval to the Engineer.

- The approval by the engineer of the method and procedure the contractor plans to use to handle or detour traffic will not relieve the contractor of his responsibility for the protection of the traveling public.
- Install temporary fence around the open pit by the end of each working day to safeguard pedestrian using the sidewalk. No payment shall be made for this work directly, but will be consider subsidiary to this item.
- Temporary traffic signalization as shown in the plans and Additional temporary traffic signalization not shown in the plans that is required to meet actual site conditions as directed by the engineer will not be measured or paid for separately, but will be considered subsidiary to this pay item.
- The Contractor shall submit to the County prior to start of any construction work, a hauling truck and construction vehicles route plan. This route plan shall show streets to be taken for trucks and vehicles either empty or hauling materials going in or out the construction areas scope of work. The Streets that are to be used as truck and vehicle routes shall be truck loads roadway bearing pavements. Upon approval of the Engineer, this truck routing plan will be strictly implemented. Any changes that is required as construction phases progresses will be reviewed and approved by the Engineer. This work will not be measured or paid for separately, but will be considered subsidiary to this pay item. Construction Exit shall be paid for under Item 506.
- The Contractor shall prepare proposed revised traffic Detour Plan for the construction of Airport
 Pavement Replacement project. This shall be coincidental with the construction progress of work
 phases. Any addition barricades, warning and detour signs, including the necessary temporary and
 portable traffic control devices to detour and control traffic during the construction of the Jerry
 Ware Drive and 3rd Street Pavement Replacement Project will not be measured or paid for
 separately, but will be considered subsidiary to this pay item.
- Additional Barricades, warning and detour signs, including the necessary temporary and portable traffic control devices to detour and control traffic along 1st Street, Jerry Ware Drive and 3rd Street during the construction of County Utilities as required by the Engineer within limits and scope of project work will not be measured or paid for separately, but will be considered subsidiary to this pay item. Water and Sanitary Sewer installations will be paid under its respective Items. Temporary Asphalt Pavement restoration and Temporary Pavement Markings will be paid under its respective Items.

ITEM 506: TEMPORARY EROSION, SEDIMENTATION AND ENVIRONMENTAL CONTROL

- A Storm Water Pollution Prevention Plan (SWP3) is required for submittal when the disturbed area is 1 acre and greater, with the "Notice of Intent" (NOI) as required. The NOI will be completed and filed by the Contractor at the contractor's own expense.
- Use appropriate measures to prevent, minimize, and control the spill of hazardous materials in the construction staging area. Remove and dispose of materials in compliance with State and Federal laws.
- Before starting construction, review with the Engineer the SW3P used for temporary erosion control as outlined on the plans. Before construction, place the temporary erosion and sedimentation control management practices as shown on the SWP3.

- Before starting grading operations and during the project duration, place the temporary or permanent erosion control measures to prevent sediment from leaving the right of way.
- Implement temporary and permanent erosion control measures to comply with the Texas Pollution Discharge Elimination System (TPDES) general permit.
- Schedule the sodding work as soon as possible after completing earthwork operations, restore and sod the disturbed areas in accordance with the County's specifications for permanent or temporary erosion control.

ITEM 530: INTERSECTIONS, DRIVEWAYS, AND TURNOUTS

- Saw cutting of concrete and asphalt pavement at break back line as shown in the drawings for Intersections, Driveways and Turnouts shall not be paid for separately, but shall be subsidiary to this unit bid item. Any additional modifications and incidental saw cutting of concrete and asphalt pavement at intersections, driveways, and turnouts required to meet existing site conditions, construction grade standards as shown in the drawings and as directed by the engineer will not be measured or paid for directly but will be subsidiary to pertinent items.
- Any additional saw cutting of existing driveways pavements beyond Right of Way lines inside private property as permitted by the owner, not shown in the drawings as determined and ordered by the Engineer to meet standard grade requirements will not be measured or paid for directly but will be subsidiary to pertinent items.

ITEM 585: RIDE QUALITY FOR PAVEMENT SURFACES - TXDOT PAVEMENTS

- Service Roads and Ramps. Use Surface Test Type A (10 ft straight edge) on service roads and ramps.
- Short Projects. Use Surface Test Type A when project pavement length is less than 2,500 ft.

ITEM 644: SMALL ROADSIDE SIGN SUPPORTS AND ASSEMBLIES

- Sign locations shown on the plans are approximate before placing them, obtain approval of the engineer and then stake the exact locations for these signs. For this project, existing signs shall be removed, stored, and replaced. Any signs or posts damaged during the removal or storage process shall be replaced with identical products at the contractor's expense. All expenses, equipment, materials, and appurtenances required to remove and replace the existing small road signs will be paid for under this item.
- Use the Texas universal triangular slip base with the concrete foundation for small ground mounted signs, unless otherwise shown in the plans.
- When design details are not shown on the plans, provide signs and arrows conforming to the latest "Standard Highway Sign Designs for Texas" manual.

ITEM 666: RETROREFLECTORIZED PAVEMENT MARKINGS

• Furnish Type II drop-on glass beads per TxDOT Specifications.

ITEM 677: ELIMINATING EXISTING PAVEMENT MARKINGS AND MARKERS

- Remove all contaminates and loose material. Consider this work to be subsidiary to the various bid items of the contract.
- Remove existing raised pavement markers where indicated prior to the addition of the asphaltic pavement or seal coat. Dispose of the removed markers form the project at the end of each workday. Consider this work to be subsidiary to the various bid items of the contract.

ITEM 760: DITCH CLEANING AND RESHAPING

- This item will be used to clean and regrade the existing ditches to the grades as shown in plans to provide adequate drainage for the existing and/or proposed roadway. Any excavation and backfill will be considered subsidiary and included in the price per linear foot.
- This item will be used as shown in plans when ditch to filled or excavated. Fill material shall be in accordance with Item 110 Excavation but will be included in the cost per linear foot in this item to depths shown in plans to provide proper drainage.

End of General Notes

GOVERNING CONSTRUCTION SPECIFICATIONS

The governing construction specifications applicable to this work are the Texas Department of Transportation (TXDOT) 2014 Standard Specifications for Construction of Highways, Streets and Bridges as adopted by the State of Texas.

These items which are listed below and which are contained in the TX DOT 2004 Standard Specifications are hereby adopted and made part of the Contract Documents to the same extent as if they were herein reproduced in full subject to such modifications, revisions or supplements as may appear in the section entitled Special Provisions in these Contract Documents to follow:

Standard Specifications:

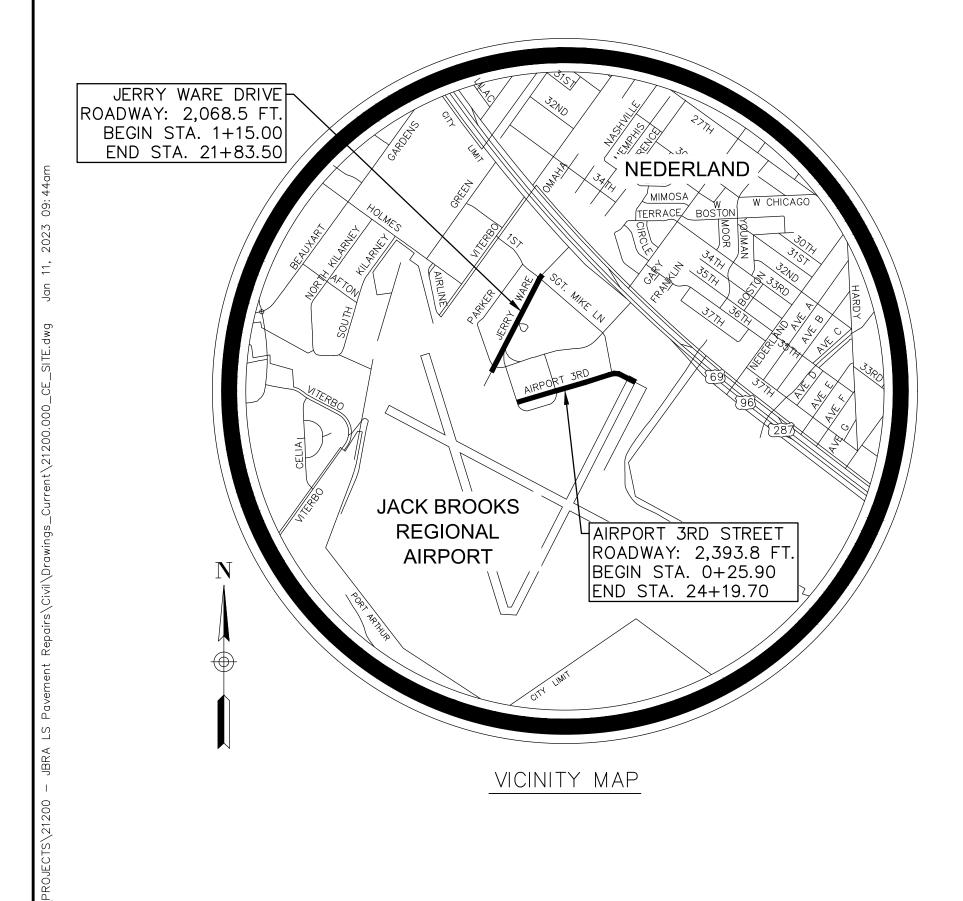
- Item 100 Preparing Right of Way
- Item 104 Removing Concrete
- Item 105 Removing Treated and Untreated Base and Asphalt Pavement
- Item 110 Excavation (132)
- Item 134 Backfilling Pavement Edges
- Item 164 Seeding for Erosion Control
- Item 168 Vegetative Watering
- Item 210 Rolling
- Item 216 Proof Rolling
- Item 247 Flexible Base
- Item 260 Lime Treatment
- Item 276 Cement Treatment (Plant Mix) (204)(210)(216)(300)(520)
- Item 300 Asphalts, Oils, and Emulsions
- Item 340 Dense-Graded Hot-Mix Asphalt (Method) (300)(301)(320)(520)(585)
- Item 354 Planning and Texturing Pavement
- Item 360 Concrete Pavement (421)(420)(438)(440)(529)
- Item 400 Excavation and Backfill for Structures (132)(402)
- Item 438 Cleaning and Sealing Joints
- Item 440 Reinforcing Steel
- Item 465 Junction Boxes, Manholes and Inlets (420)(421)(427)(440)(442)(471)
- Item 471 Frames, Grates, Rings, and Cover
- Item 500 Mobilization
- Item 502 Barricades, Signs, & Traffic Handle
- Item 506 Temporary Erosion, Sedimentation and Environmental Control
- Item 529 Concrete Curb and Gutter (360)(420)(421)(440)

Item 530 Driveways and Turnouts (247)(276)(360)(421)(440) Item 585 Ride Quality for Pavement Surfaces Item 636 Signs Item 666 Retroreflectorized Pavement Markings Item 678 Pavement Surface Preparation Surfaces End of Governing Construction Specification

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INDEX OF DRAWINGS

	TITLE SHEET
C1.1	QUANTITY TABULATIONS
C2.1 - C2.4	TYPICAL SECTIONS
C3.1 - C3.5	PROJECT LAYOUT
C4.1 - C4.2	GENERAL NOTES
C5.1 - C5.2	SURVEY CONTROL
C6.1 - C6.3	DEMOLITION PLAN - JERRY WARE DRIVE
C6.4 - C6.6	DEMOLITION PLAN - AIRPORT 3rd. STREET
C7.1 - C7.5	PLAN AND PROFILES - JERRY WARE DRIVE
C7.6 - C7.10	PLAN AND PROFILES - AIRPORT 3rd. STREET
C7.11 - C7.14	INTERSECTION GRADING
C7.15	ROADWAY STANDARDS AND PAVING DETAILS
C8.1 - C8.7	PAVEMENT STRIPING AND SIGNAGE
C9.1 - C9.2	SW3P PLAN
C10.1 - C10.10	TRAFFIC CONTROL PLAN
C11.1 - C11.4	DRAINAGE AREAS PLAN & CALCULATIONS
C12.1 - C12.2	DRAINAGE STANDARDS AND DETAILS
C13.1 - C13.7	EROSION CONTROL DETAILS
C14.1 - C14.12	TRAFFIC CONTROL DETAILS



CONSTRUCTION PLANS FOR	
ROOKS REGIONAL AIRPC SED ROADWAY RECONSTRUCTION ARE DRIVE / AIRPORT 3RD. STRU EFFERSON COUNTY, TEXAS	DN
COUNTY JUDGE JEFF BRANICK	APF BY:
COUNTY COMMISSIONERSVERNON PIERCECOMM. PCT. 1CARY ERICKSONCOMM. PCT. 2MICHAEL SINEGALCOMM. PCT. 3EVERETTE ALFREDCOMM. PCT. 4	MIC
AIRPORT MANAGER ALEX RUPP	
APPROVED BY BEENNARDINO D. TRISTAN 117017 BEENNARDINO D. TRISTAN DO 11, 2023	
BERNARDINO D. TRISTAN, P.E. REGISTERED PROFESSIONAL ENGINEER No. 117017	
PREPARED BY: Fittz@Shipman	J/ RE
Consulting Engineers and Land Surveyors 1405 CORNERSTONE COURT BEAUMONT, TEXAS (409)832-7238 FAX (409)832-7303 of Prof Engineers Firm No. F-01160 Tx Board of Prof Land Surveyors Firm No. 100186	

PROVED FOR CONSTRUCTION

DATE:

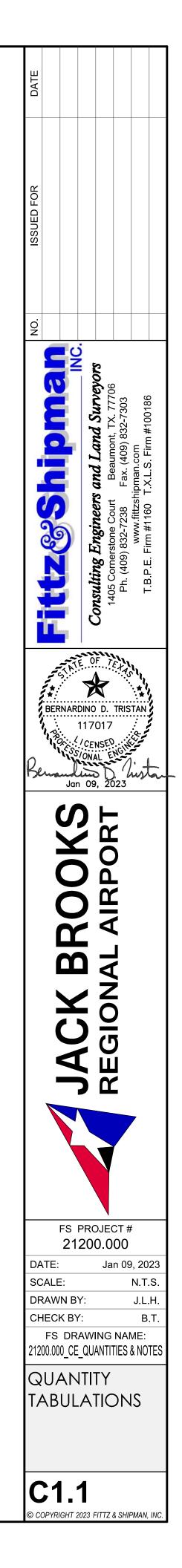
CHELLE FALGOUT

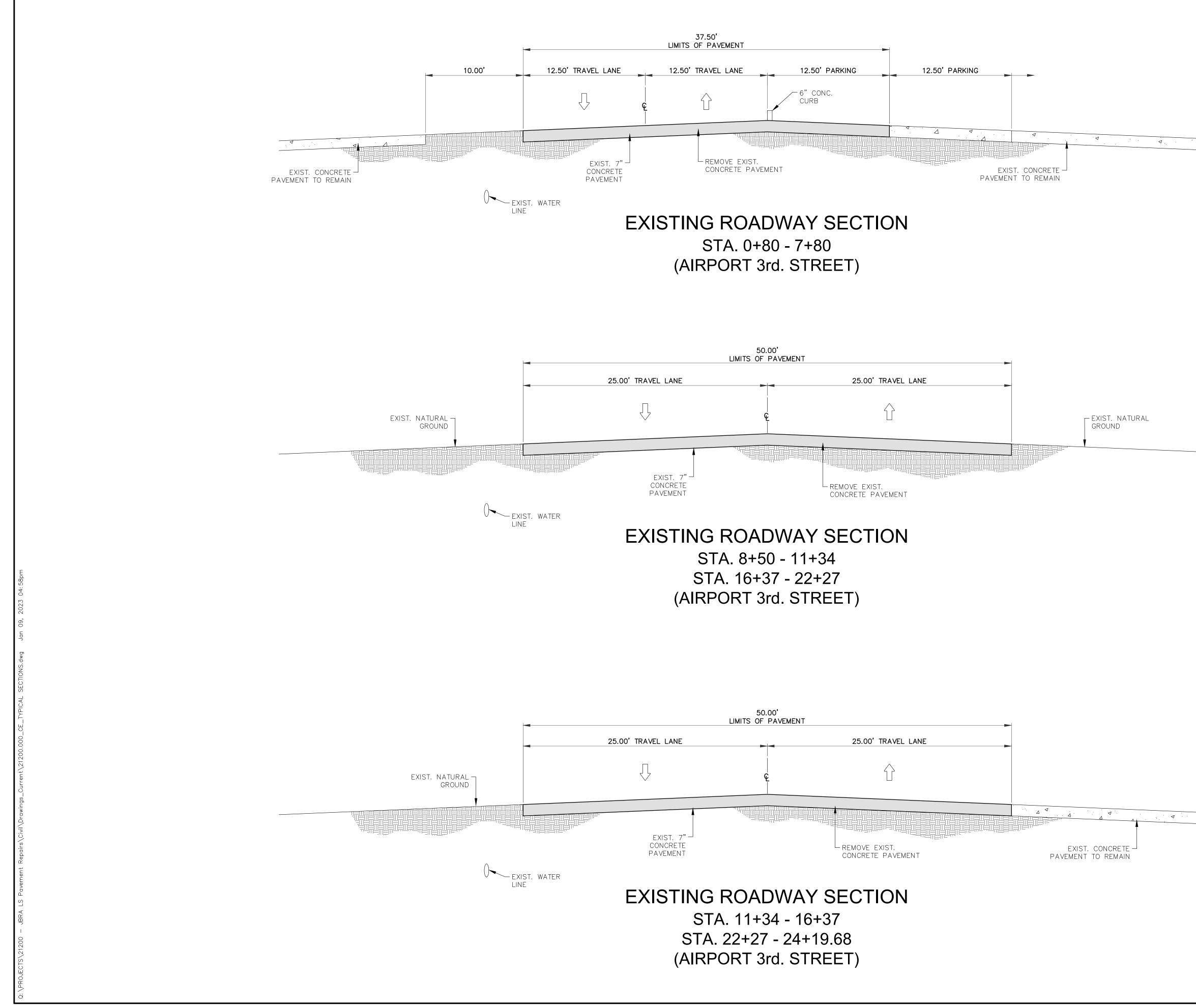
ACK BROOKS EGIONAL AIRPORT

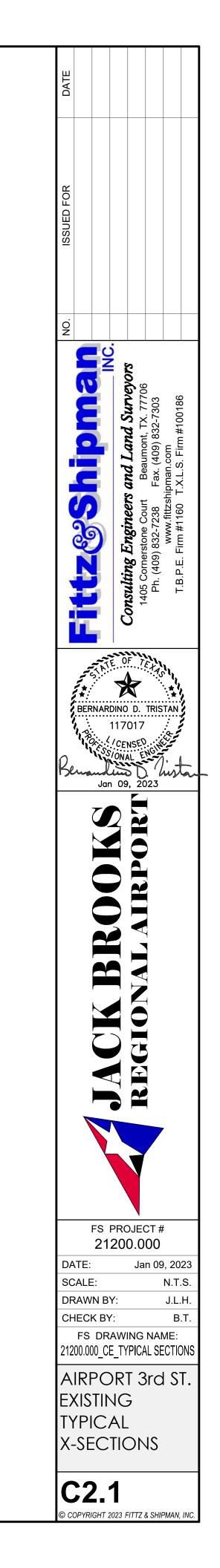
Jerry Ware Roadway TxDOT SPEC TOTAL					
ITEM NO. TTEM NO.* DESCRIPTION				ESTIMATE FIN	
1	100	Preparing Right-Of-Way, complete in place	Ac.	4.42	
2	500	Mobilization/demobilization, complete in place	L.S.	1	
3	110	Excavation, complete in place	C.Y	1,746	
4	132	Embankment, complete in place	C.Y	1,988	
5	110	Removing existing Concrete roadway, complete in place	S.Y	5,463	
6	110	Removing existing asphalt shoulder, complete in place	S.Y	2,663	-
7	496	Removing existing asphalt driveway, complete in place	S.Y	478	
8	496	Removing existing asphalt turnout, complete in place	S.Y	255	
9	496	Removing existing 12" storm sewer, complete in place	L.F.	17	
10	496	Removing existing 15" storm sewer, complete in place	L.F.	77	
11	496	Removing existing 18" storm sewer, complete in place	L.F.	339	
12	496	Removing existing 24" storm sewer, complete in place	L.F.	48	
13	496	Removing existing concrete storm inlet, complete in place	E.A.	6	
14	360	7" Reinforced Concrete Pavement, complete in place	S.Y.	6,372	
15	247	7" Compacted Limestone Shoulder, complete in place	S.Y.	1,627	
**15A	292	7" Asphalt Stab Base (GR 2)(PG 70) Shoulder, complete in place	S.Y.	1,627	-
16	275	8" hydrated lime stabilized base (10%-12% DC) (In Place & Salvaged Fill), complete in place	S.Y.	8,214	
17	340	7" Reinforced concrete driveway pavement, complete in place	S.Y.	583	
18	760	Re-grade existing roadside ditches, complete in place	L.F.	2,492	
19	464	24" HDPE storm sewer, complete in place	L.F.	56	
20	464	18" HDPE storm sewer, complete in place	L.F.	230	
21	467	Precast Safety End Treatment SET. Complete in place	Ea.	24	
22	164	Hydromulch Seeding of ROW, incl. fertilizer & watering, complete in place	Ac.	4.42	
23	502	Barricades, Signs & Traffic Control, complete in place	L.S.	1	
24	506	Temp Erosion Control, complete in place	L.S.	1	
25	644	Small Sign Assemblies, complete in place	L.S.	1	
26	666	Reflect Pav. Marking Ty-II 4" Solid, White 0.90 Mil, including surface preparation, complete in place	L.F.	4,402	
27	666	Reflect Pav. Marking Ty-II 4" Solid, Yellow 0.90 Mil, including surface preparation, complete in place	L.F.	4,118	
28	666	Reflect Pav. Marking Ty-II 12" Solid, White 0.90 Mil, including surface preparation, complete in place	L.F.	180	
29	666	Reflect Pav. Marking Ty-II 24" Solid, White 0.90 Mil, including surface preparation, complete in place	L.F.	62	

	TxDOT SPEC	EC TC		тот	AL
TEM NO.	TTEM NO.*	IO.* DESCRIPTION		ESTIMATE	FINAL
1	100	Preparing Right-Of-Way, complete in place	Ac.	0.93	
2	500	Mobilization/demobilization, complete in place	L.S.	1	
3	110	Excavation, complete in place	C.Y	210	
4	132	Embankment, complete in place	C.Y	156	
5	110	Removing existing Concrete roadway, complete in place	S.Y	3,904	
6	360	7" Reinforced Concrete Pavement, complete in place	S.Y.	2,521	
7	275	8" hydrated lime stabilized base (10%-12% DC) (In Place & Salvaged Fill), complete in place	S.Y.	2,726	
8	340	7" Reinforced concrete driveway pavement, complete in place	S.Y.	379	
9	340	5" Reinforced concrete pavement, complete in place	S.Y.	68	
10	465	Concrete surface grate inlet, complete in place	Ea.	13	
11	464	24" HDPE storm sewer, complete in place	L.F.	442	
12	464	18" HDPE storm sewer, complete in place	L.F.	140	
13	464	15" HDPE storm sewer, complete in place	L.F.	332	
14	464	12" HDPE storm sewer, complete in place	L.F.	195	
15	164	Hydromulch Seeding of ROW, incl. fertilizer & watering, complete in place	Ac.	0.93	
16	502	Barricades, Signs & Traffic Control, complete in place	L.S.	1	
17	506	Temp Erosion Control, complete in place	L.S.	1	
18	644	Small Sign Assemblies, complete in place	L.S.	1	
19	666	Reflect Pav. Marking Ty-II 4" Solid, White 0.90 Mil, including surface preparation, complete in place	L.F.	1,635	
20	666	Reflect Pav. Marking Ty-II 4" Broken, Yellow 0.90 Mil, including surface preparation, complete in place	L.F.	220	
21	666	Reflect Pav. Marking Ty-II 24" Solid, White 0.90 Mil, including surface preparation, complete in place	L.F.	35	
22	666	Reflect Pav. Marking Ty-II 18" White, Tri Yield 0.90 Mil, including surface preparation, complete in place	E.A.	16	

	TXDOT SPEC	EC		тот	AL
TEM NO.	TTEM NO.*	D.* DESCRIPTION UNI		ESTIMATE	FINA
1	100	Preparing Right-Of-Way, complete in place	Ac.	2.75	
2	500	Mobilization/demobilization, complete in place	L.S.	1	
3	110	Excavation, complete in place	C.Y	400	
4	132	Embankment, complete in place	C.Y	297	
5	110	Removing existing Concrete roadway, complete in place	S.Y	9,000	
6	360	7" Reinforced Concrete Pavement, complete in place	S.Y.	4,302	
7	275	8" hydrated lime stabilized base (10%-12% DC) (In Place & Salvaged Fill), complete in place	S.Y.	4,652	
8	340	7" Reinforced concrete driveway pavement, complete in place	S.Y.	735	
9	465	Concrete surface grate inlet, complete in place	Ea.	8	
10	465	Concrete Junction Box with surface grate inlet, complete in place	Ea.	2	
11	760	Grade proposed roadside ditches, complete in place	L.F.	1,314	
12	464	24" HDPE storm sewer, complete in place	L.F.	351	
13	464	18" HDPE storm sewer, complete in place	L.F.	465	
14	464	12" HDPE storm sewer, complete in place	L.F.	36	
15	467	Precast Safety End Treatment SET. Complete in place	Ea.	9	
16	164	Hydromulch Seeding of ROW, incl. fertilizer & watering, complete in place	Ac.	2.75	
17	502	Barricades, Signs & Traffic Control, complete in place	L.S.	1	
18	506	Temp Erosion Control, complete in place	L.S.	1	
19	644	Small Sign Assemblies, complete in place	L.S.	1	
20	666	Reflect Pav. Marking Ty-II 4" Solid, White 0.90 Mil, including surface preparation, complete in place	L.F.	2,447	
21	666	Reflect Pav. Marking Ty-II 4" Broken, Yellow 0.90 Mil, including surface preparation, complete in place	L.F.	400	
22	666	Reflect Pav. Marking Ty-II 24" Solid, White 0.90 Mil, including surface preparation, complete in place	L.F.	18	

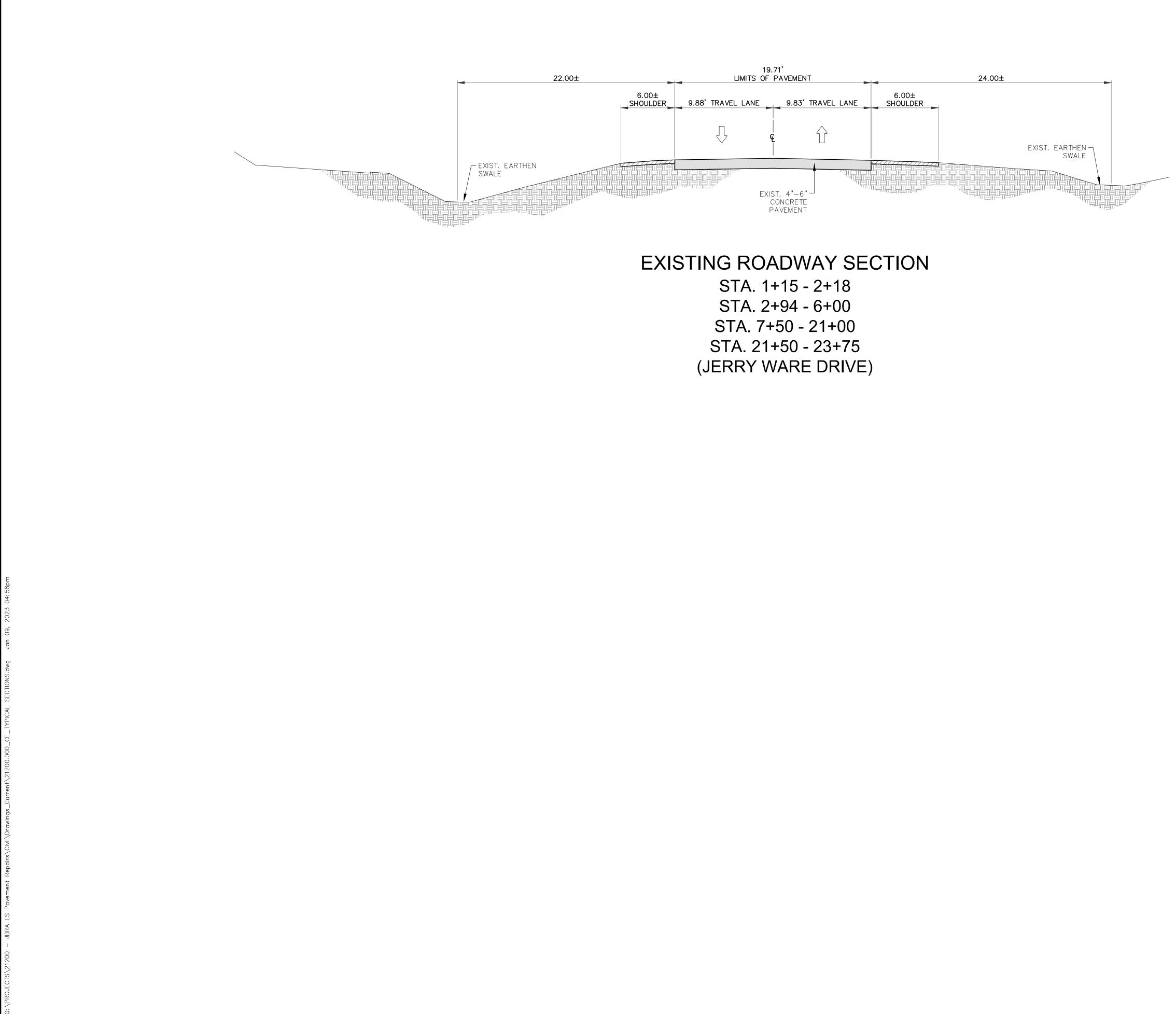


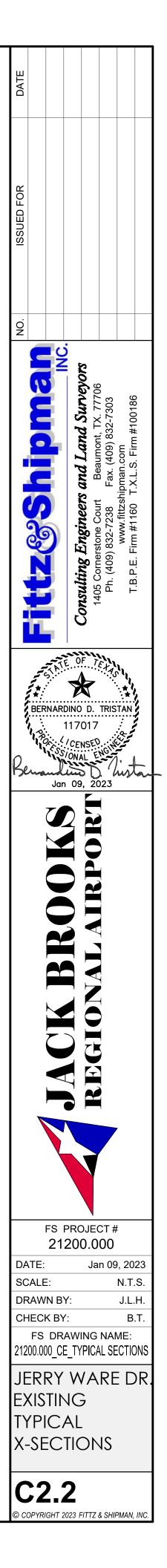


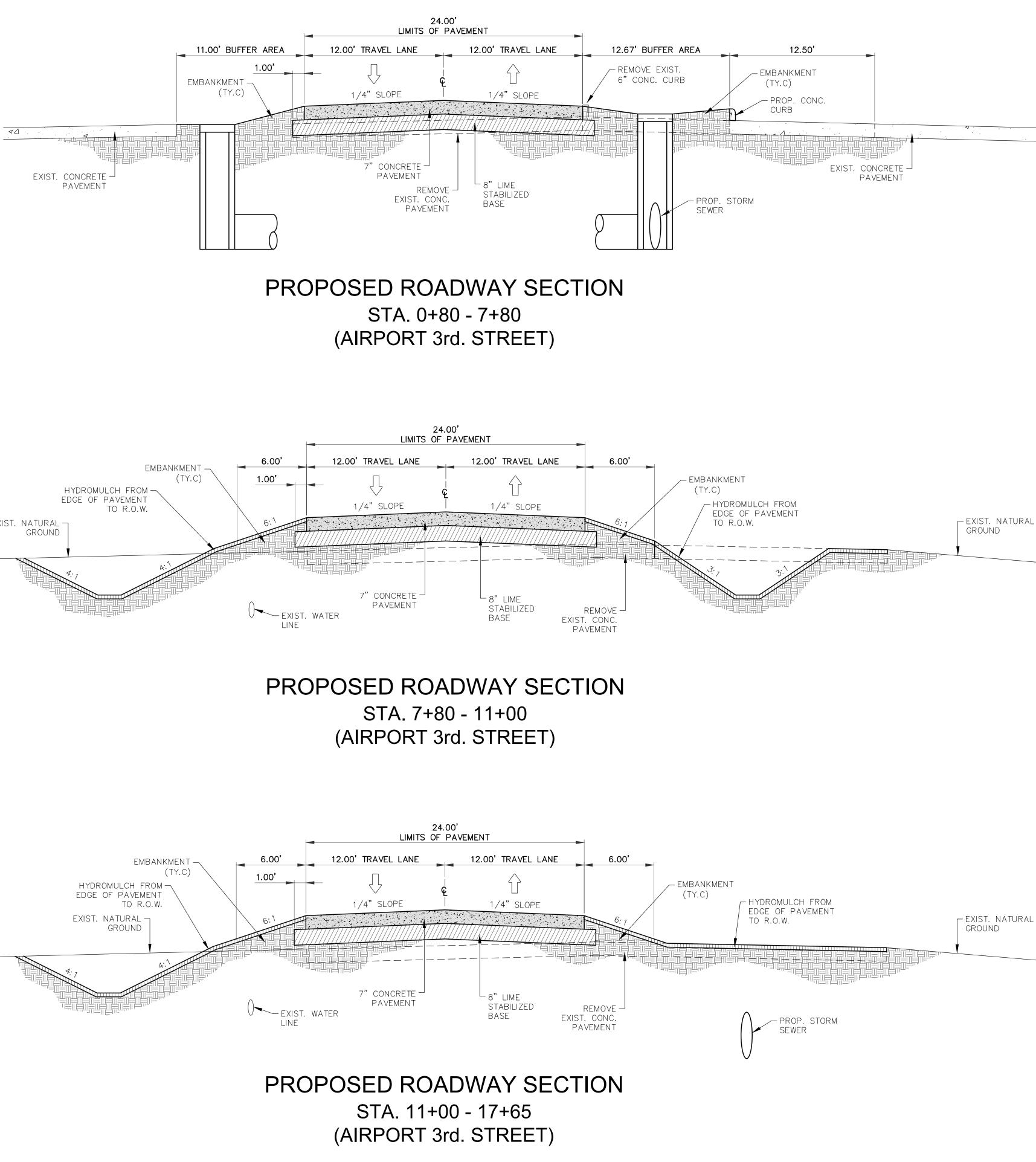


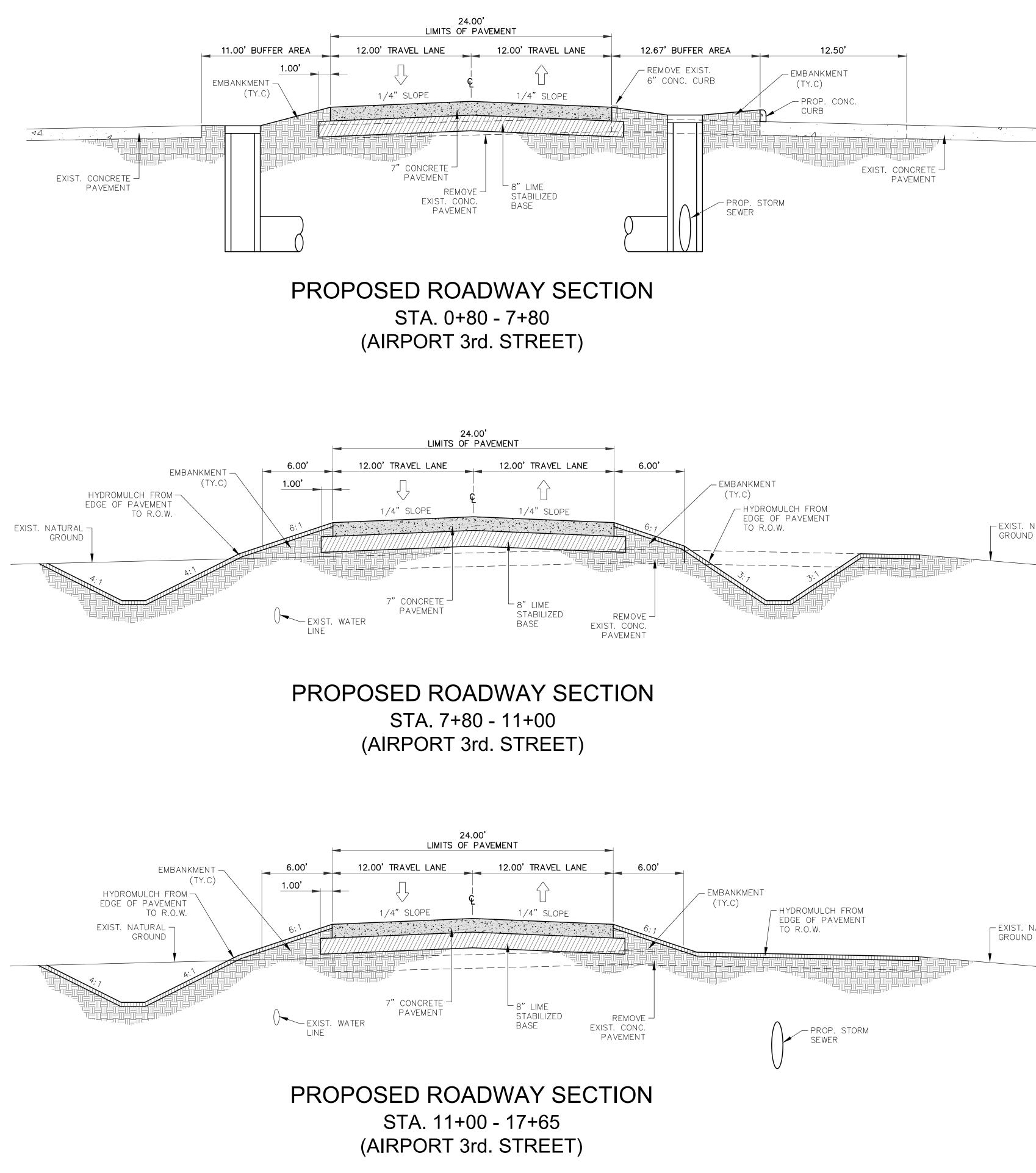
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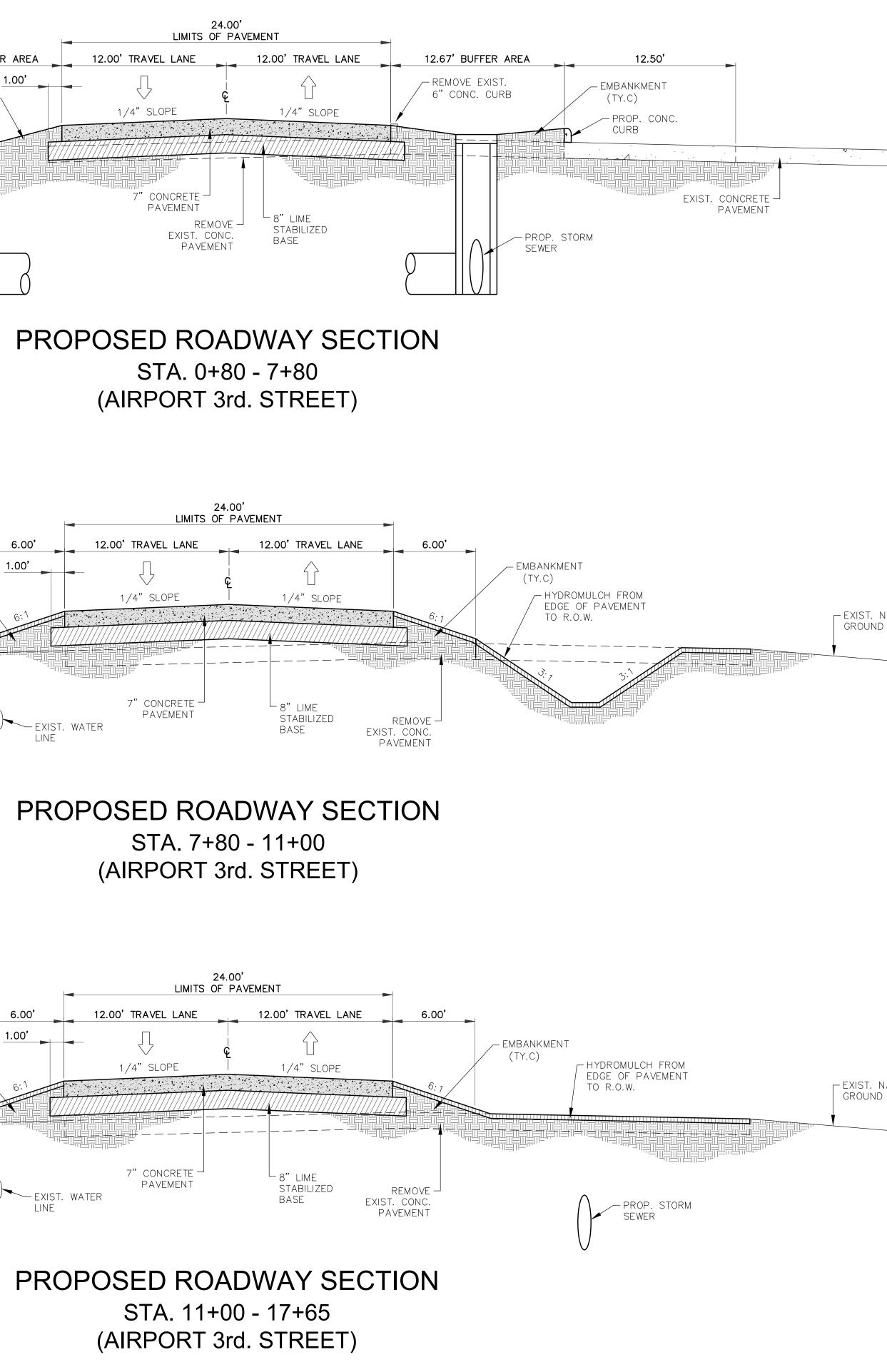
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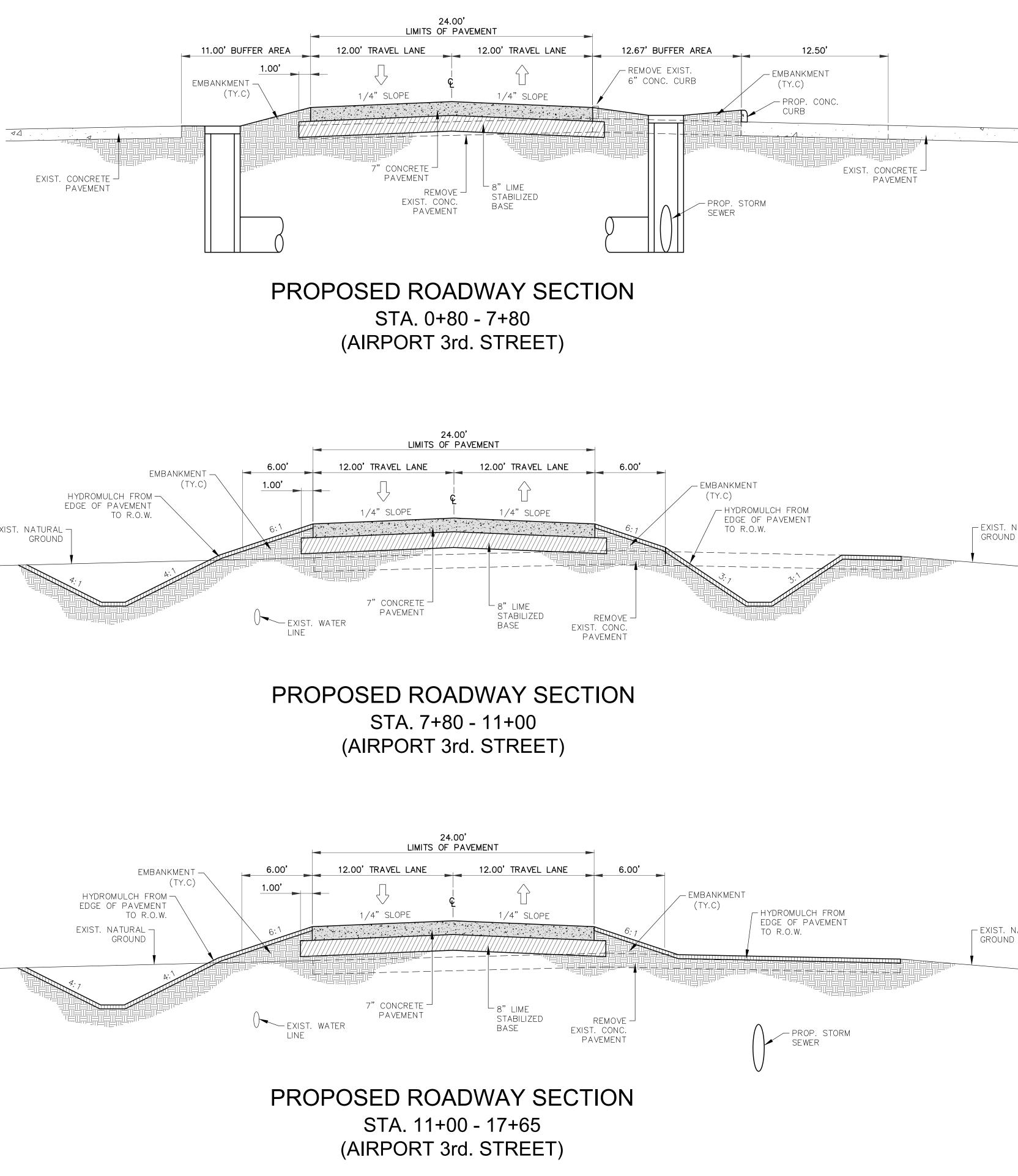




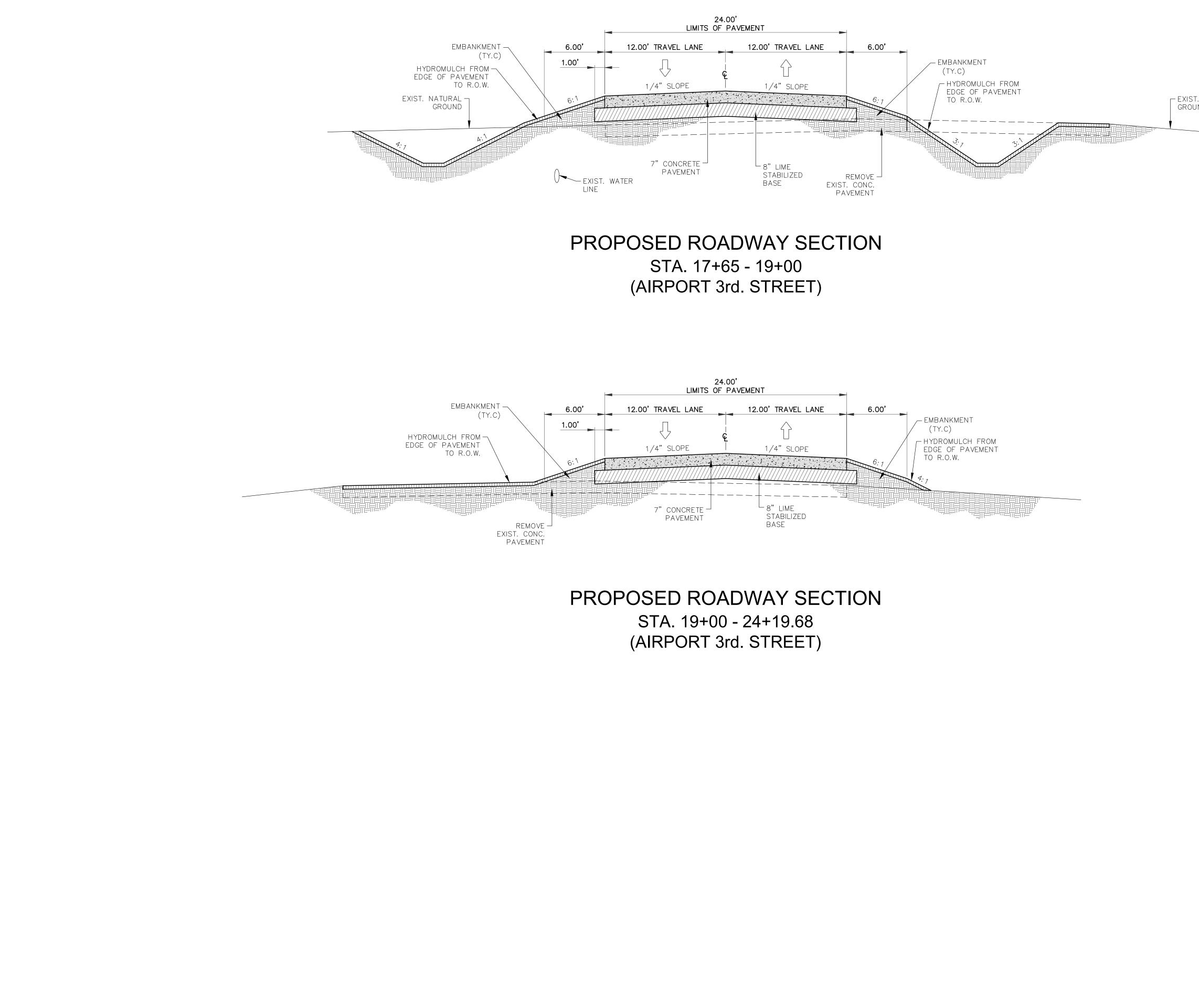




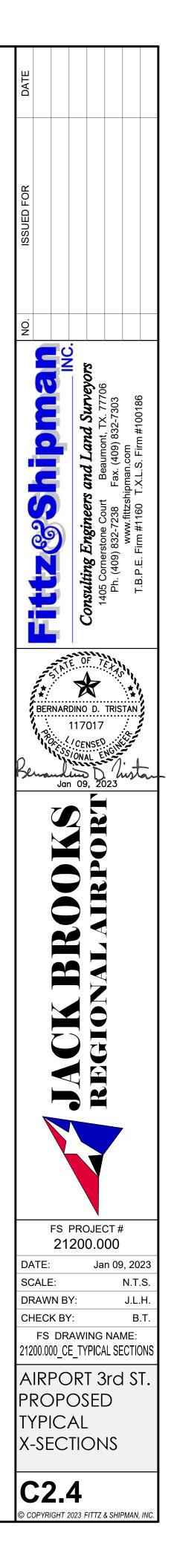




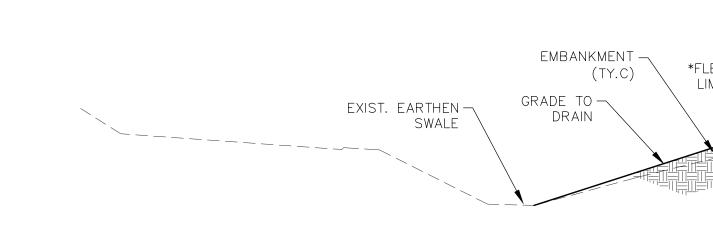
 \triangleleft C * BERNARDINO D. TRISTAN 117017 Jan 09, 2023 ~ FS PROJECT # 21200.000 DATE: Jan 09, 2023 SCALE: N.T.S. DRAWN BY: J.L.H. B.T. CHECK BY: FS DRAWING NAME: 21200.000_CE_TYPICAL SECTIONS AIRPORT 3rd ST. PROPOSED TYPICAL X-SECTIONS C2.3 COPYRIGHT 2023 FITTZ & SHIPMAN, IN

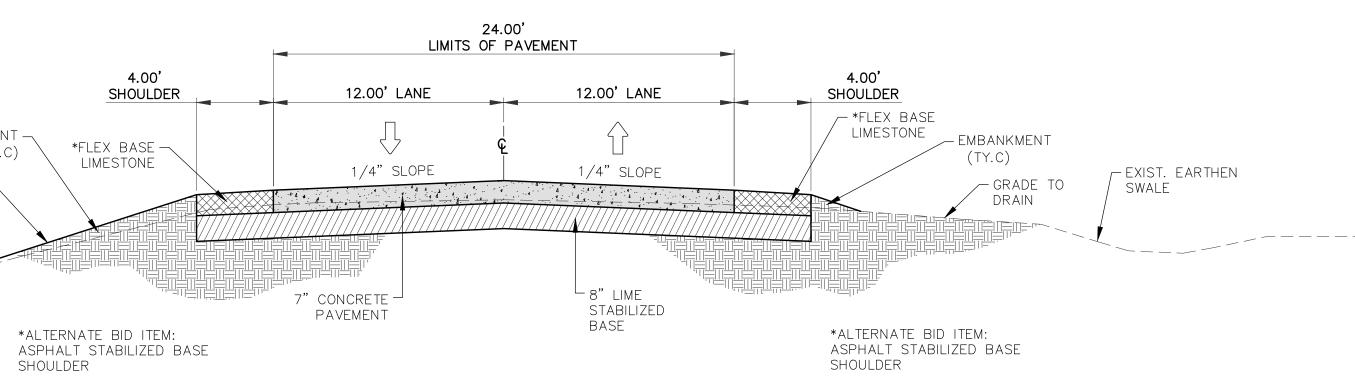


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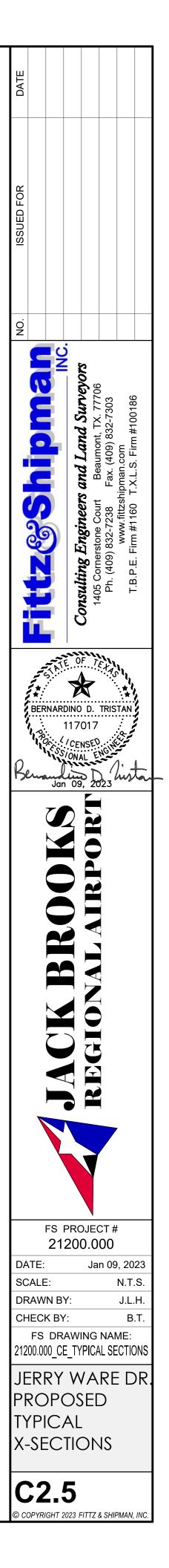


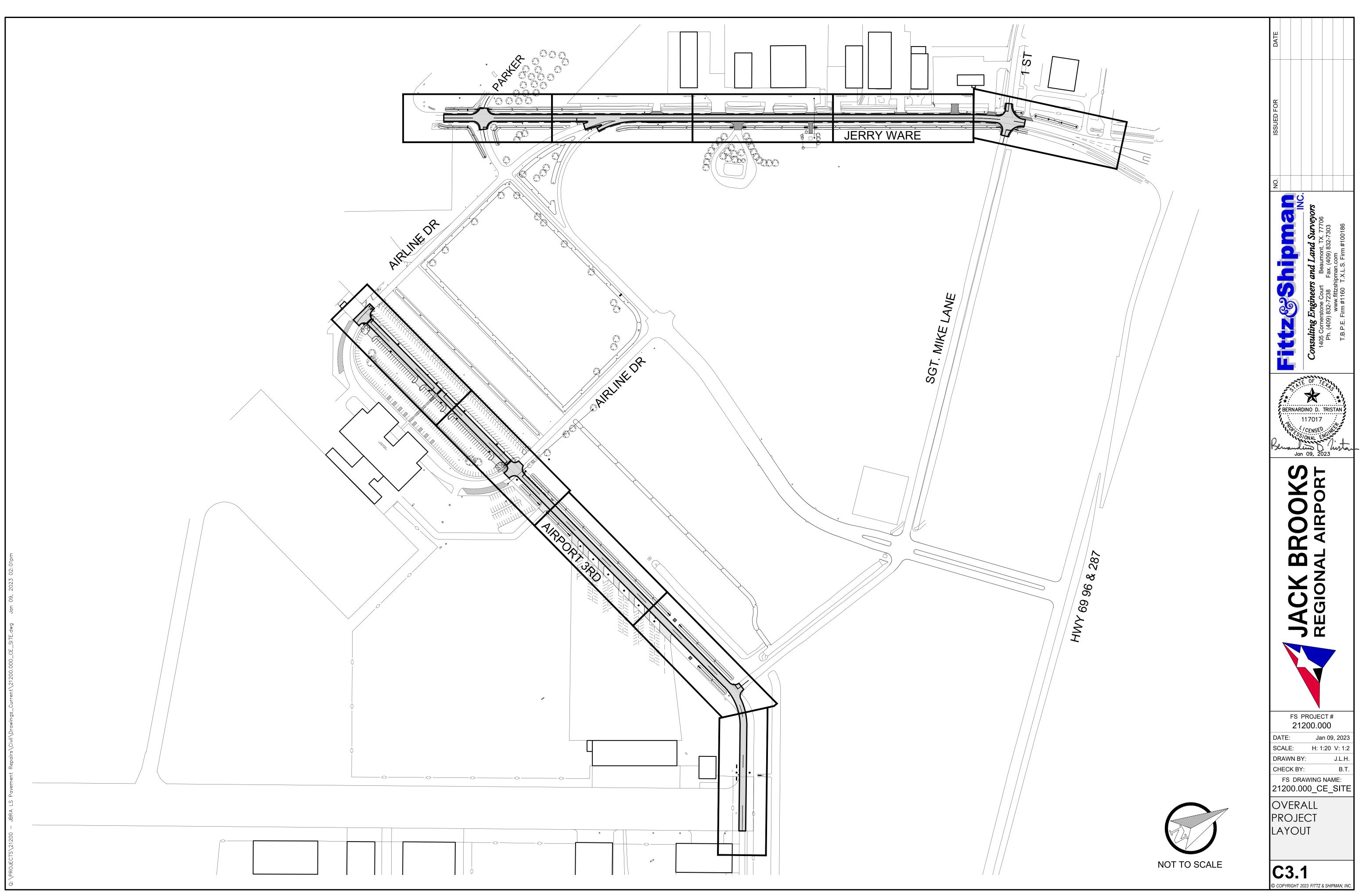


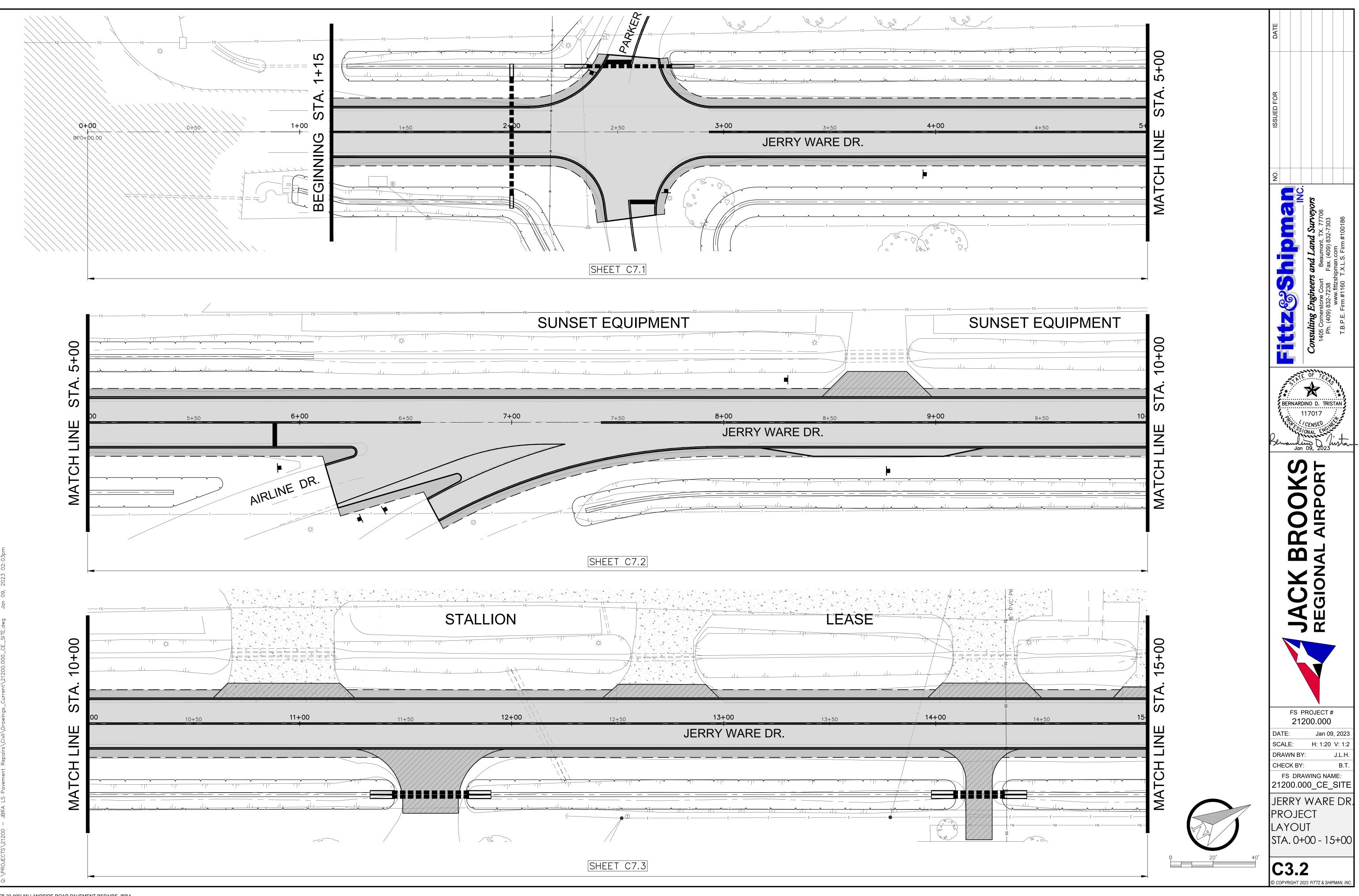


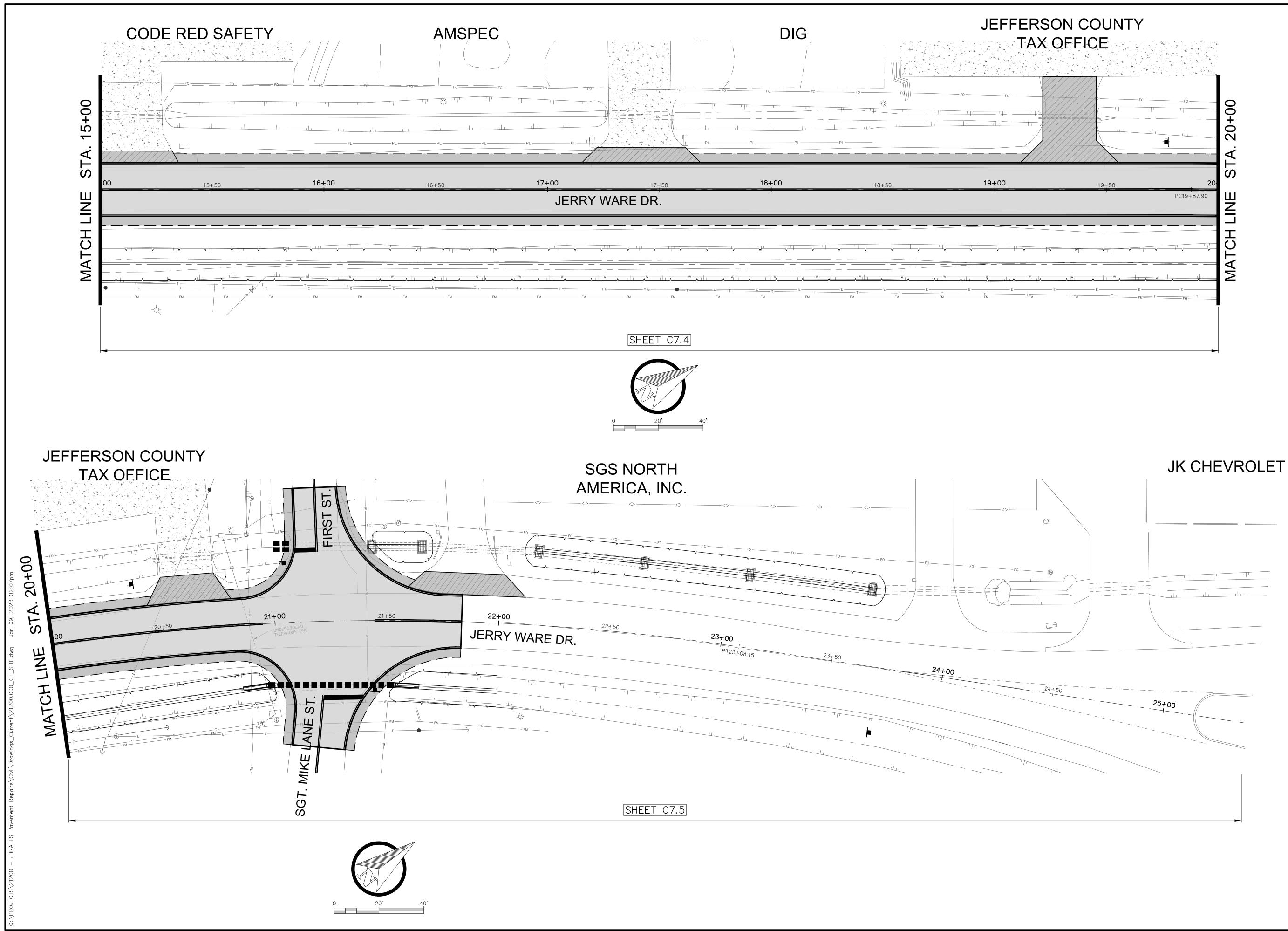


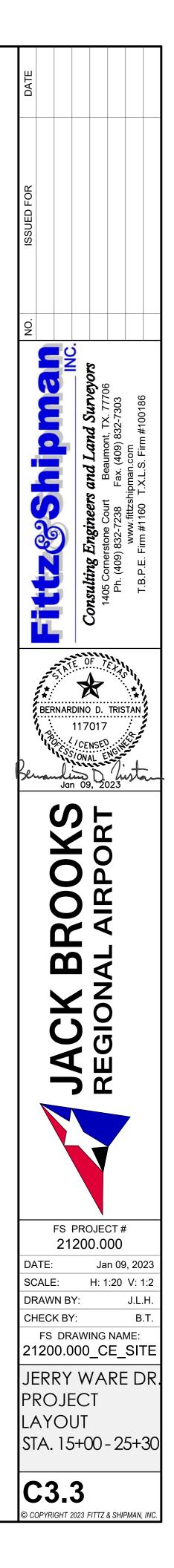
PROPOSED ROADWAY SECTION STA. 1+15 - 2+18 STA. 2+94 - 6+00 STA. 7+50 - 21+00 STA. 21+50 - 23+75 (JERRY WARE DRIVE)

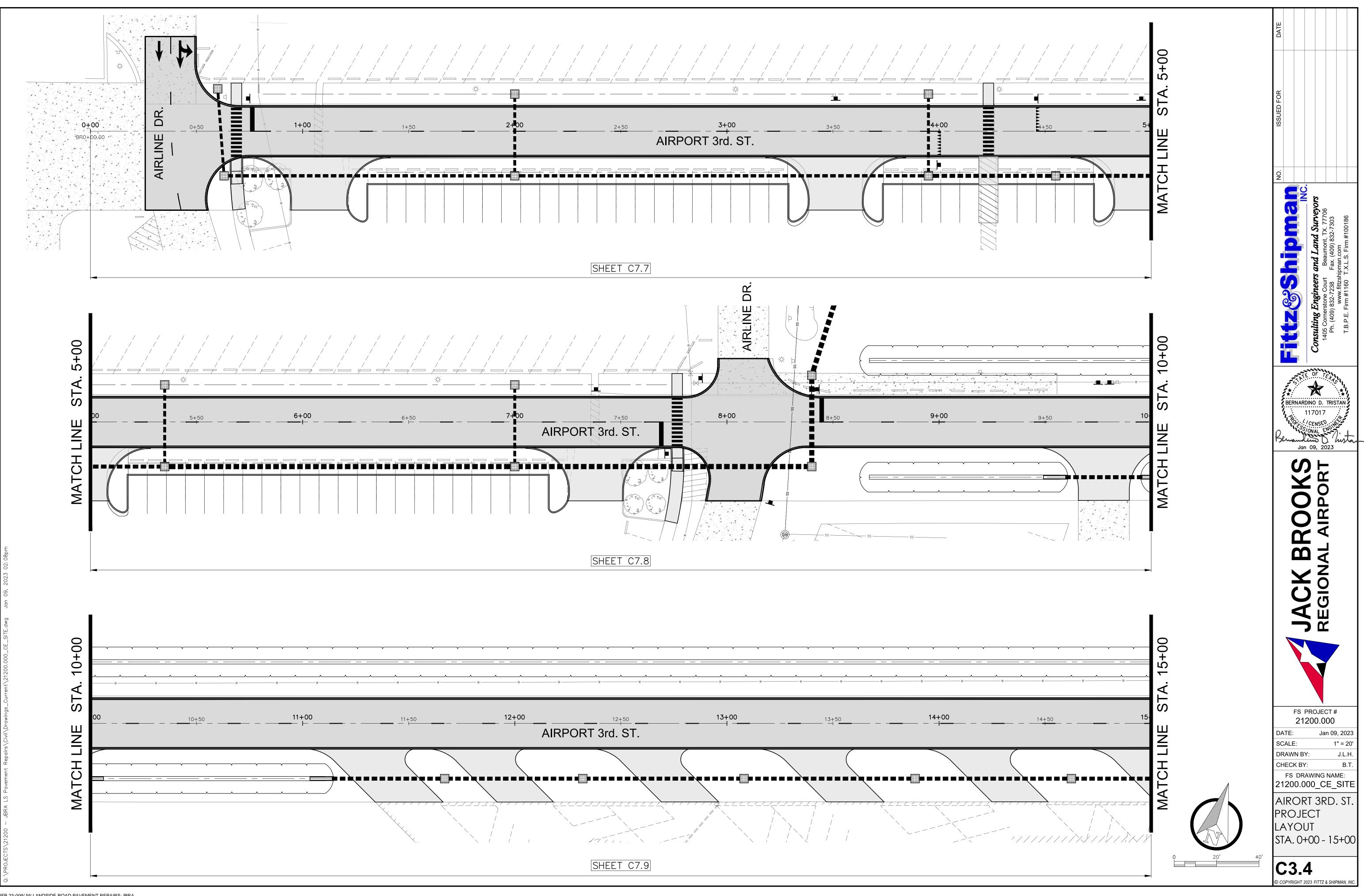


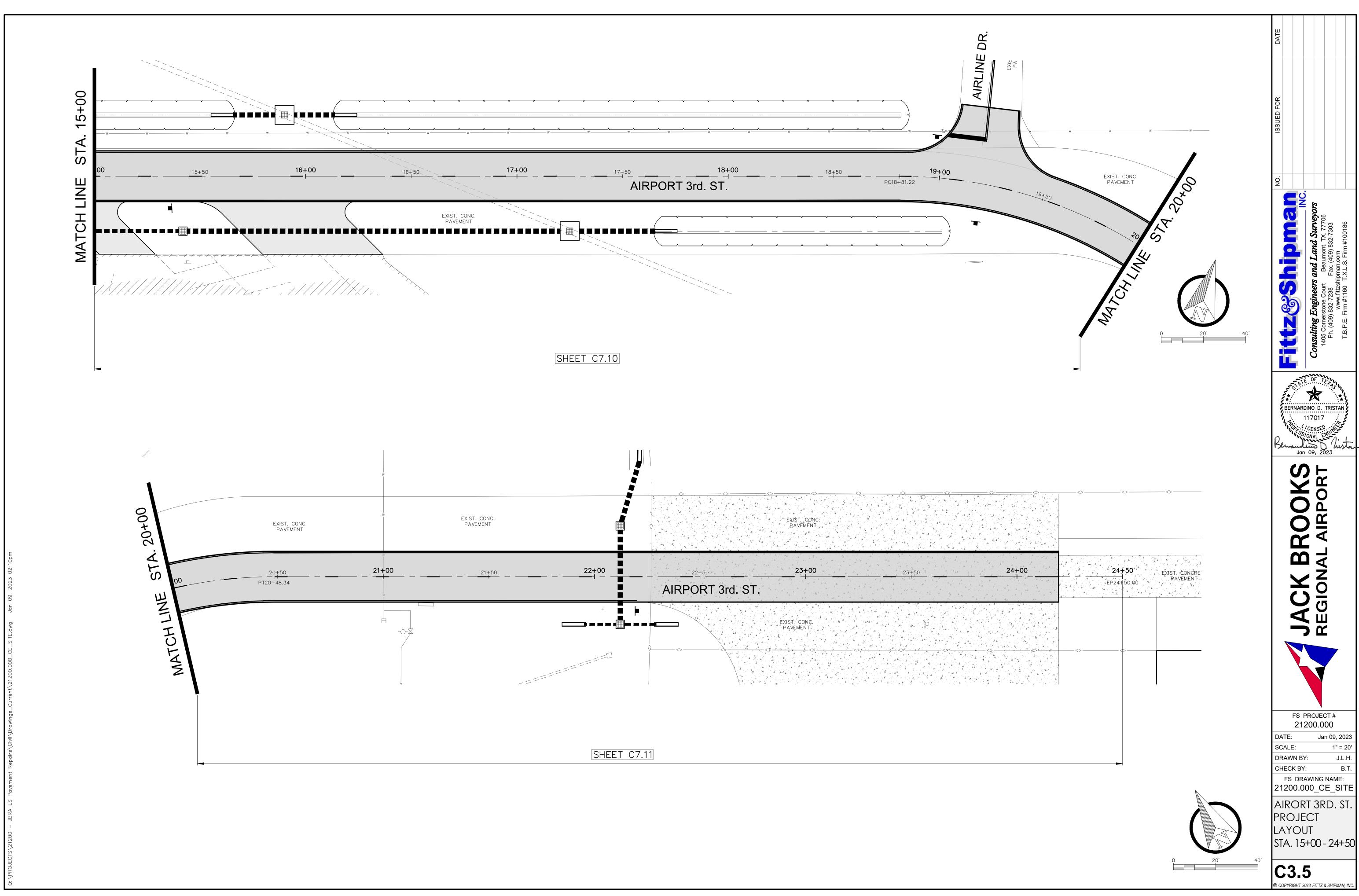












J.L.H. B.T. **General Notes and Specifications** General Notes:

1. The contractor will establish the project control point, points of tangency, pi's (points of intersections), point of curvature (pc, pi and pt) and bench mark at the beginning and end of the project.

2. The contractor shall furnish all lines, grades and benchmarks, other than those specified above. Notify the Engineer immediately if discrepancies are discovered in the horizontal control or the benchmark data.

References to manufacturer's trade name or catalog 3. numbers are for the purpose of identification only. Similar materials from other manufacturers are permitted if they are of equal quality, comply with the specifications for this project, and are approved, except for roadway illumination, electrical, and traffic signal items.

4. The lengths of the posts for ground mounted signs are approximate. Verify the lengths before ordering these materials to meet the existing field conditions and to conform to the minimum sign mounting heights shown in the plans.

5. Unless otherwise shown on the plans or otherwise directed, commence work after sunrise and ensure construction equipment is off the road by sunset.

6. Do not mix or store materials, or store or repair equipment, on top of concrete pavement or bridge decks unless authorized by the Engineer. Permission will be granted to store materials on surfaces if no damage or discoloration will result.

7. The contractor will assume ownership of debris and dispose of at an approved location. Do not dispose of debris on private property unless approved in writing by the Engineer.

8. Control the dust caused by construction operations. For sweeping the finished concrete pavement, use one of the following types of sweepers or equal:

Tricycle Type Wayne Series 900 Elgin White Wing Elgin Pelican Mobile TE-4 Murphy 4042

Truck Type-4 Wheel M-B Cruiser II Wayne Model 945 Mobile TE-3

9. Schedule construction operations such that preparing individual items of work follows in close sequence to constructing storm drains in order to provide as little inconvenience as practical to the businesses and residents along the project.

10. Contractor shall limit his work zone for pavement demolition and concrete placement to three (3) blocks. Concrete placement for new pavement must be complete within one (1) block of the existing roadway/payement before demolition in the next three (3) blocks can be initiated

11. Schedule work so that the base placement operations follow the subgrade work as closely as practical to reduce the hazard to the traveling public and to prevent undue delay caused by wet weather.

12. The Contractor's construction schedule shall be based upon the Contract Time. The Contract Time has an inclusion of Thirty (30) calendar days of inclement weather as defined in Article 54.b, c & d of the General Conditions. No request for an extension of Contract time will be considered until the actual number of inclement weather days exceeds the number of days set out herein.

13. When design details are not shown on the traffic control plans, modifications to the proposed traffic control plan to meet site conditions by either adding more detour, warning and traffic signs as approved by the engineer shall not be paid for separately but shall be considered subsidiary to the traffic control bid items. Temporary pavement markings will be paid for under its unit bid item cost. Signs and arrows shall conform to the latest "Standard Highway Sign Designs for Texas" manual.

14. County forces will maintain the existing section of streets and its appurtenances not a part of this project except that those sections damaged by the contractor's forces shall be repaired by the contractor at his entire expense.

15. The contractor shall be responsible for all maintenance of the travel way and appurtenances within the barricades for the duration of the project. No direct payment will be made for maintenance of the travel way and appurtenances within the barricades, but shall be subsidiary to various bid items.

16. All authorized waste material shall become the property of the contractor and shall be disposed of at a place off the right-of-way and approved by the engineer.

17. The contractor shall maintain adequate drainage throughout the limits of the project during all construction phases.

18. The contractor shall allow county forces to enter this proto accomplish such work as shown in the plans (by others) an may be deemed necessary by the engineer.

19. All drainage structures shall be cleaned and outfall char unobstructed at the time of acceptance by the county.

20. Ingress and egress to adjacent property shall be provide and maintained by the contractor at all times. This will not be for separately but shall be considered subsidiary to various bi Items.

21. The Contractor will utilize an independent Geotechnica Testing Laboratory to sample all concrete structures and make test all concrete cylinders and test all roadway density control base and or subgrades in accordance with the test methods provided for under the TxDOT Standard Specifications for Construction of Highways, and Bridges (Adopted November 2 This will not be paid for separately but shall be considered subsidiary to various bid Items.

22. The approximate locations of the known underground u installations are shown on the plans. The contractor shall be responsible for confirming the exact location of these utility lin and of any others which may exist. No delay claim is allowed because of utility conflicts. It shall be the contractor's responsibility to notify the utility involved in case of conflict or damage and the contractor shall be held responsible for any damage that occurs due to negligence. Where the contractor encounters abandoned lines that interfere with the construction this project, such lines shall be removed and disposed of by contractor. There will be no direct payment for this work and be considered subsidiary to the various bid items in the contra Before excavating near existing utilities, contact the utility companies or the utility coordinating committee for exact local to prevent damage or interference with present facilities. Noti utility coordinating committee and the Texas One Call System the following numbers:

Texas One Call, toll-free 1-800-245-4545

	UTILITY CONTACT PERSON	TELEPHONE NO.	
_	AT & T	O: 409.839.7851	Eddi
Cook	Telephone Company	M: 409.924.1495	
Dala		O: 409.893.1666	Cliff
Paler	mo	M: 409.291.9489	
	Texas Gas Service	O: 409.963.0263	
	Patrick Sam	M: 409.460.9236	
Woo	City of Nederland ds Public Works	O: 409.723.1541	Rob
	Entergy	O: 409.982.5810	Ron
Fletc	her	M: 409.974.8663	
LaRiv	Spectrum /e	O: 409.720.5565	Ada

This action does not relieve the Contractor of the responsibili under the terms of the contract or the plans and specifications Damage caused by the Contractor's operations shall be repair and restored to service in a timely manner at no expense to the County.

23. Notify the Engineer at least 48 hours before constructin junction boxes at intersections of storm drains and utilities.

24. Install or remove poles, street lights and luminaires loca near overhead or underground electrical lines using establish industry and utility safety practices. Consult the appropriate u company before beginning such work.

25. If overhead or underground power lines need to be de-energized, contact the electrical service provider to perform work. Costs associated with de-energizing the power lines or (protective measures required are at no expense to the County

26. If working near power lines, comply with the appropriate sections of Texas State Law and Federal Regulations relating the type of work involved.

27. Perform electrical work in conformance with the Nationa Electrical Code (NEC) and County standard sheets.

28. All materials, labor and incidentals required for the contractor to provide for traffic across the streets and for temporary ingress and egress to private property shall be furnished by the contractor at no additional cost to the county and shall be considered as incidental to the various bid items in this project.

roject nd as	29. The contractor shall furnish a certified tabulation of measurements, tare weights and allowable legal gross weight calculations for all trucks, etc., prior to their use on the project.	projects so as not to work in progress on ensure an uninterrup
annels	Each truck shall be identified by a permanent and plainly legible number located on the truck and on the bed of the truck and/or trailer.	BID ITEM NOTES
led paid oid	30. Any storm water permit and associated fees required for construction of this project shall be at the contractor's expense. Also, any temporary erosion, sediment and water control measures required shall be in accordance with the details shown in the plans and all work and materials required shall be paid for under the item	 ITEM 104: REMOVIN All concrete (s will be saw cut to ful pavements. Saw cut
al ke and olled	"Temporary Erosion, Sedimentation & Environmental Controls". 31. Storm water grading permit is required for this project and shall be filed by the contractor at the contractor's expense.	slabs, pavements, et concrete will not be subsidiary to pertine
2014).	32. Procure all the necessary city, county and/or state permits and licenses before the start of this project.	 Replace that p sewer installation wi inch of asphaltic con subsidiary to this iter
utility	33. Prepare, maintain and submit for approval, a project schedule using CPM or similar project planning method. Also,	Removal of co
ines	submit contractor's contact personnel's telephone or cell phone numbers in case of emergencies during and after working hours.	ITEM 110: EXCAVAT
r ion of the	34. Move existing signs, mailboxes, delineators and any other similar obstructions that interfere with construction to temporary locations approved by the engineer. Move them back to their permanent positions when the work progresses to the point where this is possible. Place the sign post back in accordance with the applicable standard sheets. (Pozloc System). This will not be paid	• All excavated property of the contr engineer. There will excavated material, 110 "Excavation".
it shall ract. ations	 for directly and will be considered subsidiary to various bid items. 35. The contractor shall maintain adequate drainage throughout the limits of the project during all construction phases. The 	 Excavation sha Payment shall be ba sheet. Additional co excavation due to fie
ify the n. at	contractor will provide all necessary labor, equipment, temporary conveyance materials and all other incidentals and cost associated with this task to prevent flooding of roadway pavements, roadside ditches and properties on areas were construction work has started and/or on areas within project limits that will affect public safety and property damage during a storm event. Storm water will be conveyed and discharged into existing and new storm sewer	 If manipulating same material more the excavation is me the number of manipulating same material more the number of manipulating same material more the number of manipulating same same same same same same same same
Eddie	structures. This work will not be measured or paid for directly but will be subsidiary to pertinent items. On areas within scope of work where water is ponding and or flooding during a rain event and as directed by the engineer, the contractor shall provide drainage and maintain temporary drainage structures and facilities which are necessary to facilitate drainage. All incidental labor,	• The total excar the quantity for excar existing street to allo pavement and aspha sections.
Cliff	equipment, temporary material and incidental cost will not be measured or paid for directly but will be subsidiary to pertinent items.	• Excavation rec including but not limit treatment, etc. as we subsidiary to the ass
	36. Care shall be taken when moving existing property irrigation or sprinkling water facilities and its appurtenances that interfere with construction. Contractor shall temporarily relocate or disassemble, disable, and plug these facilities at their temporary	excavation quantities
Robert	location. Contractor shall restore, reconnect and activate property irrigation or sprinkling facilities its original condition or better when work is completed. This work will not be measured or paid for directly but will be subsidiary to pertinent items.	 Final grading a soon as possible and Final grading and sta work progresses.
Ron	Specifications:	Multiple mobili
Adam	ITEM 5: CONTROL OF WORK	to comply with the Te Permit of the Texas I requirements for re-
ities 15.	Any earthwork cross-sections, computer printouts, data files and any other information provided is for non-construction purposes only and it is the responsibility of the prospective bidder to validate the data with the appropriate plans, specifications and estimates	• Eliminate seed the Engineer to have
ired the	for the projects. Contact the Fittz & Shipman, Inc. located at 1405 Cornerstone Court (409) 832-7238.	ITEM 168 VEGETATI
ng	ITEM 7: LEGAL RELATIONS AND RESPONSIBILITIES	 Equip water truck covering the entire a
ated hed utility	Furnish all materials, labor and incidentals required to provide for traffic across the highway and for temporary ingress and egress to private property in accordance with article 7.7 of the standard specifications at no additional cost to the County. This shall be incidental to the bid items on this project.	• Water all newl installation. Thereaft well-watered condition condition that water
rm this	Maintain the roadway slope stability. Temporary retaining structures or shoring may be required. Before installing any proposed temporary retaining structures or shoring, secure written	 Mechanical was adequate moisture a Furnish and age
r other ty.	approval. Submit design calculations, working drawings and a plan of operations including sequencing. Maintaining slope stability is subsidiary to the various bid items.	acre per cycle.Comply with state
te g to nal	This contract requires work performed on railroad property. Cooperate with the railroads and comply with all of their requirements including obtaining any training they require before performing work on railroad property.	coverage; uniform ve period, meter and op pressure capable of necessary. For Perm weekly for 12 weeks For Temporary seed
	ITEM 8: PROSECUTION AND PROGRESS	weeks, unless direct

Gather information and direct attention to the aspects of adjoining projects that may be in progress during the construction of a portion of this project. Plan and prosecute the sequence of construction and the traffic control plan with adjacent construction

interfere with, or hinder the completion of the the adjoining projects. Coordinate projects to pted flow of traffic.

NG CONCRETE

sidewalks, driveways, slabs, pavements, etc.) Il depth at connection points to existing tting of all concrete (sidewalks, driveways, etc.) and as directed by engineer for removing measured or paid for directly but will be ent items.

portion of the pavement removed for storm vith ten (10) inches of flexible base and one (1) ncrete pavement. This work will be considered

oncrete curb is subsidiary to this item.

TION

material not used on this project shall be the ractor and disposed of at a site approved by the I be no direct payment for hauling of excess , but shall be considered subsidiary to the item

hall be a plans quantity measurement item. ased on the quantity as shown in the proposal ompensation will be considered for extra eld change which effect the total quantity more

g the excavated material requires moving the e than once to accomplish the desired results, easured and paid for only once regardless of pulations required.

avation quantity shown on the plans includes avating the material beyond the extents of the ow the installation of stabilized base, concrete alt stabilized shoulder as shown on the typical

quired for the installation of drainage structures nited to storm sewer, inlets, safety end ell as re-grading the road side ditches shall be sociated bid item and not included in the

FOR EROSION CONTROL

and stabilization (seeding) shall be achieved as d not scheduled only for the end of the project. abilization should be initiated as the overall

lizations of the seeding crews will be expected **CEQ** Requirements for Construction General Pollution Elimination Discharge System vegetating disturbed soils.

ding in areas of natural growth determined by e sufficient cover.

IVE WATERING

rucks with sprinkler systems capable of area to be seeded from the roadway.

ly placed seeded areas the same day of ter, maintain the seeded areas in a ion and at no time allow the areas to dry to the stress is evident.

atering may not be required during periods of as determined by the Engineer.

pply water at a rate of 6.788 Mega gallons per

tabilization requirements for 70% grass regetative coverage is required. During this perate water equipment under pumping delivering the required quantities of water nanent seeding each cycle shall be executed , unless directed otherwise by the Engineer. ling each cycle shall be executed weekly for 6 ted otherwise by the Engineer.

Provide a log book showing daily water usage and receipts • of water applied, in addition to metering the water equipment.

• Vegetative watering for seeding for erosion control shall be subsidiary to the associated bid item.

ITEM 210: ROLLING

 Compact embankment, subgrade, base, surface treatment, or base materials.

• The work performed, materials furnished, equipment, labor, tools, and incidentals will not be measured or paid for directly but will be subsidiary to pertinent Items.

ITEM 247: FLEXIBLE BASE

• Flexible base Type "A" GR 1-2, Density Control and complete in place shall be used on the project unless otherwise approved by the engineer.

Flexible base materials shall be placed and compacted in a minimum of two lifts with a maximum loose material thickness of 8 inches. Compaction test will be taken at each lift as required by the Engineer. Minimum density shall be not less than 95% of maximum dry density as determined by test method TEX-1 14e & TEX-I 15-e.

Subgrade shall be rolled and compacted to not less than 95% of maximum dry density as determined by test method TEX-1 14e & TEX-I 15-e. This work shall not be measured or paid for directly but will be subsidiary to pertinent items.

ITEM 340: DENSE GRADED HOT-MIX ASPHALT

The transition surface areas to be overlaid shall be bladed. cleaned and broomed where necessary and tack coated as directed by the engineer. There will be no direct payment for this work, but shall be considered subsidiary to item 340.

Siliceous granite and gravel, iron ore, or lightweight material will not be permitted on this project.

• The paving mixture shall consist of a uniform mixture of coarse aggregate, intermediate aggregate, fine, and asphalt material. Fine aggregate shall consist of manufactured sands, screenings, and field sands.

 Prime coating flexible base course for asphalt placement surfaces will not be paid for directly, but will be considered subsidiary to Item 340.

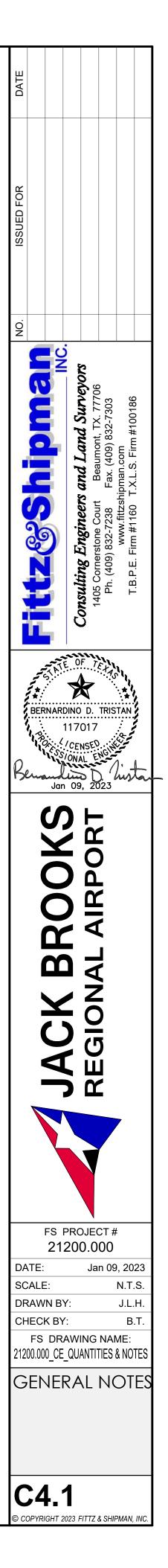
Neither recycled asphalt shingles (RAS) or reclaimed asphalt pavement (RAP) shall be permitted to be used on this project.

ITEM 354: PLANING AND TEXTURING PAVEMENT

 Planning of asphalt surface is limited within the area of each sub-phase under construction.

 Planning of asphalt surface is for the purpose of asphalt material salvage and recycle.

 County has coordinated with the Jack Brook Airport and will provide an area on the southeast side of Jerry Ware Drive, just south of the fueling entrance near Airline Drive split for a laydown area and stockpiling.



ITEM 360: CONCRETE PAVEMENT

 Class P concrete shall be used for all concrete roadway pavements.

• Deformed reinforcement bar size, spacing and placement shall conform to Roadway Standards and Paving Details. Spacing adjustments may be required at the edges on both sides of the proposed concrete pavement lane widths as shown in the contract drawings.

Wire mat reinforcements are not allowed for use on roadway • construction for this project. Wire mat reinforcement will be allowed for use on driveways and sidewalk construction.

• The contractor may use transit mix concrete in accordance with the item "ready-mix plants".

Where the pavement curb is left off for a later tie, provide the dowels or the tie bars as indicated on the paving detail sheets. The dowel bars and tie bars are subsidiary to the various bid items.

• Repair portions of the concrete pavement surfaces that are damaged while in a plastic state before that area receives permanent pavement markings and opens to traffic. Perform repairs that are structurally equivalent to and cosmetically uniform with the adjacent undamaged areas. Do not repair by grouting onto the surface.

Set-retarding admixtures will not be allowed. •

• Hand-finishing of concrete pavement will be permitted as directed by the engineer.

• Sawing of all joints shall begin as soon as sawing can be accomplished without damage to the pavement and completed before 12 hours has elapsed. Any random cracking of the pavement, which in the opinion of the engineer, is due to incomplete sawing operation shall be removed and replaced at the expense of the contractor.

• Class 5 self-leveling low modulus silicone sealant shall be used on this project.

All longitudinal and transverse joints shall be sawed. ٠

Surface test Type "A" shall apply to this project. •

 Concrete placement will not be permitted when impending weather conditions, in the opinion of the engineer, may result in rainfall or low temperatures which will impair the quality of the finishing work.

 The contractor shall have on the job site sufficient burlap or polyethylene fabric, as directed by the engineer, to cover a section of concrete pavement 600 feet long and 16 feet wide.

Siliceous gravel will not be permitted in the mix design. •

The dowel support assemblies used in concrete pavement shall be constructed using number 1/0 (0.306 inch diameter) wire in the main vertical members. Dowels shall be rigidly supported in parallel positions and shall be welded on one end to support the frame. The weld attachment shall be made alternately on opposite ends of successive dowels. The support assembly shall be subject to the approval of the engineer.

• A minimum of 3/5th of each dowel bar shall be coated with hot-applied asphalt cement. The coating shall be placed on opposite ends of successive dowels.

Saw cutting of all joints (transverse expansion joints, longitudinal construction joints, longitudinal sawed joints, transverse sawed joints and others) will not be paid for separately, but shall be considered subsidiary to pertinent items.

Newly placed roadway pavement surfaces with crack(s) of any cause or nature will not be approved and accepted by the County. Crack(s) shall be repaired as shown on TxDOT Standard Full Depth Repair for Concrete Pavement (REPCP) - 14 before the acceptance of the project for maintenance by the Owner. This repair, including saw cutting of pavement full depth, reinforcing, tie and dowel bars, concrete and all incidental materials, saw cutting and sealing of joints, labor and equipment needed to complete the work shall be at the contractor's expense.

ITEM 400: EXCAVATION AND BACKFILL FOR STRUCTURES

Structural excavation for pipes will not be paid for separately, • but shall be considered subsidiary to pertinent items.

• As shown in the drawings, structural backfilling with cement stabilized backfill for pipes under roadway pavements and or outside roadway pavements around pipe zones will not be paid for separately, but will be considered subsidiary to pertinent items.

• Removal of existing storm sewer pipes as called for in the drawings will be paid for under the item for removal of pipes. Pipes removed under roadway pavements will be backfield with cement stabilized sand material up to the bottom of subgrade stabilization or base course. Pipes removed outside the roadway pavement will be backfield with suitable excavated ordinary material up to finish grade line. Cement stabilized sand backfill will be compacted t all voids and ordinary soil material will be compacted at 8" lifts equal to the surrounding undisturbed soil condition. Backfilling cement stabilized sand for trench underneath roadway pavement and ordinary soil materials for trench outside roadway paveme will not be paid for separately, but will be considered subsidiar pertinent items.

ITEM 465: MANHOLES AND INLETS

The use of precast storm sewer manholes and/or inlets • not be permitted in this project.

 Inlet and manhole "ring and cover" shall be gray cast iror part no. as shown in the plans. The dimensions and description are shown on the plans. Dimensions may vary to the extent determined by the engineer.

• Excavation will not be paid for directly but shall be considered subsidiary to this bid item.

Cement stabilized backfill shall be required around all in • The stabilized backfill shall not be paid for directly but shall be considered subsidiary to pertinent bid items.

 If building manholes or inlets in graded areas, first const them to an elevation at least 4 in. above the top of the highest entering pipe and cover with a wooden cover. Complete the construction of such manholes or inlets to the finished elevatio when completing the grading work for such manholes or inlets Adjust the final elevation, if required, since this elevation is approximate.

Construct manholes and inlets in paved areas to an elev so their temporary wooden covers are flush with the surface of base material.

Do not leave excavations or trenches open overnight.

ITEM 500: MOBILIZATION

Mobilization shall not exceed ten (10) percent of the tota construction items amount.

ITEM 502: BARRICADES, SIGNS, AND TRAFFIC HANDLING

Submit changes to the traffic control plan to the Enginee Provide a layout showing the construction phasing, signs, strip and signalizations for changes to the original traffic control pla

• Furnish and maintain the barricades and warning signs, including the necessary temporary and portable traffic control devices, during the various phases of construction. Place and construct these barricades and warning signs in accordance w the latest "Texas Manual on Uniform Traffic Control Devices for Streets and Highways" for typical construction layouts.

Furnish additional barricades and signs to maintain traffi and motorists' safety when directed by the Engineer. Consider payment for these additional signs and barricades subsidiary to Item 502.

Cover work zone signs when work related to the signs is in progress, or when any hazard related to the signs no longer exists.

Keep the delineation devices, signs, and pavement mark • clean. This work is subsidiary to the Item, "Barricades, Signs, Traffic Handling".

 If a section is not complete before the end of the workda pull back the base material to the existing pavement edge on a 1V slope. Edge drop-offs during the hours of darkness are not permitted.

Do not mount signs on drums or barricades, except those listed in the latest Barricades and Construction standard sheet

 Use traffic cones for daytime work only. Replace the con with plastic drums during nighttime hours.

 Place positive barriers to protect drop-off conditions greater than 2 ft. within the clear zone that remain overnight. The traff control plan (TCP) shall conform to the BC (1) - (12) standards part VI of the Current Texas Manual Of Uniform Traffic Control Devices.

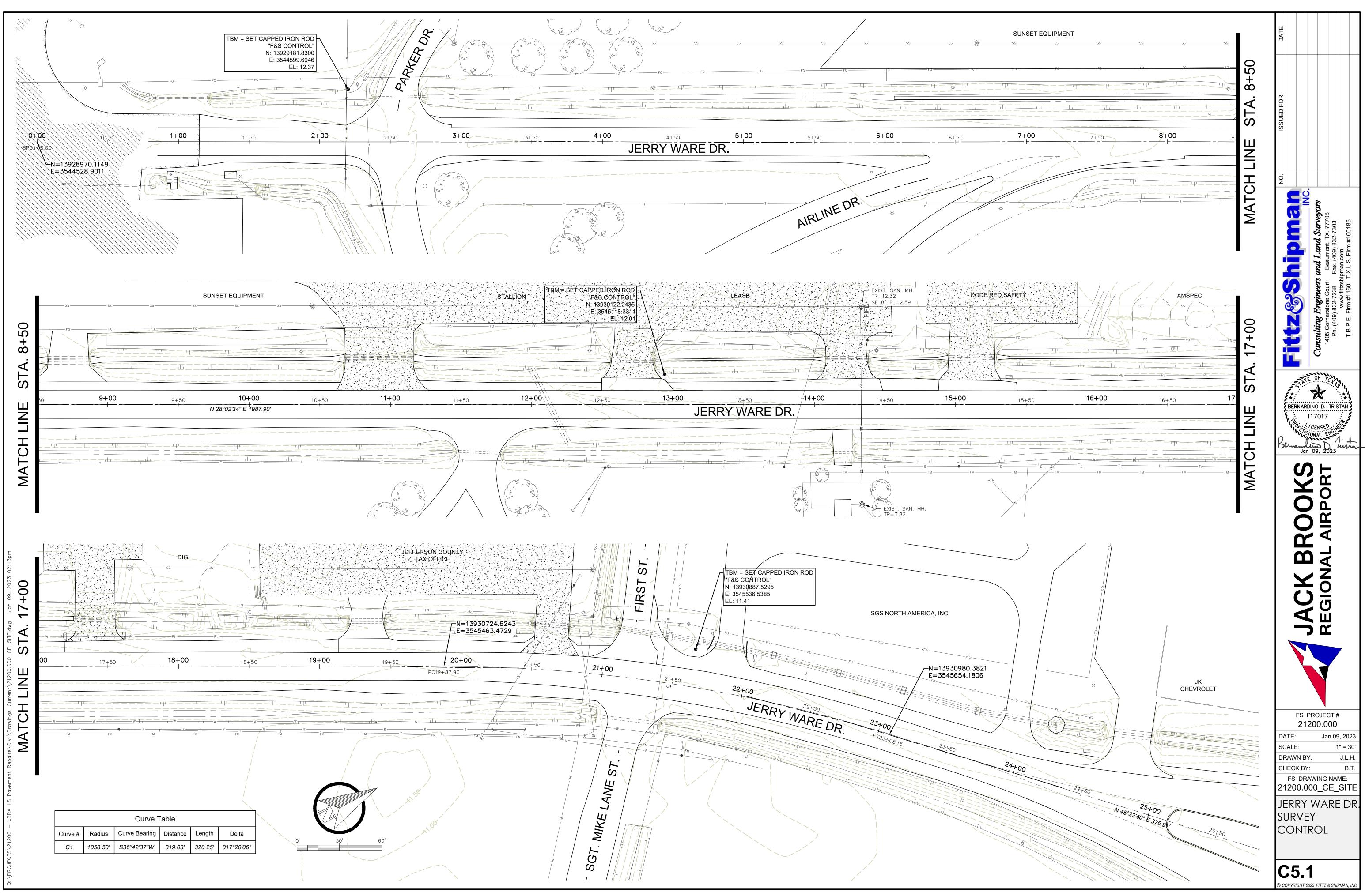
Remove all traffic control devices from the roadway, off ٠ the right of way, when they are not in use. Devices scheduled be used within 3 days may be placed along the shoulder of the roadway or right of way when not in use, or stored in other approved areas on the project. Cover any construction signs t are not in effect that are installed in a fashion that will not allow them to be removed from the right of way easily.

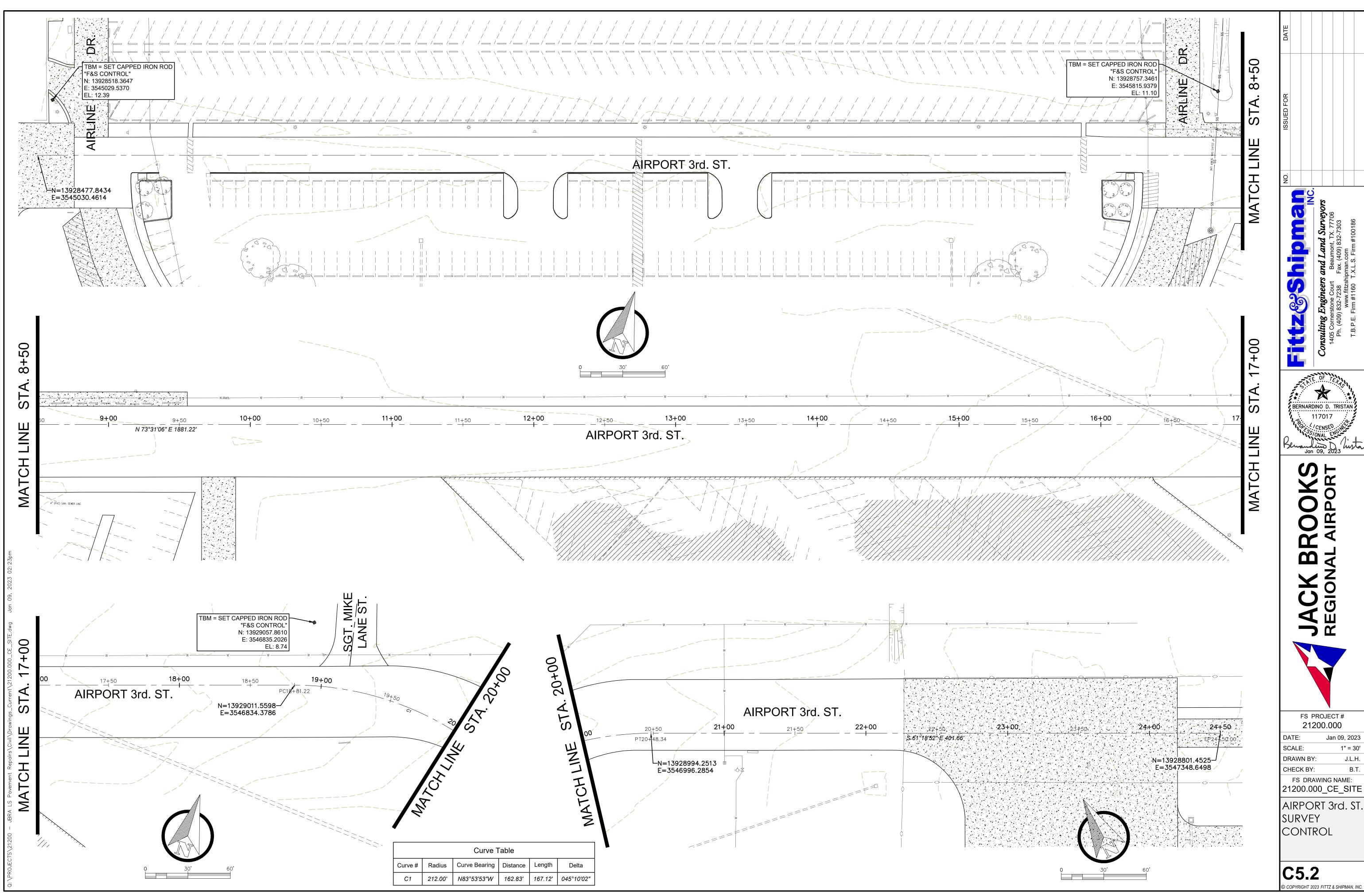
 Use vertical panels instead of cones as traffic control devices.

Construct all work zone signs, sign supports, and barrica from material other than wood unless approved by the engineer.

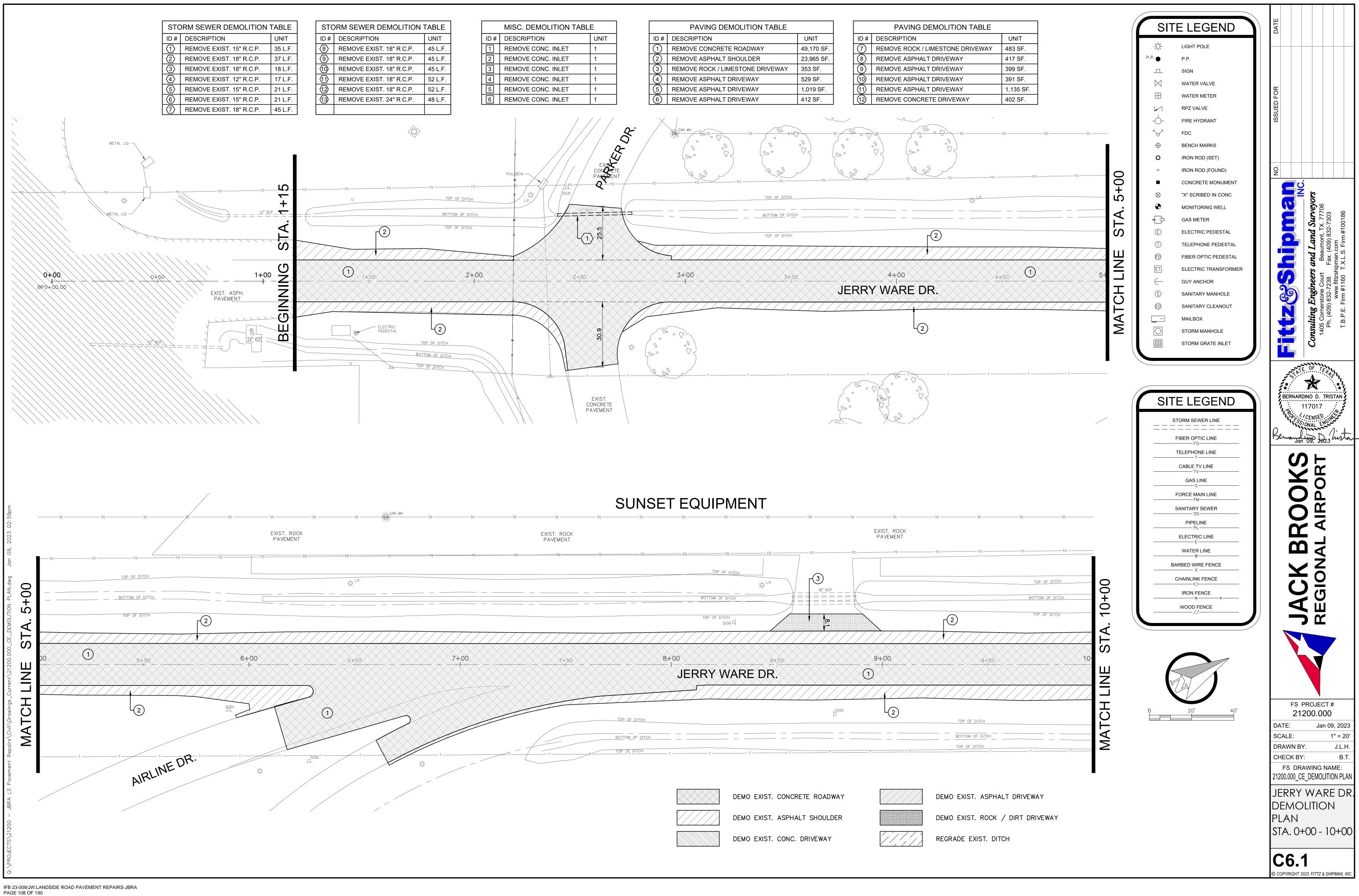
finish I to fill fts	 Galvanize steel supports if used. Aluminum posts, if used, shall meet the following minimum thickness requirements: 	this unit bid item. Any additional modifications and incidental saw cutting of concrete and asphalt pavement at intersections, driveways, and turnouts required to meet existing site conditions,
ng of ment nent	Square FeetMinimum ThicknessLess Than 7.50.080 Inches	construction grade standards as shown in the drawings and as directed by the engineer will not be measured or paid for directly but will be subsidiary to pertinent items.
ary to	7.5 To 1.50.100 InchesGreater Than 1.50.125 Inches	• Any additional saw cutting of existing driveways pavements beyond Right of Way lines inside private property as permitted by
s will	 Plan the sequence of work so as to minimize inconvenience to the traveling public. Any changes to the traffic control plan shown in the plans must be approved in writing by the Engineer. Submit the revised plan for approval to the Engineer. 	the owner, not shown in the drawings as determined and ordered by the Engineer to meet standard grade requirements will not be measured or paid for directly but will be subsidiary to pertinent items.
ron of ons	• The approval by the engineer of the method and procedure the contractor plans to use to handle or detour traffic will not relieve the contractor of his responsibility for the protection of the	ITEM 585: RIDE QUALITY FOR PAVEMENT SURFACES - TXDOT PAVEMENTS
	 Install temporary fence around the open pit by the end of each working day to safeguard pedestrian using the sidewalk. No payment shall be made for this work directly, but will be consider 	• Service Roads and Ramps. Use Surface Test Type A (10 ft straight edge) on service roads and ramps. Short Projects. Use Surface Test Type A when project pavement length is less than 2,500 ft.
inlets. De	 Temporary traffic signalization as shown in the plans and 	ITEM 644: SMALL ROADSIDE SIGN SUPPORTS AND ASSEMBLIES
struct st	Additional temporary traffic signalization not shown in the plans that is required to meet actual site conditions as directed by the engineer will not be measured or paid for separately, but will be considered subsidiary to this pay item.	• Sign locations shown on the plans are approximate before placing them, obtain approval of the engineer and then stake the exact locations for these signs. For this project, existing signs shall be removed, stored, and replaced. Any signs or posts damaged during the removal or storage process shall be replaced with
ion ts. evation	• The Contractor shall submit to the County prior to start of any construction work, a hauling truck and construction vehicles route plan. This route plan shall show streets to be taken for trucks and vehicles either empty or hauling materials going in or out the construction areas scope of work. The Streets that are to	during the removal or storage process shall be replaced with identical products at the contractor's expense. All expenses, equipment, materials, and appurtenances required to remove and replace the existing small road signs will be paid for under this item.
of the	be used as truck and vehicle routes shall be truck loads roadway bearing pavements. Upon approval of the Engineer, this truck routing plan will be strictly implemented. Any changes that is required as construction phases progresses will be reviewed and	 Use the Texas universal triangular slip base with the concrete foundation for small ground mounted signs, unless otherwise shown in the plans. When design details are not shown on the plans, provide
	approved by the Engineer. This work will not be measured or paid for separately, but will be considered subsidiary to this pay item. Construction Exit shall be paid for under Item 506.	signs and arrows conforming to the latest "Standard Highway Sign Designs for Texas" manual.
tal	• The Contractor shall prepare proposed revised traffic Detour Plan for the construction of Airport Pavement Replacement project. This shall be coincidental with the construction progress of work	ITEM 666: RETROREFLECTORIZED PAVEMENT MARKINGS
er. iping,	phases. Any addition barricades, warning and detour signs, including the necessary temporary and portable traffic control devices to detour and control traffic during the construction of the	• Furnish Type II drop-on glass beads per TxDOT Specifications.
lan. S,	Jerry Ware Drive and 3rd Street Pavement Replacement Project will not be measured or paid for separately, but will be considered subsidiary to this pay item.	ITEM 677: ELIMINATING EXISTING PAVEMENT MARKINGS AND MARKERS
of with for ffic er ' to	• Additional Barricades, warning and detour signs, including the necessary temporary and portable traffic control devices to detour and control traffic along 1st Street, Jerry Ware Drive and 3rd Street during the construction of County Utilities as required by the Engineer within limits and scope of project work will not be measured or paid for separately, but will be considered subsidiary to this pay item. Water and Sanitary Sewer installations will be paid under its respective Items. Temporary Asphalt Pavement	 Remove all contaminates and loose material. Consider this work to be subsidiary to the various bid items of the contract. Remove existing raised pavement markers where indicated prior to the addition of the asphaltic pavement or seal coat. Dispose of the removed markers form the project at the end of each workday. Consider this work to be subsidiary to the various bid items of the contract.
is not	restoration and Temporary Pavement Markings will be paid under its respective Items.	ITEM 760: DITCH CLEANING AND RESHAPING
er rkings	ITEM 506: TEMPORARY EROSION, SEDIMENTATION AND ENVIRONMENTAL CONTROL • A Storm Water Pollution Prevention Plan (SWP3) is required	• This item will be used to clean and regrade the existing ditches to the grades as shown in plans to provide adequate drainage for the existing and/or proposed roadway. Any excavation
, and	for submittal when the disturbed area is 1 acre and greater, with the "Notice of Intent" (NOI) as required. The NOI will be completed and filed by the Contractor at the contractor's own expense.	 and backfill will be considered subsidiary and included in the price per linear foot. This item will be used as shown in plans when ditch to filled
lay, i a 6H: it	 Use appropriate measures to prevent, minimize, and control the spill of hazardous materials in the construction staging area. Remove and dispose of materials in compliance with State and Federal laws. 	or excavated. Fill material shall be in accordance with Item 110 Excavation but will be included in the cost per linear foot in this item to depths shown in plans to provide proper drainage.
ose ets.	 Before starting construction, review with the Engineer the SW3P used for temporary erosion control as outlined on the plans. 	End of General Notes
ones	Before construction, place the temporary erosion and sedimentation control management practices as shown on the SWP3.	GOVERNING CONSTRUCTION SPECIFICATIONS
eater ffic ls and ol	• Before starting grading operations and during the project duration, place the temporary or permanent erosion control measures to prevent sediment from leaving the right of way.	The governing construction specifications applicable to this work are the Texas Department of Transportation (TXDOT) 2014 Standard Specifications for Construction of Highways, Streets and Bridges as adopted by the State of Texas.
f of d to ne	• Implement temporary and permanent erosion control measures to comply with the Texas Pollution Discharge Elimination System (TPDES) general permit.	These items which are listed below and which are contained in the TX DOT 2004 Standard Specifications are hereby adopted and made part of the Contract Documents to the same extent as if they were herein reproduced in full subject to such modifications, revisions or supplements as may appear in the section entitled
s that ow	 Schedule the sodding work as soon as possible after completing earthwork operations, restore and sod the disturbed areas in accordance with the County's specifications for permanent or temporary erosion control. 	revisions or supplements as may appear in the section entitled Special Provisions in these Contract Documents to follow: Standard Specifications:
	ITEM 530: INTERSECTIONS, DRIVEWAYS, AND TURNOUTS	Item 100 Preparing Right of Way
cades eer.	• Saw cutting of concrete and asphalt pavement at break back line as shown in the drawings for Intersections, Driveways and Turnouts shall not be paid for separately, but shall be subsidiary to	Item 104 Removing Concrete Item 105 Removing Treated and Untreated Base and Asphalt Pavement

Item 110 Excavation (132) Item 134 Backfilling Pavement Edges Item 164 Seeding for Erosion Control	DATE
Item 168 Vegetative Watering Item 210 Rolling Item 216 Proof Rolling Item 247 Flexible Base Item 260 Lime Treatment	
Item 276 Cement Treatment (Plant Mix) (204)(210)(216)(300)(520) Item 300 Asphalts, Oils, and Emulsions Item 340 Dense-Graded Hot-Mix Asphalt (Method)	ISSUED FOR
(300)(301)(320)(520)(585) Item 354 Planning and Texturing Pavement Item 360 Concrete Pavement (421)(420)(438)(440)(529) Item 400 Excavation and Backfill for Structures (132)(402)	
Item 438 Cleaning and Sealing Joints Item 440 Reinforcing Steel Item 465 Junction Boxes, Manholes and Inlets (420)(421)(427)(440)(442)(471)	NO.
Item 471 Frames, Grates, Rings, and Cover Item 500 Mobilization Item 502 Barricades, Signs, & Traffic Handle Item 506 Temporary Erosion, Sedimentation and	<i>i</i> Land Surveyors aumont, TX. 77706 (409) 832-7303 1.com S. Firm #100186
Environmental Control Item 529 Concrete Curb and Gutter (360)(420)(421)(440) Item 530 Driveways and Turnouts (247)(276)(360)(421)(440) Item 585 Ride Quality for Pavement Surfaces Item 636 Signs Item 666 Retroreflectorized Pavement Markings Item 678 Pavement Surface Preparation Surfaces	Fitter Engineers and Land Consulting Engineers and Land 1405 Cornerstone Court Beaumont, Ph. (409) 832-7238 Fax. (409) 8: www.fittzshipman.com T.B.P.E. Firm #1160 T.X.L.S. Firm #
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	SACK BROOKS BEGIONAL AIROOKS ES PROJECT #
	PROJECT # 21200.000 DATE: Jan 09, 2023 SCALE: N.T.S. DRAWN BY: J.L.H. CHECK BY: B.T. FS DRAWING NAME: 21200.000_CE_QUANTITIES & NOTES GENERAL NOTES
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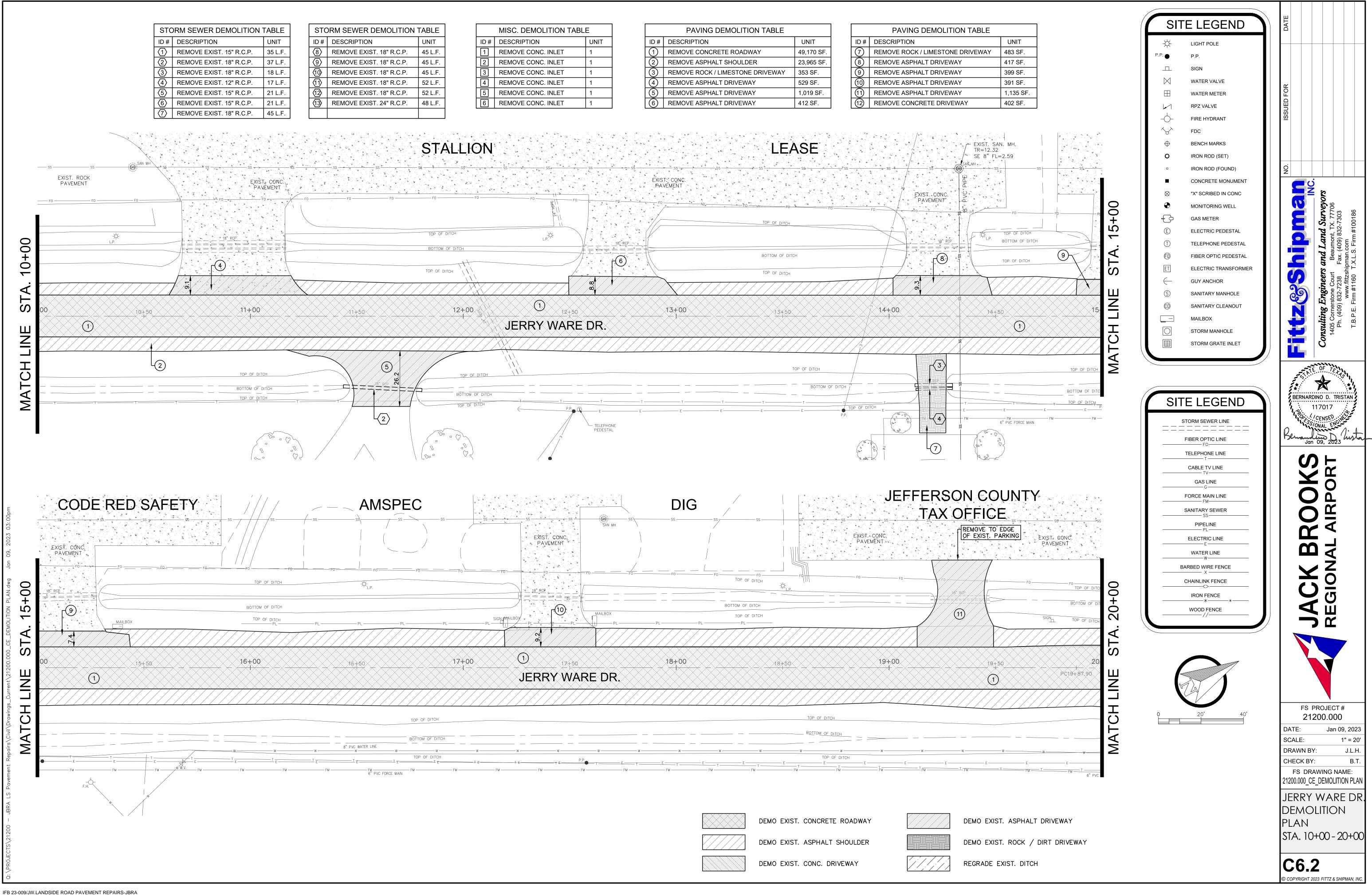


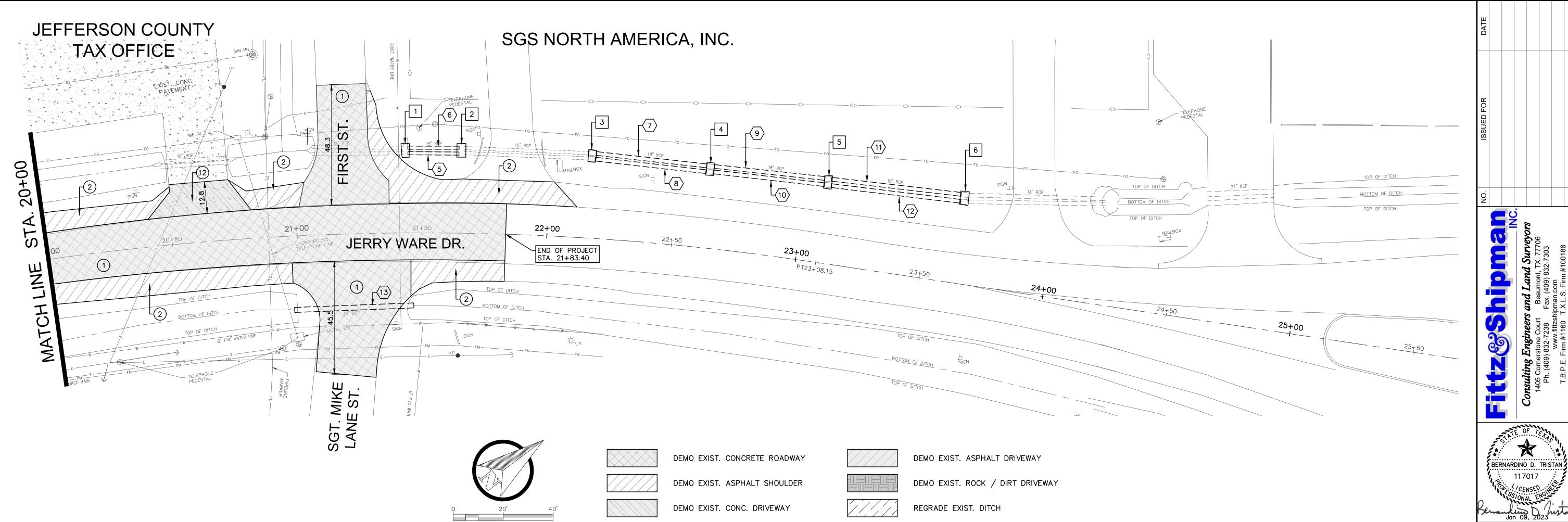


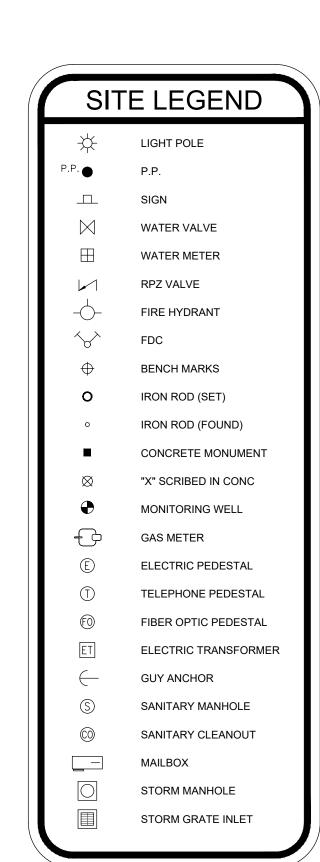
IFB 23-009/JW.LANDSIDE ROAD PAVEMENT REPAIRS-JBRA PAGE 107 OF 190



EXIST. ROCK PAVEMENT			EXIST. ROCK PAVEMENT	
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SITE LEGEND
FIBER OPTIC LINE
GAS LINE
FORCE MAIN LINE
SANITARY SEWER
PIPELINE
WATER LINE
BARBED WIRE FENCE
CHAINLINK FENCE
IRON FENCE
WOOD FENCE

STC	ORM SEWER DEMOLITION	TABLE
ID #	DESCRIPTION	UNIT
(1)	REMOVE EXIST. 15" R.C.P.	35 L.F.
2	REMOVE EXIST. 18" R.C.P.	37 L.F.
3	REMOVE EXIST. 18" R.C.P.	18 L.F.
$\langle 4 \rangle$	REMOVE EXIST. 12" R.C.P.	17 L.F.
(5)	REMOVE EXIST. 15" R.C.P.	21 L.F.
6	REMOVE EXIST. 15" R.C.P.	21 L.F.
$\overline{7}$	REMOVE EXIST. 18" R.C.P.	45 L.F.

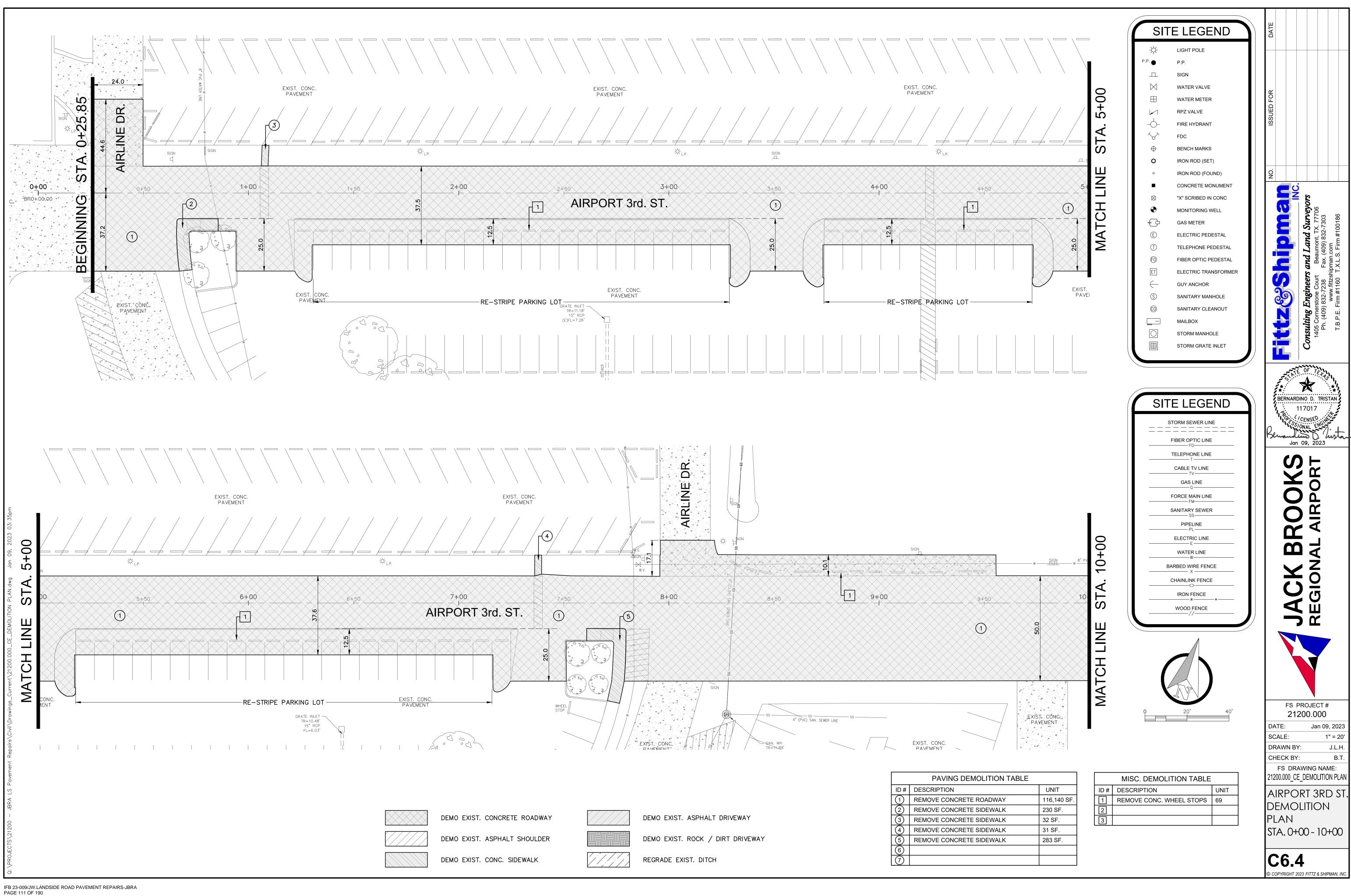
STC	ORM SEWER DEMOLITION	TABLE
ID #	DESCRIPTION	UNIT
8	REMOVE EXIST. 18" R.C.P.	45 L.F
9	REMOVE EXIST. 18" R.C.P.	45 L.F.
(10)	REMOVE EXIST. 18" R.C.P.	45 L.F
(1)	REMOVE EXIST. 18" R.C.P.	52 L.F
(12)	REMOVE EXIST. 18" R.C.P.	52 L.F
(13)	REMOVE EXIST. 24" R.C.P.	48 L.F

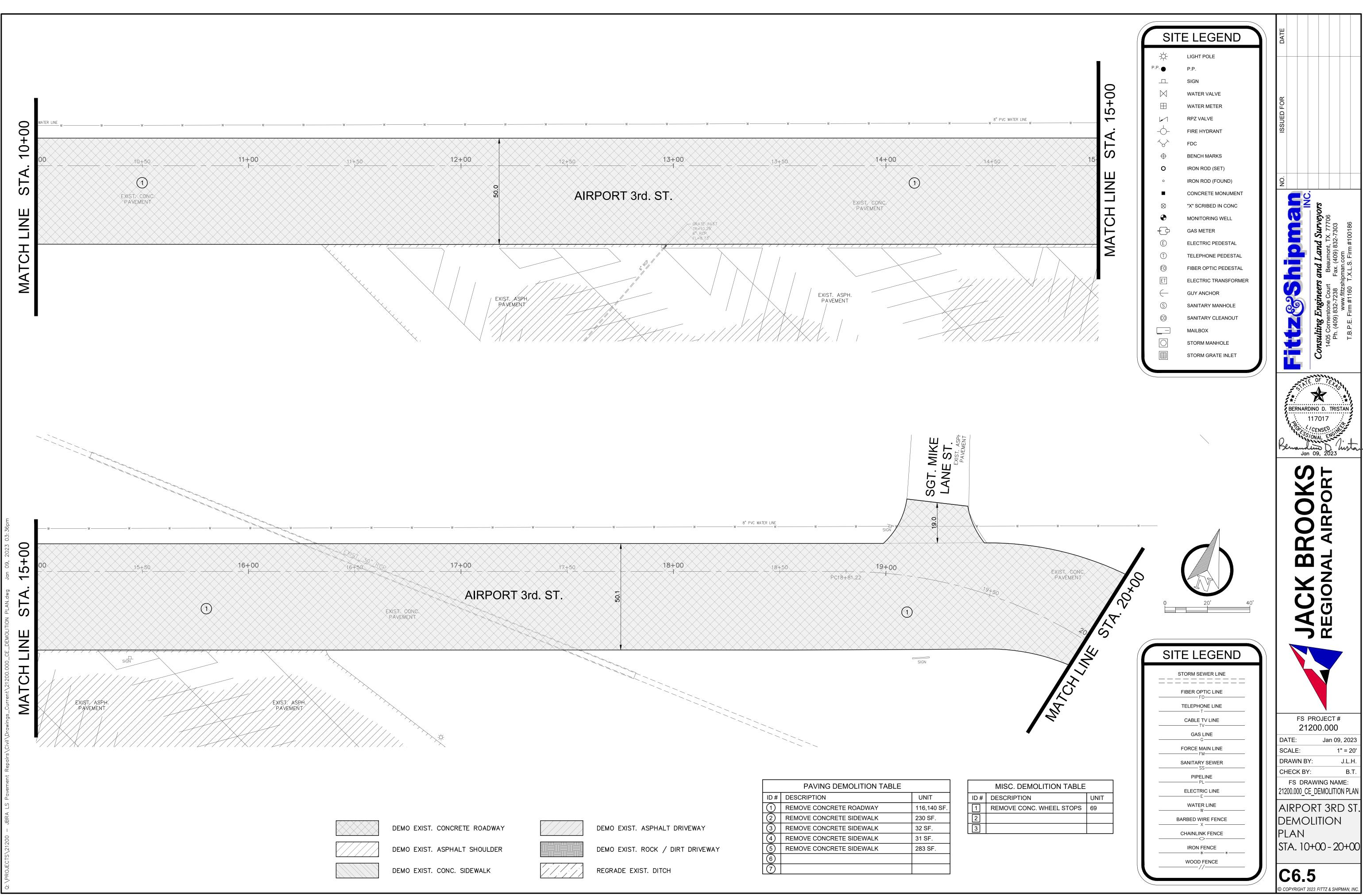
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	MISC. DEMOLITION TABL	E
ID #	DESCRIPTION	UNIT
1	REMOVE CONC. INLET	1
2	REMOVE CONC. INLET	1
3	REMOVE CONC. INLET	1
4	REMOVE CONC. INLET	1
5	REMOVE CONC. INLET	1
6	REMOVE CONC. INLET	1

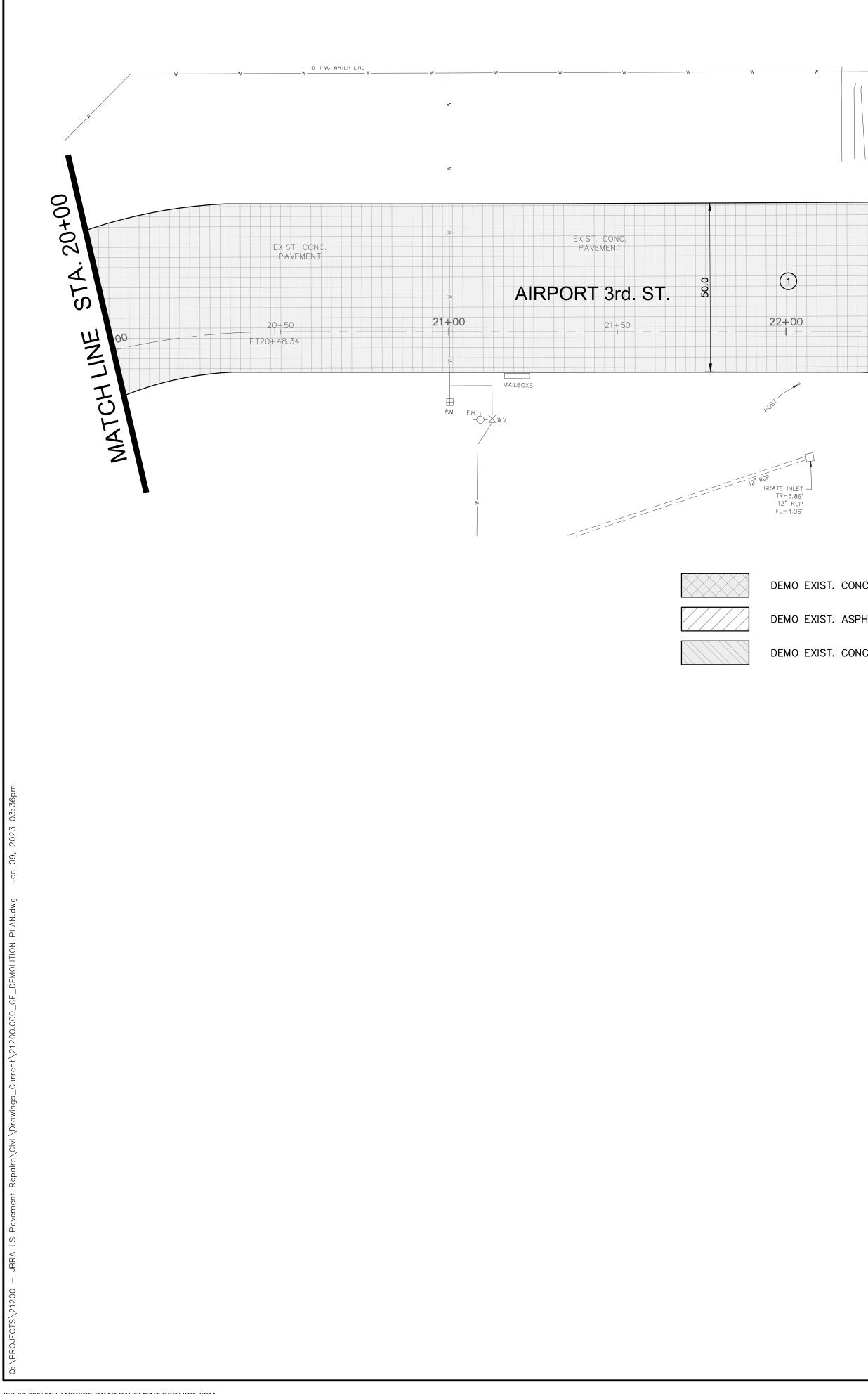
	PAVING DEMOLITION TABLE	
ID #	DESCRIPTION	UNIT
	REMOVE CONCRETE ROADWAY	49,170 SF.
2	REMOVE ASPHALT SHOULDER	23,965 SF.
3	REMOVE ROCK / LIMESTONE DRIVEWAY	353 SF.
4	REMOVE ASPHALT DRIVEWAY	529 SF.
5	REMOVE ASPHALT DRIVEWAY	1,019 SF.
6	REMOVE ASPHALT DRIVEWAY	412 SF.

	PAVING DEMOLITION TABLE	
ID #	DESCRIPTION	UNIT
7	REMOVE ROCK / LIMESTONE DRIVEWAY	483 SF.
8	REMOVE ASPHALT DRIVEWAY	417 SF.
9	REMOVE ASPHALT DRIVEWAY	399 SF.
10	REMOVE ASPHALT DRIVEWAY	391 SF.
(11)	REMOVE ASPHALT DRIVEWAY	1,135 SF.
12	REMOVE CONCRETE DRIVEWAY	402 SF.

DATE	
ISSUED FOR	
ON	
Fitty Shipman	Consulting Engineers and Land Surveyors 1405 Cornerstone Court Beaumont, TX. 77706 Ph. (409) 832-7238 Fax. (409) 832-7303 www.fittzshipman.com T.B.P.E. Firm #1160 T.X.L.S. Firm #100186
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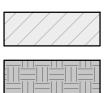


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	BOLLARD EXIST. CONC. PAVEMENT	Ш
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DEMO EXIST. CONCRETE ROADWAY

DEMO EXIST. ASPHALT SHOULDER

DEMO EXIST. CONC. SIDEWALK



1/1

DEMO EXIST. ASPHALT DRIVEWAY



REGRADE EXIST. DITCH

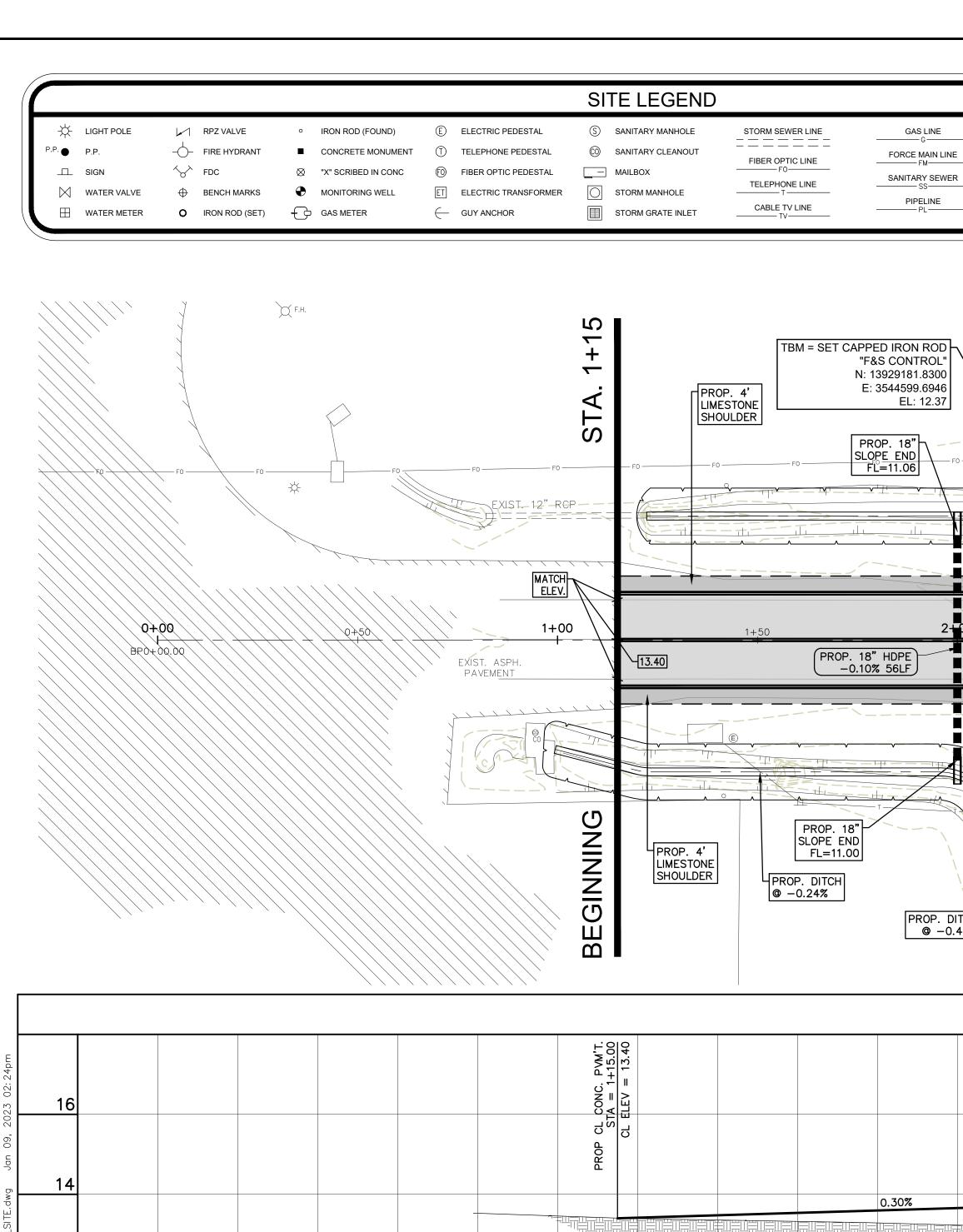
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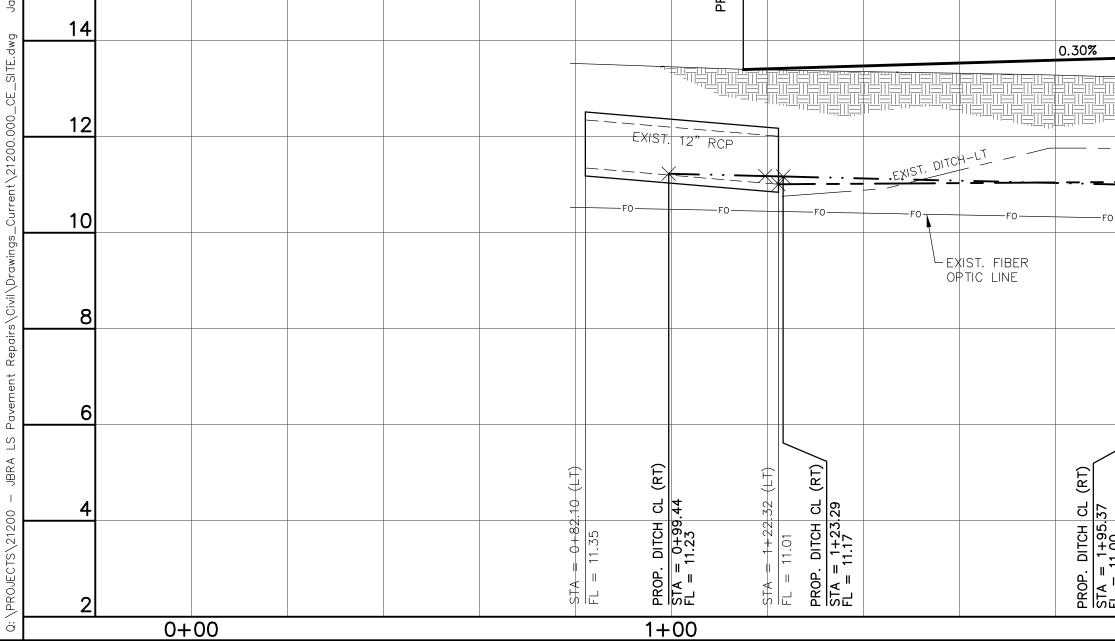
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	■ CONCRETE MONUMENT ⊗ "X" SCRIBED IN CONC	
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	E ELECTRIC PEDESTAL	<b>Thiphen</b> <b>and Land Sur</b> Beaumont, TX. 777 Beaumont, TX. 777 Fax. (409) 832-7303 Man.com X.L.S. Firm #100186
	T     TELEPHONE PEDESTAL       Image: Comparison of the second sec	<b>d L</b> Beaum Seaum an.colo
	ET ELECTRIC TRANSFORMER	
		Consulting Engineers 1405 Cornerstone Court Ph. (409) 832-7238 www.fittzsh T.B.P.E. Firm #1160
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IFB 23-009/JW.LANDSIDE ROAD PAVEMENT REPAIRS-JBRA PAGE 114 OF 190

PELINE PL	CHAINLINK FENCE		PROPOSED ROCK DRIVEWAY	6 CONCRETE DRIVEWAY
		NOTE: SEE SHEET C1.1 F PAVEMENT QUAN	FOR ROADWAY, SUBBASE AND SHOU TITIES.	JLDER
V ROD TROL" 1.8300 9.6946 12.37	EXIS CONCRETE PAVEMENT TO TI3.11	PROP. 18" HDPE		SS     SS     SS     SS     SS     SS       SS     SS     SS     SS     SS       SS     SS     SS     SS       SS     SS     SS     SS       SS     SS     SS     SS       SS     SS     SS     SS       SS     SS     SS     SS       SS     SS     SS     SS       SS     SS     SS     SS       SS     SS     SS     SS       SS     SS     SS     SS       SS     SS     SS     SS       SS     SS     SS     SS       SS     SS     SS     SS       SS     SS     SS     SS       SS     SS     SS     SS       SS     SS     SS     SS       SS     SS     SS     SS       SS     SS     SS     SS       SS     SS     SS     SS       SS     SS     SS     SS       SS     SS     SS     SS       SS     SS     SS     SS       SS     SS     SS     SS       SS     SS     SS     SS       SS
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	13.47 SEE SHT. C7.11 13.82	13.46	JERRY WARE D	R. ^o _{ci} <u>13.38</u>
	13.28 13.39 13.20 13.20 13.20 MATCH ELEV. EXIST. CON RE TE PA VEVENT		PROP. 4' LIMESTONE SHOULDER	
ROP. DI1 @ -0.4			Α	
	PROP CL CONC. PVM'T. STA = 2+54.50 CL ELEV = 13.82	PRC	DP. CONC. PVM'T0.30%	PROP CL CONC. PVM'T. STA = 4+00.00 CL ELEV = 13.38
		EXIST. CONC. 1	PVM'T.	
PR0P. 18"			_ <u></u>	ST. DITCH-LTPROP. DITCH @ 0.10% (RT)
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•		- · • •		

ELECTRIC LINE

WATER LINE

BARBED WIRE FENCE

IRON FENCE

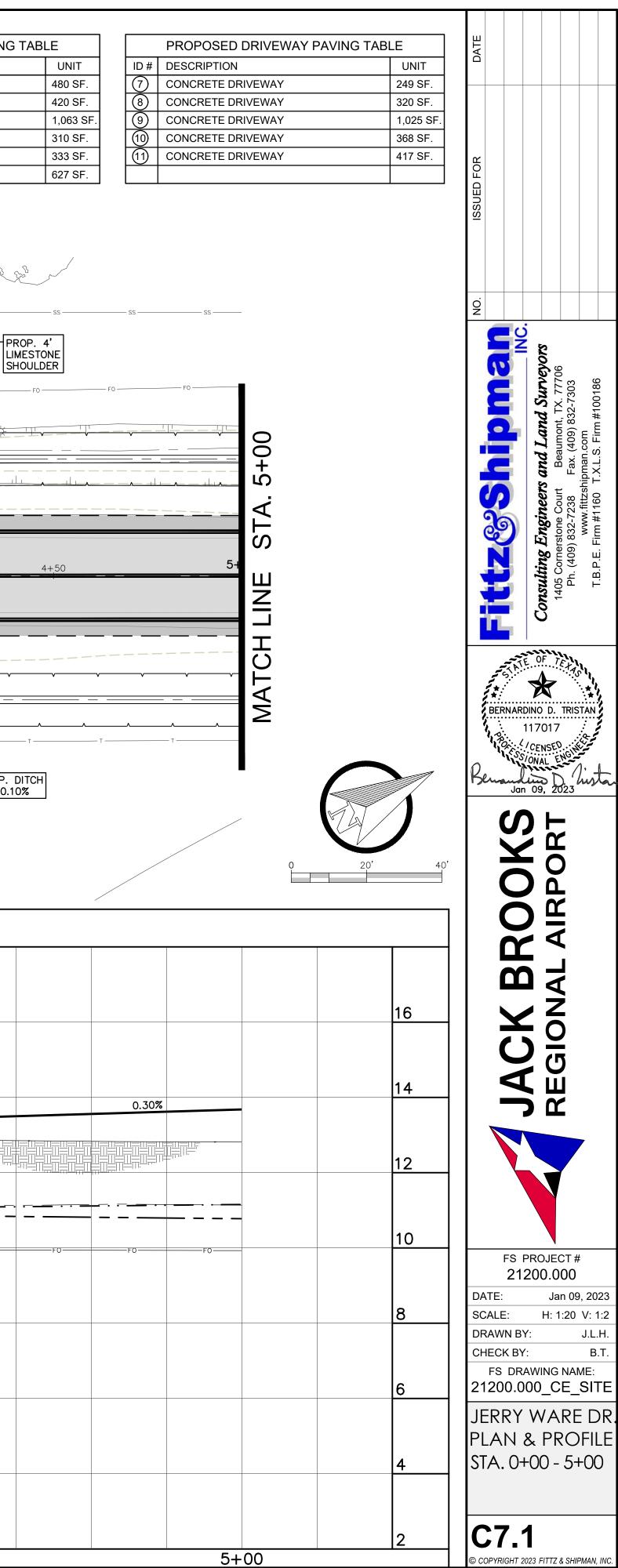
WOOD FENCE

PROPOSED CONCRETE ROADWAY

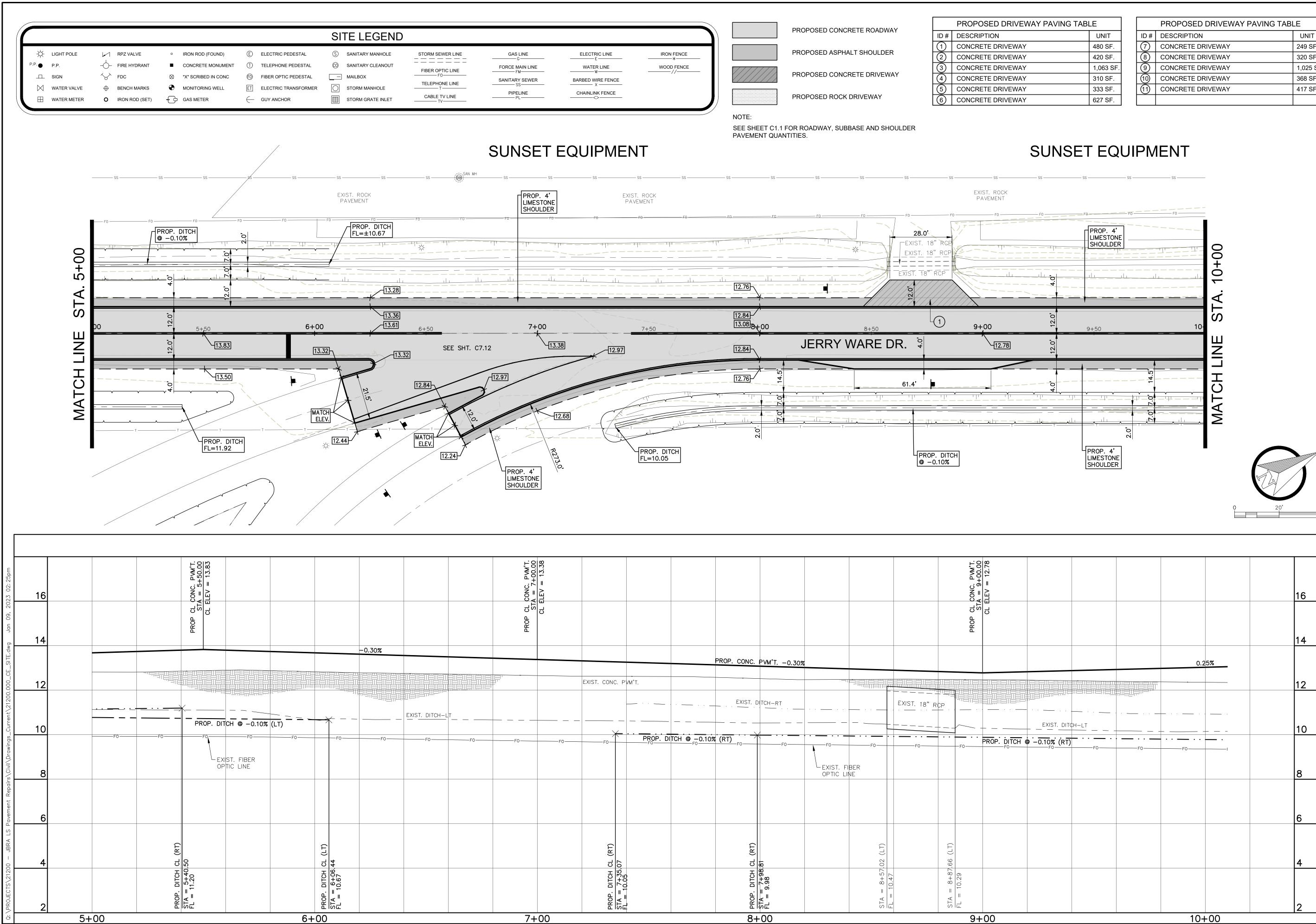
PROPOSED ASPHALT SHOULDER

PROPOSED CONCRETE DRIVEWAY

PROPOSED DRIVEWAY PAVING TABLE ID # DESCRIPTION (1) CONCRETE DRIVEWAY (2) CONCRETE DRIVEWAY (3) CONCRETE DRIVEWAY (4) | CONCRETE DRIVEWAY 5 CONCRETE DRIVEWAY



X



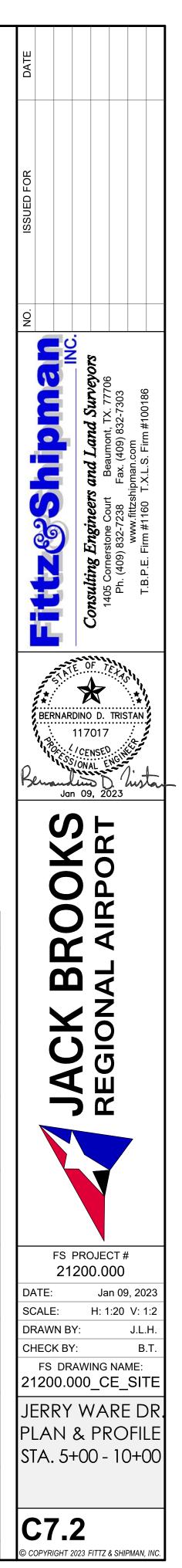
IFB 23-009/JW.LANDSIDE ROAD PAVEMENT REPAIRS-JBRA PAGE 115 OF 190

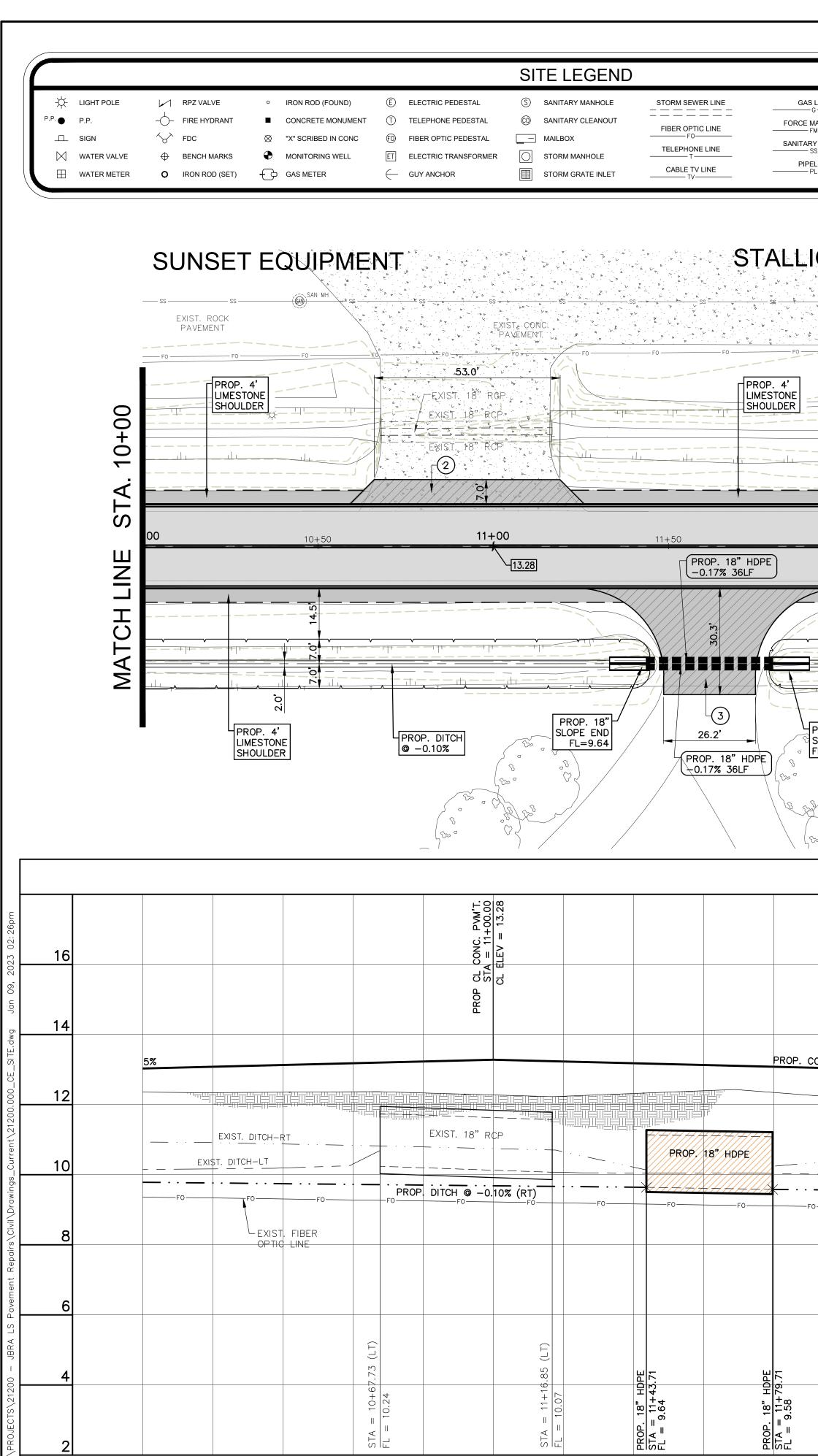
CL CONC. PVM'T. STA = 7+00.00	ELEV = 13.38							CL CONC. PVM'T. STA = 9+00.00	tlev = 12.78	
PROP CL ST	с С							PROP CL ST	ц С	
				PROP. CONC.	PVM'T0.30%					
		EXIST. CONC. P	/M'T.							
				EXIST	DITCH-RT		EXIST. 18" R			
			 							EXIST. DIT
	F0	FO	PROP. DI	TCH @ -0.10% (RT)	F0	FO-FO-FO-FO-FO-FO-FO-FO-FO-FO-FO-FO-FO-F	F0	FO	PROP. DITCH (	9 – 0.10% (RT) FO
		CL (RT) 07		CL (RT)	<b>6</b>	.02 (LT)		.66 (LT)		
		PROP. DITCH CL 0 STA = 7+35.07 FL = 10.05		PROP. DITCH	STA = 7+98.81 FL = 9.98	STA = 8+57.02	FL = 10.47	STA = 8+87.66 FL = 10.29		
7+	-00	· · · · · · · · · · · · · · · · · · ·			-00	·		9+	00	

ASLINE		IRON FENCE
G G G G G G G G G G G G G G G G G G G	E WATER LINE W	
ARY SEWER — SS————	BARBED WIRE FENCE	
PL	CHAINLINK FENCE	

G TABLE				
	UNIT			
	480 SF.			
	420 SF.			
	1,063 SF.			
	310 SF.			
	333 SF.			
	627 SF.			

	PROPOSED DRIVEWAY PAVING TABI	LE
D #	DESCRIPTION	UNIT
7	CONCRETE DRIVEWAY	249 SF.
8	CONCRETE DRIVEWAY	320 SF.
9	CONCRETE DRIVEWAY	1,025 SF.
10	CONCRETE DRIVEWAY	368 SF.
11)	CONCRETE DRIVEWAY	417 SF.





STA = FL = 1

STA FL_

11+00

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10+00

ON SS SS	ET CAPPED IRON ROD "F&S CONTROL" N: 13930122.2435 E: 3545118.3311 EL: 12.01	S S EXIST: CONC PAVEMENT	SS	V SS V SS V SS	SAN.M
	F0 F0 EXIST. 18" RC EXIST. 18" RC	F0	PROP. 4' LIMESTONE SHOULDER	— — — — — — — — — — — — — — — — — — —	
12+00 JERRY V	12+50 VARE DR.	13+00	,0 2 13+50	14+00	6
				R15.0 12.4	
PROP. 18" SLOPE END FL=9.58			P. DITCH 0.10%	PROP. 18" SLOPE END FL=9.37 PROP. 18" HDPE -0.21% 24LF	
		CL CONC. PVM'T. STA = 13+00.00 CL ELEV = 12.78			
ONC. PVM'T0.25%		PROP PROP C S C			
EXIST. 24" HDPE	EXIST. 18" RC	EXIST. CON C.	EXIST. <u>DITCH-RT</u>		F0
STA = 11+98.70 (LT) FL = 9.31 STA = 12+24.96 (RT) FL = 9.22	STA = 12+55.88 (LT) FL = 10.07	STA = 12+86.41 (LT) FL = 9.98		9     9       9     9       9     9       14     0       14     0       14     0       14     0       14     0       14     0       14     0       14     0       14     0	PROP. 18" HDPE STA = 14+32.46 FL = 9.32
12+00		13+00		14+00	

NOTE:	
SEE SHEET C1.1 FOR ROADWAY, SUBBASE AND SHOULDER	
PAVEMENT QUANTITIES	

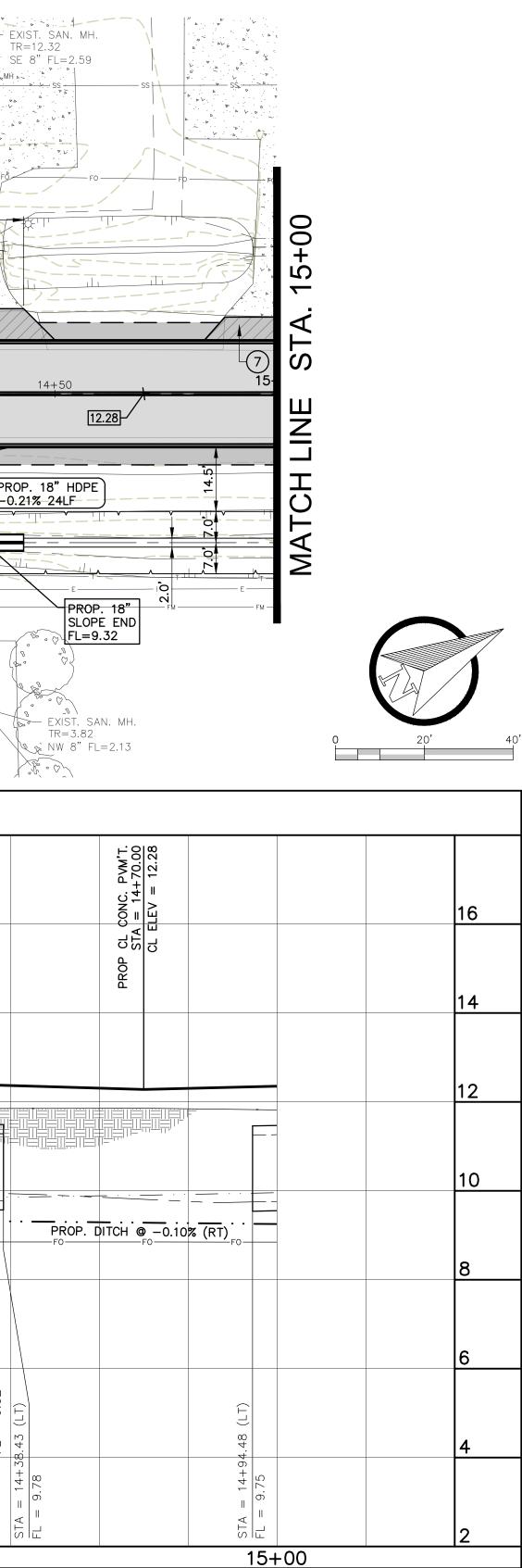
			PROPOSED CONCRETE ROADWAY
GAS LINE	ELECTRIC LINE	IRON FENCE	PROPOSED ASPHALT SHOULDER
RCE MAIN LINE FM	WATER LINE W BARBED WIRE FENCE	WOOD FENCE	PROPOSED CONCRETE DRIVEWAY
PIPELINE PL	CHAINLINK FENCE		PROPOSED ROCK DRIVEWAY

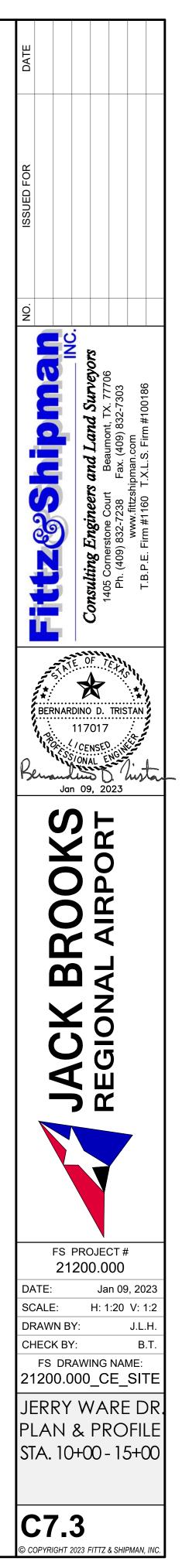
PROPOSED DRIVEWAY PAVING ID # DESCRIPTION (1) | CONCRETE DRIVEWAY (2) CONCRETE DRIVEWAY (3) CONCRETE DRIVEWAY (4) | CONCRETE DRIVEWAY (5) CONCRETE DRIVEWAY

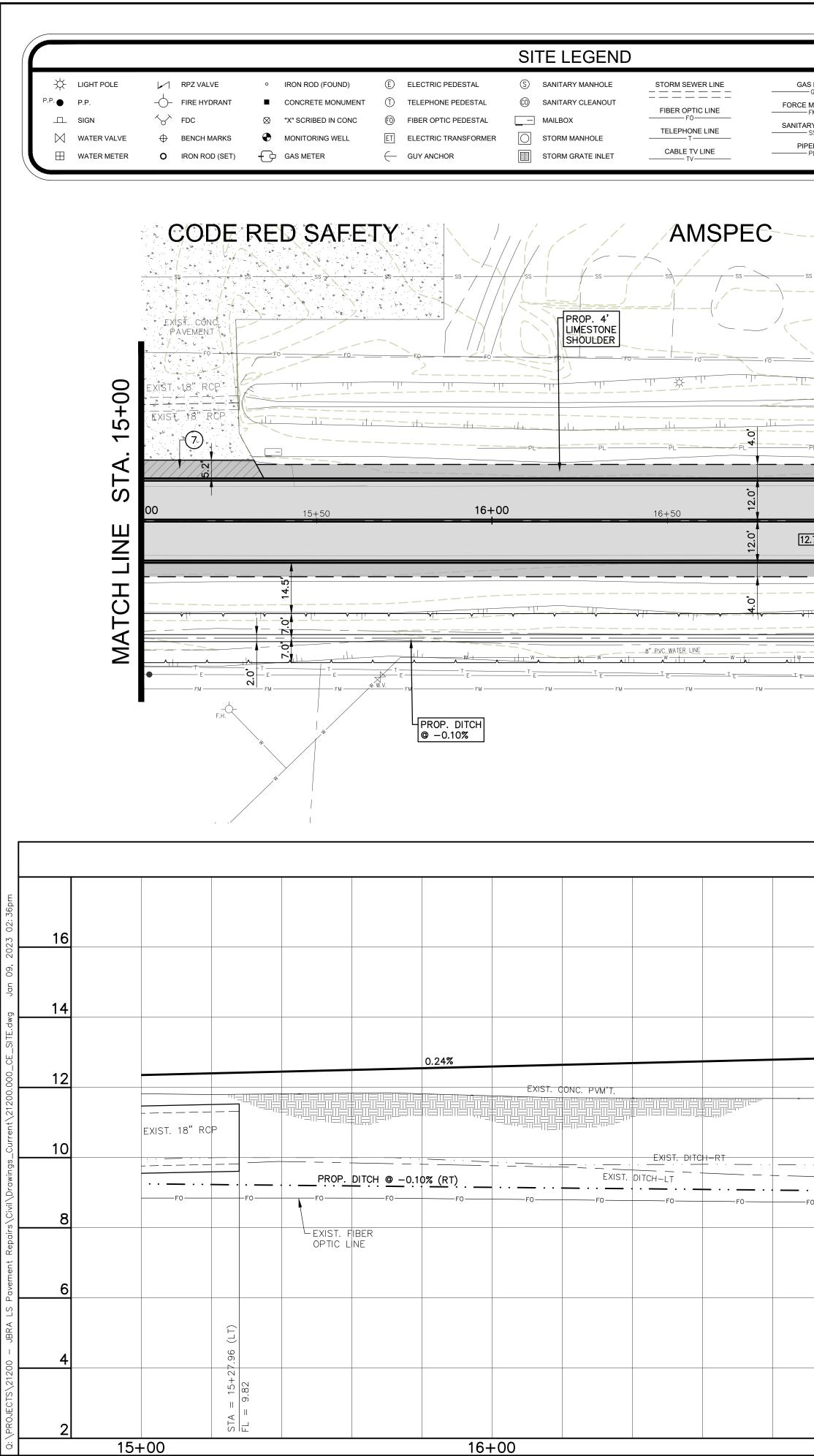
(6) CONCRETE DRIVEWAY

TABLE			
	UNIT		
	480 SF.		
	420 SF.		
	1,063 SF.		
	310 SF.		
	333 SF.		
	627 SF.		

	PROPOSED DRIVEWAY PAVING TABI	LE
ID #	DESCRIPTION	UNIT
$\bigcirc$	CONCRETE DRIVEWAY	249 SF.
8	CONCRETE DRIVEWAY	320 SF.
0	CONCRETE DRIVEWAY	1,025 SF.
<b>(</b>	CONCRETE DRIVEWAY	368 SF.
(1)	CONCRETE DRIVEWAY	417 SF.





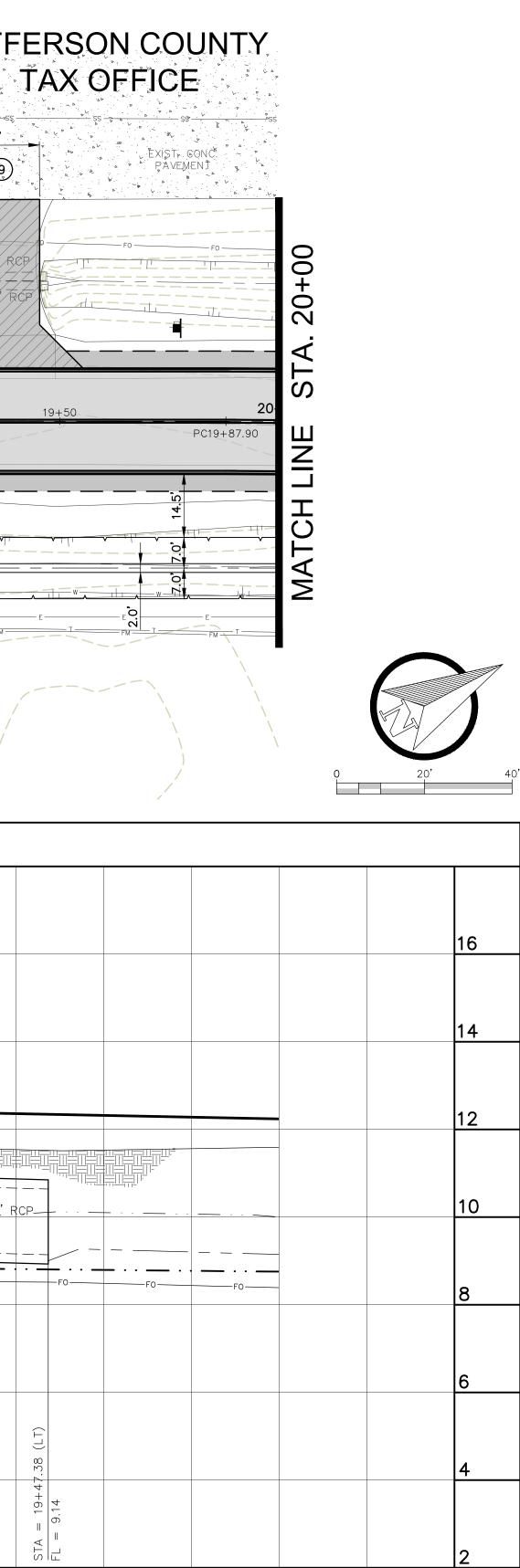


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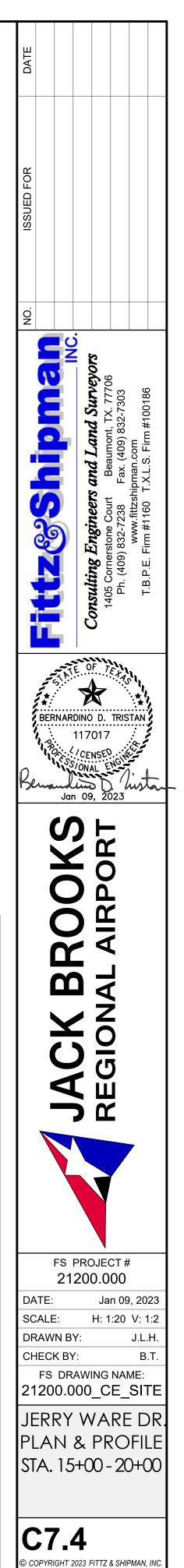
			NCRETE ROADWAY	PROPOSED DRI	VEWAY PAVING
				ID # DESCRIPTION (1) CONCRETE DRIVEN	VAY
S LINE G	ELECTRIC LINE IRON FENCE	PROPOSED ASP	PHALT SHOULDER	2 CONCRETE DRIVEV	VAY
MAIN LINE FM	WATER LINE WOOD FENCE	PROPOSED COL	NCRETE DRIVEWAY	(3)CONCRETE DRIVEV(4)CONCRETE DRIVEV	
SS ELINE PL	CHAINLINK FENCE	PROPOSED ROO	CK DRIVEWAY	<ul><li>6 CONCRETE DRIVEV</li><li>6 CONCRETE DRIVEV</li></ul>	
		NOTE:		6 CONCRETE DRIVE	VAT
		SEE SHEET C1.1 FOR ROADWAY, S	UBBASE AND SHOULDER		<u> </u>
		PAVEMENT QUANTITIES.			JEFF
v. v.					
S	SS SAN MI	55 55 55	SS	SS SS SS SS	SS,
	EXIST. CONC.			EXIST CONC PAVEMENT	24.0'
FO	F0 F0 F0 F0 F0	F0 F0 F0	F0 F0	PROP. 4'	
	EXIST. 18". RCP			SHOULDER	EXIST. 18" /
	EXIST. 18" RCP				EXIST. 18"
PL		PLPLPL			38.51
47.00				40.00	
17+00		18+00	18+50	19+00	
78/	JERRY WARE DR	•		12.18	
					<u> </u>
W			WITI A IVIA IA		W
—Τ-Ε— —FM —	Τ ΕΤΤΤ FMFMFMFMFM	E T E T E T E T E T E T E T E FM FMFM FMFMFMFMFMFMFMFMFMFMFMFMFMFMFMFMFMFMFMFMFMFMFMFMFMFMFMFMFMFMFMFMFMFMFMFMFMFMFMFMFMFMFMFMFMFMFMFMFMFMFMFMFMFMFMFMFMFMFMFMFMFMFMFMFMFMFMFMFMFMFMFMFMFMFMFMFMFMFMFMFMFMFMFMF	ЕЕЕЕЕЕ	Т Е Т Е Т FM Г Т	E — T FM —
		PROP. 4'	/	L	PROP. DITCH @ -0.10%
		LIMESTONE SHOULDER	ĺ		
			i I		
			/	/	( \
⊢84				F.814	
CL CONC. PVM'T. STA = 17+00.00 CL ELEV = 12.84				CONC. PVM'T.	
CONC. = 17 LEV =				ELEV = 19	
CL CL CL CL CL CL CL CL CL EL					
PROP				PROP	
		PROP. CONC. PVM'T0.20%			
			EXIST. CONC. PVM'T.		
	EXIST. 18" RCP		EXIST. DIT	CH-RT	EXIST. <u>18</u> "
·			EXIST. DITC	CH-LT	
0	F0 F0 F0 F0 F0		P. DITCH @ 0-0.10% (RT) FO-	F0	FO
				EXIST. FIBER	
				OPTIC LINE	
	9 (LT)				5 (LT)
					19+19.52 (LT) 22
	$\begin{array}{c c} = & 17+\\ 9.37 \\ \hline 9.24 \\ \hline 9.24 \end{array}$				= 19+ 9.22
	FL = FL =				STA = FL =
17+00	1 1	18+00		19+00	l

TAB	LE		PF
	UNIT	ID #	DE
	480 SF.		СС
	420 SF.	8	СС
	1,063 SF.	9	CC
	310 SF.	10	CC
	333 SF.	(1)	СС
	627 SF.		

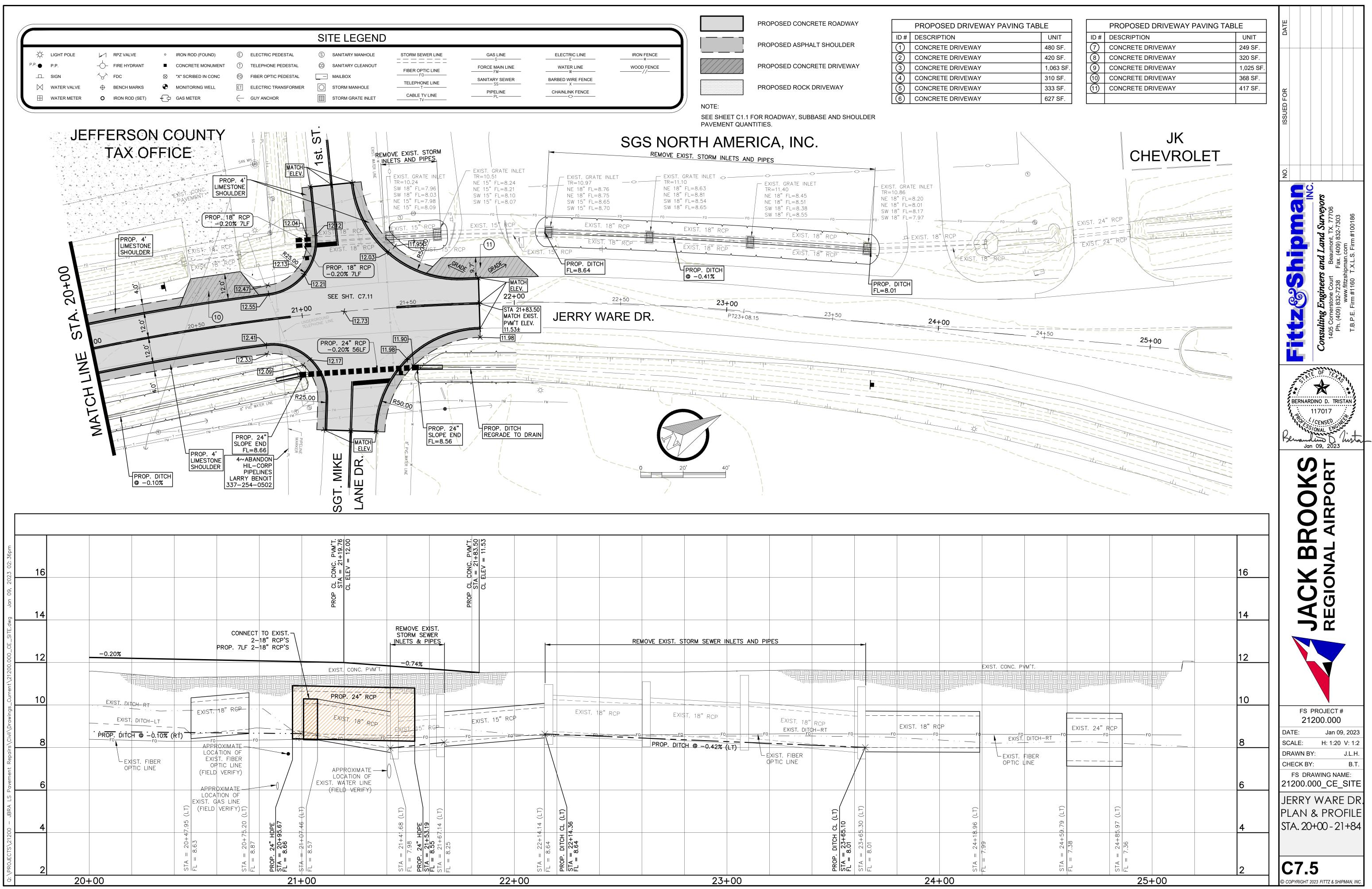
	PROPOSED DRIVEWAY PAVING TABI	Ē
D #	DESCRIPTION	UNIT
7)	CONCRETE DRIVEWAY	249 SF.
8	CONCRETE DRIVEWAY	320 SF.
9	CONCRETE DRIVEWAY	1,025 SF.
10	CONCRETE DRIVEWAY	368 SF.
11	CONCRETE DRIVEWAY	417 SF.



20+00



40'

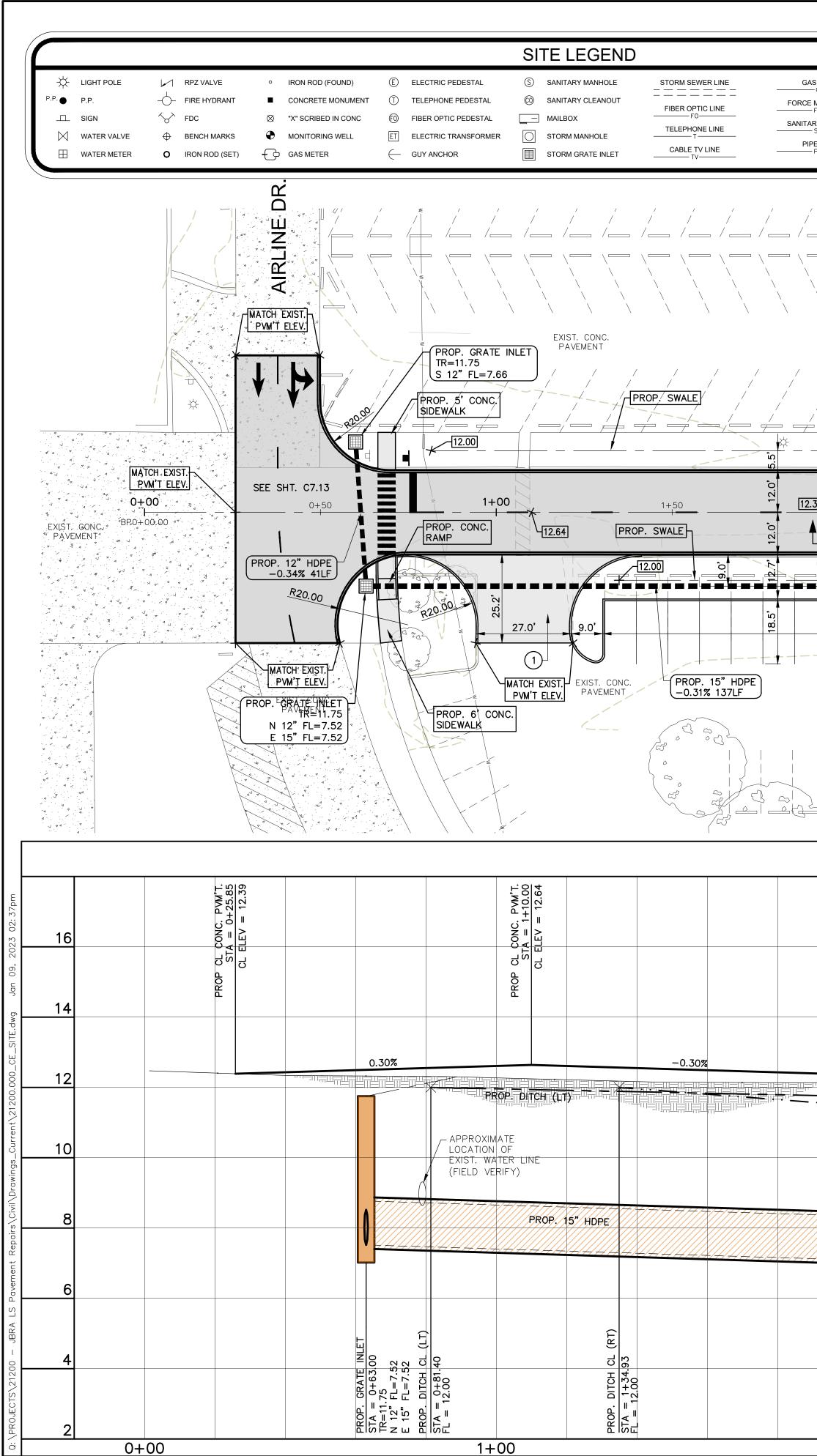


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-	REN	IOVE EXIST. S	FORM SEWER INLETS AND PI	PES		
						EXIST. CONC. P
	EXIST. 18" RCP	EXIS	T. 18" RCP			
	F0.			EXIST. 18" RCP EXIST. DITCH-RT	EXIST. 18" RC	
			H @ -0.42% (LT)			
			└─ E	XIST. FIBER PTIC LINE		EXIST. OPTIC I
(LT)					(L1)	(LT)
	4.36			cL (	2.30	
= 22+14.14 8.64	. DITCH CL ( = 22+14.36 8.64			. DITCH CL ( 8.01	8.01	24+18.96
STA = FL = 8	PROP.   STA = FL = 8			PROP.   STA = FL = 8	STA = FL = 8	5TA = FL = 7
5 문 22+00			23+00		ିତାଳି	

TABLE				
UNIT				
480 SF.				
420 SF.				
1,063 SF.				
310 SF.				
333 SF.				
627 SF.				

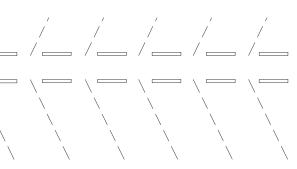
	PROPOSED DRIVEWAY PAVING TABLE				
ID #	DESCRIPTION	UNIT			
$\bigcirc$	CONCRETE DRIVEWAY	249 SF.			
8	CONCRETE DRIVEWAY	320 SF.			
0	CONCRETE DRIVEWAY	1,025 SF.			
10	CONCRETE DRIVEWAY	368 SF.			
(11)	CONCRETE DRIVEWAY	417 SF.			

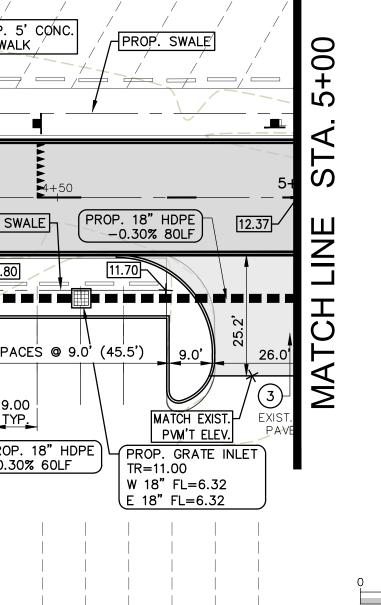


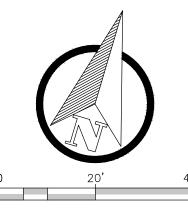
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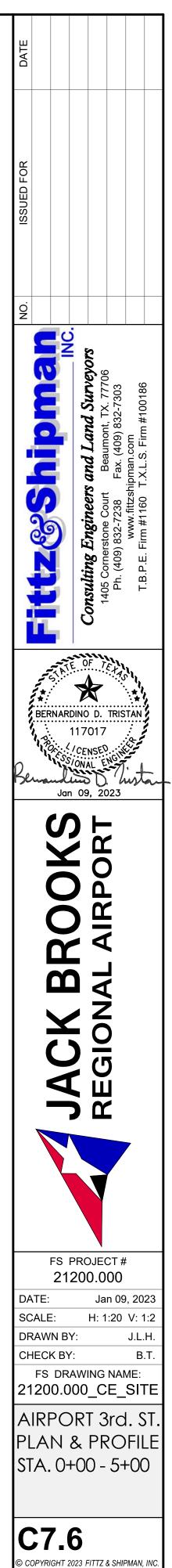
	PROPOSED CONCRETE ROADWAY	PROPOSED DRIVEWAY PAVING	TABLE PROPOSED DRIVEW	AY PAVING TABLE
		ID # DESCRIPTION	UNIT ID # DESCRIPTION	UNIT
GAS LINE ELECTRIC LINE IRON FENCE	PROPOSED CONCRETE DRIVEWAY	(1)     CONCRETE DRIVEWAY       (2)     CONCRETE DRIVEWAY	872 SF.⑦CONCRETE DRIVEWAY848 SF.⑧CONCRETE DRIVEWAY	707 SF. 715 SF.
RCE MAIN LINE     WATER LINE     WOOD FENCE       FM     W     W	PROPOSED ROCK DRIVEWAY	3 CONCRETE DRIVEWAY	848 SF.   9   CONCRETE DRIVEWAY	716 SF.
NITARY SEWER BARBED WIRE FENCE		4 CONCRETE DRIVEWAY	847 SF. (1) CONCRETE DRIVEWAY	700 SF.
	NOTE: SEE SHEET C1.1 FOR ROADWAY, SUBBASE AND SHOULDER	<ul><li>(5) CONCRETE DRIVEWAY</li><li>(6) CONCRETE DRIVEWAY</li></ul>	771 SF.11CONCRETE DRIVEWAY841 SF.12CONCRETE DRIVEWAY	701 SF. 1,459 SF.
	PAVEMENT QUANTITIES.			[ 1,100 Cl 1]
	, , , , , , , , , ,	, , , , , , , , ,		
		EXIST. CONC.		
PROP. GRATE INLET EXIST. CONC. TR=11.75	PROP. GRA	TE INLET PAVEMENT		
$\int (S 12" FL=7.22)$		<u>FL=6.63</u>		
	PROP. SWALE	PROP.	S' CONC.	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$				
	` <u></u>			
PROP. 12" HDPE -0.31% 39LF 2+50	<b>3+00</b> 3+50	4+00	5- <b>F</b>	
AIRPORT	3rd. ST. [12.74] PROP. 12 -0.34	2" HDPE #% 39LF		
	12.00			
	R20.00			
22 SPACES @ 9.0' (199.0')	9.0' 26.0' 9.0'	5 SPACES @ 9.0' (45.5') +9.0' 5 SP	PACES @ 9.0' (45.5') 9.0' 26.0	
		g i i i i i g		
PROP. GRATE INLET TR=11.50	PROP. 15" HDPE -0.31% 195LF	TR=11.25	MATCH EXIST. PWY'T ELEV. PAVE	
W 15" FL=7.10 E 15" FL=7.10 TR=11.18' 15" RCP	PVM'T ELEV.	E 18" FL=6.50	DP. 18" HDPE 30% 60LF TR=11.00	
N 12" FL=7.10		<u>N 12" FL=6.50</u>	W 18" FL=6.32 E 18" FL=6.32	
				0 20' 40'
H 8 2	L.014		37 37	
PVW	PVM'T. = 12.74	л (ГД) 1 (ГД)	PVM'	
CONC.		0028.51 0028.51		16
		PROP FL = FL = FL = FL =	PROP C C	
				14
PROP. CONC. PVM'T. 0.	25%			
EXIST. CONC. PVM 1. 0.		-0.25%		12
		<u> 3</u> 6 <del>7</del> 6		10
		DITCH 1.80 1.80 1.80 1.80 1.80		
		PROP STA = FL = FL = FL =		8
	PROP. 15" HDPE	PROP. 18" HDPE		
<u> </u>			PROP 18" HDPE F	
				6
	(LT) (RT) (RT)		ET ET	
	CC ( CC ( CC (	00000000000000000000000000000000000000	32 52 60 60	4
2+00       0       1       1       1       1	P. DITCH       CL         = 2+95.50       -12:00         = 3+24.79       CL         12:00       12:00	3473 .85 5495 5495 5495 565 -=6.5	NRATE         0         0         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1	
PROP. GRATE INLE STA = 2+00.00 TR=11.50 W 15" FL=7.10 N 12" FL=7.10 N 12" FL=7.10	PROP. DITCH       CL         STA = 2+95.50         FL = 12.00         FL = 12.00         FL = 12.00	STA = 3+73.88 FL = 11.85 FL = 11.85 STA = 3+95.00 TR=11.25 W 15" FL=6.50 N 12" FL=6.50 N 12" FL=6.50	PROP. GRATE INLE STA = 4+55.00 TR=11.00 W 18" FL=6.32 E 18" FL=6.32 PROP. DITCH CL ( STA = 4+72.60 FL = 11.70	
				2
2+00	3+00	4+00	5+00	

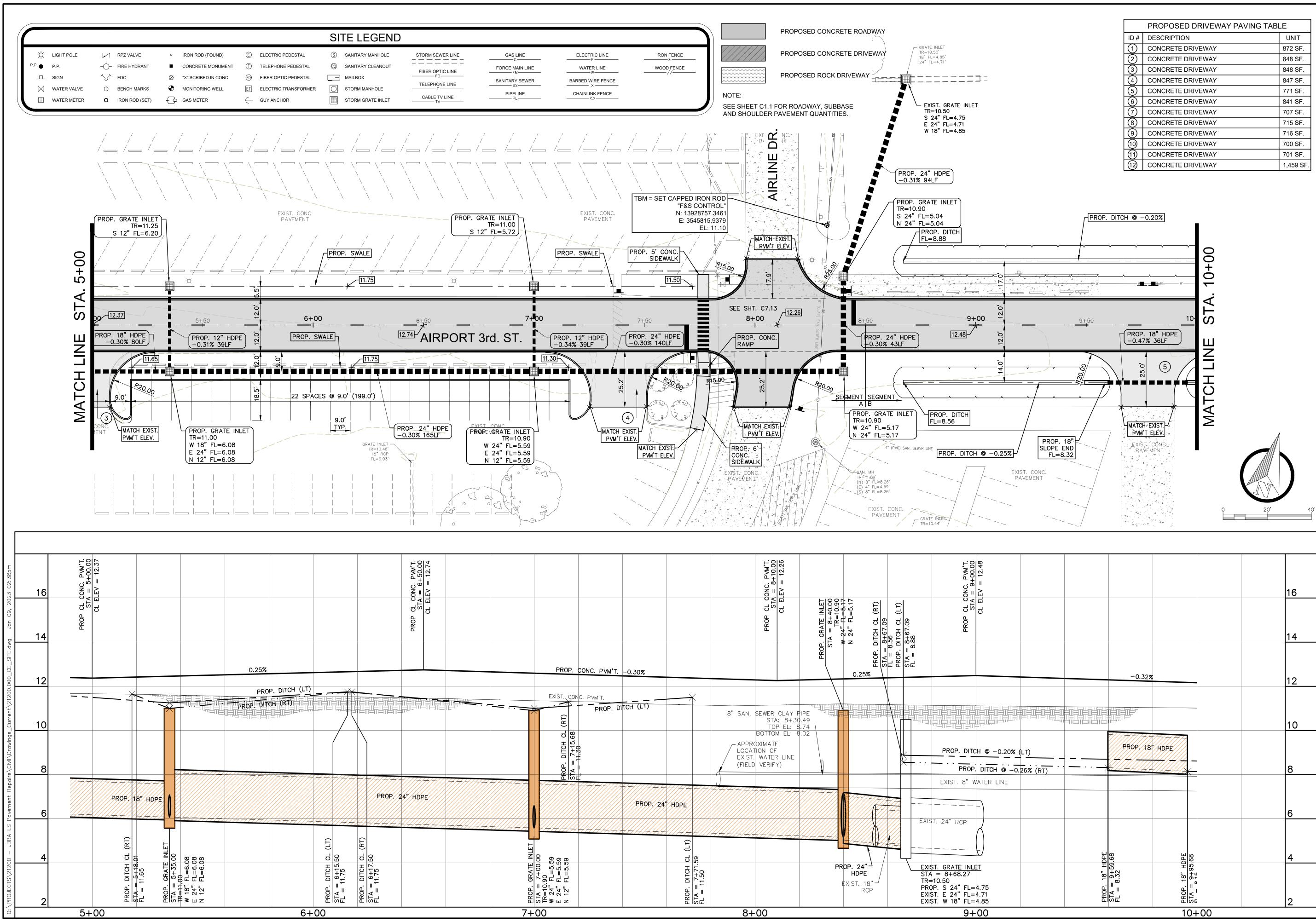
	PROPOSED DRIVEWAY PAVING TABLE			
ID #	DESCRIPTION	UNIT		
$\bigcirc$	CONCRETE DRIVEWAY	707 SF.		
(8)	CONCRETE DRIVEWAY	715 SF.		
0	CONCRETE DRIVEWAY	716 SF.		
<b>(</b>	CONCRETE DRIVEWAY	700 SF.		
(1)	CONCRETE DRIVEWAY	701 SF.		
(12)	CONCRETE DRIVEWAY	1,459 SF.		





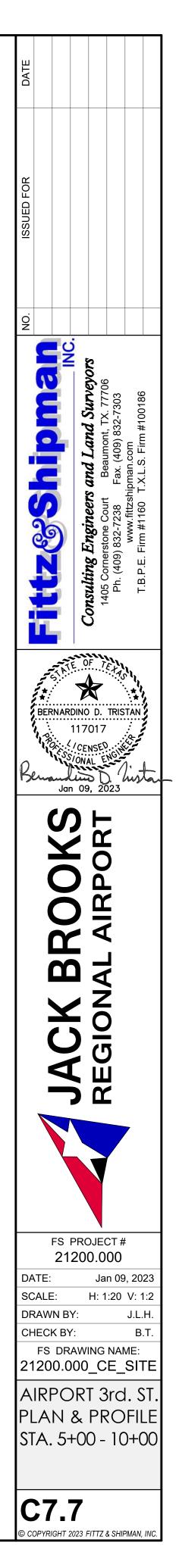


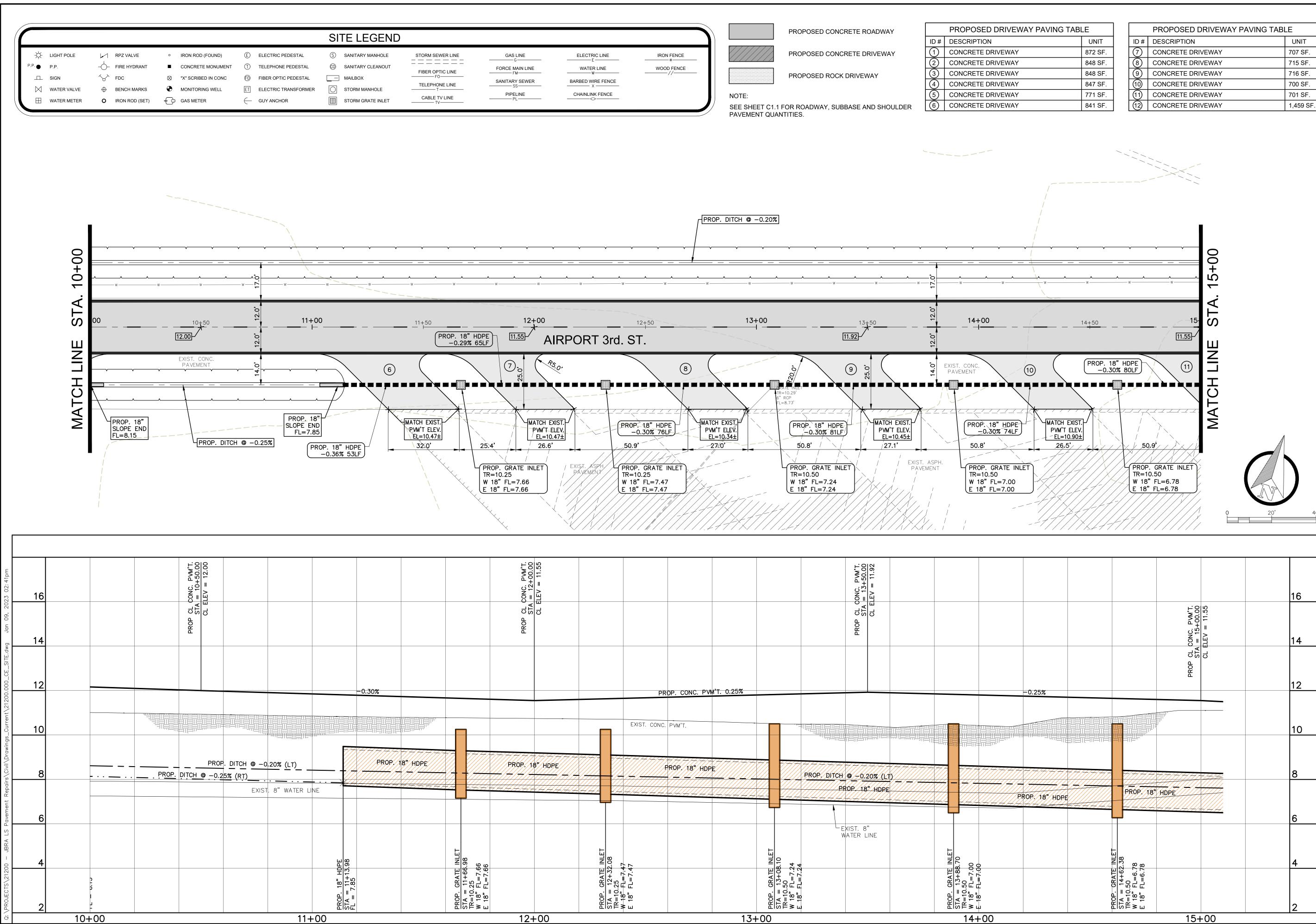




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	PROPOSED DRIVEWAY PAVING TABLE				
ID #	DESCRIPTION	UNIT			
	CONCRETE DRIVEWAY	872 SF.			
2	CONCRETE DRIVEWAY	848 SF.			
3	CONCRETE DRIVEWAY	848 SF.			
4	CONCRETE DRIVEWAY	847 SF.			
5	CONCRETE DRIVEWAY	771 SF.			
6	CONCRETE DRIVEWAY	841 SF.			
$\overline{)}$	CONCRETE DRIVEWAY	707 SF.			
8	CONCRETE DRIVEWAY	715 SF.			
9	CONCRETE DRIVEWAY	716 SF.			
10	CONCRETE DRIVEWAY	700 SF.			
(1)	CONCRETE DRIVEWAY	701 SF.			
(12)	CONCRETE DRIVEWAY	1,459 SF.			





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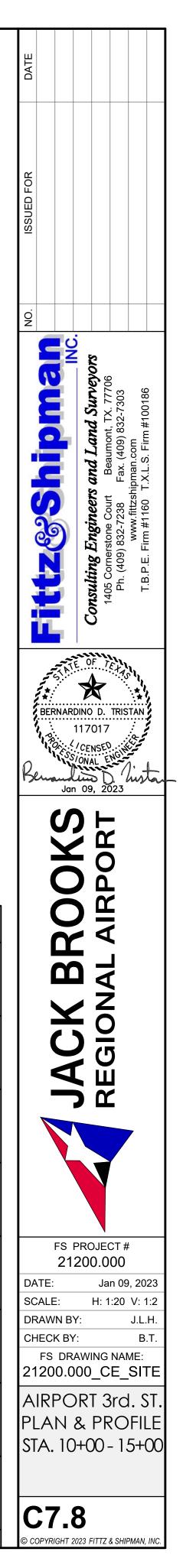
			172/////				,   / ,	/ /	
PROP CL CONC. PVM'T. STA = 12+00.00 CL ELEV = 11.55					PROP CL CONC. PVM'T. STA = 13+50.00	CL ELEV = 11.92			
		PROP. CONC. PVM'T. 0.	25%		<u>C</u>				-0.25%
	EXIST	T. CONC. PVM'T.							
					2ROP 18*				PROP. 18" HDPE
	PROP. GRATE INLET STA = 12+32.08 TR=10.25 W 18" FL=7.47 E 18" FL=7.47		P. <u>GRATE</u> INLET = 13+08.10	TR=10.50 W 18" FL=7.24 E 18" FL=7.24	EXIST. 8" WATER LI	NE	P. GRATE INLET = 13+88 70	TR=10.50 W 18" FL=7.00 E 18" FL=7.00	
12+00	E A TR		13+00	н у н Т у н П -			PRO STA	≝ ≝ ∰ ≝ ≥ щ 14+00	

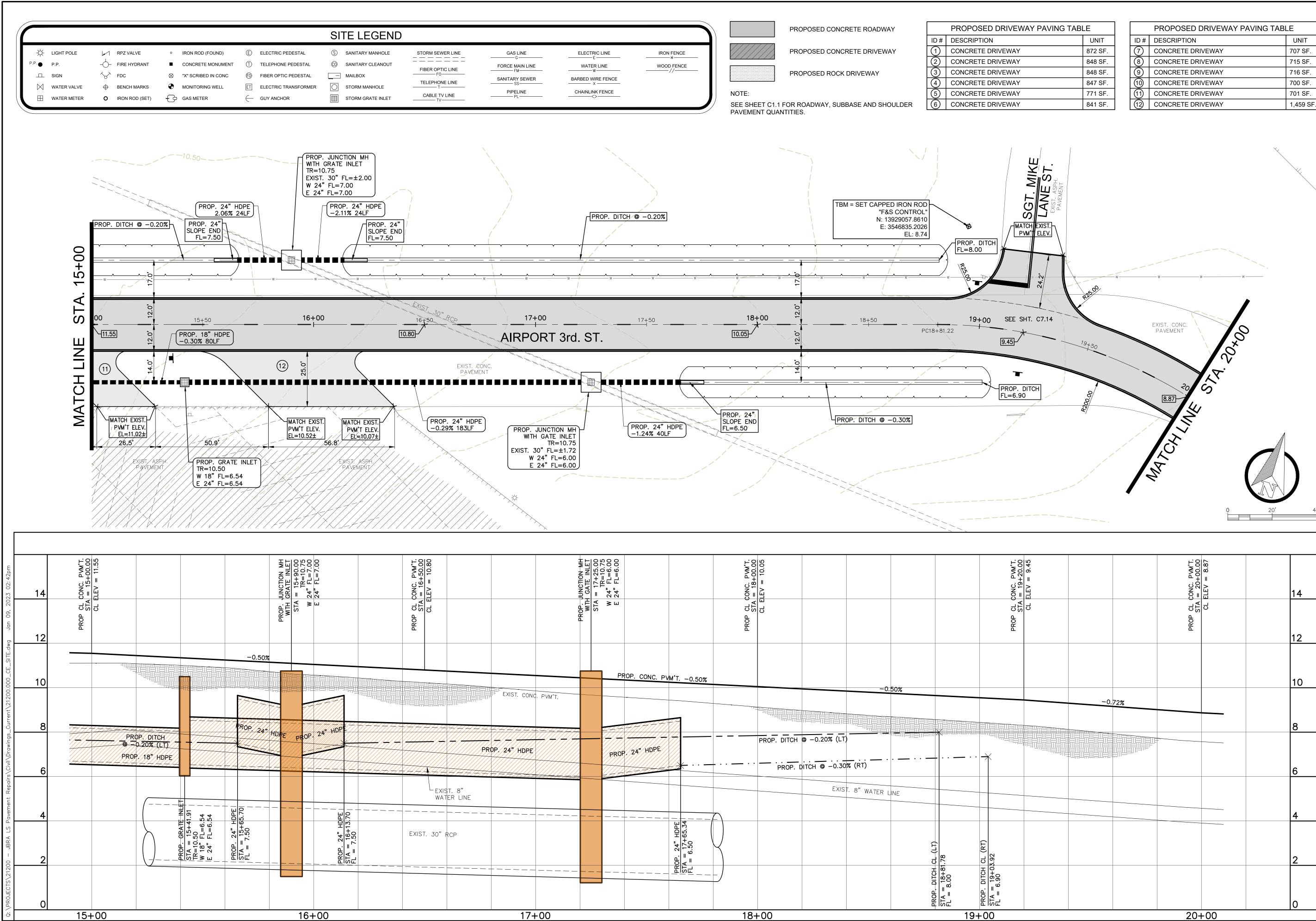
S LINE - G	ELECTRIC LINE	IRON FENCE
MAIN LINE	WATER LINE	WOOD FENCE
RY SEWER	BARBED WIRE FENCE	
PELINE PL	CHAINLINK FENCE	

PROPOSED ROCK DRIVEWAY	

PROPOSED DRIVEWAY PAVING TABLE				
ID #	DESCRIPTION	UNIT		
	CONCRETE DRIVEWAY	872 SF.		
2	CONCRETE DRIVEWAY	848 SF.		
3	CONCRETE DRIVEWAY	848 SF.		
4	CONCRETE DRIVEWAY	847 SF.		
5	CONCRETE DRIVEWAY	771 SF.		
6	CONCRETE DRIVEWAY	841 SF.		

	PROPOSED DRIVEWAY PAVING TAB	LE
ID #	DESCRIPTION	UNIT
$\bigcirc$	CONCRETE DRIVEWAY	707 SF.
8	CONCRETE DRIVEWAY	715 SF.
6	CONCRETE DRIVEWAY	716 SF.
10	CONCRETE DRIVEWAY	700 SF.
(1)	CONCRETE DRIVEWAY	701 SF.
(12)	CONCRETE DRIVEWAY	1,459 SF.





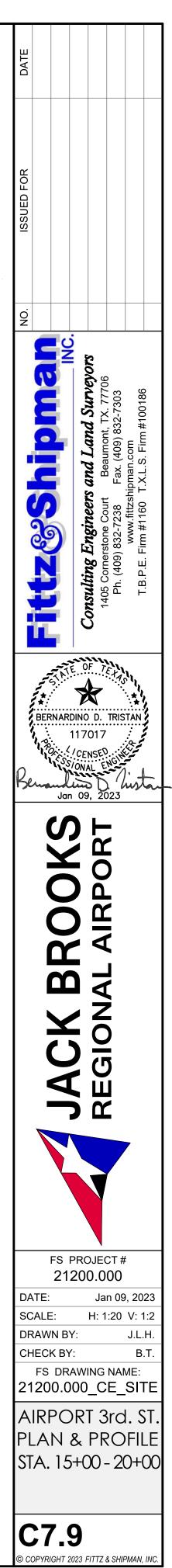
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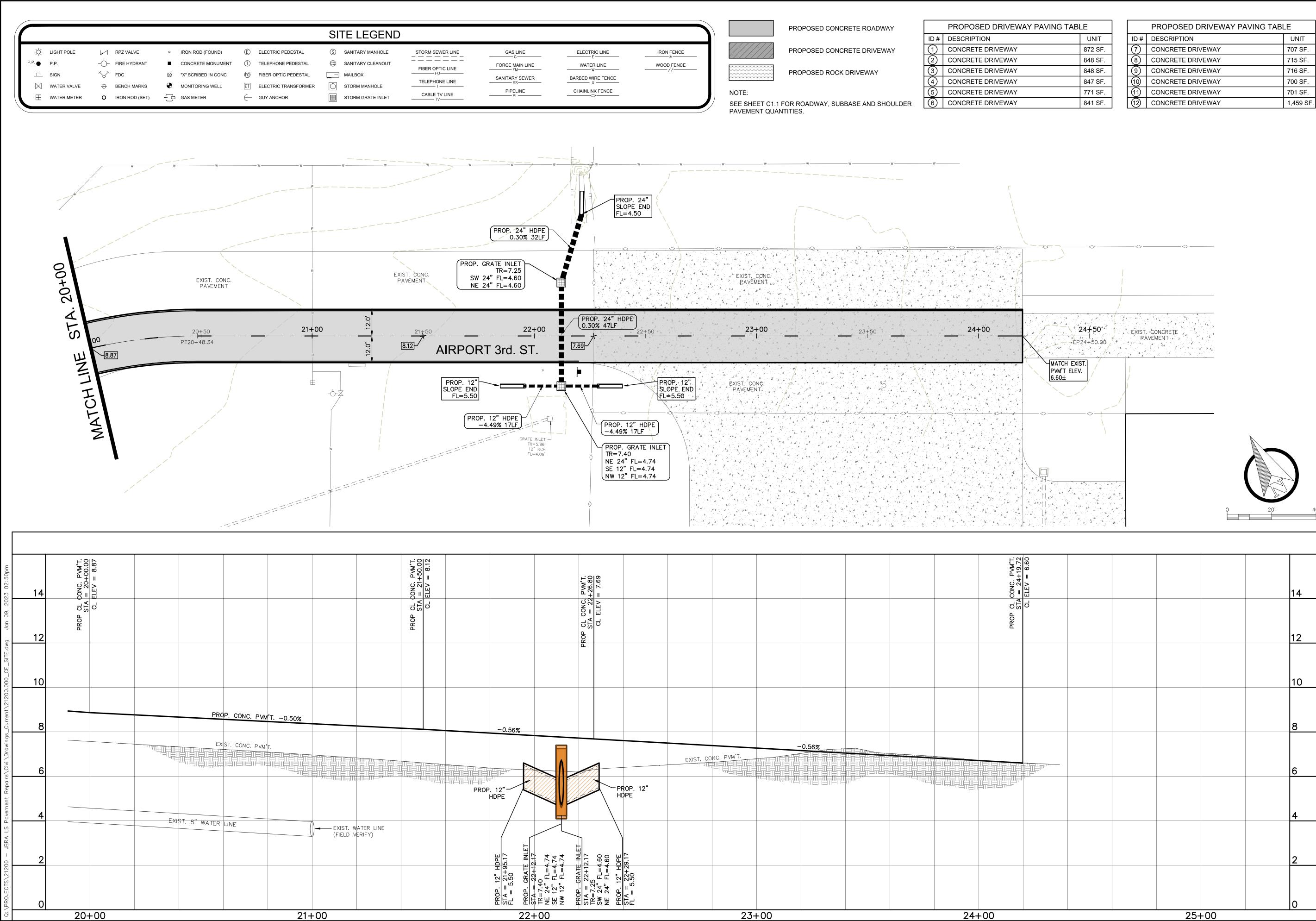
×¢			0 20' 40'
JUNCTION MH ITH GATE INLET TA = 17+25.00 W 24" FL=6.00 E 24" FL=6.00	CONC. PVM'T. A = 18+00.00 ELEV = 10.05	CONC. PVM'T. A = 19+20.00 . ELEV = 9.45	14 ELEV = 8.87
		PROP CL STA CL	ਤੋਂ ਤੋਂ ਤੋਂ ਹੋ ਰਿਸ਼ 12
PROP. CONC. PVM'T0.50%	-0.50		-0.72%
24" HDPE PROP. 24" HDPE	PROP. DITCH @ -0.20% (LT)		<u>-0.72%</u> 8
	PROP. DITCH @ -0.30% (RT)		<u>6</u>
			4
PROP. 24" HDPE FL = 6.50		PROP. DITCH CL (LT) STA = 18+81.78 FL = 8.00 FL = 8.00 STA = 19+03.92 FL = 6.90	2
17+00	18+00		20+00

GAS LINE		IRON FENCE
E MAIN LINE	WATER LINE	WOOD FENCE
ARY SEWER	BARBED WIRE FENCE	
PIPELINE 	CHAINLINK FENCE	

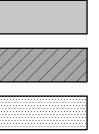
PROPOSED ROCK DRIVEWA	Y

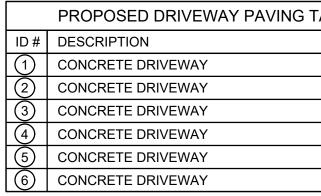
ABLE			PROPOSED DRIVEWAY PAVING TABLE						
	UNIT		ID #	DESCRIPTION	UNIT				
	872 SF.		$\bigcirc$	CONCRETE DRIVEWAY	707 SF.				
	848 SF.		8	CONCRETE DRIVEWAY	715 SF.				
	848 SF.		9	CONCRETE DRIVEWAY	716 SF.				
	847 SF.		10	CONCRETE DRIVEWAY	700 SF.				
	771 SF.		(1)	CONCRETE DRIVEWAY	701 SF.				
	841 SF.		(12)	CONCRETE DRIVEWAY	1,459 SF.				





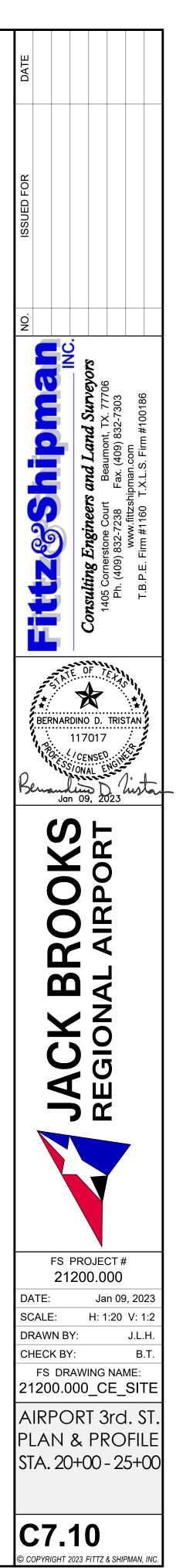
IFB 23-009/JW.LANDSIDE ROAD PAVEMENT REPAIRS-JBRA PAGE 123 OF 190

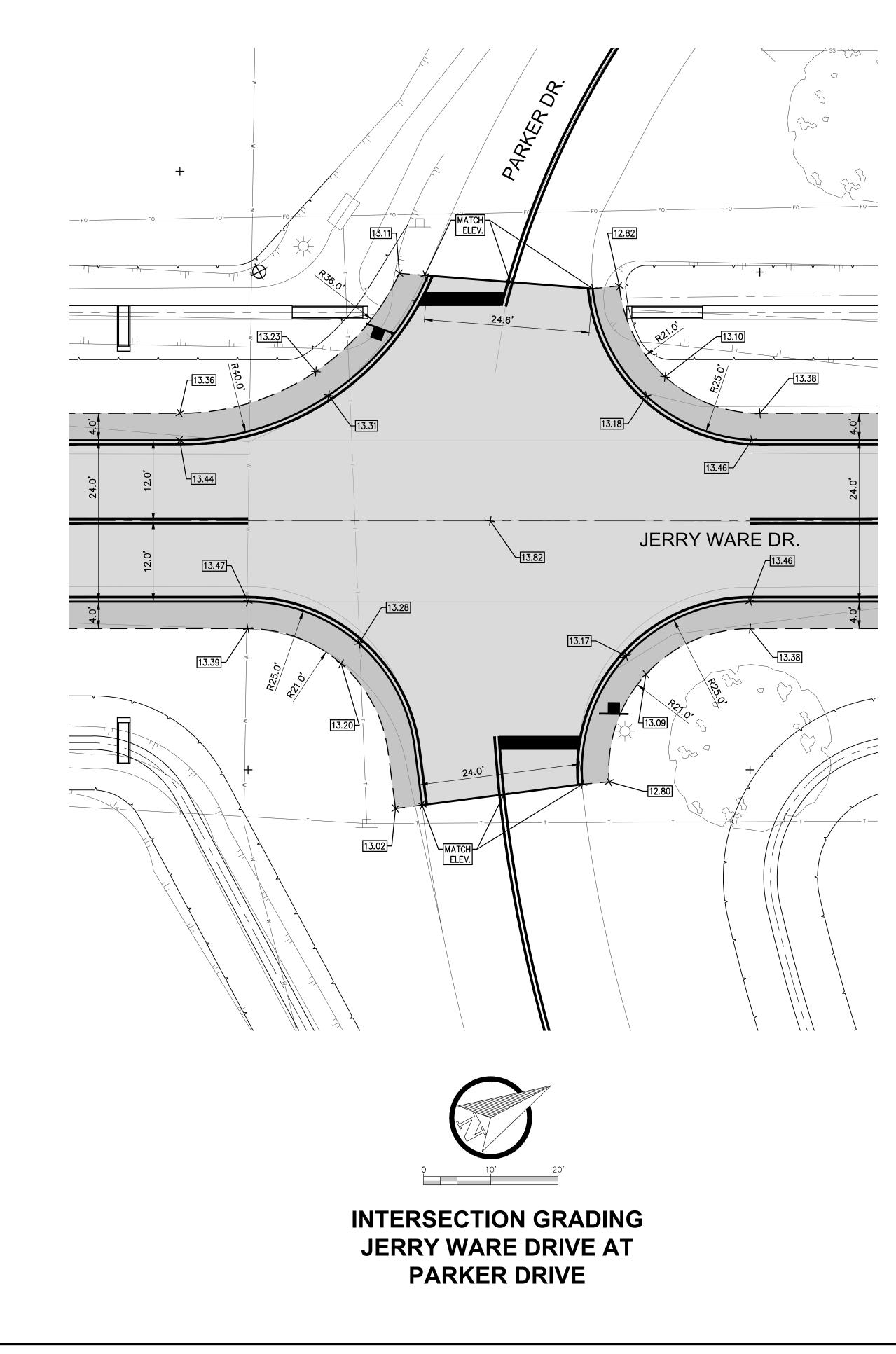


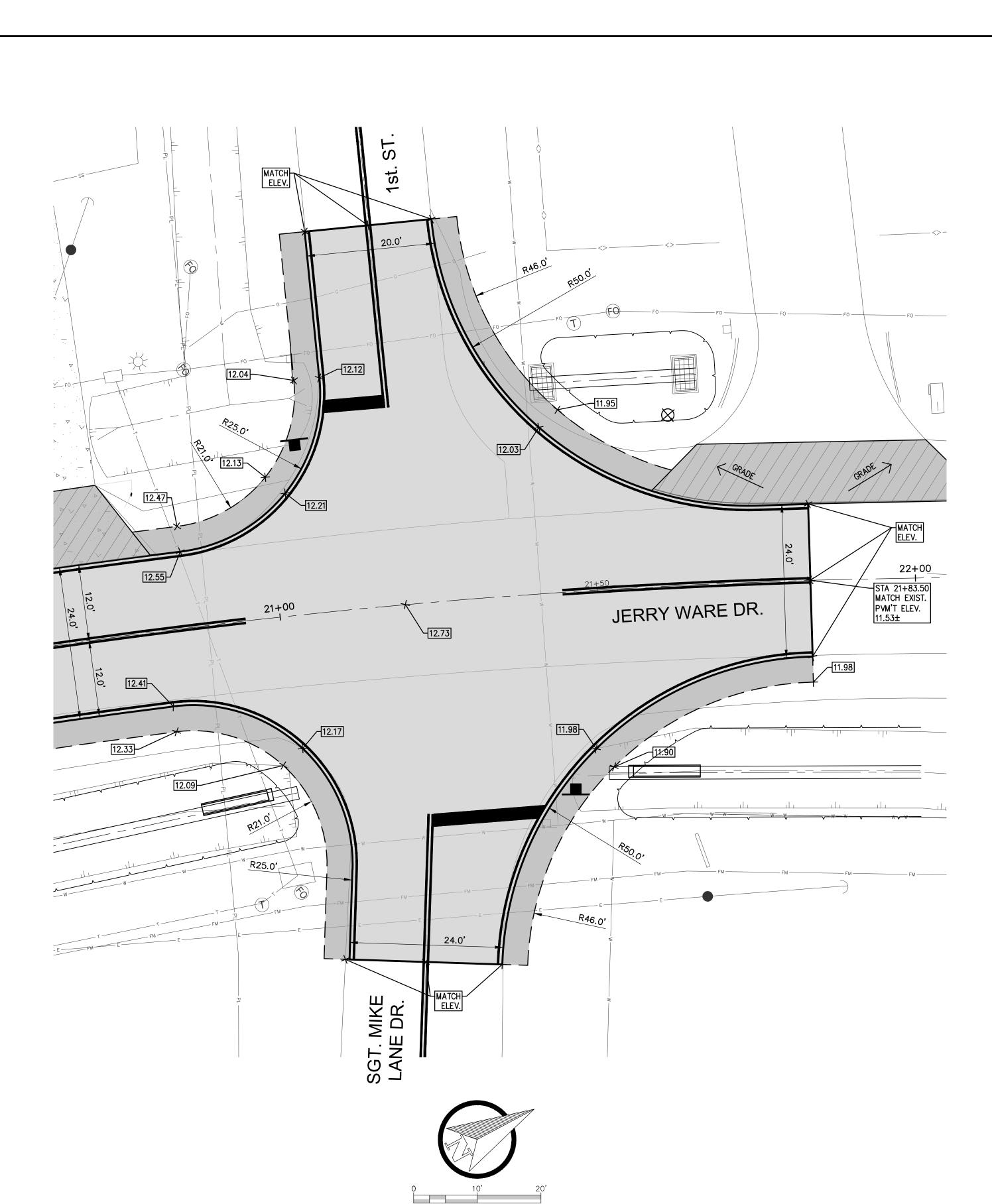


BLE		PROPOSED DRIVEWAY PAVING TABLE					
UNIT	ID #	DESCRIPTION		UNIT			
872 SF.		CONCRETE DRIVEWAY	7	707 SF.			
848 SF.	8	CONCRETE DRIVEWAY	7	715 SF.			
848 SF.	9	CONCRETE DRIVEWAY	7	716 SF.			
847 SF.	10	CONCRETE DRIVEWAY	7	700 SF.			
771 SF.		CONCRETE DRIVEWAY	7	701 SF.			
841 SF.	12	CONCRETE DRIVEWAY	1	I,459 SF.			

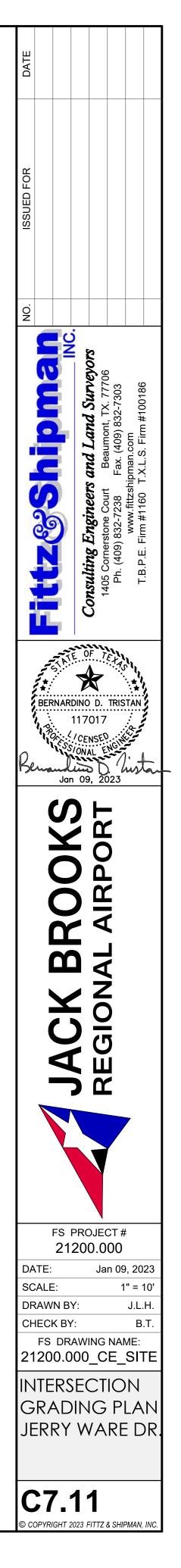
		14
		12
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		8
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		6
		4
		2
		۷
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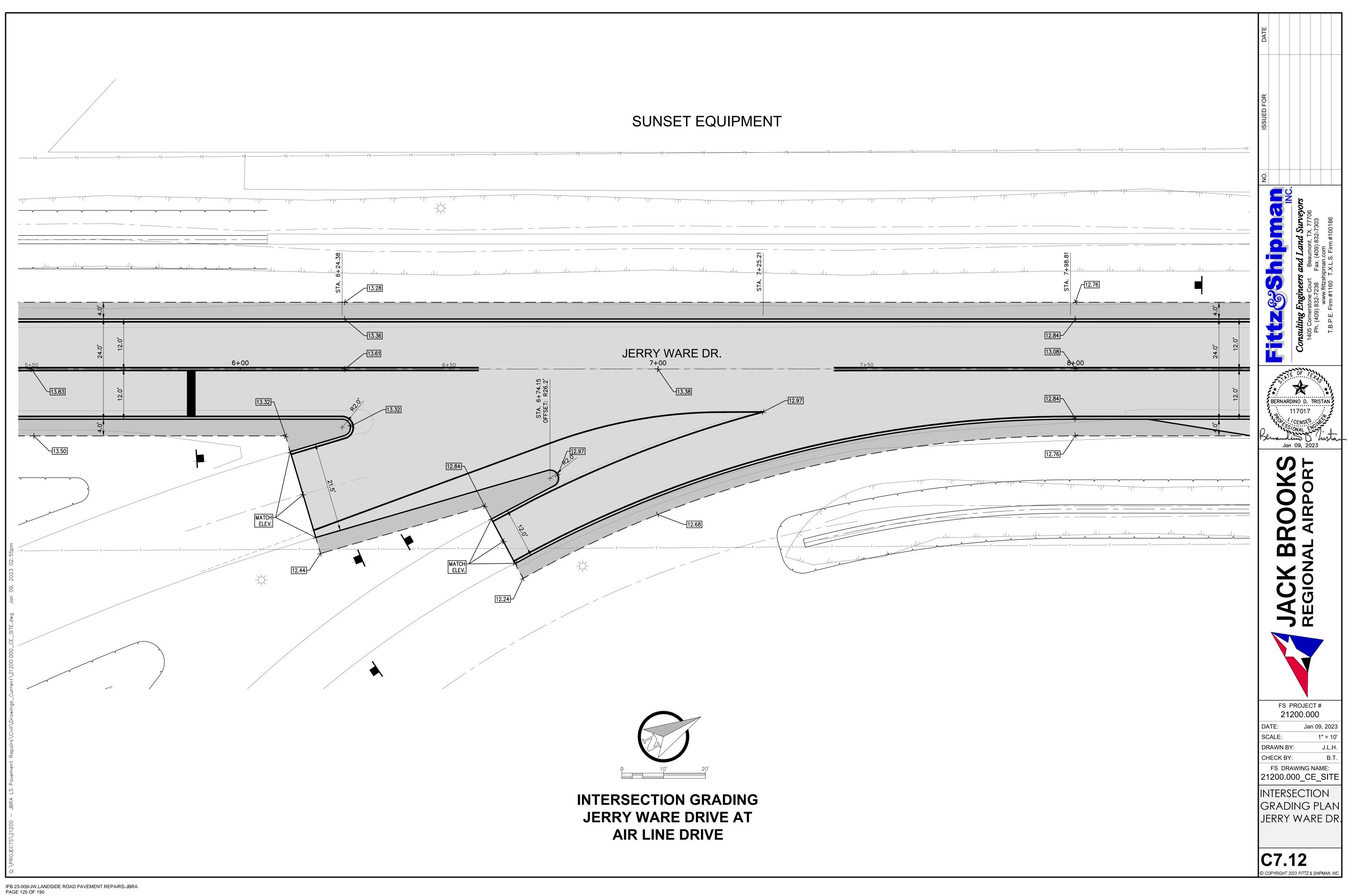


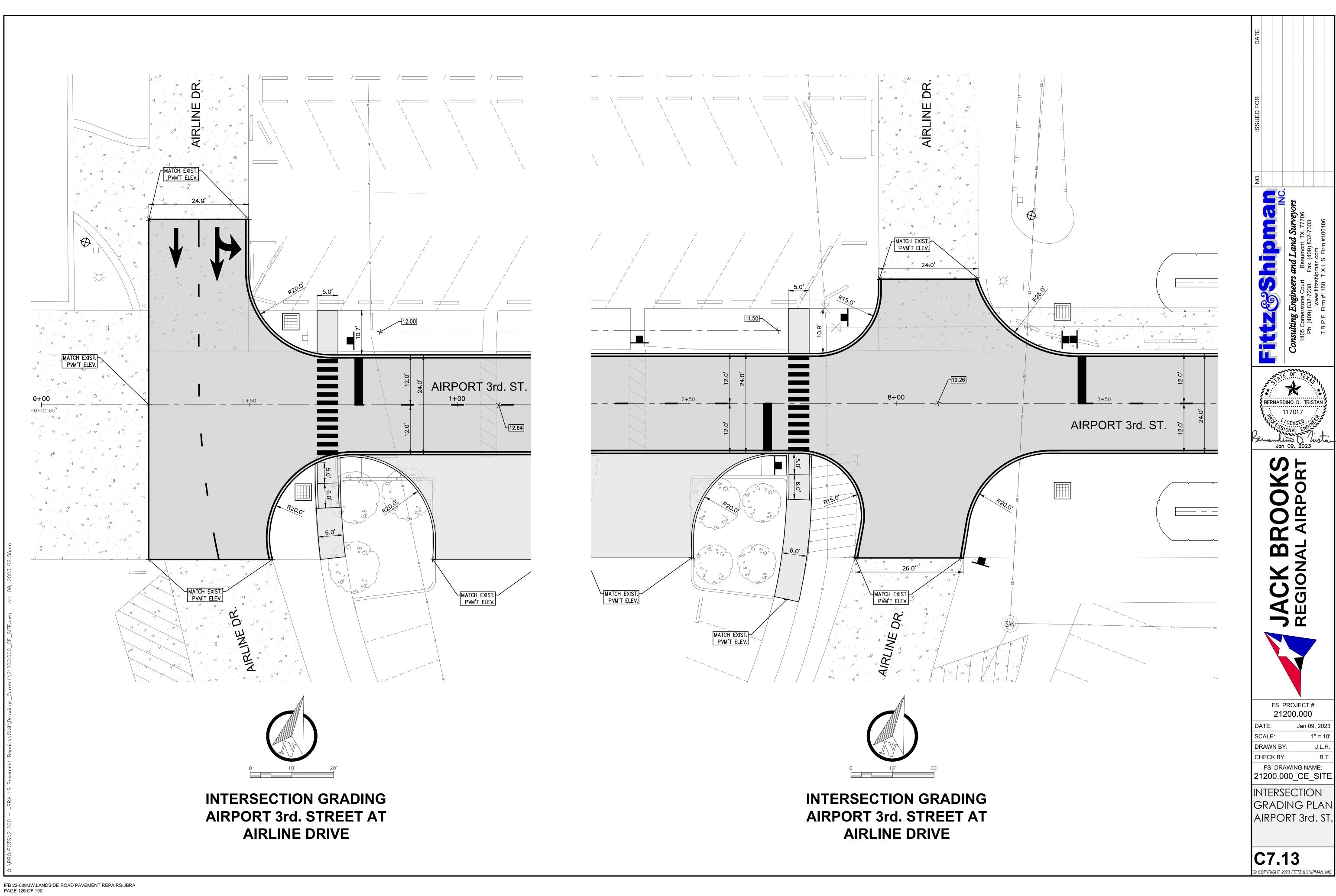


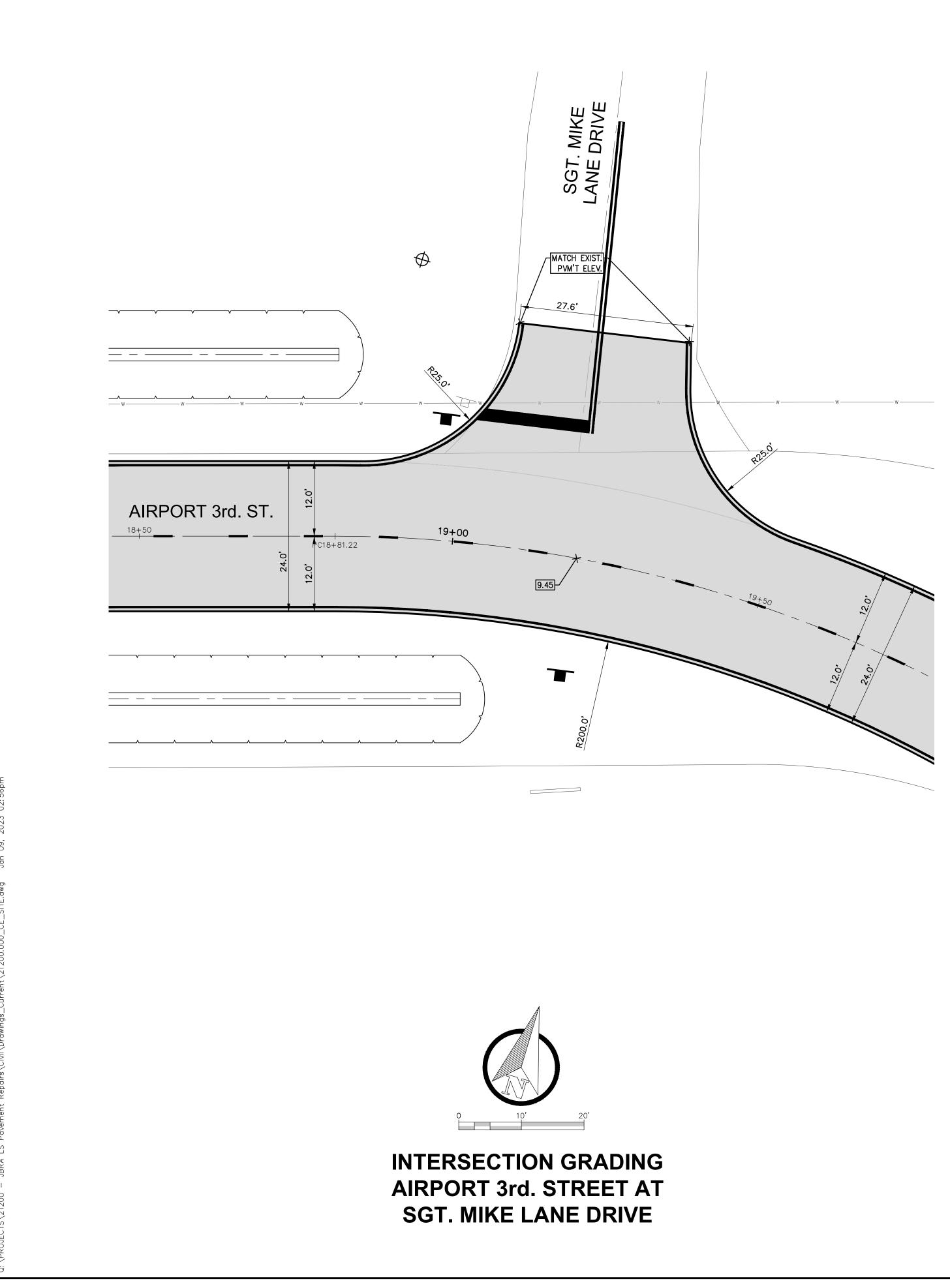


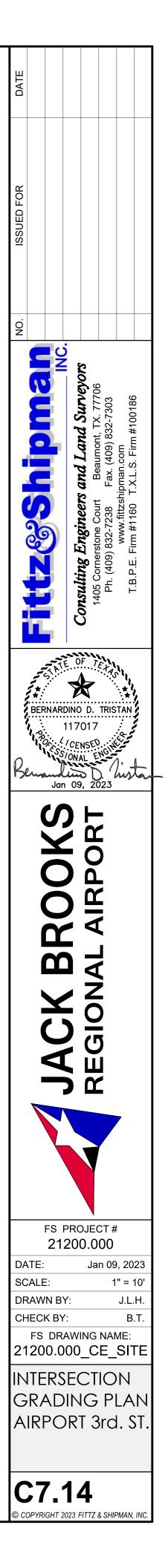
INTERSECTION GRADING JERRY WARE DRIVE AT SGT. MIKE LANE / 1st. STREET

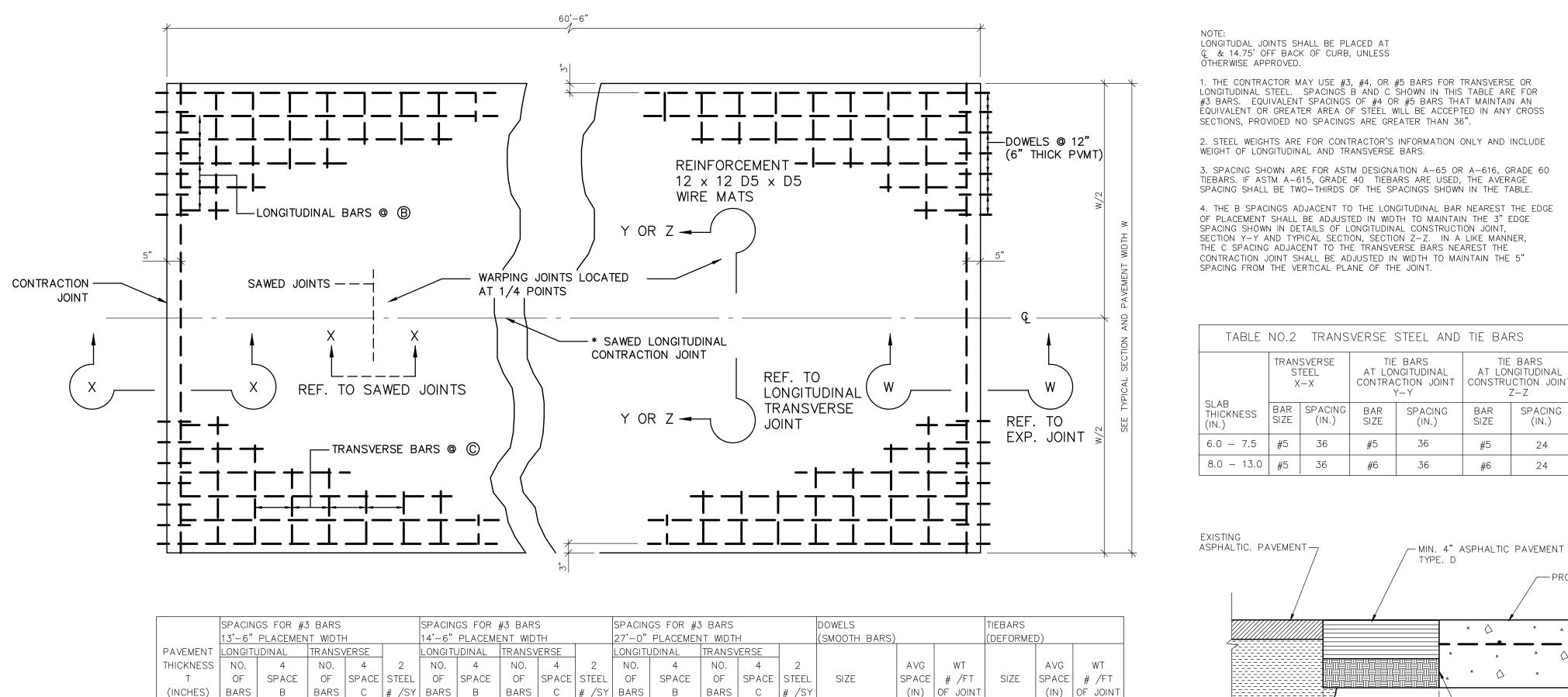






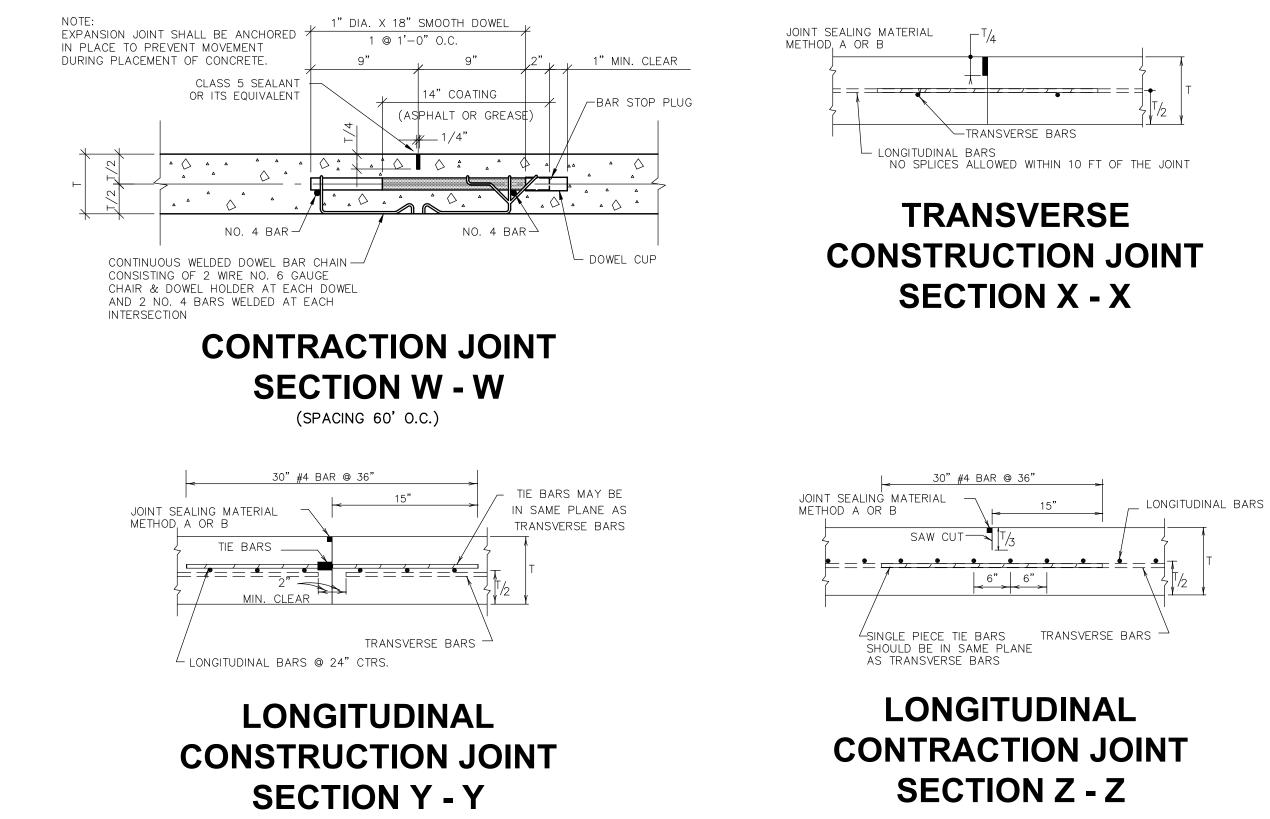


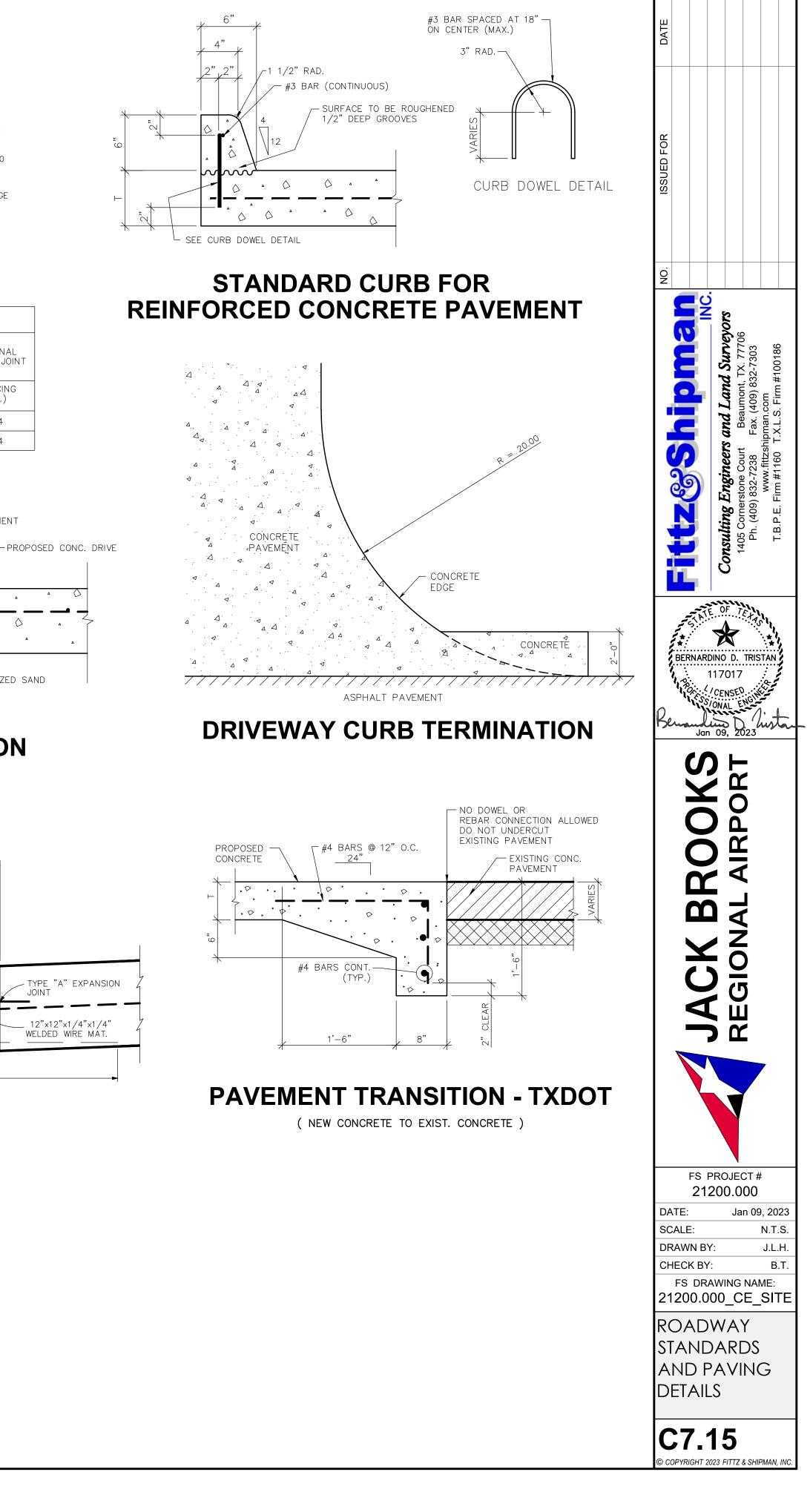




	SPACINO	GS FOR #	3 BARS	S SPACINGS FOR #3 BARS			SPACINGS FOR #3 BARS				DOWELS			TIEBARS							
	13'-6"	PLACEMEN	IT WIDTH	4		14'-6"	PLACEME	ENT WID	TH		27'-0"	PLACEMEN	IT WIDT	Н		(SMOOTH BARS)			(DEFORME	D)	
PAVEMENT	LONGITU	JDINAL	TRANS	/ERSE		LONGIT	JDINAL	TRANSV	'ERSE		LONGITU	JDINAL	TRANS	/ERSE							
THICKNESS	NO.	4	NO.	4	2	NO.	4	NO.	4	2	NO.	4	NO.	4	2		AVG	WT		AVG	WT
Т	OF	SPACE	OF	SPACE	STEEL	OF	SPACE	OF	SPACE	STEEL	OF	SPACE	OF	SPACE	STEEL	SIZE	SPACE	# /FT	SIZE	SPACE	# /FT
(INCHES)	BARS	В	BARS	С	# /SY	BARS	В	BARS	С	# /SY	BARS	В	BARS	С	# /SY		(IN)	OF JOINT		(IN)	OF JOIN
		(IN)		(IN)			(IN)		(IN)			(IN)		(IN)							
6	8	22-1/2	31	24	3.66	9	21	31	24	3.80	15	22-5/8	31	24	3.67	1" X 18"	12	4.01	#4 X 30"	36	0.56
7	8	22-1/2	31	24	3.66	9	21	31	24	3.80	15	22-5/8	31	24	3.67	1" X 18"	12	4.01	#4 X 30"	36	0.56
8	8	22-1/2	31	24	3.66	9	21	31	24	3.80	15	22-5/8	31	24	3.67	1" X 18"	12	4.01	#4 X 30"	36	0.56
9	10	17-1/2	31	24	4.16	10	18-3/4	31	24	4.03	17	19-3/4	31	24	3.92	1-1/8" X 20"	12	5.63	#4 X 30"	36	0.56
10	10	17-1/2	37	20	4.48	11	16-3/4	37	20	4.59	18	18-5/8	37	20	4.38	1-1/4" X 22"	12	7.65	#4 X 30"	36	0.56
11	11	15-3/4	37	20	4.72	11	16-3/4	37	20	4.59	20	16-3/4	37	20	4.63	1-1/4" X 22"	12	7.65	#4 X 30"	36	0.56
12	12	14-1/4	41	18	5.19	12	15-1/4	41	18	5.03	22	15-1/8	41	18	5.1	1-1/4" X 22"	12	7.65	#4 X 30"	30	0.67
13	12	14-1/4	49	15	5.92	13	14	49	15	5.69	23	14-3/8	49	15	5.68	1-1/4" X 22"	12	7.65	#4 X 30"	30	0.67
14	13	13-1/4	49	15	5.87	14	13	49	15	5.92	25	13-1/4	49	15	5.92	1-1/4" X 22"	12	7.65	#4 X 30"	24	0.84

# **TWO LANE PAVEMENT PLAN**





tie bars

AT LONGITUDINAL

CONSTRUCTION JOINT

Z-Z

SPACING

(IN.)

24

24

Δ Δ

Δ Δ

CEMENT STABILIZED SAND

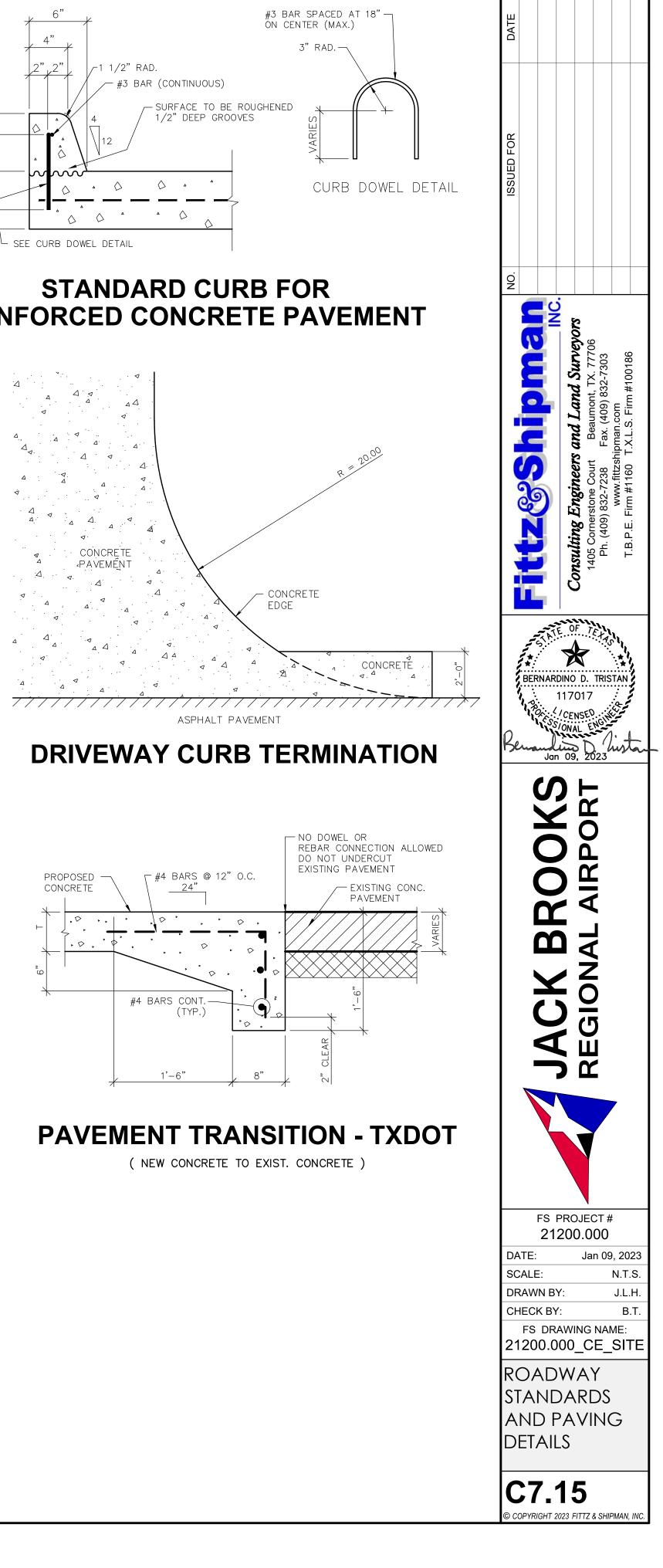
BAR SIZE

#5

#6

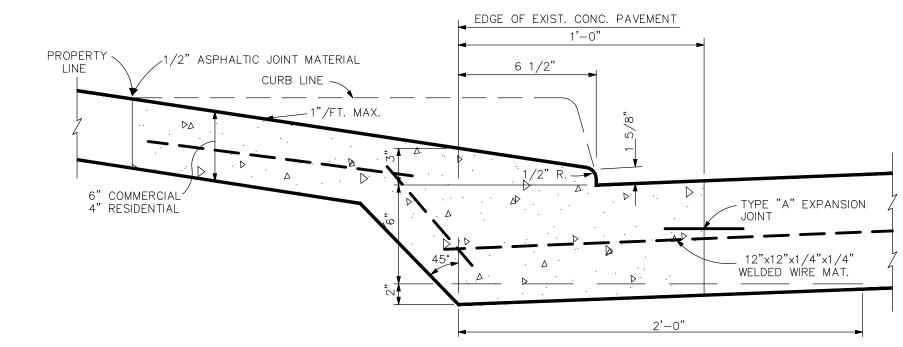
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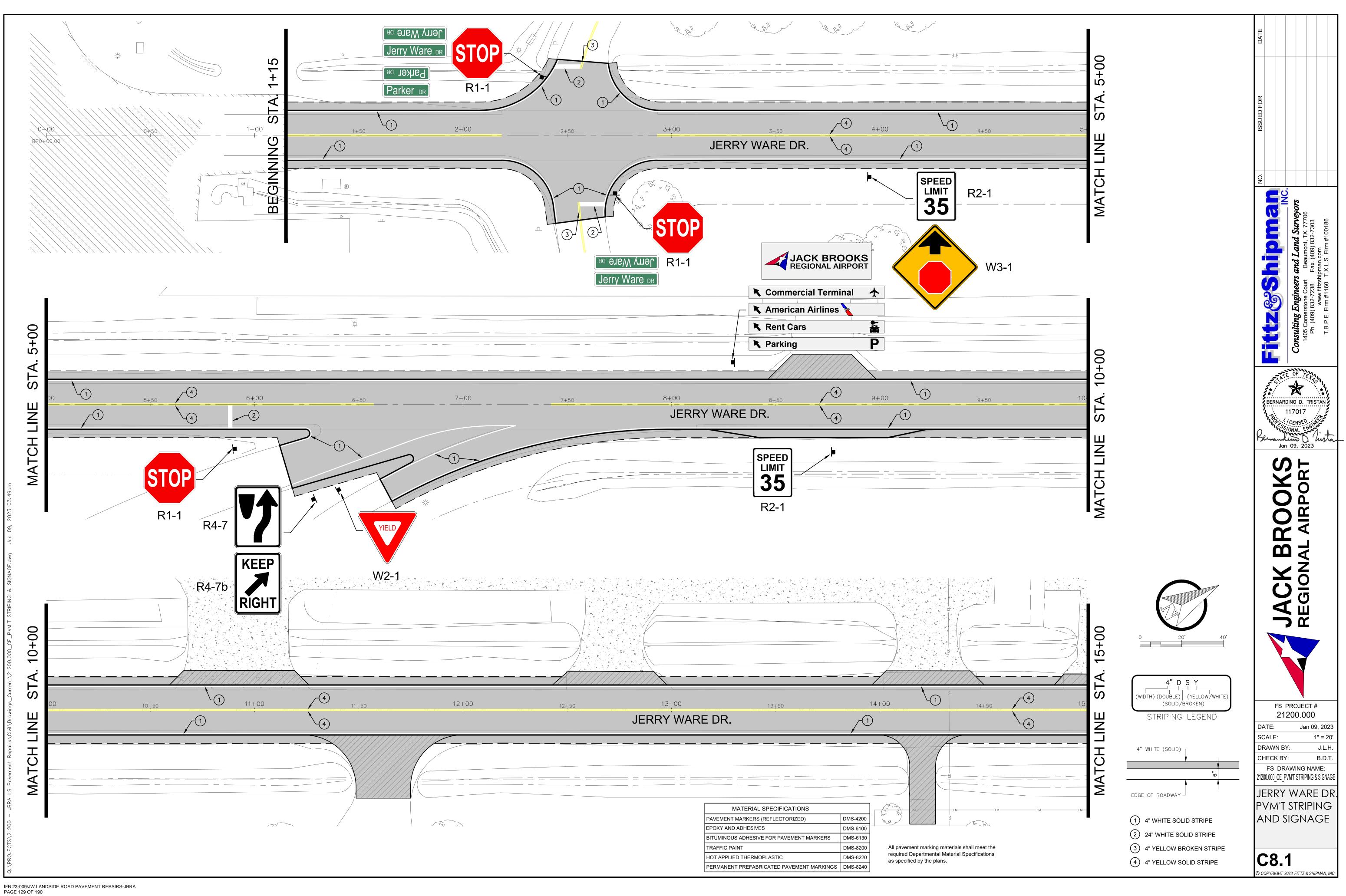
12"

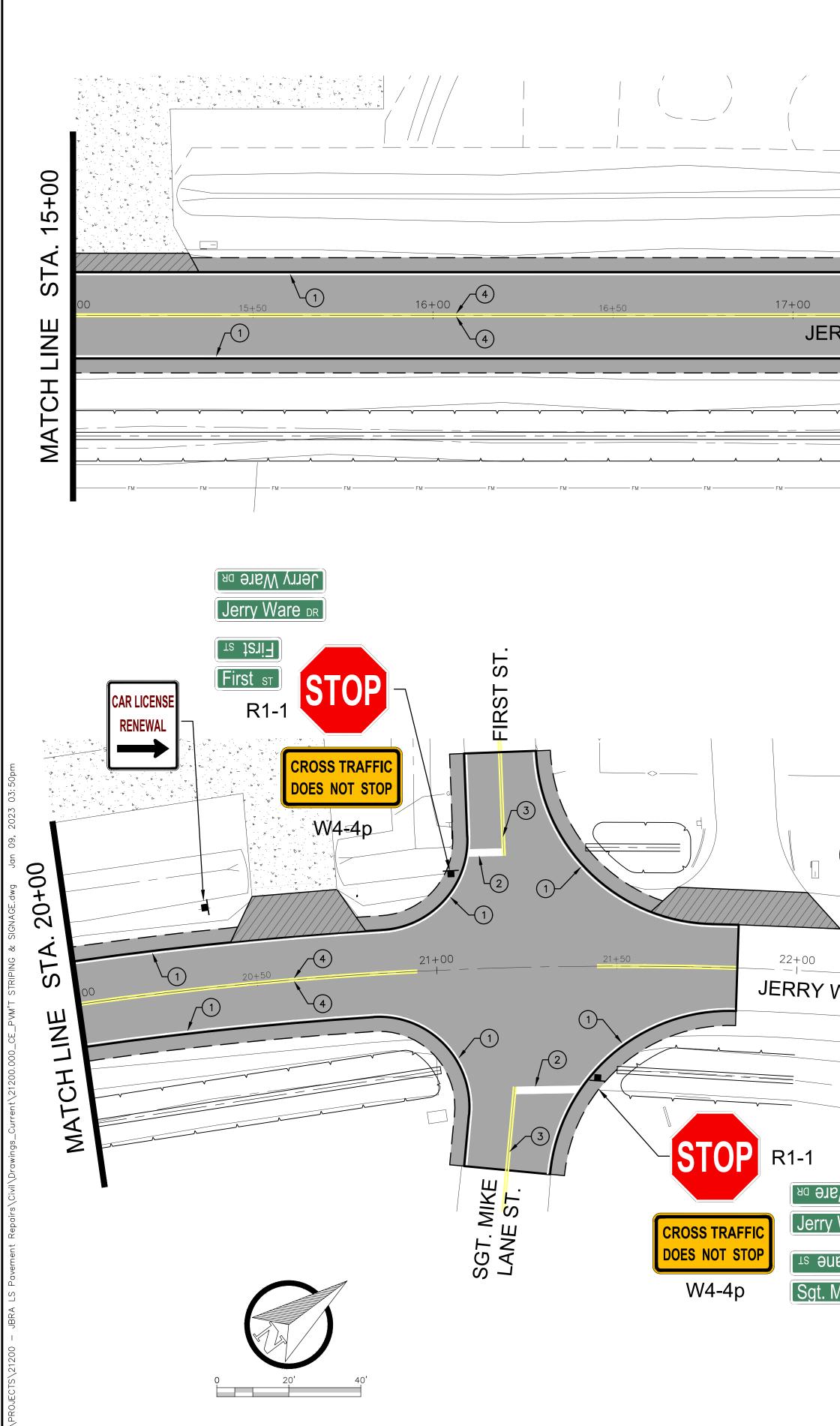
**PAVEMENT TRANSITION** 

(NEW CONCRETE TO EXIST. ASPHALT)

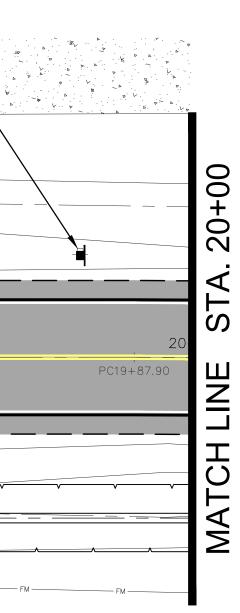


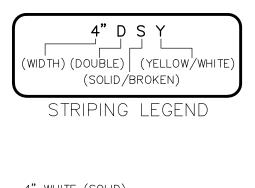
EXISTING LIMESTONE BASE -

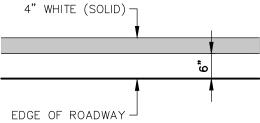




					R2-1
17+50 RRY WARE DR.	18+00	18+50 ÷		19+00	(4) 19+50 (4)
		· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·		v
		FM FM	K	K FM FM	K
	40'				
ARE DR.	234				
Aike Taue st Mike Taue st W Yng be					





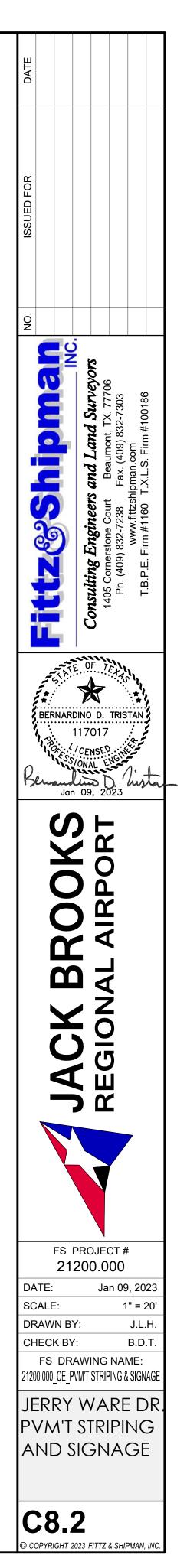


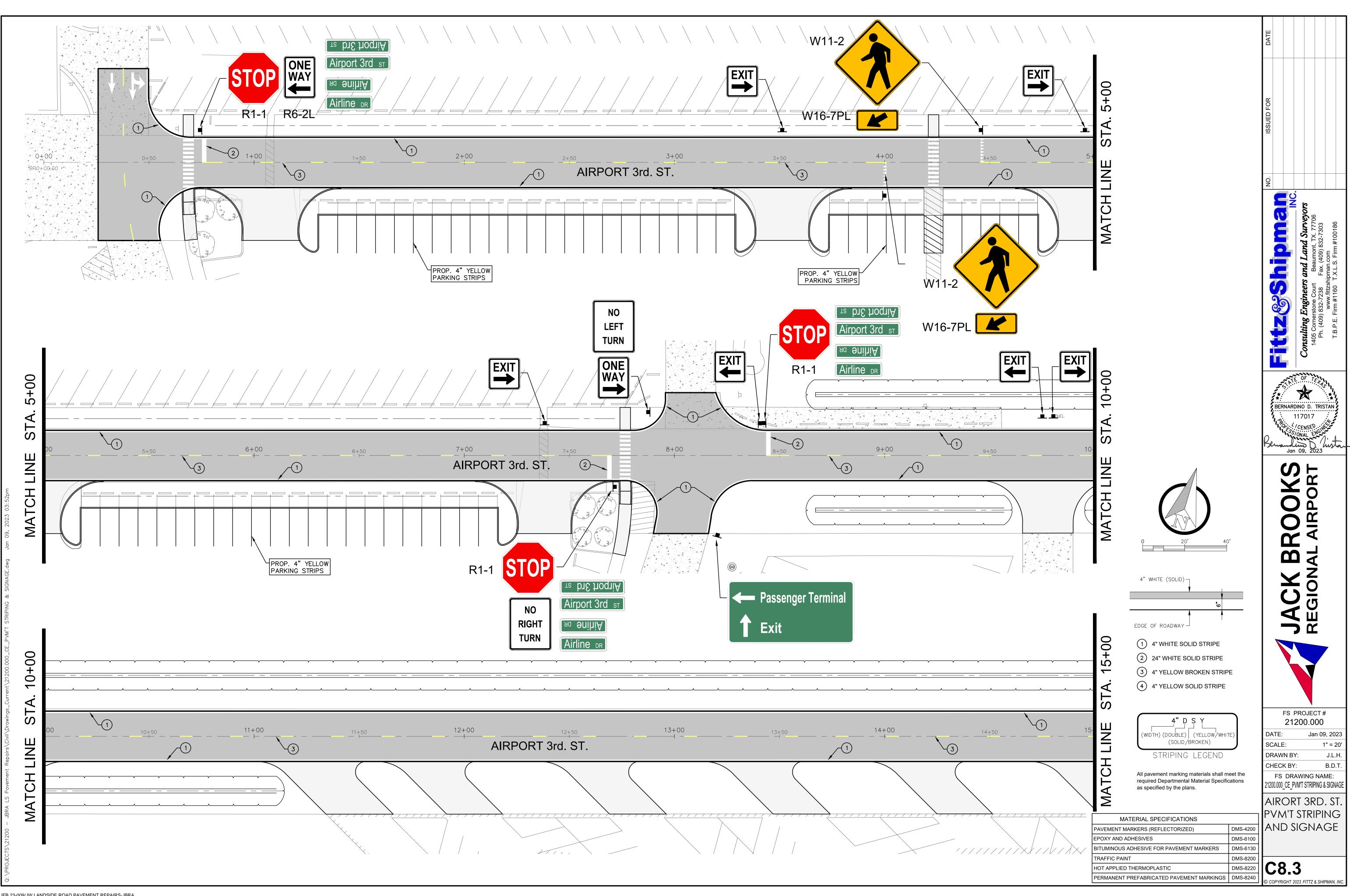
1 4" WHITE SOLID STRIPE

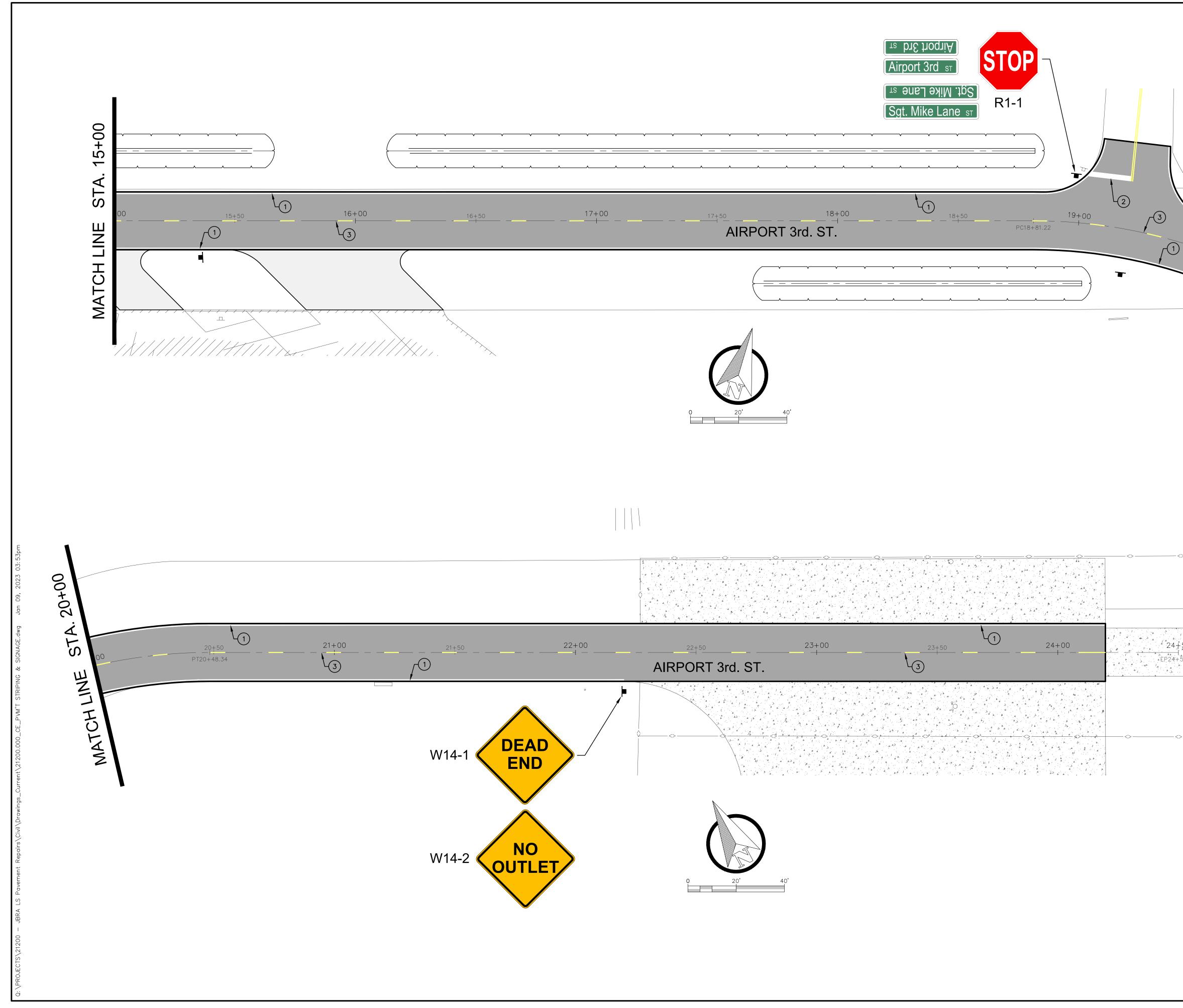
- 2 24" WHITE SOLID STRIPE
- 3 4" YELLOW BROKEN STRIPE
- 4 4" YELLOW SOLID STRIPE

MATERIAL SPECIFICATIONS	
PAVEMENT MARKERS (REFLECTORIZED)	DMS-4200
EPOXY AND ADHESIVES	DMS-6100
BITUMINOUS ADHESIVE FOR PAVEMENT MARKERS	DMS-6130
TRAFFIC PAINT	DMS-8200
HOT APPLIED THERMOPLASTIC	DMS-8220
PERMANENT PREFABRICATED PAVEMENT MARKINGS	DMS-8240

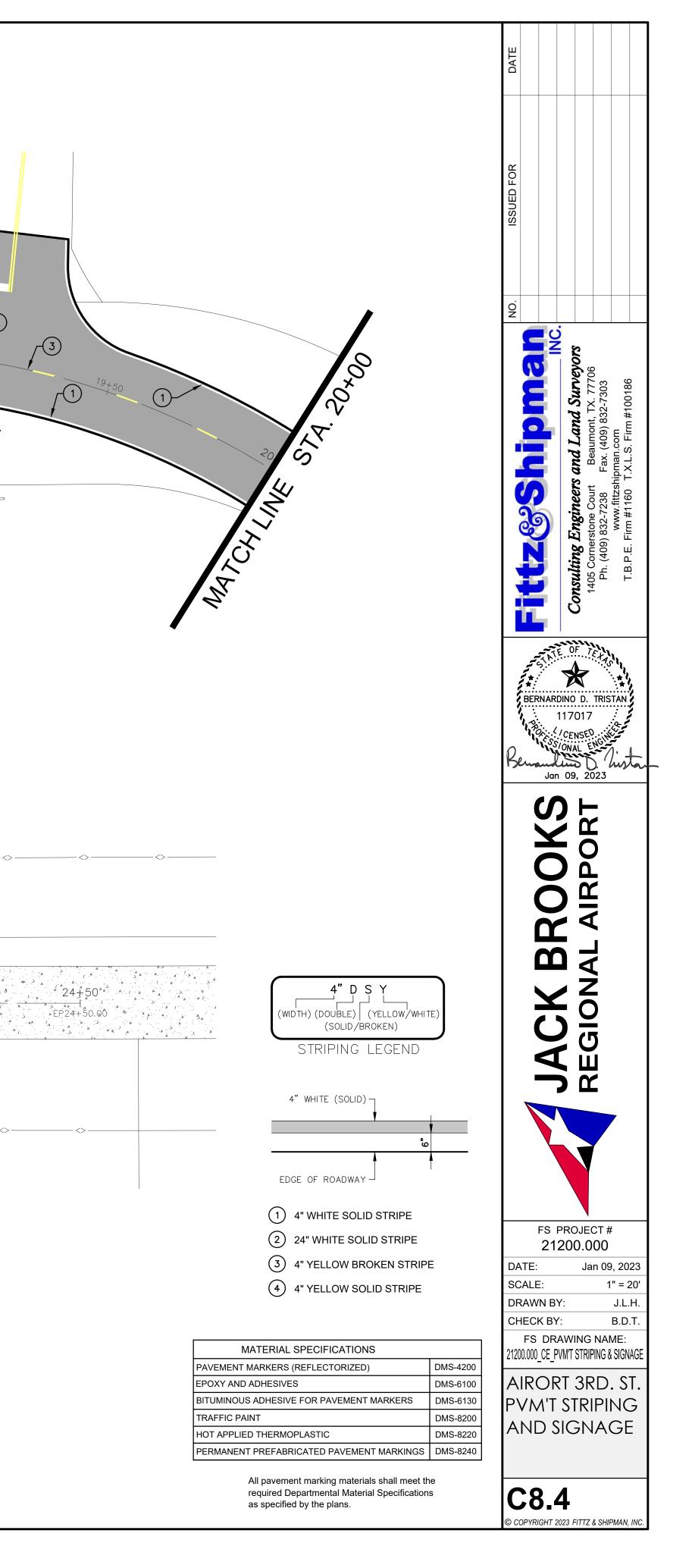
All pavement marking materials shall meet the required Departmental Material Specifications as specified by the plans.

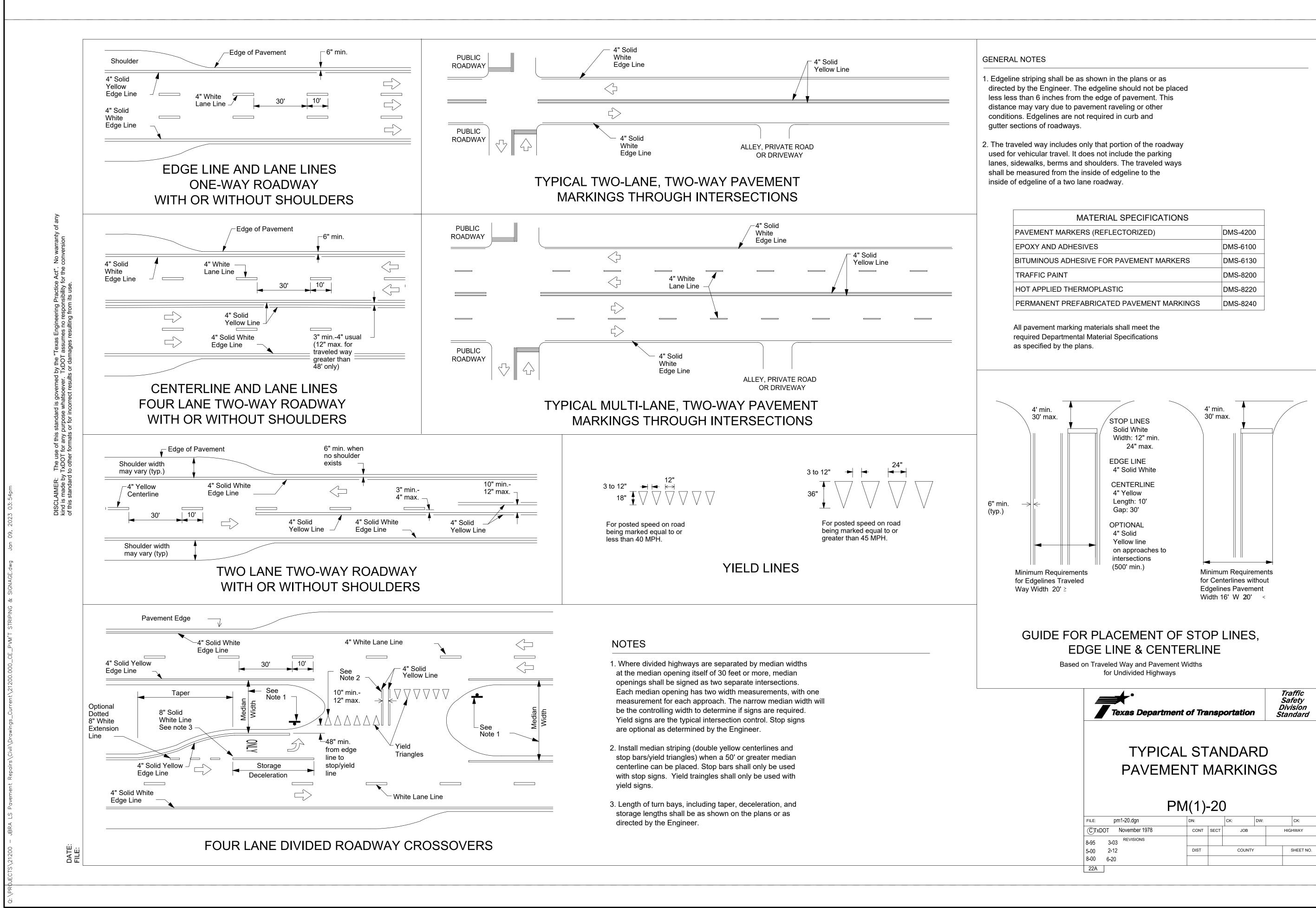






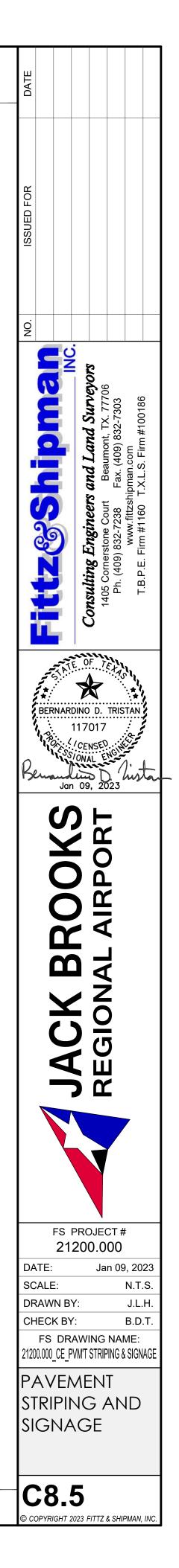
# IFB 23-009/JW.LANDSIDE ROAD PAVEMENT REPAIRS-JBRA PAGE 132 OF 190

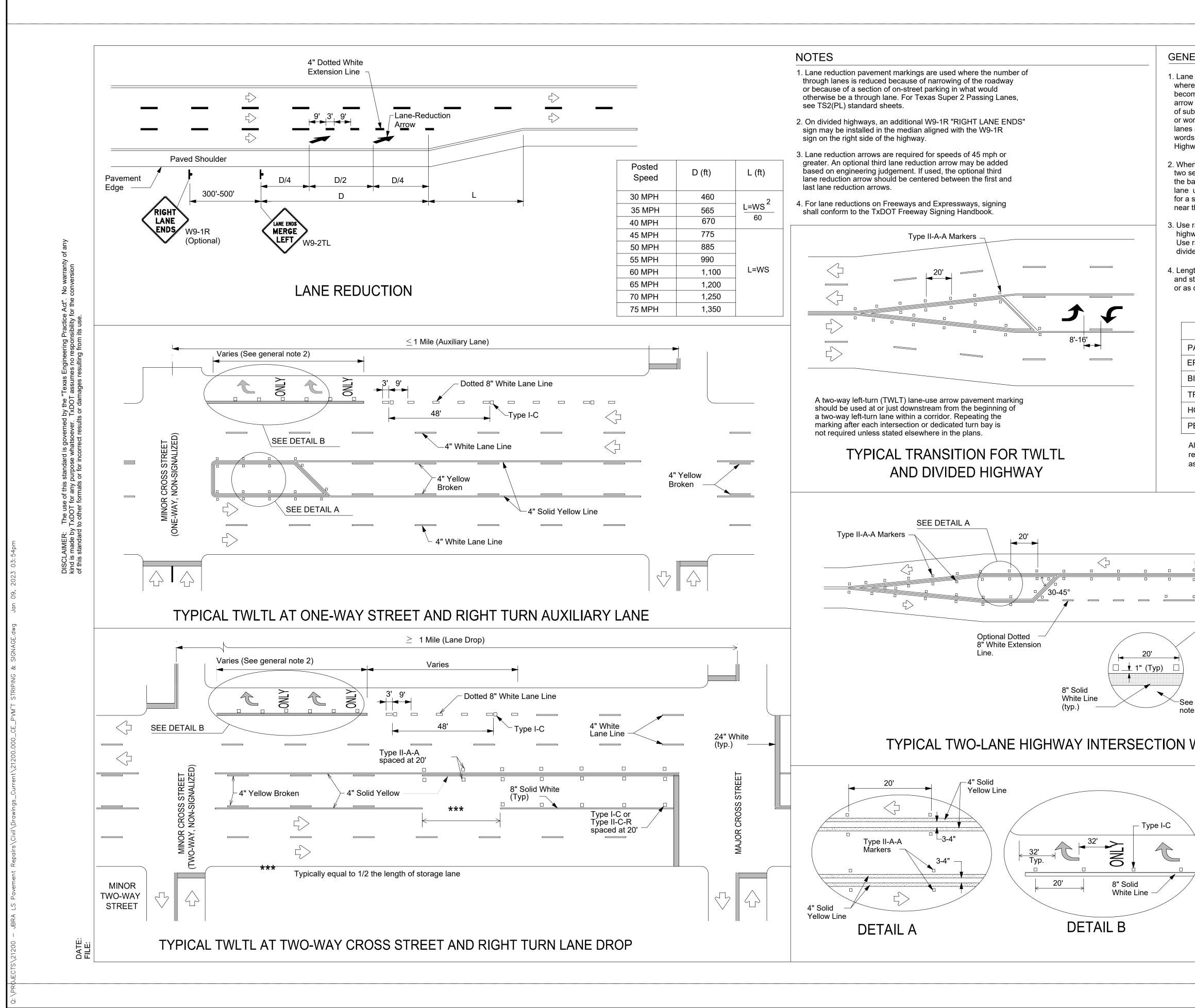




IFB 23-009/JW.LANDSIDE ROAD PAVEMENT REPAIRS-JBRA PAGE 133 OF 190

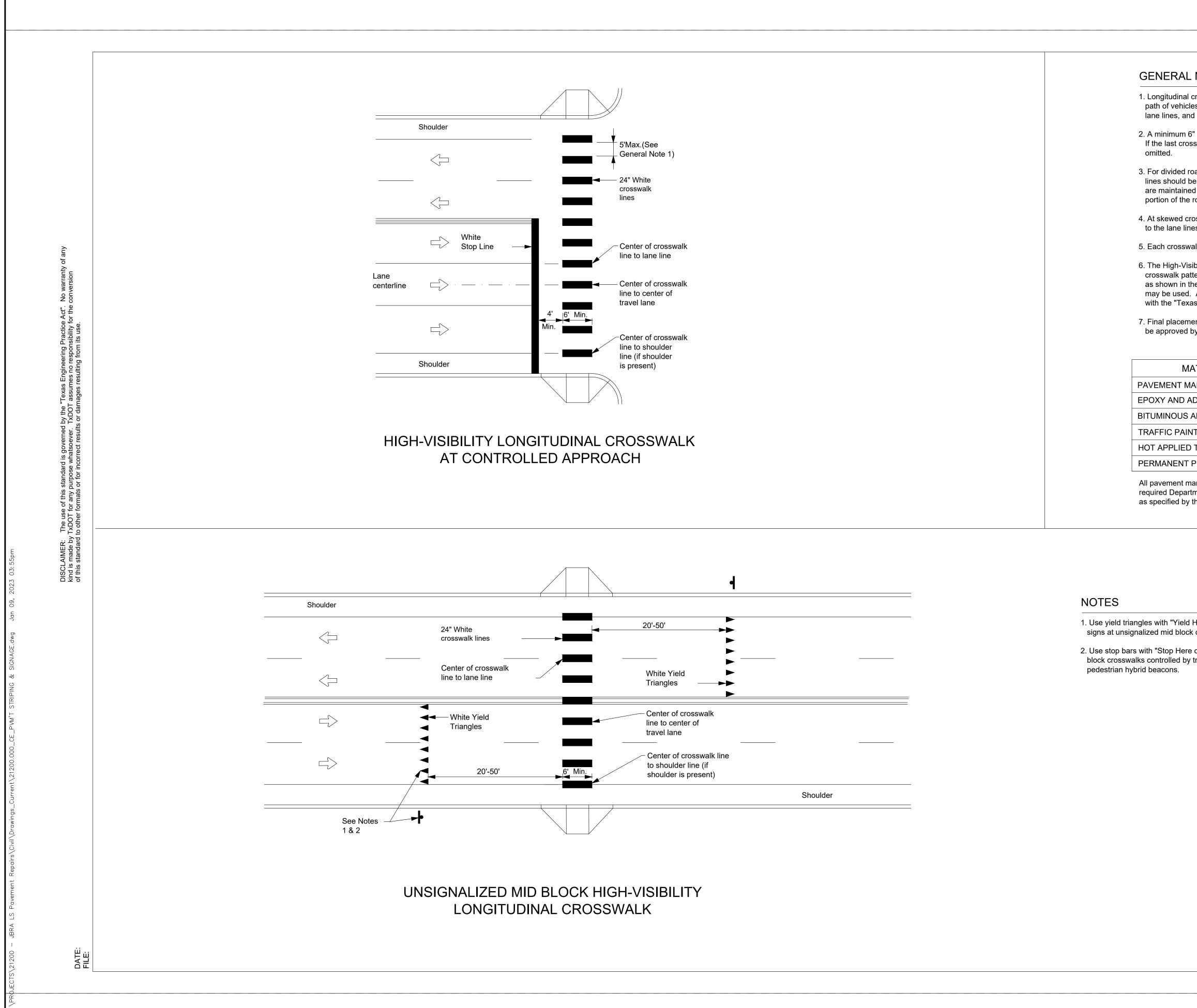
MATERIAL SPECIFICATIONS	
KERS (REFLECTORIZED)	DMS-4200
ESIVES	DMS-6100
ESIVE FOR PAVEMENT MARKERS	DMS-6130
	DMS-8200
ERMOPLASTIC	DMS-8220
EFABRICATED PAVEMENT MARKINGS	DMS-8240





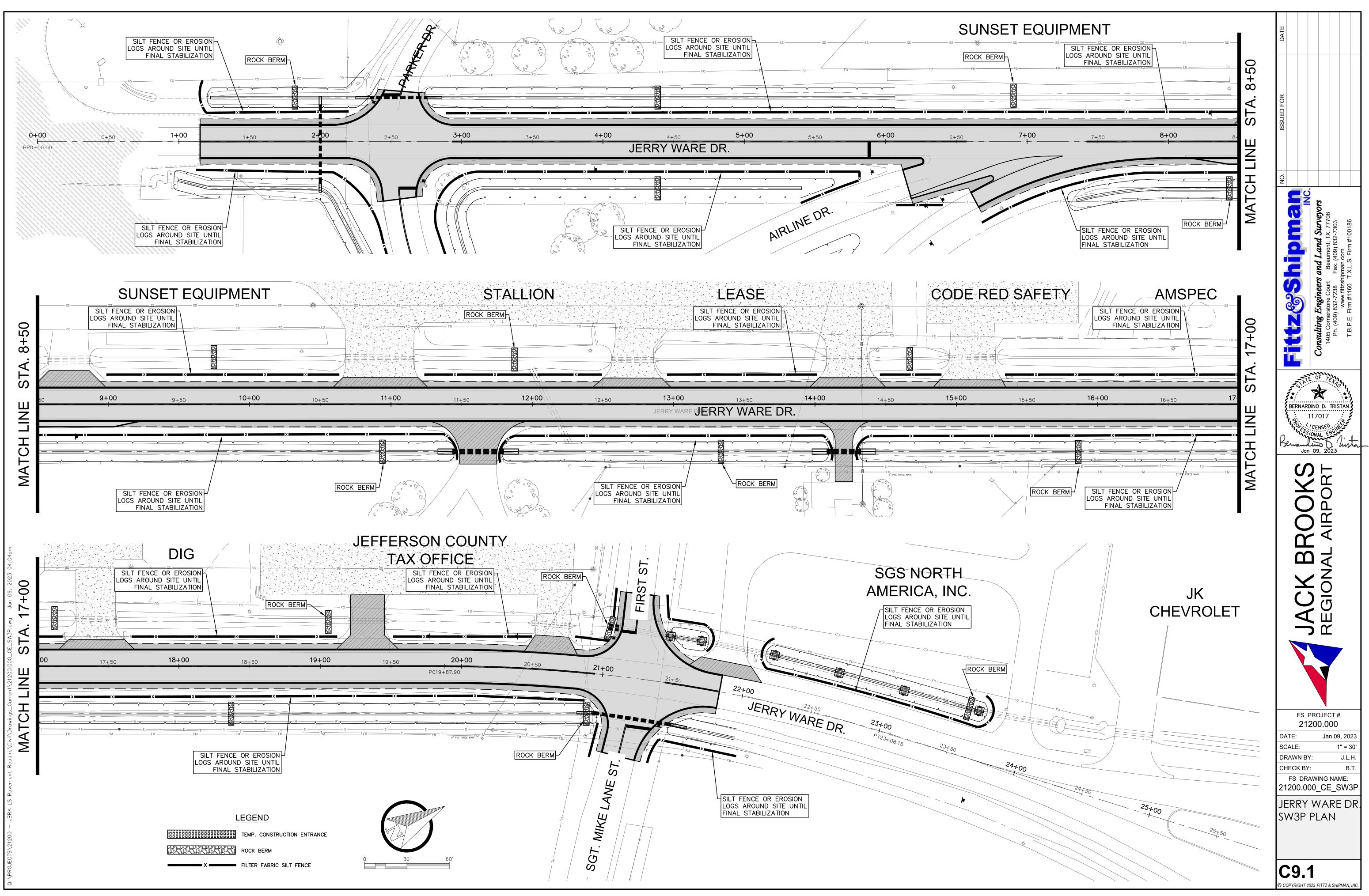
IFB 23-009/JW.LANDSIDE ROAD PAVEMENT REPAIRS-JBRA PAGE 134 OF 190

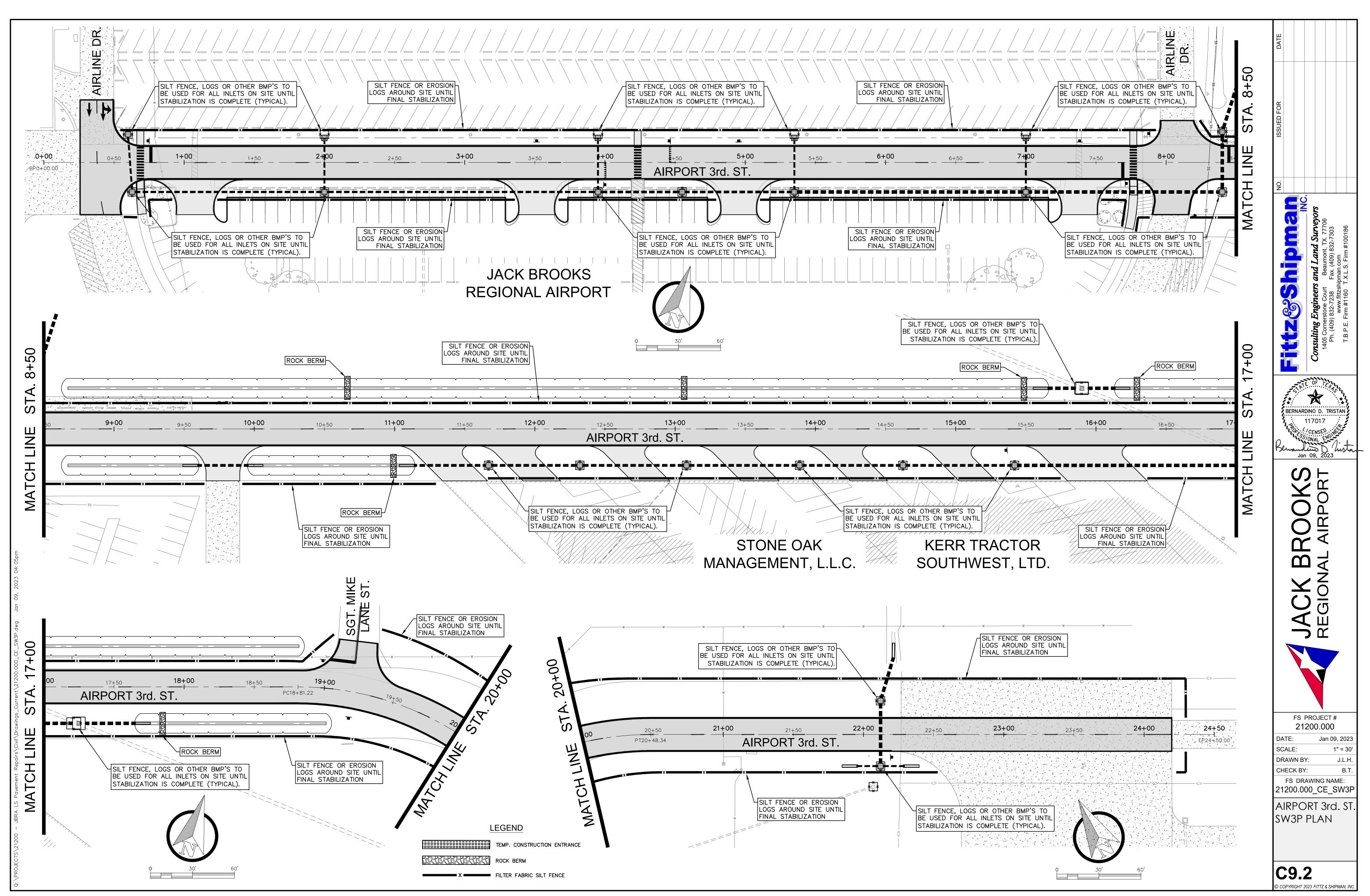
		DATE
IERAL NOTES		
ne use word and arrow markings shall be used ere through lanes approaching an intersection ome mandatory turn lanes. Lane use word and ow markings should be used in auxiliary lanes ubstantial length. Lane use arrow markings yord and arrow markings may be used in other es and turn bays for emphasis. Details for ds and arrows are as shown in the Standard hway Sign Designs for Texas.		ISSUED FOR
en lane-use words and arrow markings are used, sets of arrows should be used if the length of bay is greater than 180 feet. When a single a use arrow or word and arrow marking is used a short turn lane, it should be located at or r the upstream end of the full-width turn lane.		NO.
e raised pavement marker Type I-C with undivided hways, flush medians and two way left turn lanes. e raised pavement marker Type II-C-R with ided highways and raised medians.		<b>The Contemporation of the Contemporation of Contemporation</b> <b>ax</b> . (409) 832-7303 an. com LL.S. Firm #100186
ngth of turn bays, including taper, deceleration, storage lengths shall be as shown on the plans s directed by the Engineer.		Shifo Shifo Surf Beaumont Court Beaumont 238 Fax. (409) 8 fittzshipman.com 160 T.X.L.S. Firm
MATERIAL SPECIFICATIONS		Engin B32-72 www.7
PAVEMENT MARKERS (REFLECTORIZED)	DMS-4200	
EPOXY AND ADHESIVES	DMS-6100	<b>T.B.P.E</b>
BITUMINOUS ADHESIVE FOR PAVEMENT MARKERS	DMS-6130	Con.
TRAFFIC PAINT	DMS-8200	
HOT APPLIED THERMOPLASTIC	DMS-8220	THE OF TET
PERMANENT PREFABRICATED PAVEMENT MARKING	<b>S</b> MS-8240	
All pavement marking materials shall meet the required Departmental Material Specifications as specified by the plans.		BERNARDINO D. TRISTAN 117017 CENSED SS ONAL ENG SS ONAL ENG Lista
ee general te 3 WITH LEFT TURN BAYS WITH LEFT TURN BAYS Texas Department of Transportation TWO-WAY LEFT TURN L RURAL LEFT TURN L RURAL LEFT TURN L RURAL LEFT TURN BAY AND LANE REDUCT PAVEMENT MARKIN PM(3)-20	ANES, AYS, ION	SydewSydewSydewSydewSydewFs Project # 21200.000Date:Jan 09, 2023Scale:N.T.S.Drawn By:J.L.H.Check By:B.D.T.Fs Drawing Name: 21200.000_CE_PVWT STRIPING & SIGNAGE
FILE:       pm3-20.dgn       DN:       CK:         C)TxDOT       April 1998       CONT       SECT       JOB         REVISIONS         5-00       2-10       DIST       COUNT         8-00       2-12       DIST       COUNT         3-03       6-20       I       I	DW:     CK:       HIGHWAY       Y       SHEET NO.	PAVEMENT STRIPING AND SIGNAGE
		© COPYRIGHT 2023 FITTZ & SHIPMAN, INC.



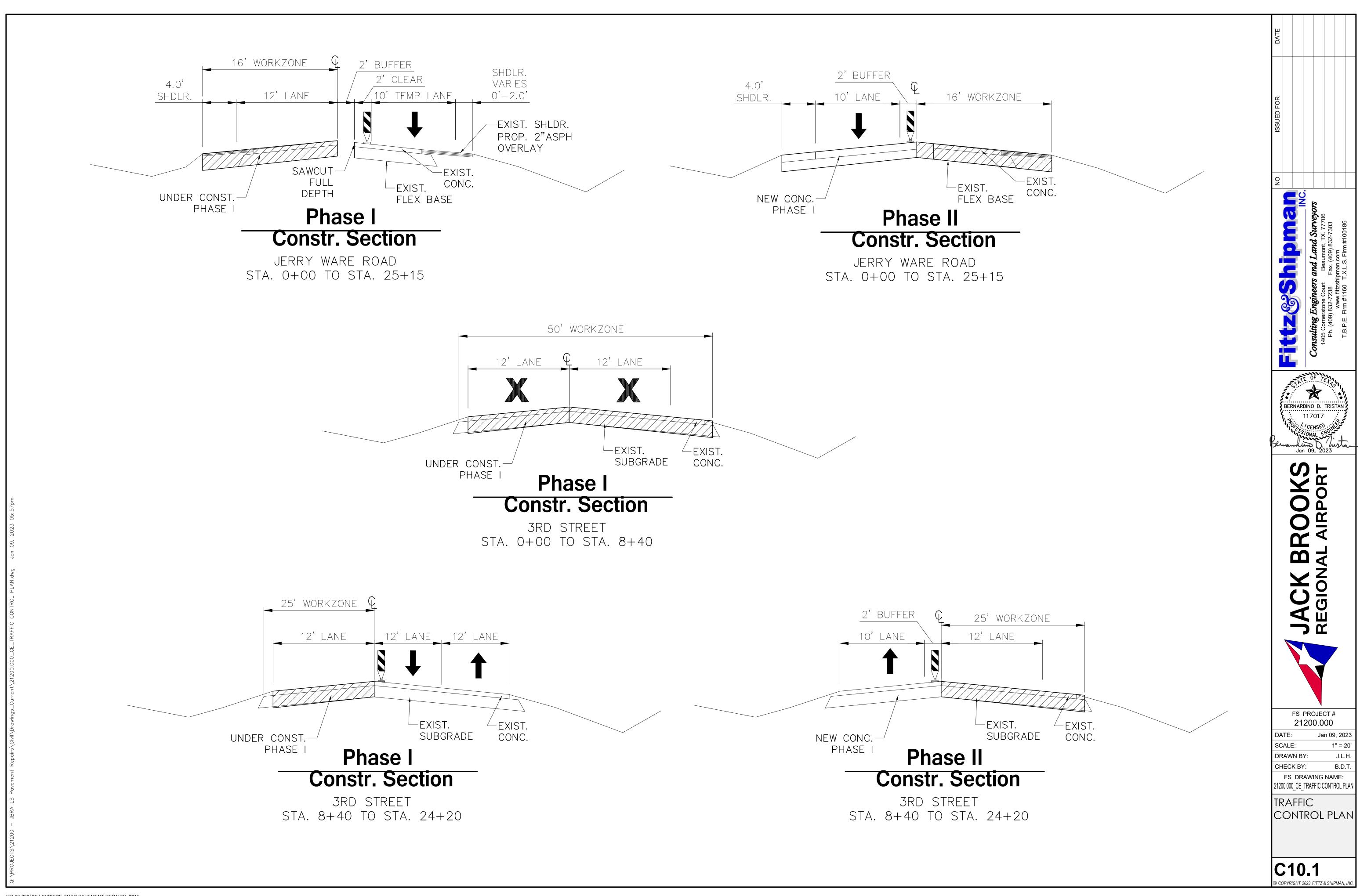
IFB 23-009/JW.LANDSIDE ROAD PAVEMENT REPAIRS-JBRA PAGE 135 OF 190

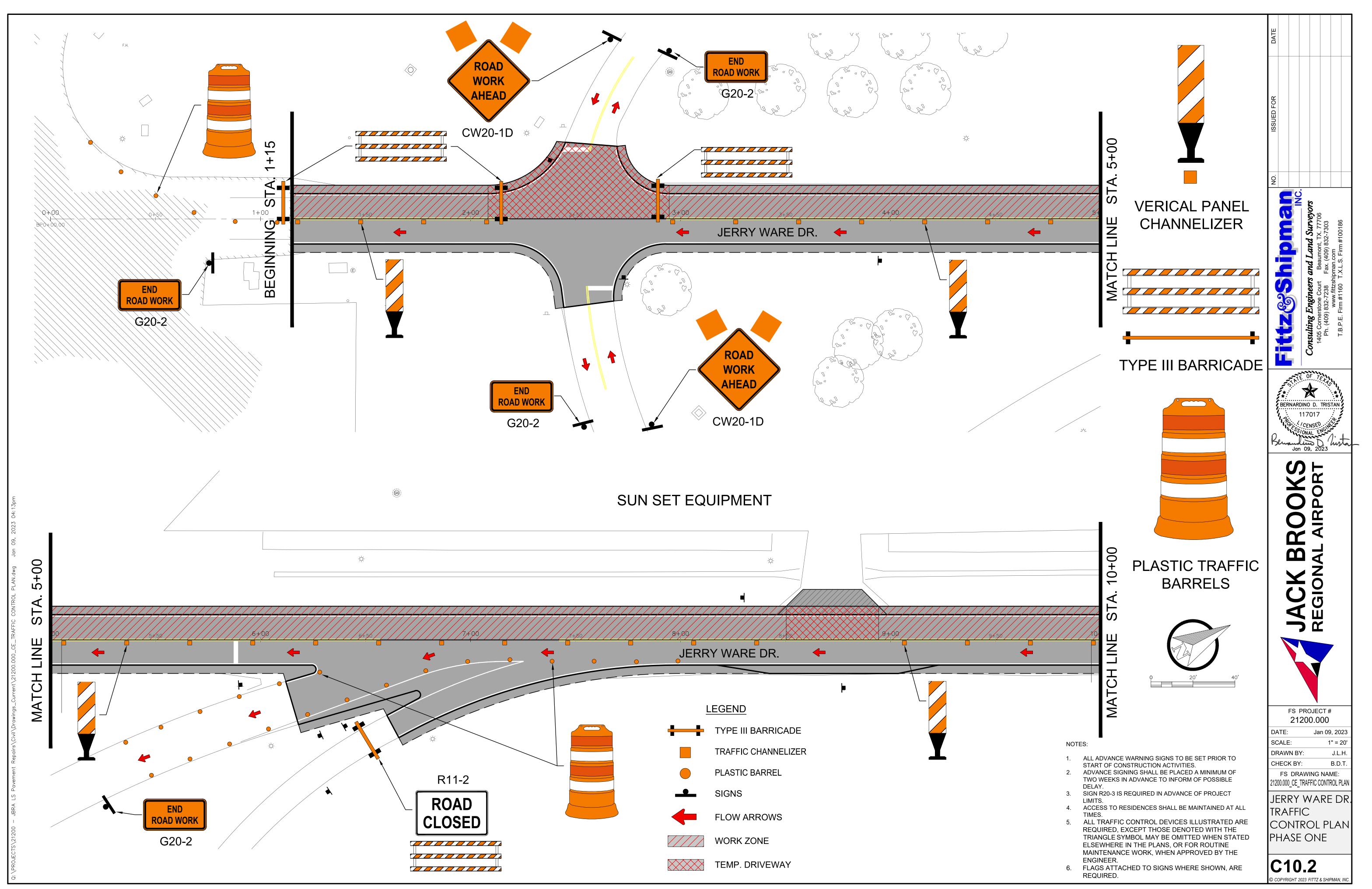
			DATE
NOTES			
crosswalk lines should not be placed in the whee es. Center the crosswalk lines on travel lanes, d shoulder lines (if present).	əl		SSUED FOR
" clear distance shall be provided to the curb fac swalk line falls into this distance it must be	e.		
badways, adjustments in spacing of the crosswa e made in the median so that the crosswalk line d in their proper location across the travel roadway.			ÖŽ
osswalks, the crosswalk lines are to remain para	allel		
alk shall be a minimum of 6' wide.			It, TX. 77706 832-7303
ibility Longitudinal Crosswalk is the preferred tern on State Highways. Other crosswalk patter ne "Texas Manual on Uniform Traffic Control De All crosswalk designs and dimension shall com as Manual on Uniform Traffic Control Devices." ent of Stop Bar/Yield Triangles and Crosswalk sl by the Engineer in the field.	vices" ıply		<b>Theers and Lar</b> Court Beaumon 238 Fax. (409) V.fittzshipman.com 1160 T.X.L.S. Firm
	DMS 4200		Consulting 1405 Corne Ph. (409 T.B.P.E.
ARKERS (REFLECTORIZED)	DMS-4200 DMS-6100		<b>1</b>
ADHESIVE FOR PAVEMENT MARKERS	DMS-6130		TE OF TELL
Т	DMS-8200		
THERMOPLASTIC	DMS-8220 DMS-8240		BERNARDINO D. TRISTAN
arking materials shall meet the mental Material Specifications the plans.			Bernandino Di hist Jan 09, 2023
Here to Pedestrians" crosswalks. on Red" signs at mid traffic signals or			CK BROO
Texas Department of Trans	sportation	Traffic Safety Division Standard	FS PROJECT # 21200.000
CROSSY PAVEMENT MA PAVEMENT MA PM(4)-2 FILE: pm4-20.dgn DN: CTXDOT JUNE 2020 CONT SEC REVISIONS DIST	ARKINGS 20	CK: HIGHWAY SHEET NO.	21200.000 DATE: Jan 09, 202 SCALE: N.T.S DRAWN BY: J.L.F CHECK BY: B.D.T FS DRAWING NAME: 21200.000_CE_PVMT STRIPING & SIGNA PAVEMENT STRIPING AND SIGNAGE
			© COPYRIGHT 2023 FITTZ & SHIPMAN, II

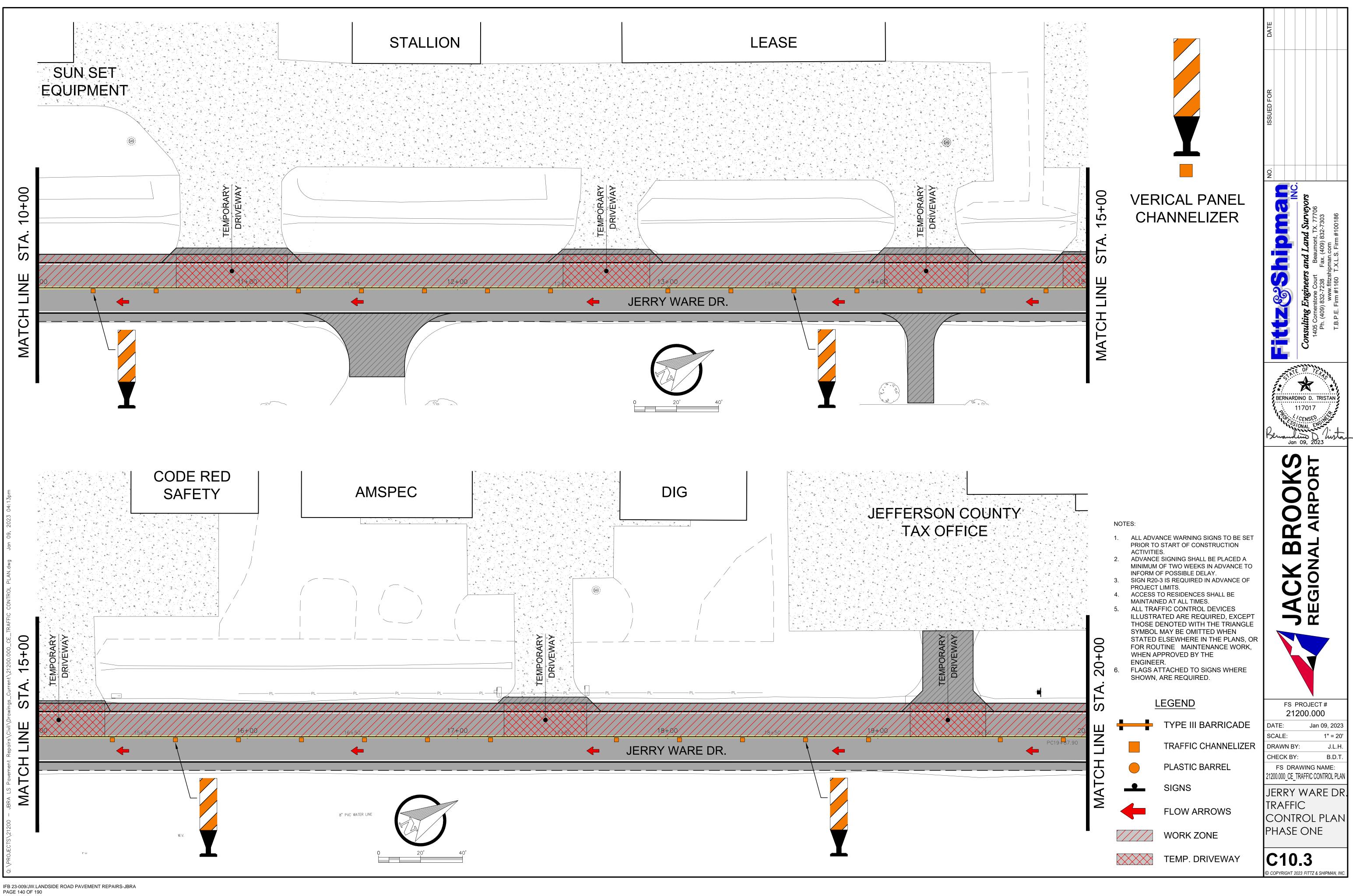


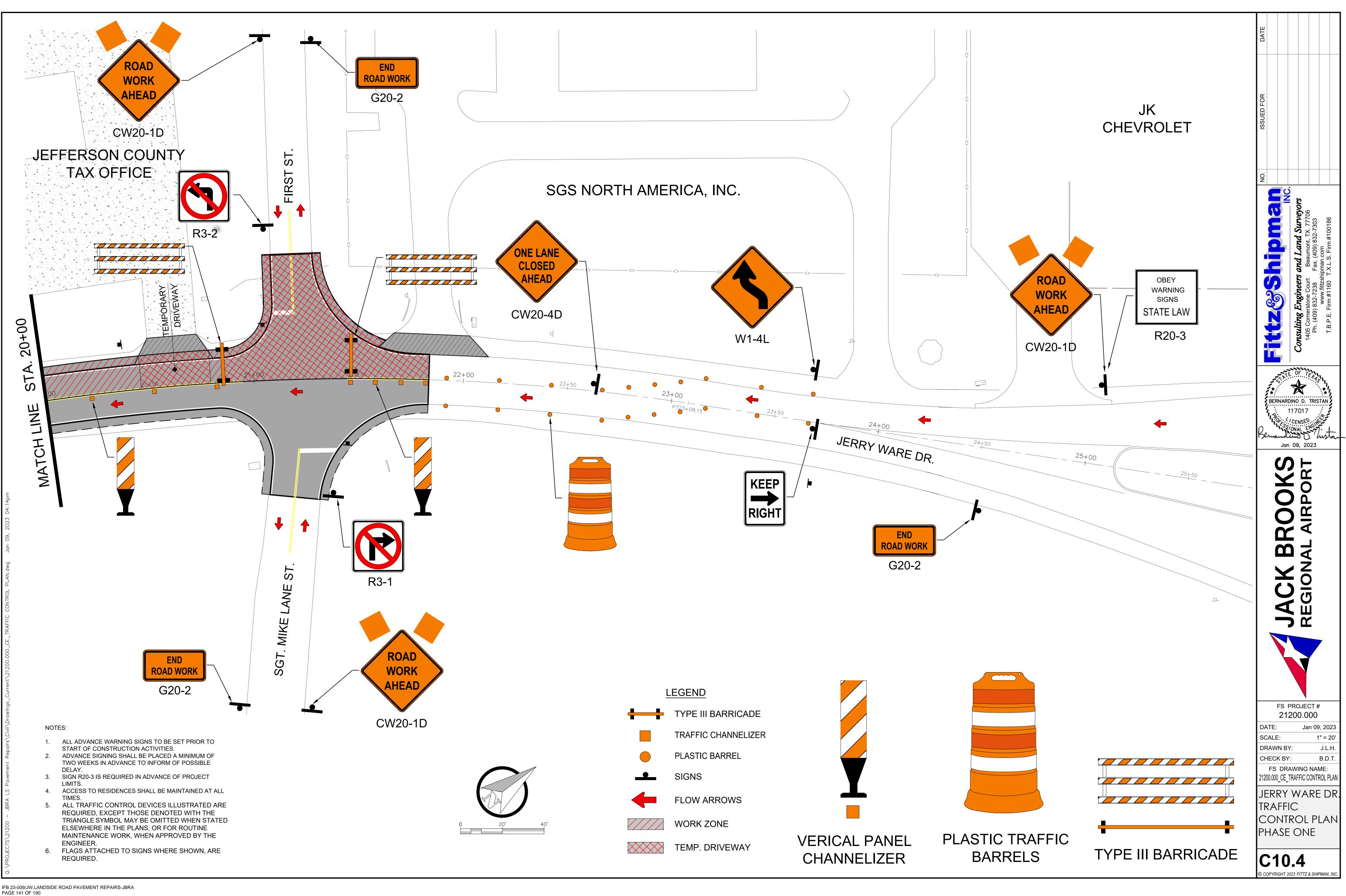


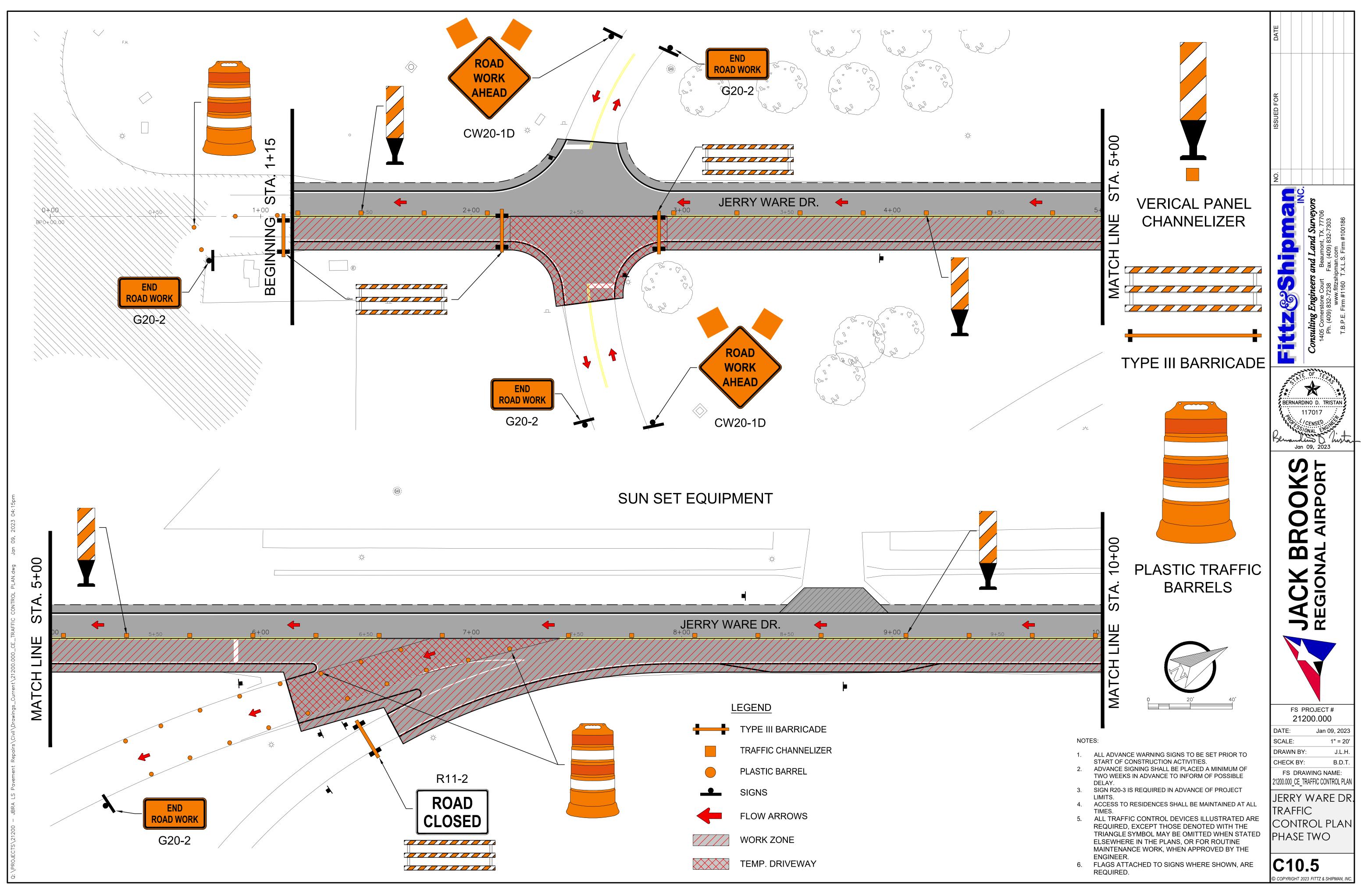
IFB 23-009/JW.LANDSIDE ROAD PAVEMENT REPAIRS-JBRA PAGE 137 OF 190

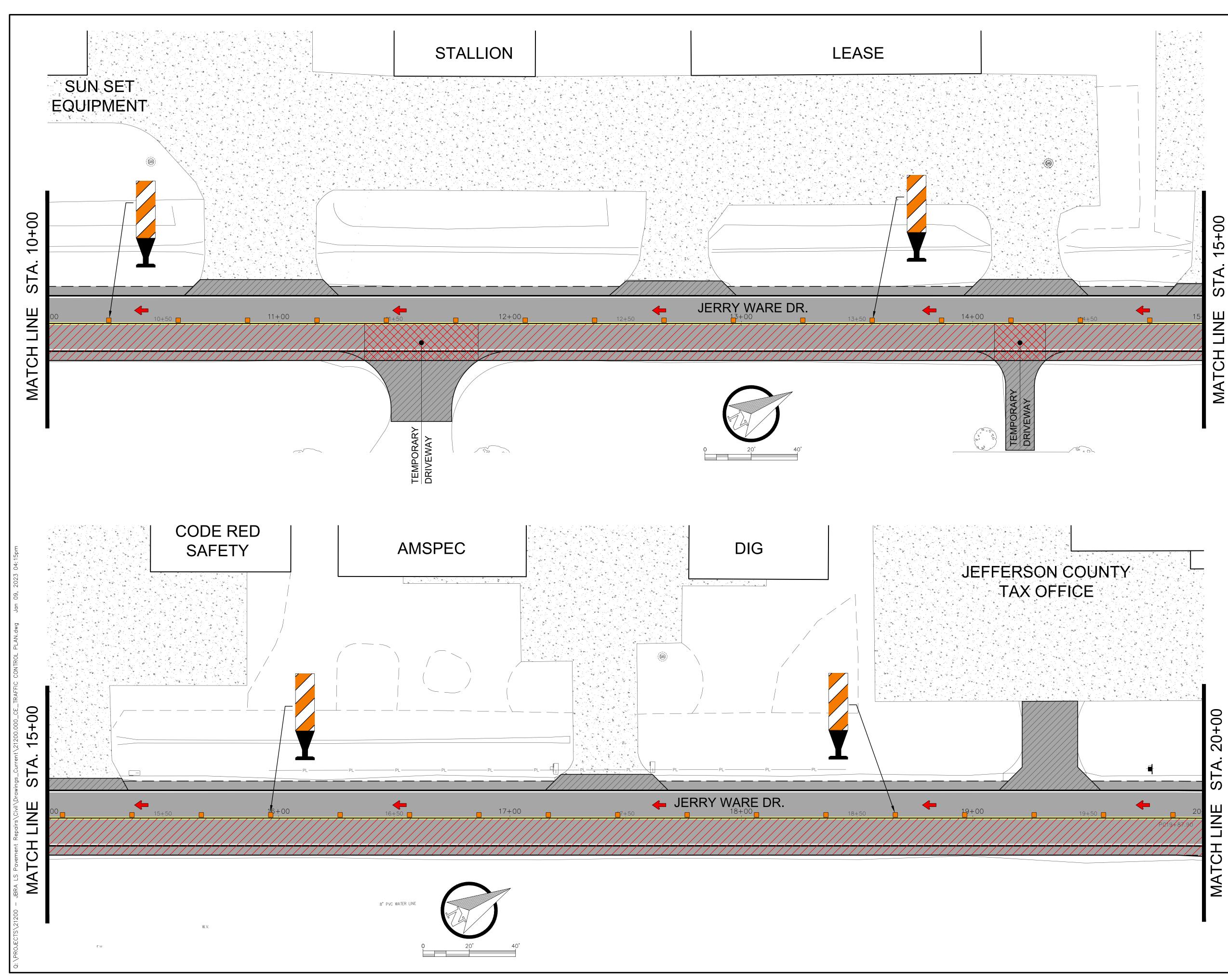












# NOTES:

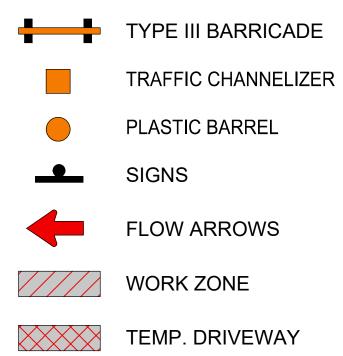
1. ALL ADVANCE WARNING SIGNS TO BE SET PRIOR TO START OF CONSTRUCTION ACTIVITIES.

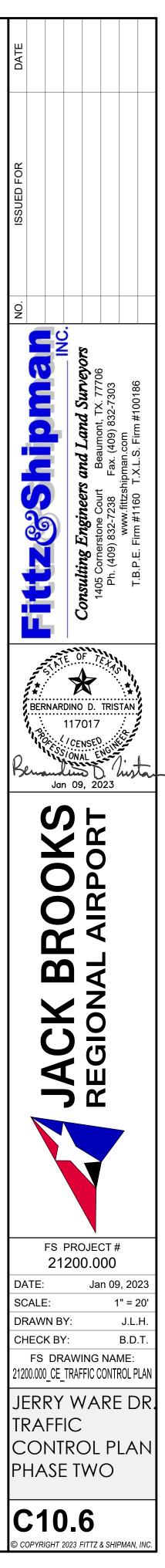
VERICAL PANEL

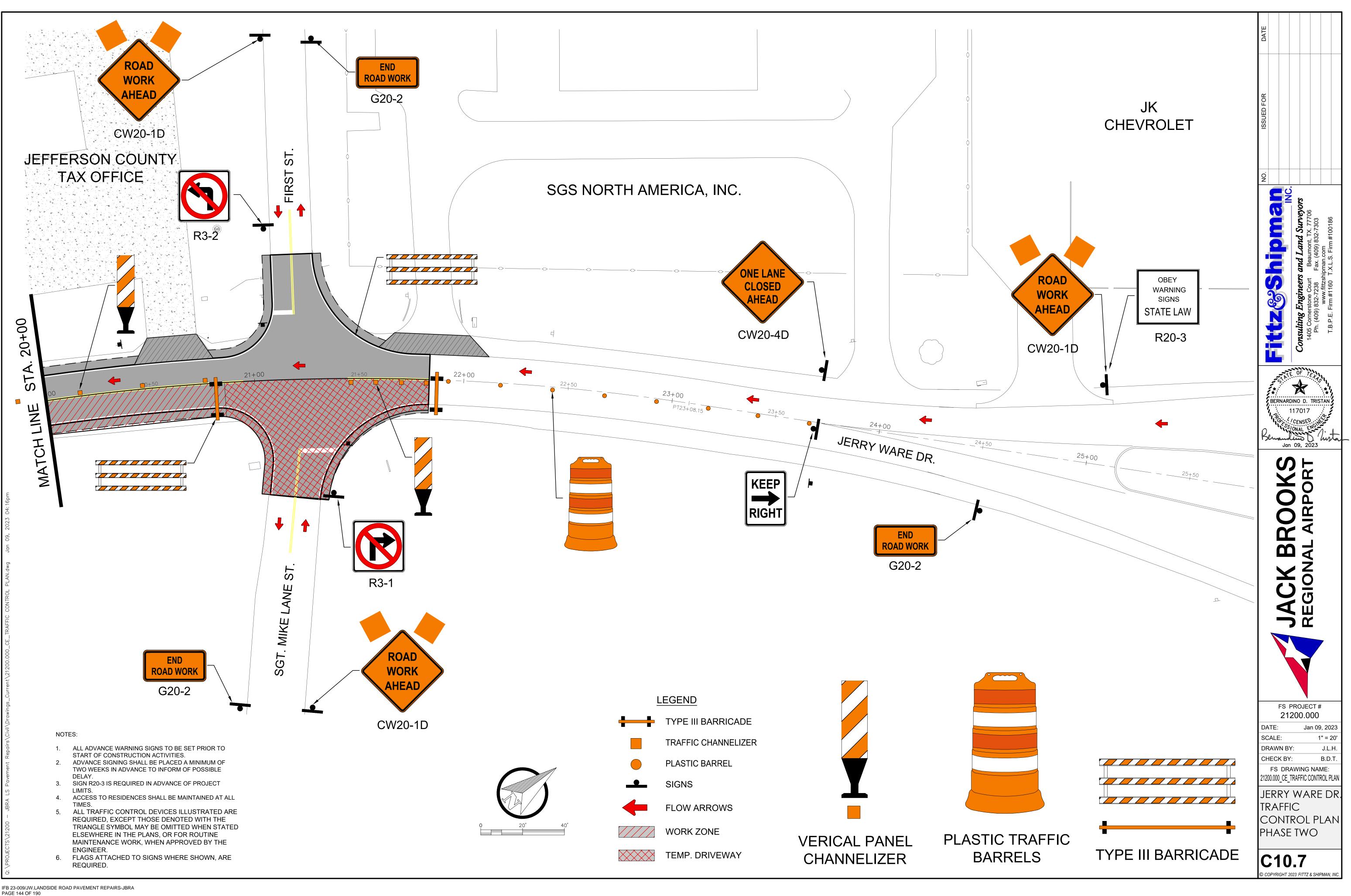
CHANNELIZER

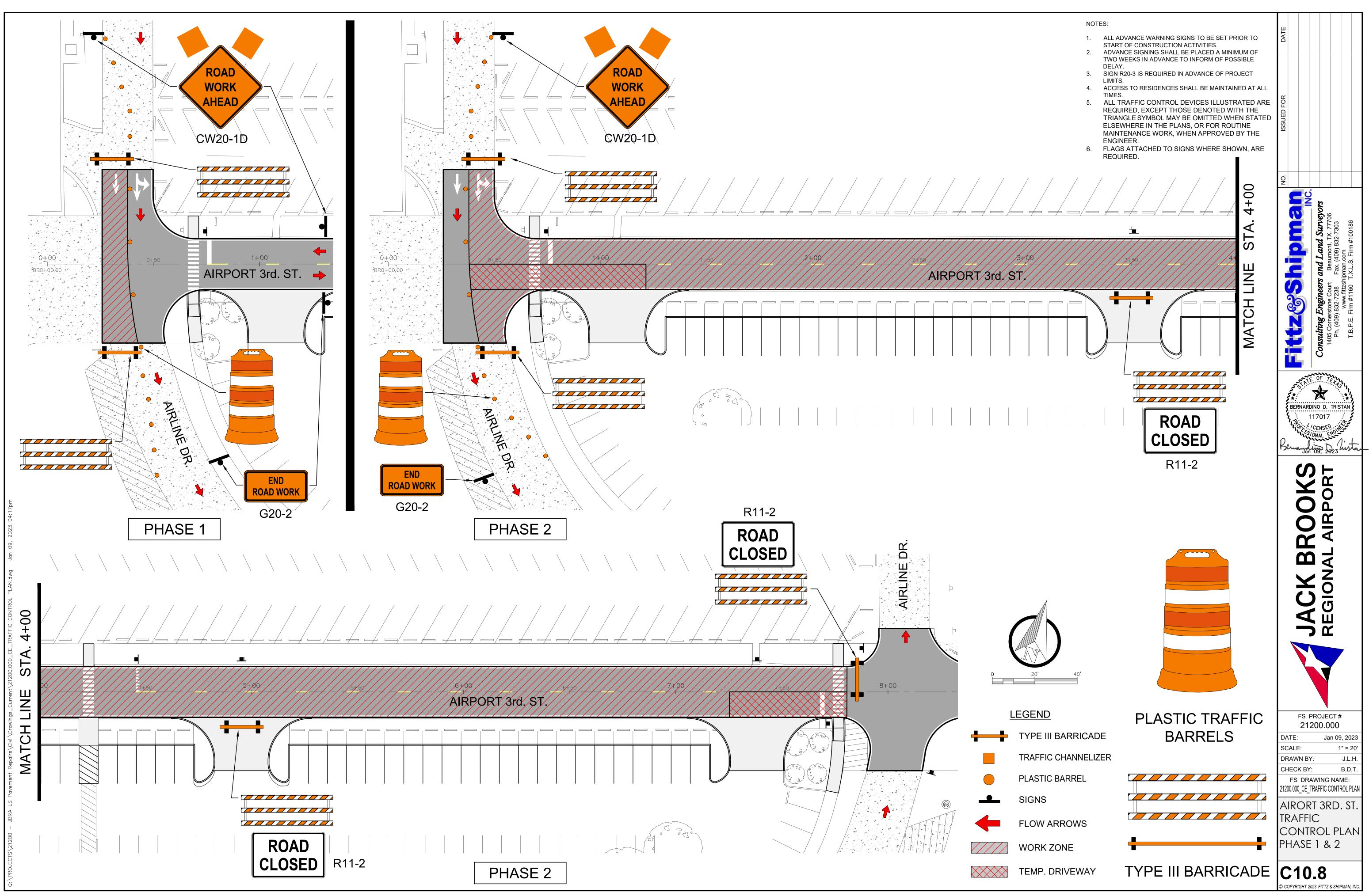
- 2. ADVANCE SIGNING SHALL BE PLACED A MINIMUM OF TWO WEEKS IN ADVANCE TO INFORM OF POSSIBLE DELAY.
- SIGN R20-3 IS REQUIRED IN ADVANCE OF PROJECT LIMITS.
   ACCESS TO RESIDENCES SHALL BE
- 4. ACCESS TO RESIDENCES SH MAINTAINED AT ALL TIMES.
- 5. ALL TRAFFIC CONTROL DEVICES ILLUSTRATED ARE REQUIRED, EXCEPT THOSE DENOTED WITH THE TRIANGLE SYMBOL MAY BE OMITTED WHEN STATED ELSEWHERE IN THE PLANS, OR FOR ROUTINE MAINTENANCE WORK, WHEN APPROVED BY THE ENGINEER.
- 5. FLAGS ATTACHED TO SIGNS WHERE SHOWN, ARE REQUIRED.

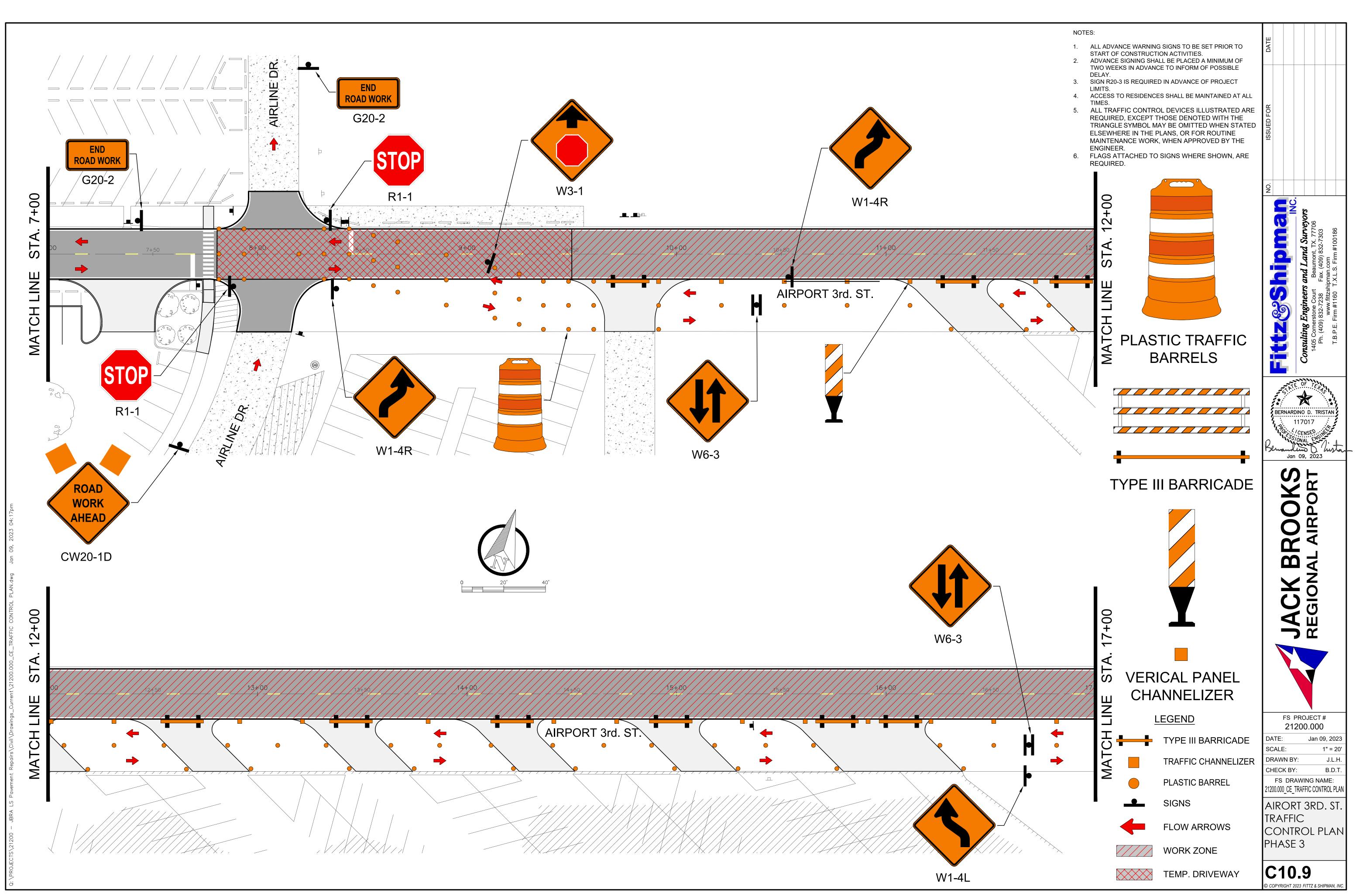
# LEGEND



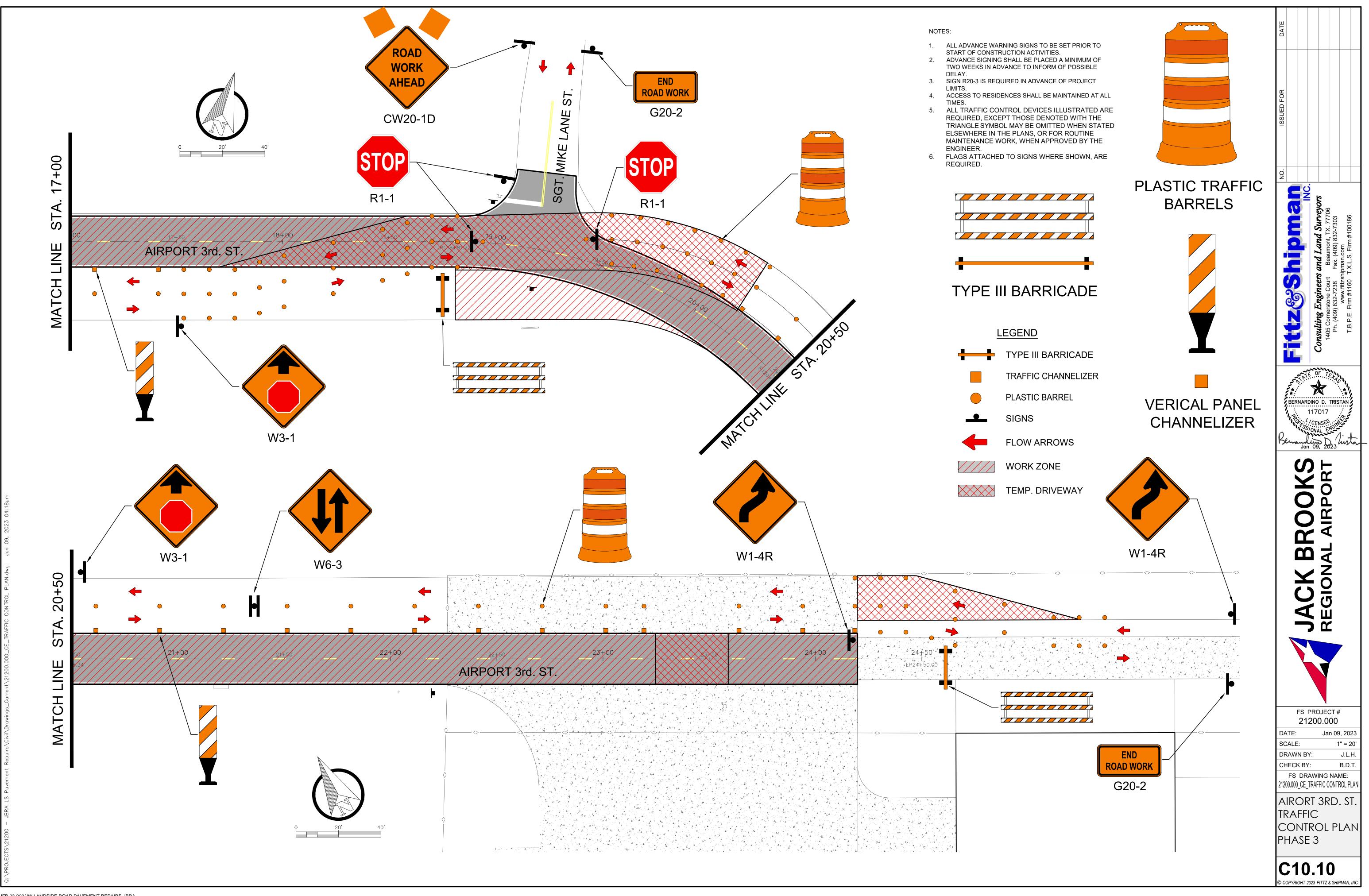


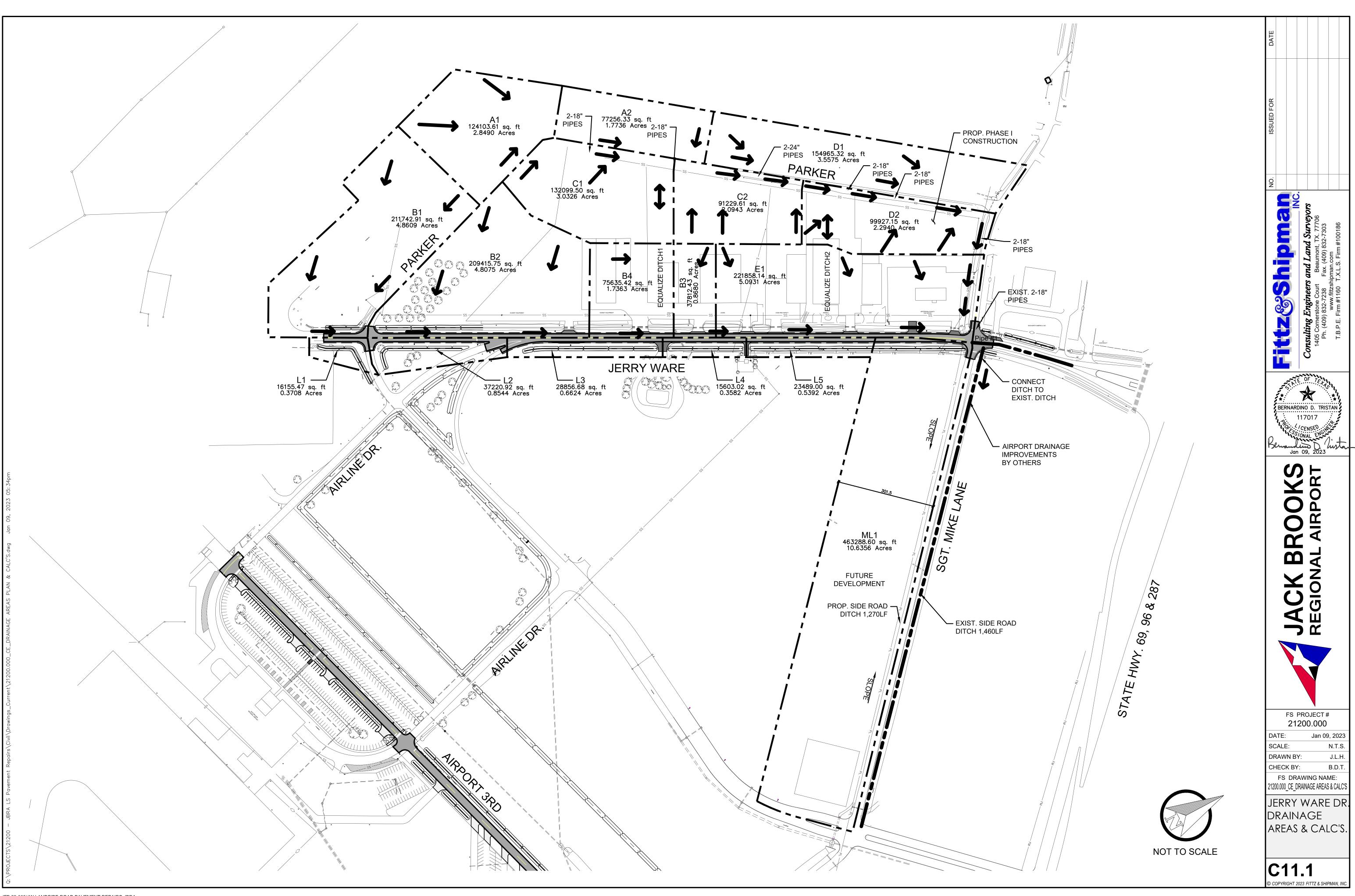


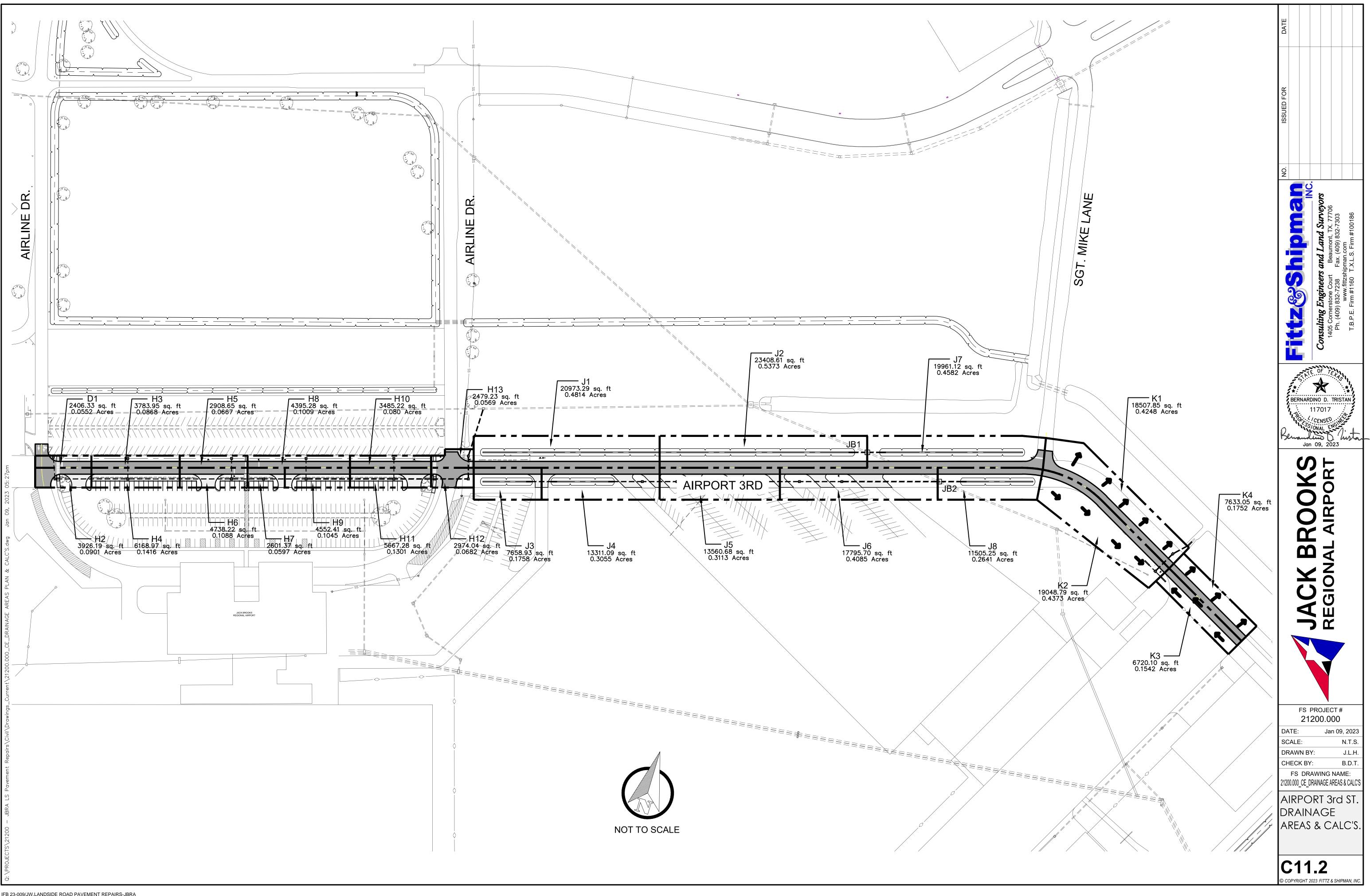




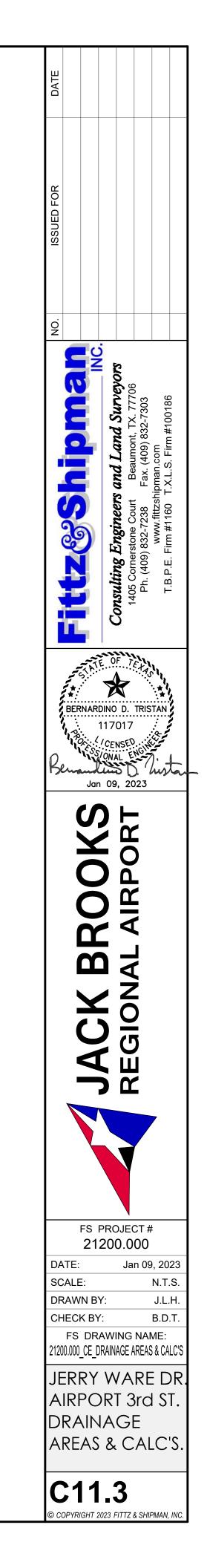
 $\bigcirc$ 







					Jefferson Co.		Des. Freq.	2		5		10		25		50		100
				l=b/(t+d)e		Atlas 14	b=	67.1216	b=	80.22	b=	88.32	b=	97.22	b=	101.38	b=	105.57
			Тс	c=10A .1761	+15	Zone 1	d=	13.2828	d=	13.47	d=	13.43	d=	13.33	d=	13.05	d=	12.99
				E AREA COM		2019	e=	0.8004	e=	0.772	e=	0.752	e=	0.727	e=	0.707	e=	0.687
DRAINAGE	TOTAL	Composite	Pavement	Grass	Combined	Time of												
AREA	AREA	C	C	C	C A	Concent.	i2	Q2	i5	Q5	i10	Q10	i25	Q25	i50	Q50	i100	Q100
NO.	(Ac.)	0.60	0.90	0.25		(min.)	(in./hr.)	(c.f.s.)	(in./hr.)	(c.f.s.)	(in./hr.)	(c.f.s.)	(in./hr.)	(c.f.s.)	(in./hr.)	(c.f.s.)	(in./hr.)	(c.f.s.)
Post-0	Construction Co	onditions																
A1	2.849	2.849	0.000	0.000	1.709	27.0	3.48	5.95	4.61	7.88	5.47	9.34	6.61	11.30	7.47	12.76	8.37	14.30
A2	1.774	1.774	0.000	0.000	1.064	26.1	3.55	3.78	4.70	5.00	5.57	5.92	6.73	7.16	7.59	8.08	8.51	9.05
B1	4.861	4.861	0.000	0.000	2.917	28.2	3.40	9.92	4.51	13.15	5.35	15.60	6.47	18.87	7.31	21.33	8.20	23.91
B2	4.808	4.808	0.000	0.000	2.885	28.2	3.40	9.82	4.51	13.01	5.35	15.43	6.47	18.67	7.32	21.10	8.20	23.66
B3	0.868	0.868	0.000	0.000	0.521	24.8	3.65	1.90	4.82	2.51	5.71	2.97	6.89	3.59	7.78	4.05	8.71	4.54
B4	1.736	1.736	0.000	0.000	1.042	26.0	3.55	3.70	4.70	4.90	5.57	5.80	6.73	7.01	7.60	7.92	8.51	8.87
C1	3.033	3.033	0.000	0.000	1.820	27.2	3.47	6.32	4.60	8.37	5.45	9.92	6.59	12.00	7.45	13.55	8.35	15.19
C2	2.094	2.094	0.000	0.000	1.257	26.4	3.53	4.43	4.67	5.86	5.53	6.95	6.68	8.40	7.55	9.49	8.46	10.63
D1	3.558	3.558	0.000	0.000	2.135	27.5	3.45	7.36	4.57	9.75	5.42	11.56	6.55	13.98	7.40	15.80	8.30	17.71
D2	2.294	2.294	0.000	0.000	1.376	26.6	3.51	4.84	4.65	6.40	5.51	7.59	6.66	9.17	7.52	10.36	8.43	11.60
E1	5.093	5.093	0.000	0.000	3.056	28.3	3.40	10.38	4.50	13.75	5.34	16.31	6.46	19.74	7.30	22.31	8.18	25.01
ML1	10.636	10.636	0.000	0.000	6.381	30.2	3.28	20.93	4.35	27.77	5.17	32.97	6.26	39.93	7.08	45.16	7.94	50.69
Entire Basin	43.60				26.16	34.4	3.04	79.59	4.05	105.92	4.82	125.98	5.85	152.93	6.62	173.21	7.44	194.73
H1	0.055	0.000	0.055	0.000	0.050	21.0	3.96	0.20	5.22	0.26	6.17	0.31	7.43	0.37	8.38	0.42	9.36	0.47
H2	0.090	0.000	0.090	0.000	0.081	21.5	3.91	0.32	5.16	0.42	6.10	0.49	7.35	0.60	8.28	0.67	9.26	0.75
H3	0.087	0.000	0.087	0.000	0.078	21.5	3.92	0.31	5.16	0.40	6.10	0.48	7.35	0.57	8.29	0.65	9.26	0.72
H4	0.142	0.000	0.142	0.000	0.127	22.1	3.87	0.49	5.10	0.65	6.03	0.77	7.27	0.93	8.19	1.04	9.16	1.17
H5	0.067	0.000	0.067	0.000	0.060	21.2	3.95	0.24	5.20	0.31	6.14	0.37	7.40	0.44	8.34	0.50	9.32	0.56
H6	0.109	0.000	0.109	0.000	0.098	21.8	3.89	0.38	5.13	0.50	6.07	0.59	7.31	0.72	8.25	0.81	9.22	0.90
H7	0.060	0.000	0.060	0.000	0.054	21.1	3.96	0.21	5.21	0.28	6.16	0.33	7.42	0.40	8.36	0.45	9.34	0.50
H8	0.101	0.000	0.101	0.000	0.091	21.7	3.90	0.35	5.14	0.47	6.08	0.55	7.33	0.67	8.26	0.75	9.23	0.84
H9	0.105	0.000	0.105	0.000	0.094	21.7	3.90	0.37	5.14	0.48	6.07	0.57	7.32	0.69	8.25	0.78	9.23	0.87
H10	0.080	0.000	0.080	0.000	0.072	21.4	3.93	0.28	5.17	0.37	6.12	0.44	7.37	0.53	8.31	0.60	9.28	0.67
H11	0.130	0.000	0.130	0.000	0.117	22.0	3.88	0.45	5.11	0.60	6.04	0.71	7.28	0.85	8.21	0.96	9.18	1.07
H12	0.068	0.000	0.068	0.000	0.061	21.2	3.94	0.24	5.19	0.32	6.14 6.17	0.38	7.40	0.45	8.34	0.51	9.31	0.57
H13	0.057	0.000	0.057	0.000	0.051	21.0	3.96	0.20	5.22	0.27	6.17	0.32	7.43	0.38	8.37	0.43	9.35	0.48
J1	0.481	0.000	0.241	0.241	0.277	23.8	3.72	1.03	4.92	1.36	5.82	1.61	7.02	1.94	7.92	2.19	8.86	2.45
J2	0.537	0.000	0.269	0.269	0.309	24.0	3.71	1.15	4.90	1.51	5.80	1.79	7.00	2.16	7.90	2.44	8.84	2.73
J3	0.176	0.000	0.088	0.088	0.101	22.4	3.84	0.39	5.07	0.51	5.99	0.61	7.23	0.73	8.15	0.82	9.11	0.92
J4	0.306	0.000	0.153	0.153	0.176	23.1	3.78	0.66	4.99	0.88	5.90	1.04	7.12	1.25	8.03	1.41	8.98	1.58
J5	0.311	0.000	0.156	0.156	0.179	23.1	3.78	0.68	4.98	0.89	5.90	1.06	7.11	1.27	8.02	1.44	8.97	1.61
J6	0.409	0.000	0.204	0.204	0.235	23.5	3.74	0.88	4.94	1.16	5.85	1.37	7.06	1.66	7.96	1.87	8.91	2.09
J7	0.458	0.000	0.229	0.229	0.263	23.7	3.73	0.98	4.92	1.30	5.83	1.54	7.03	1.85	7.93	2.09	8.88	2.34
J8	0.264	0.000	0.132	0.132	0.152	22.9	3.80	0.58	5.01	0.76	5.92	0.90	7.15	1.09	8.06	1.22	9.01	1.37
K1	0.425	0.000	0.212	0.212	0.244	23.6	3.74	0.91	4.94	1.21	5.84	1.43	7.05	1.72	7.95	1.94	8.90	2.17
K2	0.437	0.000	0.219	0.219	0.251	23.6	3.74	0.94	4.93	1.24	5.84	1.47	7.04	1.77	7.94	2.00	8.89	2.24
K3	0.154	0.000	0.077	0.077	0.089	22.2	3.86	0.34	5.08	0.45	6.01	0.53	7.25	0.64	8.17	0.73	9.14	0.81
K4	0.175	0.000	0.088	0.088	0.101	22.4	3.84	0.39	5.07	0.51	5.99	0.60	7.23	0.73	8.15	0.82	9.11	0.92
L1	0.371	0.000	0.185	0.185	0.213	23.4	3.76	0.80	4.96	1.06	5.87	1.25	7.08	1.51	7.98	1.70	8.93	1.90
L2	0.854	0.000	0.427	0.427	0.491	24.7	3.65	1.79	4.82	2.37	5.71	2.81	6.90	3.39	7.78	3.82	8.71	4.28
L3	0.662	0.000	0.331	0.331	0.381	24.3	3.68	1.40	4.86	1.85	5.76	2.19	6.95	2.65	7.85	2.99	8.78	3.34
L4	0.358	0.000	0.179	0.179	0.206	23.3	3.76	0.77	4.96	1.02	5.87	1.21	7.08	1.46	7.99	1.65	8.94	1.84
L5	0.539	0.000	0.270	0.270	0.310	24.0	3.71	1.15	4.90	1.52	5.80	1.80	7.00	2.17	7.90	2.45	8.84	2.74



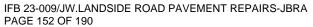
								loffor			10							0.012				
									on Co.	Freq =	10		l-b/(t, d)o					0.013	RCP pipe			
								Atlas 14 Zor	≏ 1		= 88.32 = 13.43		I=b/(t+d)e Tc=10A .1	1761+15				0.012 0.030	HDPE pipe earth ditch			
								20			= 0.752		10-107	1701-10				PIPE				
			ΤΟΤΑΙ	τοται		Time of C	poontrot							Eroa -				DESIGN			REMARKS	
FROM	ТО	Drainage Areas	TOTAL DA	TOTAL CA	LNGTH	Time of Co Along s	ewer line				Inlet	Used in	I	Freq = Q		No.	Dia.	DESIGN Slope	Cap.	vel.	TEMARKS	5 +/-
NO.	10	Brainage / Todo	(Ac.)	0/1	(ft.)	/ liong o					Time	Design	(in/hr)	(cfs)		(#)	(in.)	%	(cfs)	(ft/sec)		ΛQ
A1	A2	A1	2.85	1.71	482	10.0	+ 4	32 / 1.0	0 (60)=	18.03	27.02	27.02	5.47	9.34		2	24	0.20	20.28	3.50	Pipe	10.94
A2	N. Ditch	A1+A2	4.62	2.77	471	27.0	+ 4	32 / 3.5	0 (60)=	29.32	28.09	29.32	5.24	14.54		2	24	0.25	22.68	3.91	Pipe	8.14
D1	N. Ditch	D1	3.56	2.13	780	29.3	+ 4	71 / 3.9	1 (60)=	31.33	27.50	31.33	5.07	10.81		2	24	0.20	20.28	3.50	Pipe	9.47
D4	50	D4	4.90	2.02	500	10.0			0 (60)-	40.67	00.04	00.04	E 0E	45.00		0	10	0.20	47.00	2 E A	Dine	4 70
B1 B2	B2 B4	B1 B1+B2	4.86 9.67	2.92 5.80	580 615	10.0 28.2	+ 5 + 5		· · ·		28.21 29.91	28.21 30.95	5.35 5.10	15.60 29.57		3 3	18 18	0.30 0.30	17.30 17.30	3.54 3.54	Pipe Pipe	1.70 -12.27
B2	B3	B1+B2+B4	11.40	6.84	260	30.9		15 / 3.5	~ /		30.35	33.84	4.86	33.26		3	18	0.30	17.30	3.54	Pipe	-15.96
B3	E1	B1+B2+B3+B4	12.27	7.36	290	33.8	+ 2		( )		30.55	35.07	4.77	35.11		2	24	0.30	24.84	4.28	, Pipe	-10.27
C1	C2	C1	3.03	1.82	265	10.0		65 / 1.0	· · ·		27.16	27.16	5.45	9.92		2	18	0.20	9.42	2.89	Pipe	-0.50
C2 D2	D2 E1	C1+C2 C1+C2+D2	5.13 7.42	3.08 4.45	687 575	27.2 28.7	+ 2	65 / 2.8 87 / 3.8			28.34 29.23	28.69 31.96	5.30 5.01	16.31 22.32		2	24 18	0.20 0.30	20.28 11.53	3.50 3.54	Pipe Pipe	3.97 -10.78
E1	L ⊓ Pipe 1	C1+C2+D2+E1	12.51	7.51	200	32.0		75 / 3.	~ /		30.60	34.67	4.80	36.03		2	18	1.20	23.07	7.07	Pipe	-12.96
<b>_</b> ·	1 100 1		12.01		200	02.0	Ū		. (00)	01101	00100	0		00.00		2	18	0.30	11.53	3.54	Pipe	12.00
																			34.60		·	-1.42
																Т	RAPEZ	DIDAL DITC	H DESIGN			
															SS	Wb	d	Slope	Cap.	Vel.		
	1		4 4 4 4	0.00	200	22.0	. 0		4 (60)-	25.07	10.00	25.07	4 77	44.04	(l/h)	(ft.)	(ft.)	%	(cfs)	(ft/sec)	Ditab	∧ Q
EQ Ditch 2		B1+B2+B4+C1 B1->B4+C1+C2+E1	14.44 22.49	8.66 13.50	290 506	33.8 21.2		50 / 3.5 1 / 2.7			10.00 10.00	35.07 21.46	4.77 6.11	41.31 82.44	4.0 4.0	4.0 4.0	3.0 3.0	0.10 0.10	106.14 106.14	2.21 2.21	Ditch Ditch	64.84 23.71
ML DITCH		ML1	43.60	26.16	1270	34.7		70 / 7.0	~ /		10.00	37.67	4.59	119.96	4.0	4.0	3.0	0.10	106.14	2.21	Ditch	-13.81
									~ ,													
H1	H2	H1	0.06	0.05	42	04.0	+ 4		( )		21.0	21.0	6.17	0.31		1	12	0.30	2.12	2.70	Pipe	1.81
H2 H3	H4 H4	H1+H2 H3	0.15 0.09	0.13 0.08	137 41	21.0	+ 1: + 4				22.1 21.5	22.1 21.5	6.02 6.10	0.79 0.48		1	15 12	0.30 0.30	3.84 2.12	3.13 2.70	Pipe Pipe	3.05 1.64
H4	H6	H1->H4	0.00	0.34	195	21.5	+ 19				23.4	23.4	5.86	1.97		1	15	0.30	3.84	3.13	Pipe	1.87
H5	H6	H5	0.07	0.06	41		+ 4	1 / 1.	( )		21.2	21.2	6.14	0.37		1	12	0.30	2.12	2.70	Pipe	1.75
H6	H7	H1->H6	0.55	0.49	59	23.4	+ 19	95 / 3.	1 (60)=	24.4	24.0	24.4	5.74	2.84		1	18	0.30	6.25	3.54	Pipe	3.41
H7	H9	H1->H7	0.61	0.55	79	21.2	+ 4	1 / 2.	7 (60)=	21.5	24.2	24.2	5.78	3.17		1	18	0.30	6.25	3.54	Pipe	3.08
H8	H9	H8	0.10	0.09	41		+ 4		( )		21.7	21.7	6.08	0.55		1	12	0.30	2.12	2.70	Pipe	1.57
H9	H11 H11	H1->H9 H10	0.81	0.73 0.07	165 41	24.2	+ /	9 / 3. 1 / 1	( <i>)</i>		24.6	24.6 21.4	5.72 6.12	4.19 0.44		1	24 12	0.30	13.46 2.12	4.28 2.70	Pipe	9.26 1.68
H10 H11	H12	H1->H11	0.08 1.02	0.92	41 140	24.6	+ 16	-	( )		21.4 25.0	21.4	5.65	0.44 5.21		1	12 24	0.30 0.30	13.46	4.28	Pipe Pipe	8.25
H12	H13	H1->H12	1.09	0.98	41	21.4	+ 4				25.2	25.2	5.66	5.57		1	24	0.30	13.46	4.28	Pipe	7.89
H13	OUT	H1->H13	1.15	1.03	95	25.3	+ 14	0 / 4.	3 (60)=	25.8	25.2	25.8	5.59	5.78		1	24	0.30	13.46	4.28	Pipe	7.67
																-						
															SS	ı Wb	d	DIDAL DITC Slope	Cap.	Vel.		
															(l/h)	(ft.)	(ft.)	%	(cfs)	(ft/sec)		
J1	J2	J2	0.48	0.28	332		+ 33	32 / 1.	5 (60)=	3.7	23.8	23.8	5.82	1.61	3.0	2.0	3.0	0.20	99.2	3.0	Ditch	97.56
J2	JB1	J1+J2	1.02	0.59	368	23.8	+ 36		( )		25.0	25.8	5.59	3.27	3.0	2.0	3.0	0.20	99.2	3.0	Ditch	95.90
JB1	Out	J1+J2	1.02	0.59	24	25.8	+ 2		( )		25.0	26.0	5.58	3.27		1	24	2.00	34.74	11.06	Pipe	31.48
J3 J4	J4 J5	J3 J3+J4	0.18 0.48	0.10 0.28	36 118	22.4	+ 3 + 1 [,]		( )		22.4 23.8	22.4 23.8	5.99 5.82	0.61 1.61		1	18 18	0.50 0.30	8.07 6.25	4.56 3.54	Pipe Pipe	7.46 4.64
J4 J5	J6	J3+J4+J5	0.48	0.28	230	22.4 23.8	+ 1				23.8 24.6	23.8 24.9	5.69	2.60		1	18	0.30	6.25 6.25	3.54 3.54	Pipe	4.04 3.65
J6	JB2	J3+J4+J5+J6	1.20	0.69	262	24.9	+ 26		· · ·		25.3	26.1	5.56	3.84		1	24	0.30	13.46	4.28	Pipe	9.62
J7	JB1	J7	0.46	0.26	24		+ 2	4 / 4.	3 (60)=	0.1	23.7	23.7	5.83	1.54		1	24	2.00	34.74	11.06	Pipe	33.21
J8	JB2	J8	0.26	0.15	24		+ 2	4 / 11	1 (60)=	0.0	22.9	22.9	5.92	0.90		1	24	1.25	27.47	8.74	Pipe	26.57
JB2	OUT	J1->J8	2.94	1.69	240	22.9	+ 24	0 / 8.	7 (60)=	23.4	27.1	27.1	5.46	9.24		1	30	0.19	19.42	3.96	Pipe	10.18
K2	JB3	K2	0.44	0.25	46		+ 4	6 / 1.	5 (60)=	0.5	23.6	23.6	5.84	1.47								
K2 K3			0.44	0.23	40 46		+ 4		· · ·		23.0 22.2	23.0	5.84 6.01	0.53								
JB3		K2+K3	0.59	0.34	46 46	22.2	+ 4				24.1	24.1	5.78	1.97		1	24	0.30	13.46	4.28	Pipe	11.49
									. ,												-	
L1	Out		0.37	0.21	118		+ 1'		· · ·		23.4	23.4	5.87	1.25		1	18	0.12	3.95	2.24	Pipe	2.70
L2	Out		0.85	0.49	118 119			8 / 1.			24.7	24.7	5.71	2.81		1	15 19	0.10	2.22	1.81 2.66	Pipe	-0.59
L3 L4		L3 L3+L4	0.66 1.02	0.38 0.59	118 257	24.3	+ 1 ⁻ + 2		( )		24.3 25.0	24.3 26.0	5.76 5.57	2.19 3.27		2 2	18 18	0.17 0.21	9.41 10.45	2.66 2.96	Pipe Pipe	7.21 7.19
L4 L5		L3+L4+L5	1.56	0.90	381	24.3 26.0	+ 38		~ /		25.8	20.0 28.6	5.32	4.77		- 1	24	0.21	10.43	2.90 3.50	Pipe	6.22
									× /													

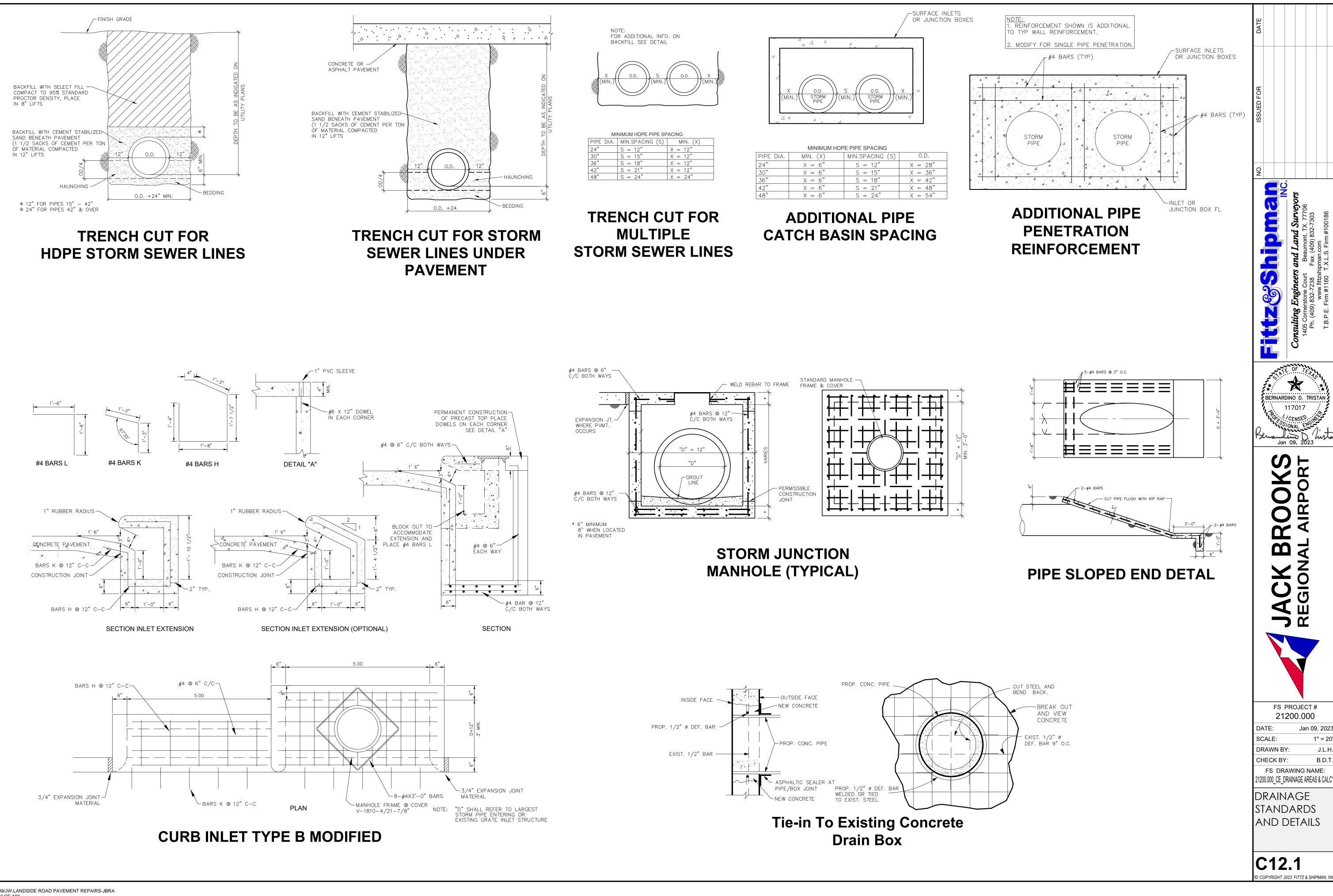
									Jefferson	Co	Freq =	10						n=	0.013	RCP pipe			
								۸ +		00.	•			l-b/(t, d)o									
								Al	las 14 Zone 1			= 88.32 = 13.43		I=b/(t+d)e Tc=10A .1	761+15				0.012 0.030	HDPE pipe earth ditch			
									2019			= 0.752			1701-15			11-	PIPE	Cartin ulteri			
			TOTAL	TOTAL		<b>T</b> ' ( 0					_												
EDOM	то	Drainaga Araga	TOTAL	TOTAL		Time of Co						Inlat	llood in	I	Freq =		No	Die	DESIGN	Can		REMARK	
FROM NO.	ТО	Drainage Areas	DA (Ac.)	CA	LNGTH (ft.)	Along se		ne				Inlet Time	Used in Design	ı (in/hr)	Q (cfs)		No. (#)	Dia. (in.)	Slope %	Cap. (cfs)	Vel. (ft/sec)		+/- ∧ Q
NO.			(70.)		(11.)							TITIC	Design	(""")	(03)		(#)	()	70	(03)	(11/300)		ΛQ
	4.0	A.4	2.05	4 74	400	40.0		400	1 1 00	(00)-	40.00	07.00	07.00		0.04		0	04	0.00	20.00	2 50	Dina	40.04
A1 A2	A2 N. Ditch	A1 A1+A2	2.85 4.62	1.71 2.77	482 471	10.0 27.0		482 482	/ 1.00 / 3.50	(60)= (60)=	18.03 29.32	27.02 28.09	27.02 29.32	5.47 5.24	9.34 14.54		2 2	24 24	0.20 0.25	20.28 22.68	3.50 3.91	Pipe Pipe	10.94 8.14
D1	N. Ditch		3.56	2.13	780	27.0		402	/ 3.91	(60)=	31.33	27.50	31.33	5.07	14.34		2	24 24	0.20	22.00	3.50	Pipe	9.47
			0.00	2.10	100	20.0		., .	/ 0.01	(00)	01.00	21.00	01.00	0.07	10.01		2	21	0.20	20.20	0.00	1 ipo	0.17
B1	B2	B1	4.86	2.92	580	10.0	+	580	/ 1.00	(60)=	19.67	28.21	28.21	5.35	15.60		3	18	0.30	17.30	3.54	Pipe	1.70
B2	B4	B1+B2	9.67	5.80	615	28.2	+	580	/ 3.54	(60)=	30.95	29.91	30.95	5.10	29.57		3	18	0.30	17.30	3.54	Pipe	-12.27
B4	B3	B1+B2+B4	11.40	6.84	260	30.9	+	615	/ 3.54	(60)=	33.84	30.35	33.84	4.86	33.26		3	18	0.30	17.30	3.54	Pipe	-15.96
B3	E1	B1+B2+B3+B4	12.27	7.36	290	33.8	+	260	/ 3.54	(60)=	35.07	30.55	35.07	4.77	35.11		2	24	0.30	24.84	4.28	Pipe	-10.27
04	00	04	2.02	4.00	005	40.0		005	1 4 00	(00)	44.40	07.40	07.40	F 4F	0.00		0	40	0.00	0.40	0.00	Disc	0.50
C1 C2	C2	C1 C1+C2	3.03 5.13	1.82 3.08	265 687	10.0 27.2		265 265	/ 1.00	(60)= (60)=	14.42 28.69	27.16 28.34	27.16 28.69	5.45 5.30	9.92 16.31		2	18 24	0.20 0.20	9.42 20.28	2.89 3.50	Pipe Pipe	-0.50 3.97
D2	E1	C1+C2 C1+C2+D2	7.42	3.08 4.45	575	27.2		205 687	/ 2.89 / 3.50	(60)=	28.09 31.96	20.34 29.23	28.09 31.96	5.01	22.32		2	24 18	0.20	11.53	3.50	Pipe	-10.78
E1	Pipe 1	C1+C2+D2+E1	12.51	7.51	200	32.0		575	/ 3.54	(60)=	34.67	30.60	34.67	4.80	36.03		2	18	1.20	23.07	7.07	Pipe	-12.96
								••••	,	(	••						2	18	0.30	11.53	3.54	Pipe	
																				34.60			-1.42
																	٦	RAPEZ	OIDAL DITC	CH DESIGN			
																SS	Wb	d	Slope	Cap.	Vel.		
																(l/h)	(ft.)	(ft.)	%	(cfs)	(ft/sec)		ΛQ
EQ Ditch		B1+B2+B4+C1	14.44	8.66	290	33.8	+	260	/ 3.54	(60)=	35.07	10.00	35.07	4.77	41.31	4.0	4.0	3.0	0.10	106.14	2.21	Ditch	64.84
EQ Ditch ML DITCI		B1->B4+C1+C2+E1 ML1	22.49 42.60	13.50 26.16	506 1270	21.2 34.7	+	41 1270	/ 2.70 / 7.07	(60)= (60)=	21.46	10.00	21.46 37.67	6.11 4.59	82.44 119.96	4.0	4.0	3.0 2.0	0.10 0.10	106.14	2.21 2.21	Ditch Ditch	23.71
	1		43.60	26.16	1270	34.7	+	1270	/ /.0/	(00)-	37.67	10.00	57.07	4.59	119.90	4.0	4.0	3.0	0.10	106.14	2.21	Ditch	-13.81
H1	H2	H1	0.06	0.05	42		+	42	/ 1.5	(60)=	0.5	21.0	21.0	6.17	0.31		1	12	0.30	2.12	2.70	Pipe	1.81
H2	H4	H1+H2	0.15	0.13	137	21.0	+	137	/ 2.7	(60)=	21.9	22.1	22.1	6.02	0.79		1	15	0.30	3.84	3.13	Pipe	3.05
H3	H4	H3	0.09	0.08	41		+	41	/ 1.5	(60)=	0.5	21.5	21.5	6.10	0.48		1	12	0.30	2.12	2.70	Pipe	1.64
H4	H6	H1->H4	0.37	0.34	195	21.5	+	195	/ 3.1	(60)=	22.5	23.4	23.4	5.86	1.97		1	15	0.30	3.84	3.13	Pipe	1.87
H5	H6	H5	0.07	0.06	41	<u> </u>	+	41	/ 1.5	(60)=	0.5	21.2	21.2	6.14	0.37		1	12	0.30	2.12	2.70	Pipe	1.75
H6	H7	H1->H6	0.55	0.49	59 70	23.4	+	195	/ 3.1	(60)=	24.4	24.0	24.4	5.74	2.84		1	18	0.30	6.25	3.54	Pipe	3.41
H7 H8	H9 H9	H1->H7 H8	0.61 0.10	0.55 0.09	79 41	21.2	+	41 41	/ 2.7 / 1.5	(60)= (60)=	21.5 0.5	24.2 21.7	24.2 21.7	5.78 6.08	3.17 0.55		1	18 12	0.30 0.30	6.25 2.12	3.54 2.70	Pipe Pipe	3.08 1.57
H9		H1->H9	0.10	0.73	165	24.2	+	79	/ 1.5	(60)=	0.5 24.5	24.6	24.6	5.72	4.19		1	24	0.30	13.46	4.28	Pipe	9.26
H10	H11	H10	0.08	0.07	41	<i>L</i> 1. <i>L</i>	+	41	/ 1.5	(60)=	0.5	21.4	21.4	6.12	0.44		1	12	0.30	2.12	2.70	Pipe	1.68
H11	H12	H1->H11	1.02	0.92	140	24.6	+	165	/ 4.3	(60)=	25.3	25.0	25.3	5.65	5.21		1	24	0.30	13.46	4.28	Pipe	8.25
H12	H13	H1->H12	1.09	0.98	41	21.4	+	41	/ 2.7	(60)=	21.7	25.2	25.2	5.66	5.57		1	24	0.30	13.46	4.28	Pipe	7.89
H13	OUT	H1->H13	1.15	1.03	95	25.3	+	140	/ 4.3	(60)=	25.8	25.2	25.8	5.59	5.78		1	24	0.30	13.46	4.28	Pipe	7.67
																	_						
																22			OIDAL DITC		Vol		
																SS (l/h)	Wb (ft.)	a (ft.)	Slope %	Cap. (cfs)	Vel. (ft/sec)		
J1	J2	J2	0.48	0.28	332		+	332	/ 1.5	(60)=	3.7	23.8	23.8	5.82	1.61	3.0	2.0	3.0	0.20	99.2	3.0	Ditch	97.56
J2	JB1	J1+J2	1.02	0.59	368	23.8		368	/ 3.0	(60)=	25.8	25.0	25.8	5.59	3.27	3.0	2.0	3.0	0.20	99.2	3.0	Ditch	95.90
JB1	Out	J1+J2	1.02	0.59	24	25.8	+	24	/ 3.0	(60)=	26.0	25.0	26.0	5.58	3.27		1	24	2.00	34.74	11.06	Pipe	31.48
J3	J4	J3	0.18	0.10	36		+	36	/ 1.5	(60)=	0.4	22.4	22.4	5.99	0.61		1	18	0.50	8.07	4.56	Pipe	7.46
J4	J5	J3+J4	0.48	0.28	118	22.4	+	118	/ 4.6	(60)=	22.8	23.8	23.8	5.82	1.61		1	18	0.30	6.25	3.54	Pipe	4.64
J5	J6	J3+J4+J5	0.79	0.46	230	23.8		230	/ 3.5	(60)=	24.9	24.6	24.9	5.69	2.60		1	18	0.30	6.25	3.54	Pipe	3.65
J6	JB2	J3+J4+J5+J6	1.20	0.69	262	24.9		262	/ 3.5	(60)=	26.1	25.3	26.1	5.56	3.84		1	24	0.30	13.46	4.28	Pipe	9.62
J7	JB1 JB2	J7	0.46	0.26	24		+	24 24	/ 4.3 / 11.1	(60)=	0.1	23.7	23.7	5.83	1.54		1	24	2.00	34.74	11.06 9.74	Pipe	33.21
J8 JB2	OUT	J8 J1->J8	0.26 2.94	0.15 1.69	24 240	22.9	++	24 240	/ 11.1	(60)= (60)=	0.0 23.4	22.9 27.1	22.9 27.1	5.92 5.46	0.90 9.24		1	24 30	1.25 0.19	27.47 19.42	8.74 3.96	Pipe Pipe	26.57 10.18
502			2.07	1.00	270	<i>LL</i> .J	•	<u>~</u> 70	, 0.1	(00)-	20.4	£1.1	£1.1	0.70	0.27		·	00	0.10	10.72	0.00	i ipe	10.10
K2	JB3	K2	0.44	0.25	46		+	46	/ 1.5	(60)=	0.5	23.6	23.6	5.84	1.47								
K3	JB3	K3	0.15	0.09	46		+	46	/ 1.5	(60)=	0.5	22.2	22.2	6.01	0.53								
JB3	OUT	K2+K3	0.59	0.34	46	22.2	+	46	/ 2.5	(60)=	22.5	24.1	24.1	5.78	1.97		1	24	0.30	13.46	4.28	Pipe	11.49
	_			_				, .					-	_						_	-	_	_
L1		L1	0.37	0.21	118				/ 1.5	(60)=	1.3	23.4	23.4	5.87	1.25		1	18	0.12	3.95	2.24	Pipe	2.70
L2	Out		0.85	0.49	118 119				/ 1.5	(60)=	1.3	24.7	24.7	5.71	2.81		1	15 19	0.10	2.22	1.81	Pipe	-0.59
L3 L4		L3 L3+L4	0.66 1.02	0.38 0.59	118 257	24.3		118 257	/ 1.5 / 2.5	(60)= (60)=	1.3 26.0	24.3 25.0	24.3 26.0	5.76 5.57	2.19 3.27		2 2	18 18	0.17 0.21	9.41 10.45	2.66 2.96	Pipe Pipe	7.21 7.19
L4 L5		L3+L4 L3+L4+L5	1.02	0.90	381	24.3 26.0		381	/ 2.5	(60)=	20.0 28.6	25.0 25.8	20.0 28.6	5.32	3.27 4.77		<u>د</u> 1	24	0.21	10.45	2.90 3.50	Pipe	6.22
_~				2.00		_0.0				()	_0.0		_0.0	2. <b>2</b> E			•				2.00		

									Jeffersor	Co.	Freq =	10					n	= 0.013	RCP pipe			
								At	las 14		b=	= 88.32		I=b/(t+d)e			n	= 0.012	HDPE pipe	е		
									Zone	1		= 13.43		Tc=10A .1	761+15		n	= 0.030	earth ditch	I		
									2019		e=	= 0.752						PIPE				
			TOTAL	TOTAL		Time of Co									Freq =			DESIGN			REMARK	
FROM	ТО	Drainage Areas	DA (Ac)	CA		Along s	ewer lin	ne				Inlet	Used in	(in /hr)	Q (cfa)	No.		Slope	Cap.	Vel.		+/-
NO.			(Ac.)		(ft.)							Time	Design	(in/hr)	(cfs)	(#)	(in.)	%	(cfs)	(ft/sec)		ΛQ
A1	A2	A1	2.85	1.71	482	10.0	+	482	/ 1.00	(60)=	18.03	27.02	27.02	5.47	9.34	2	24	0.20	20.28	3.50	Pipe	10.94
A2		A1+A2	4.62	2.77	471	27.0		482	/ 3.50	(60)=	29.32	28.09	29.32	5.24	14.54	2		0.25	20.20	3.91	Pipe	8.14
D1	N. Ditch		3.56	2.13	780	29.3		471	/ 3.91	(60)=	31.33	27.50	31.33	5.07	10.81	2		0.20	20.28	3.50	Pipe	9.47
																					·	
B1	B2	B1	4.86	2.92	580	10.0		580	/ 1.00	(60)=	19.67	28.21	28.21	5.35	15.60	3	18	0.30	17.30	3.54	Pipe	1.70
B2	B4	B1+B2	9.67	5.80	615	28.2		580	/ 3.54	(60)=	30.95	29.91	30.95	5.10	29.57	3	18	0.30	17.30	3.54	Pipe Din e	-12.27
B4 B3	B3 F1	B1+B2+B4 B1+B2+B3+B4	11.40 12.27	6.84 7.36	260 290	30.9 33.8		615 260	/ 3.54 / 3.54	(60)= (60)=	33.84 35.07	30.35 30.55	33.84 35.07	4.86 4.77	33.26 35.11	3	18 24	0.30 0.30	17.30 24.84	3.54 4.28	Pipe Pipe	-15.96 -10.27
00			12.21	1.00	230	00.0	•	200	/ 0.04	(00)-	55.07	00.00	00.07	4.77	00.11	Z	27	0.00	24.04	4.20	Трс	-10.27
C1	C2	C1	3.03	1.82	265	10.0	+	265	/ 1.00	(60)=	14.42	27.16	27.16	5.45	9.92	2	18	0.20	9.42	2.89	Pipe	-0.50
C2	D2	C1+C2	5.13	3.08	687	27.2	+	265	/ 2.89	(60)=	28.69	28.34	28.69	5.30	16.31	2	24	0.20	20.28	3.50	Pipe	3.97
D2	E1	C1+C2+D2	7.42	4.45	575	28.7		687	/ 3.50	(60)=	31.96	29.23	31.96	5.01	22.32	2	18	0.30	11.53	3.54	Pipe	-10.78
E1	Pipe 1	C1+C2+D2+E1	12.51	7.51	200	32.0	+	575	/ 3.54	(60)=	34.67	30.60	34.67	4.80	36.03	2		1.20	23.07	7.07	Pipe Din e	-12.96
																2	18	0.30	11.53 34.60	3.54	Pipe	-1.42
																	TRAPEZ					-1.42
																SS Wb		Slope	Cap.	Vel.		
																(l/h) (ft.)	(ft.)	%	(cfs)	(ft/sec)		ΛQ
Q Ditch	1	B1+B2+B4+C1	14.44	8.66	290	33.8	+	260	/ 3.54	(60)=	35.07	10.00	35.07	4.77	41.31	4.0 4.0	3.0	0.10	106.14	2.21	Ditch	64.84
Q Ditch		B1->B4+C1+C2+E1	22.49	13.50	506	21.2		41	/ 2.70	(60)=	21.46	10.00	21.46	6.11	82.44	4.0 4.0		0.10	106.14	2.21	Ditch	23.71
IL DITCI	H	ML1	43.60	26.16	1270	34.7	+ 1	1270	/ 7.07	(60)=	37.67	10.00	37.67	4.59	119.96	4.0 4.0	3.0	0.10	106.14	2.21	Ditch	-13.81
H1	H2	H1	0.06	0.05	42		+	42	/ 1.5	(60)=	0.5	21.0	21.0	6.17	0.31	1	12	0.30	2.12	2.70	Pipe	1.81
H2	H4	H1+H2	0.15	0.13	137	21.0	+ '	137	/ 2.7	(60)=	21.9	22.1	22.1	6.02	0.79	1	15	0.30	3.84	3.13	Pipe	3.05
H3	H4	H3	0.09	0.08	41		+	41	/ 1.5	(60)=	0.5	21.5	21.5	6.10	0.48	1	12	0.30	2.12	2.70	Pipe	1.64
H4	H6	H1->H4	0.37	0.34	195	21.5	+ '	195	/ 3.1	(60)=	22.5	23.4	23.4	5.86	1.97	1	15	0.30	3.84	3.13	Pipe	1.87
H5	H6	H5	0.07	0.06	41	00.4		41	/ 1.5	(60)=	0.5	21.2	21.2	6.14	0.37	1	12	0.30	2.12	2.70	Pipe	1.75
H6 H7	H7 H9	H1->H6 H1->H7	0.55	0.49	59 79	23.4 21.2		195 41	/ 3.1	(60)= (60)=	24.4	24.0 24.2	24.4 24.2	5.74 5.78	2.84 3.17	1	18 18	0.30	6.25 6.25	3.54	Pipe	3.41
п7 Н8	нэ Н9	H8	0.61 0.10	0.55 0.09	79 41	21.2		41 41	/ 2.7 / 1.5	(60)= (60)=	21.5 0.5	24.2 21.7	24.2 21.7	6.08	0.55	1	10	0.30 0.30	6.25 2.12	3.54 2.70	Pipe Pipe	3.08 1.57
H9		H1->H9	0.81	0.73	165	24.2		79	/ 3.5	(60)=	24.5	24.6	24.6	5.72	4.19	1	24	0.30	13.46	4.28	Pipe	9.26
H10	H11	H10	0.08	0.07	41			41	/ 1.5	(60)=	0.5	21.4	21.4	6.12	0.44	1	12	0.30	2.12	2.70	, Pipe	1.68
H11	H12	H1->H11	1.02	0.92	140	24.6	+ '	165	/ 4.3	(60)=	25.3	25.0	25.3	5.65	5.21	1	24	0.30	13.46	4.28	Pipe	8.25
H12	H13	H1->H12	1.09	0.98	41	21.4		41	/ 2.7	(60)=	21.7	25.2	25.2	5.66	5.57	1	24	0.30	13.46	4.28	Pipe	7.89
H13	OUT	H1->H13	1.15	1.03	95	25.3	+ '	140	/ 4.3	(60)=	25.8	25.2	25.8	5.59	5.78	1	24	0.30	13.46	4.28	Pipe	7.67
																	TRAPEZ		H DESIGN			
																SS Wb		Slope	Cap.	Vel.		
																(l/h) (ft.)	(ft.)	%	(cfs)	(ft/sec)		
J1	J2	J2	0.48	0.28	332			332	/ 1.5	(60)=	3.7	23.8	23.8	5.82	1.61	3.0 2.0		0.20	99.2	3.0	Ditch	97.56
J2	JB1	J1+J2	1.02	0.59	368	23.8		368	/ 3.0	(60)=	25.8	25.0	25.8	5.59	3.27	3.0 2.0		0.20	99.2	3.0	Ditch	95.90
JB1 J3	Out J4	J1+J2 J3	1.02 0.18	0.59 0.10	24 36	25.8		24 36	/ 3.0 / 1.5	(60)= (60)=	26.0 0.4	25.0 22.4	26.0 22.4	5.58 5.99	3.27 0.61	1	24 18	2.00 0.50	34.74 8.07	11.06 4.56	Pipe Pipe	31.48 7.46
J4	J4 J5	J3+J4	0.18	0.10	118	22.4		118	/ 1.5	(60)=	22.8	22.4	22.4	5.82	1.61	1	18	0.30	6.25	4.50 3.54	Pipe	4.64
J5	J6	J3+J4+J5	0.79	0.46	230	23.8		230	/ 3.5	(60)=	24.9	24.6	24.9	5.69	2.60	1	18	0.30	6.25	3.54	Pipe	3.65
J6	JB2	J3+J4+J5+J6	1.20	0.69	262	24.9		262	/ 3.5	(60)=	26.1	25.3	26.1	5.56	3.84	1	24	0.30	13.46	4.28	, Pipe	9.62
J7	JB1	J7	0.46	0.26	24		+	24	/ 4.3	(60)=	0.1	23.7	23.7	5.83	1.54	1	24	2.00	34.74	11.06	Pipe	33.21
J8	JB2	J8	0.26	0.15	24			24	/ 11.1	(60)=	0.0	22.9	22.9	5.92	0.90	1	24	1.25	27.47	8.74	Pipe	26.57
JB2	OUT	J1->J8	2.94	1.69	240	22.9	+ 2	240	/ 8.7	(60)=	23.4	27.1	27.1	5.46	9.24	1	30	0.19	19.42	3.96	Pipe	10.18
K2	JB3	K2	0.44	0.25	46		+	46	/ 1.5	(60)=	0.5	23.6	23.6	5.84	1.47							
K3			0.15	0.09	46			46	/ 1.5	(60)=	0.5	22.2	22.2	6.01	0.53							
JB3	OUT		0.59	0.34	46	22.2		46	/ 2.5	(60)=	22.5	24.1	24.1	5.78	1.97	1	24	0.30	13.46	4.28	Pipe	11.49
<b>,</b> .	-		<b>-</b> -	<b>.</b> -					<b>,</b> .		<u> </u>	~ -			<b>.</b>		<u>.</u>			<b>A</b> -	<b>_</b> ·	-
L1		L1	0.37	0.21	118		+ '		/ 1.5	(60)=	1.3	23.4	23.4	5.87	1.25	1	18 15	0.12	3.95	2.24	Pipe Dine	2.70
L2 L3	Out L4	L2 L3	0.85 0.66	0.49 0.38	118 118		+ '		/ 1.5 / 1.5	(60)= (60)=	1.3 1.3	24.7 24.3	24.7 24.3	5.71 5.76	2.81 2.19	1	15 18	0.10 0.17	2.22 9.41	1.81 2.66	Pipe Pipe	-0.59 7.21
L3 L4	L4 L5	L3 L3+L4	1.02	0.58	257	24.3		257	/ 1.5	(60)=	1.3 26.0	24.3 25.0	24.3 26.0	5.70	2.19 3.27	2		0.17	9.41 10.45	2.00	Pipe	7.21
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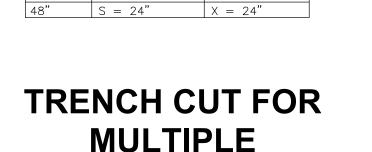
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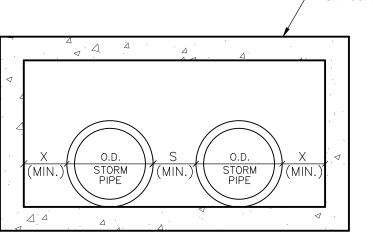
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	Consulting Engineers and J 1405 Cornerstone Court Beau Ph. (409) 832-7238 Fax. (2 www.fittzshipman.c T.B.P.E. Firm #1160 T.X.L.S.
	OF TEHRS
JACK BROOKS	REGIONAL AIRPORT
212 DATE: SCALE: DRAWN BY CHECK BY FS DRA 21200.000_CE_DF JERRY AIRPO DRAIN	B.D.T. AWING NAME: RAINAGE AREAS & CALC'S WARE DR. RT 3rd ST.
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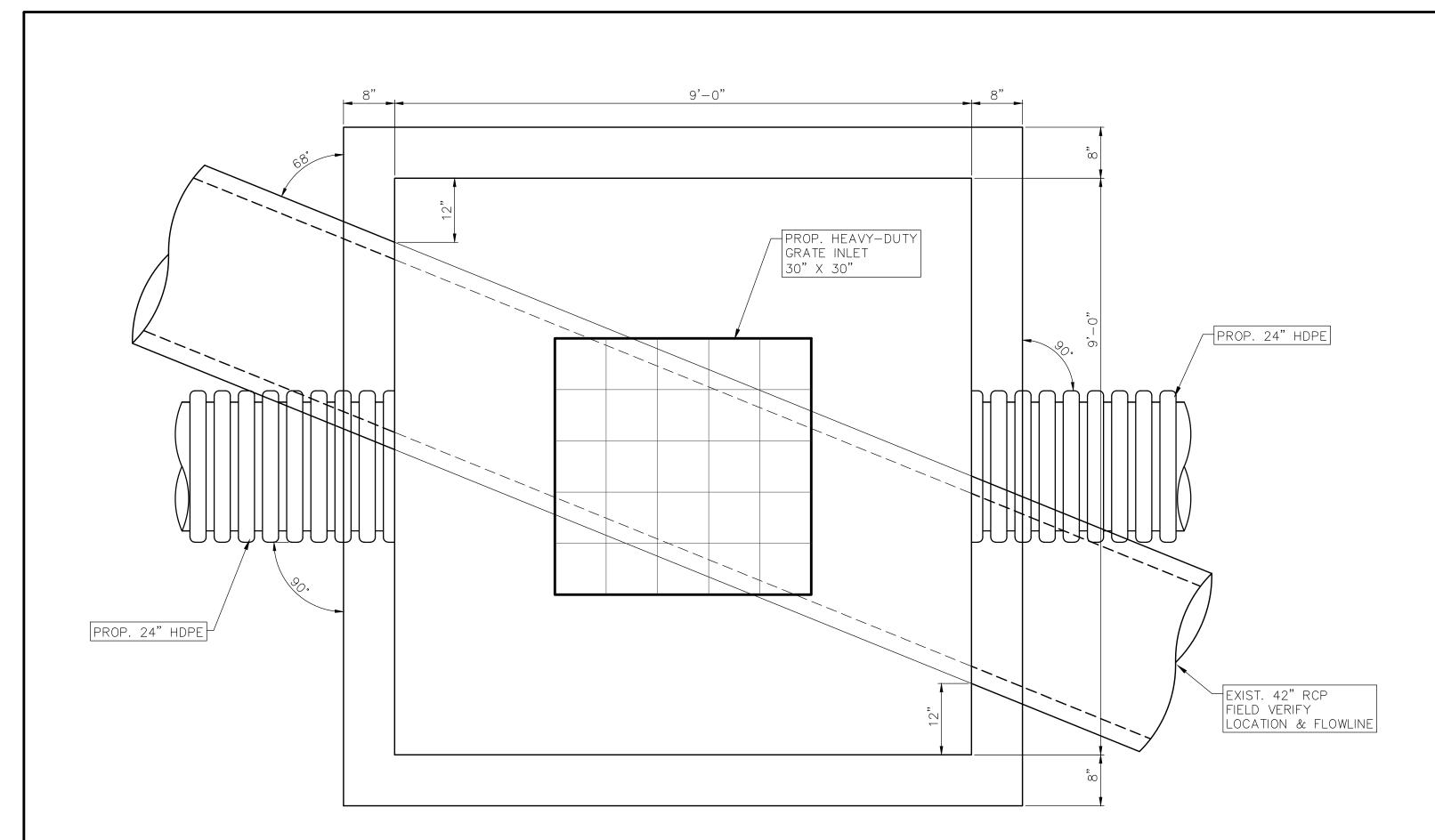


NIMUM HDPE PIPE SP	PACING
MIN.SPACING (S)	MIN. (X)
S = 12"	X = 12"
S = 15"	X = 12"
S = 18"	X = 12"
S = 21"	X = 12"
S = 24"	X = 24"

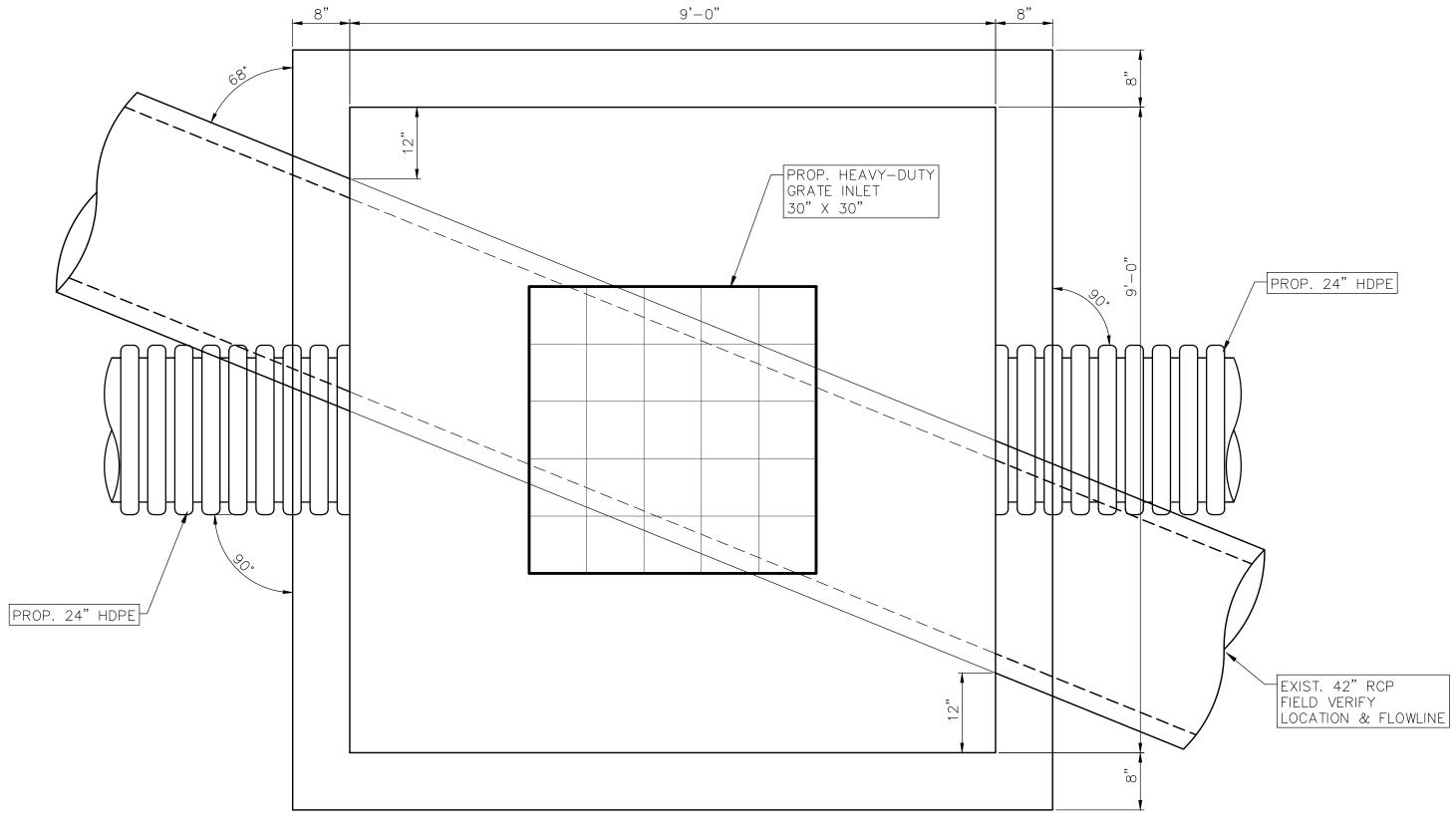




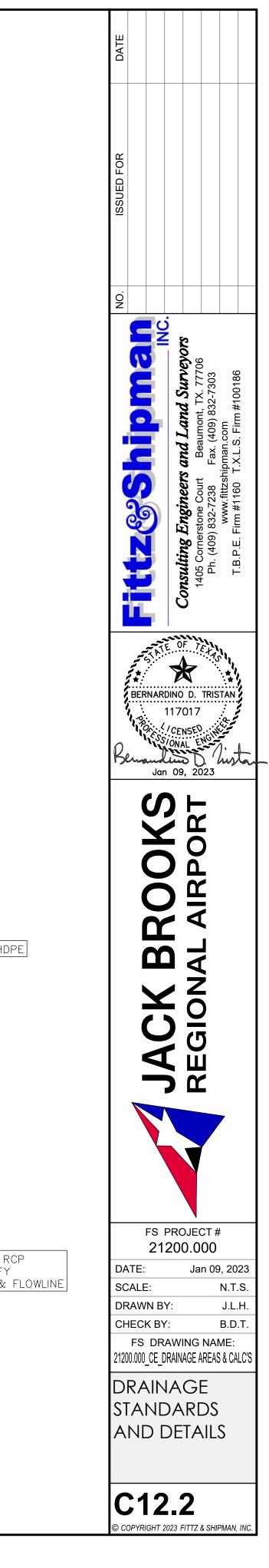
MINIMUM HDPE PIPE SPACING									
PIPE DIA.	MIN. (X)	MIN.SPACING (S)	0.D.						
24"	X = 6"	S = 12"	X = 28"						
30"	X = 6"	S = 15"	X = 36"						
36"	X = 6"	S = 18"	X = 42"						
42"	X = 6"	S = 21"	X = 48"						
48"	X = 6"	S = 24"	X = 54"						

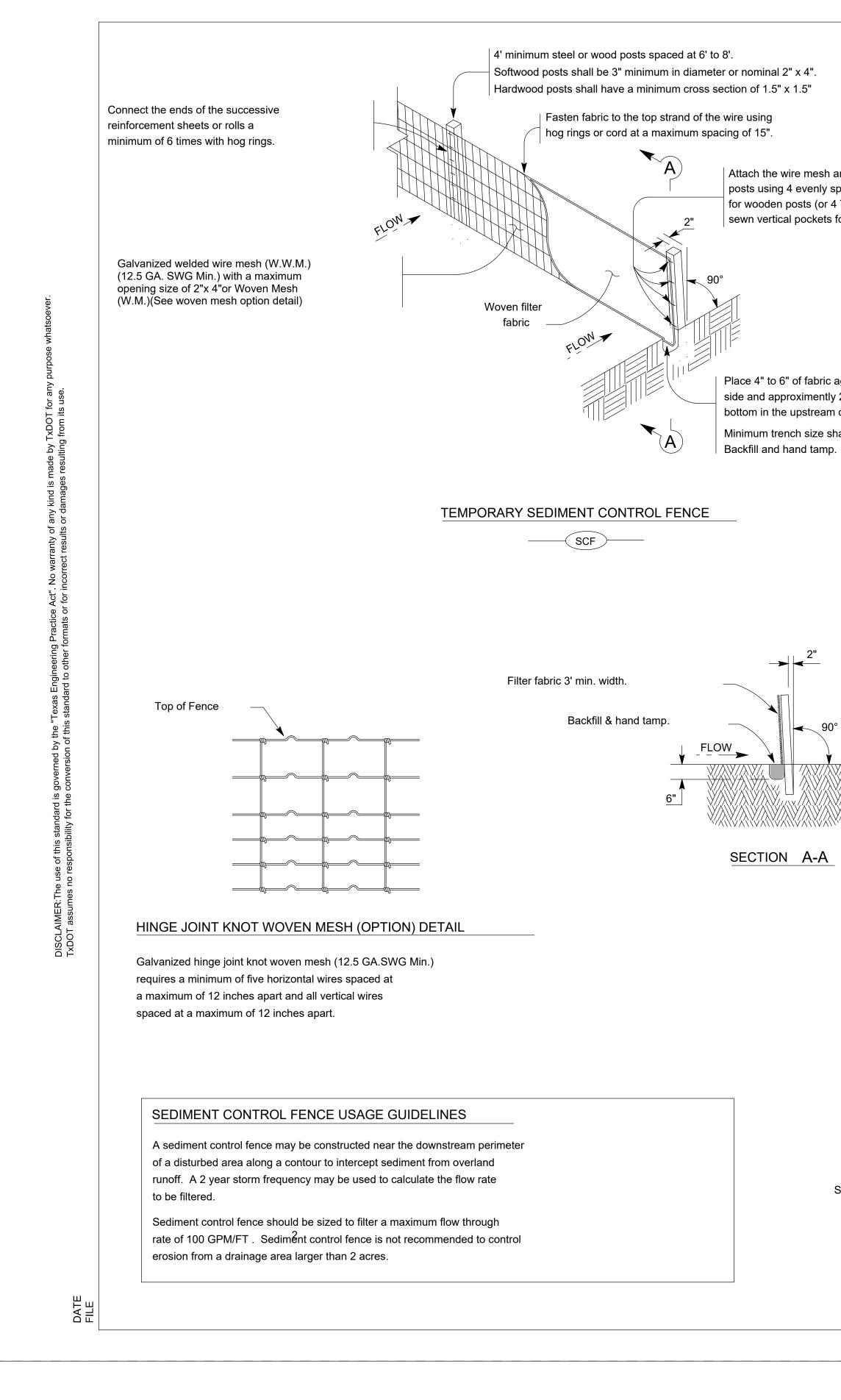


# STORM JUNCTION MANHOLE 3rd STREET STA. 15+89 (L)



# STORM JUNCTION MANHOLE 3rd STREET STA. 17+25 (R)





Attach the wire mesh and fabric on end posts using 4 evenly spaced staples for wooden posts (or 4 T-Clips or sewn vertical pockets for steel posts).

Place 4" to 6" of fabric against the trench side and approximently 2" across the trench bottom in the upstream direction.

Minimum trench size shall be 6" square.

Embed posts 18" min. 90 or Anchor if in rock.

LEGEND

Sediment Control Fence

### GENERAL NOTES

S

r O P Fr

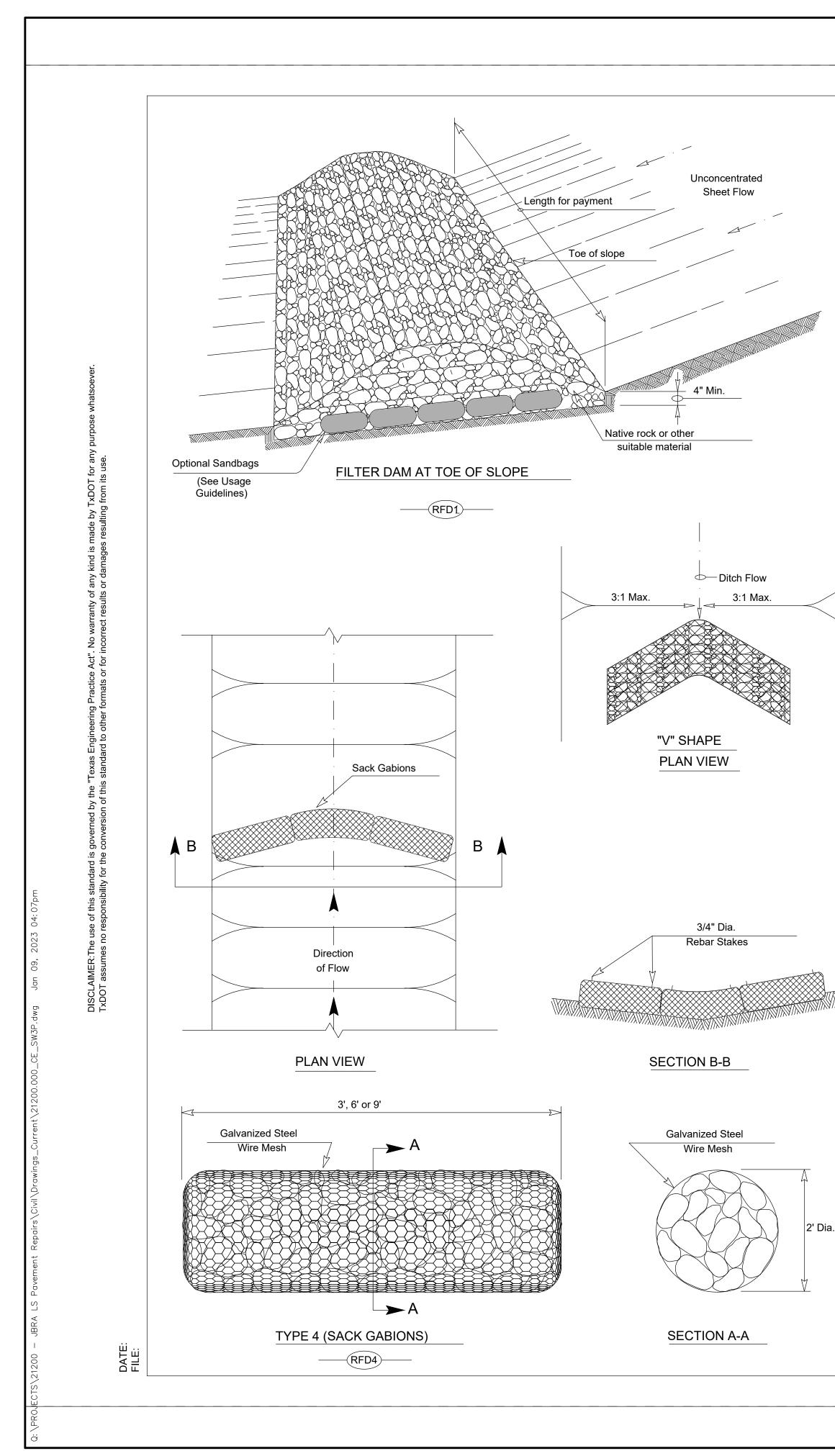
1. Vertical tracking is required on projects where soil distributing activities have of unless otherwise approved.

- 2. Perform vertical tracking on slopes to temporarily stabilize soil.
- 3. Provide equipment with a track undercarriage capable of producing linear soi measuring a minimum of 12" in length by 2" to 4" in width by 1/2" to 2" in depth
- 4. Do not exceed 12" between track impressions.
- 5. Install continous linear track impressions where the minimum 12" length impre perpendicular to the slope or direction of water flow.

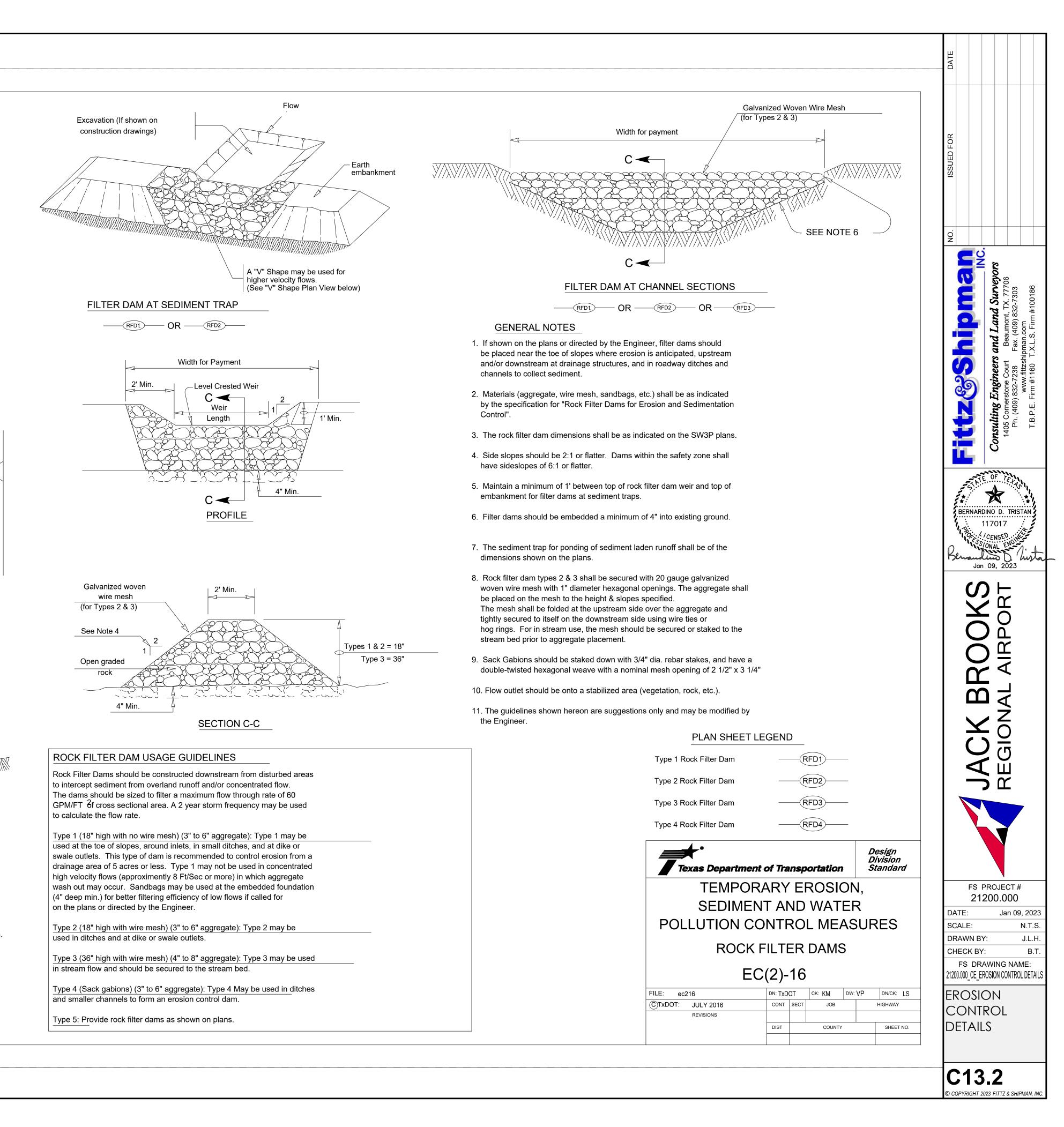
Dozer tracks create track imprints parallel to the slope contour.

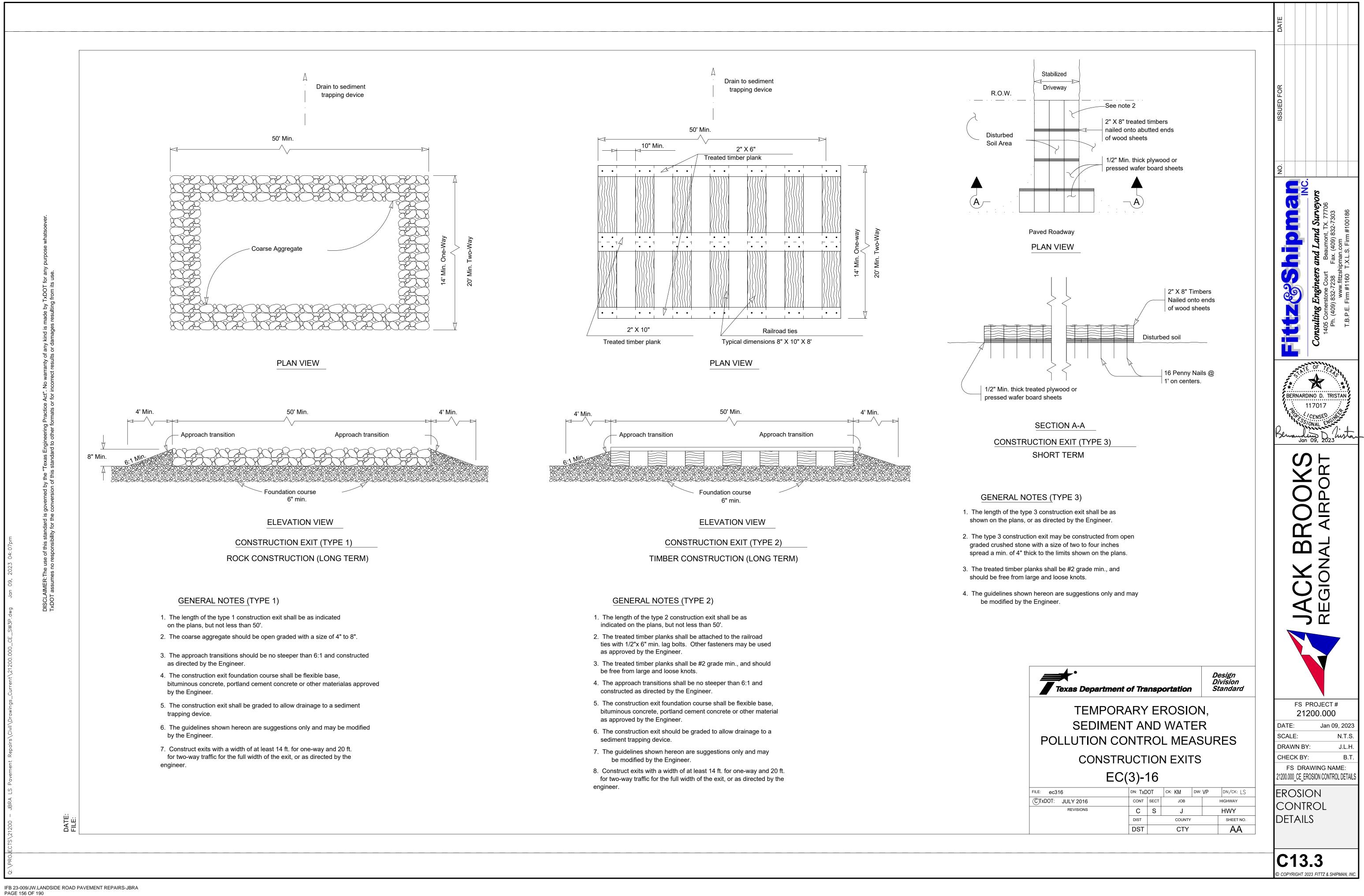
VERTICAL TRACKING

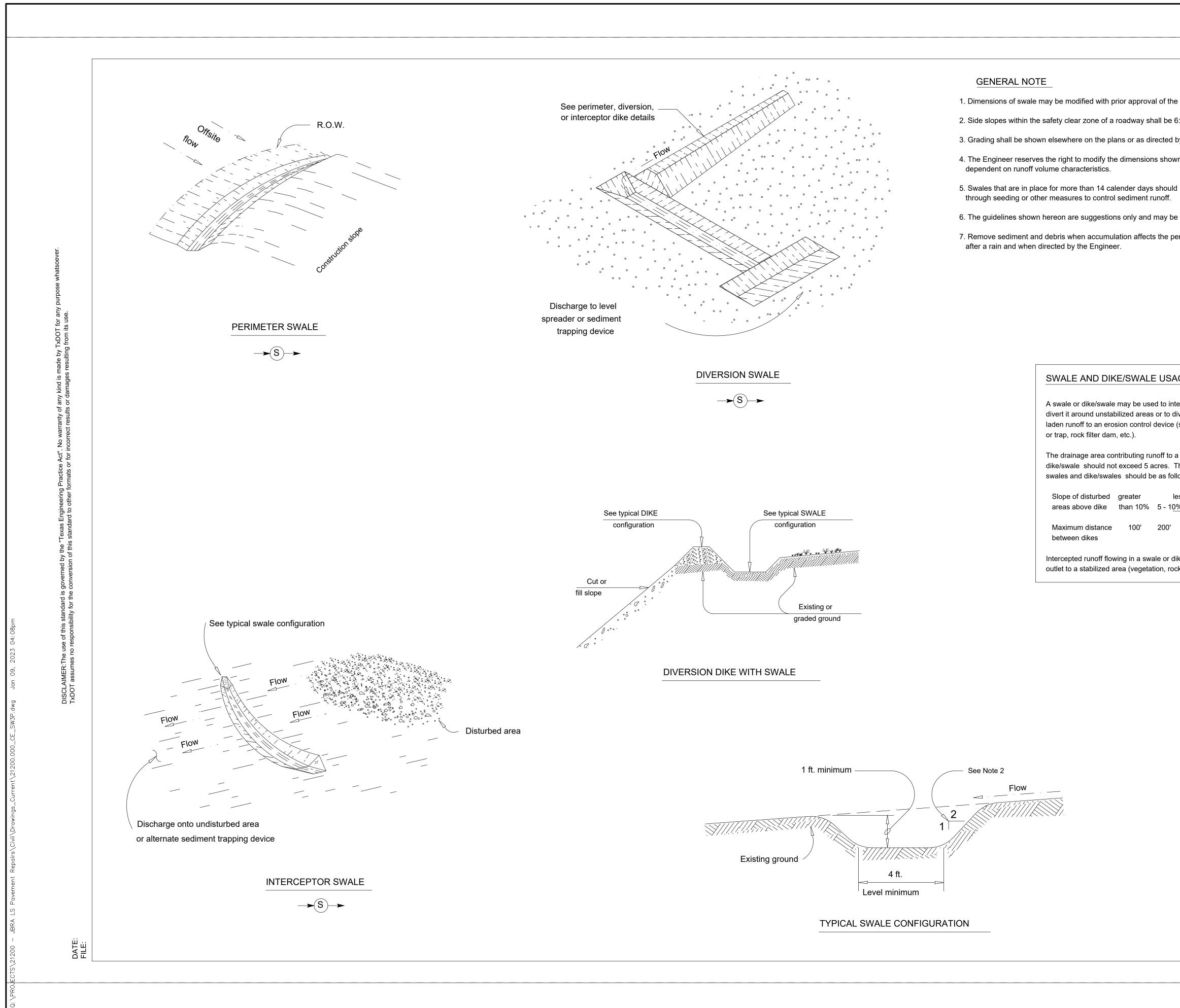
	BATE
ere soil distributing activities have occurred	ISSUED FOR
porarily stabilize soil.	
age capable of producing linear soil impressions to 4" in width by 1/2" to 2" in depth.	
ons.	9 9
ERTICAL TRACKING	SCALE: N.T.S. DRAWN BY: J.L.H. CHECK BY: B.T. FS DRAWING NAME: 21200.000 DATE: Jan 09, 2023 SCALE: N.T.S. DRAWN BY: J.L.H. CHECK BY: B.T. FS DRAWING NAME: 21200.000 DATE: N.T.S. DRAWN BY: J.L.H. CHECK BY: B.T. FS DRAWING NAME: 200000 CE FROSION CONTROL DETAILS
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- 1. Dimensions of swale may be modified with prior approval of the
- 2. Side slopes within the safety clear zone of a roadway shall be 6
- 3. Grading shall be shown elsewhere on the plans or as directed b
- 4. The Engineer reserves the right to modify the dimensions shown dependent on runoff volume characteristics.
- 5. Swales that are in place for more than 14 calender days should through seeding or other measures to control sediment runoff.
- 6. The guidelines shown hereon are suggestions only and may be
- 7. Remove sediment and debris when accumulation affects the pe after a rain and when directed by the Engineer.

### SWALE AND DIKE/SWALE USA

A swale or dike/swale may be used to inte divert it around unstabilized areas or to div laden runoff to an erosion control device ( or trap, rock filter dam, etc.).

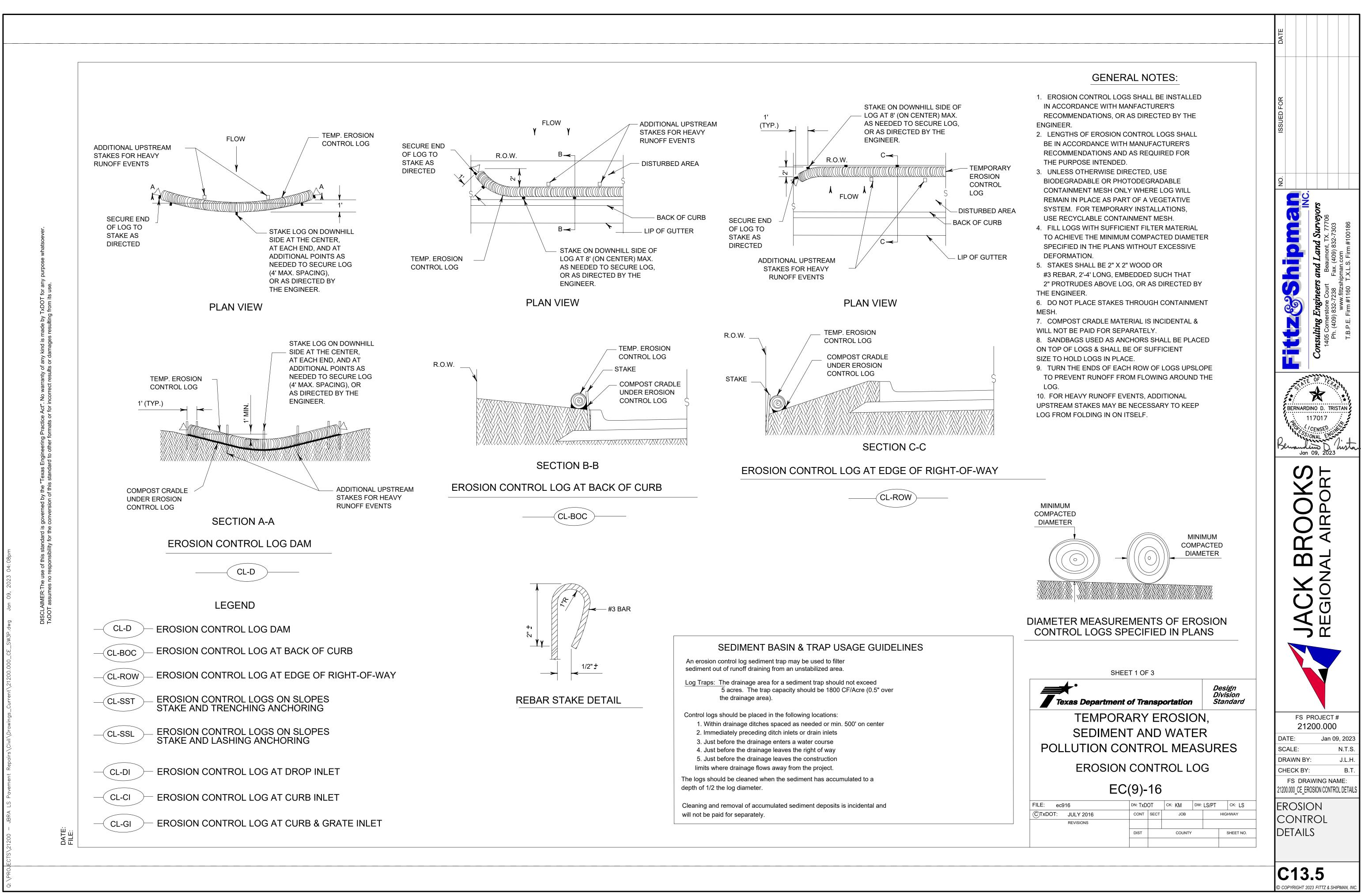
The drainage area contributing runoff to a dike/swale should not exceed 5 acres. swales and dike/swales should be as follo

Slope of disturbed greater

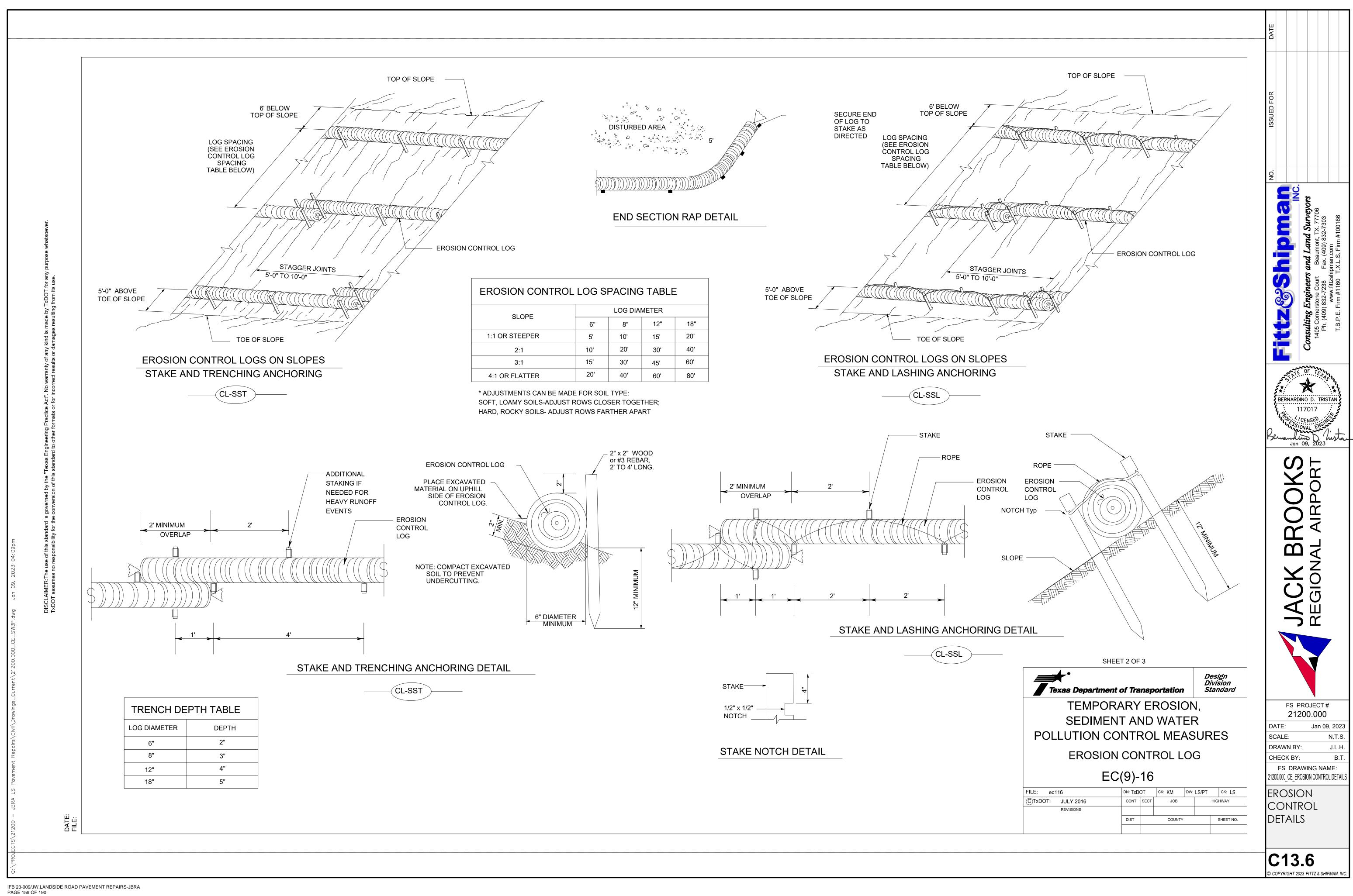
Maximum distance 100' 200'

Intercepted runoff flowing in a swale or dik outlet to a stabilized area (vegetation, rocl

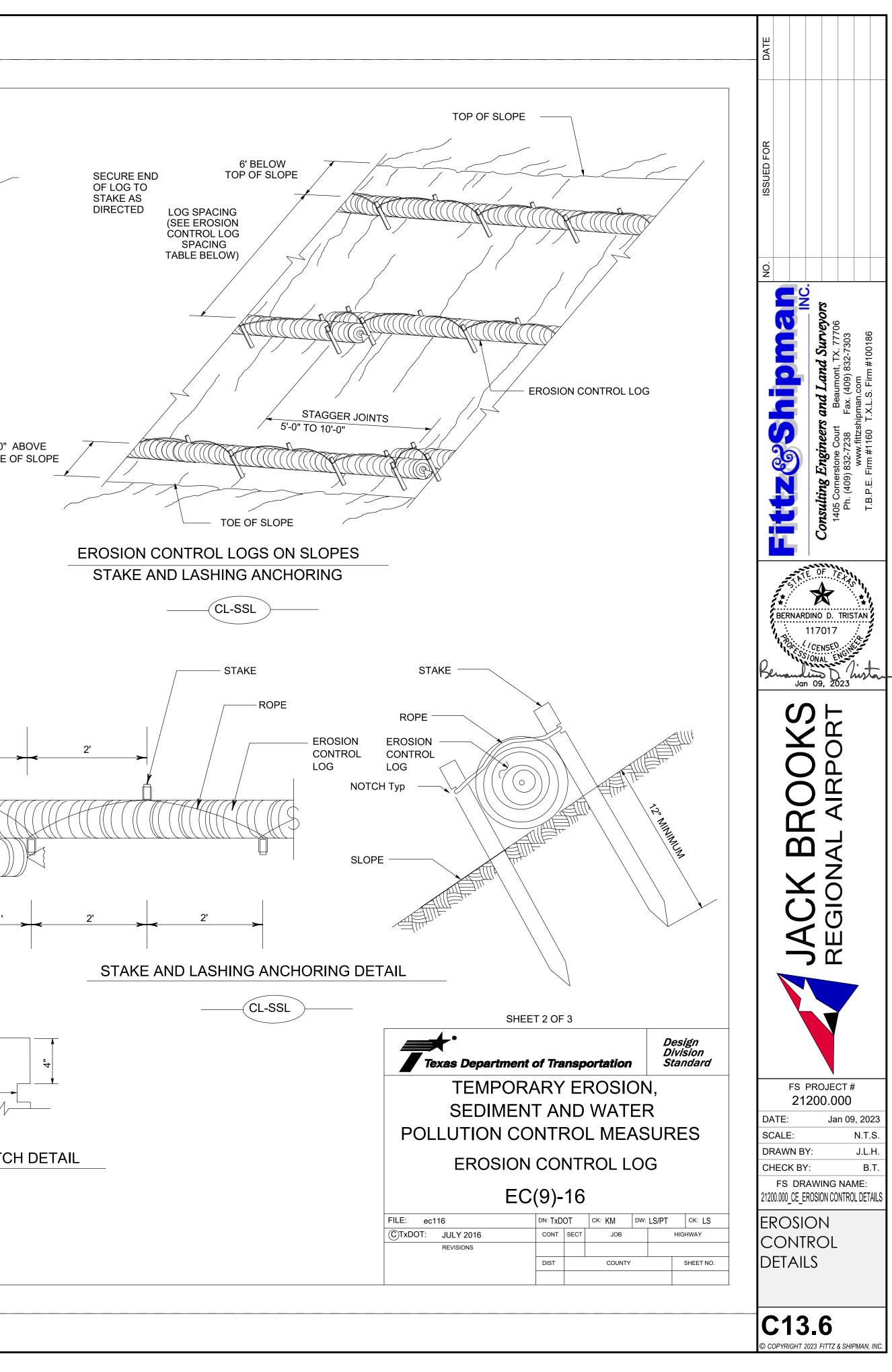
		DATE	
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6:1 or flatter.		ED FOR	
by the Engineer.		ISSUED	
vn for the swale			
d be stabilized		ON	
e modified by the Engineer.		4	NC.
erformance of the devices,		bma	<b>S and Land Surveyors</b> Beaumont, TX. 77706 Fax. (409) 832-7303 hipman.com T.X.L.S. Firm #100186
		Shi	B Ea ipma T.X.I
		e e	<b>asulting Engineer</b> 1405 Cornerstone Court Ph. (409) 832-7238 www.fittzs T.B.P.E. Firm #1160
			<b>Consulting Engineers</b> 1405 Cornerstone Court Ph. (409) 832-7238 www.fittzsh T.B.P.E. Firm #1160
tercept runoff and livert sediment (sediment basin			TE OF TELL
a swale or The spacing of llows:		BERNA	ARDINO D. TRISTAN 117017
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PLAN SHEET LEGEND			) m
SWALE			<b>L</b> m
DIKE → D→			
	Design Division		
	tion Standard		
TEMPORARY EROS	·		S PROJECT # 1200.000
POLLUTION CONTROL M		DATE: SCALE:	Jan 09, 2023 N.T.S.
SWALES		DRAWN CHECK I	
(EARTHWORK FOR EROSION	CONTROL)	FS D	PRAWING NAME: EROSION CONTROL DETAILS
EC(5)-16	M DW: VP DN/CK: LS	EROS	
CTXDOT:     JULY 2016     CONT     SECT       REVISIONS	JOB HIGHWAY COUNTY SHEET NO.		TROL
		C1:	3 1
			<b>J.4</b> IT 2023 FITTZ & SHIPMAN, INC.

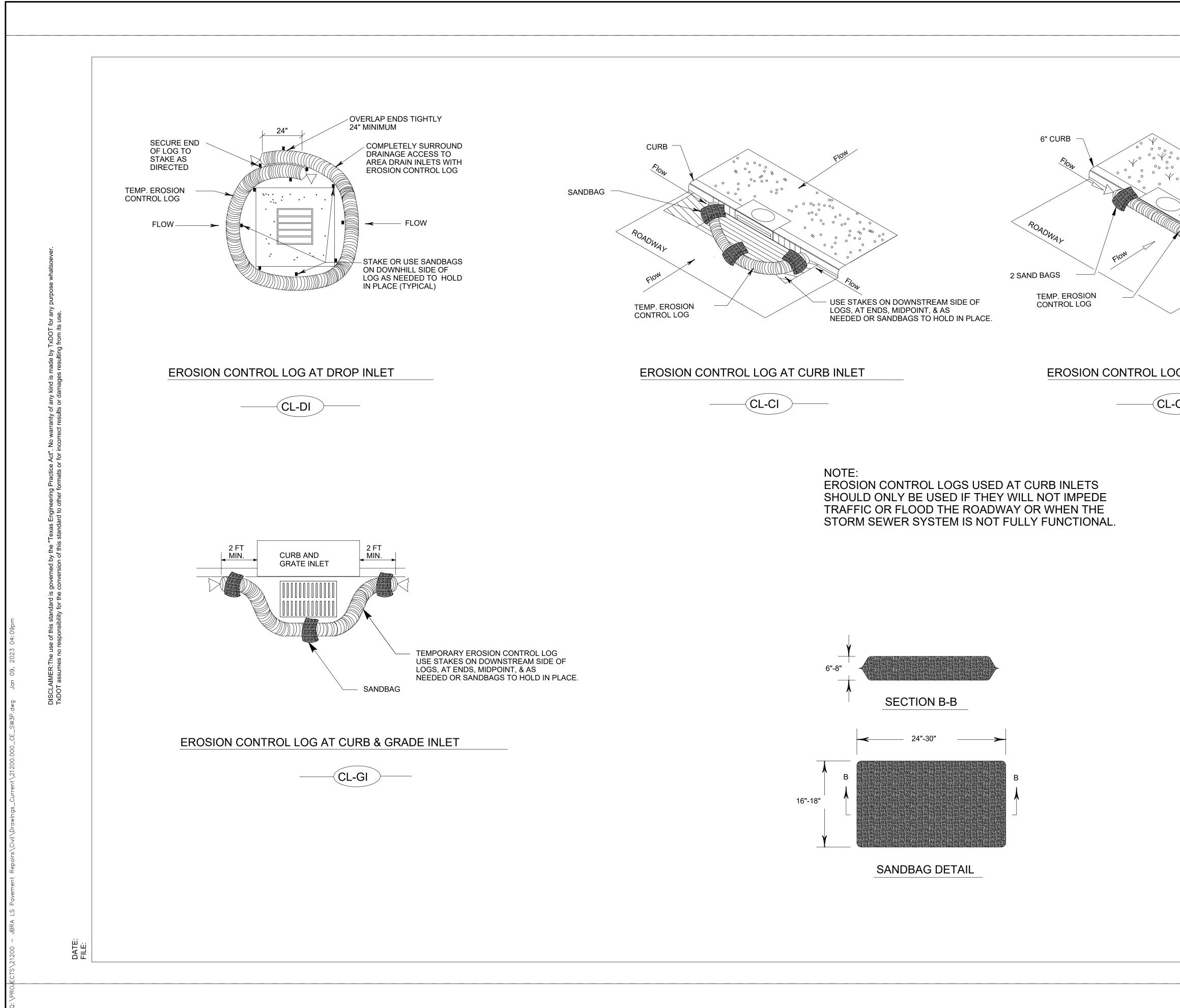


IFB 23-009/JW.LANDSIDE ROAD PAVEMENT REPAIRS-JBRA PAGE 158 OF 190



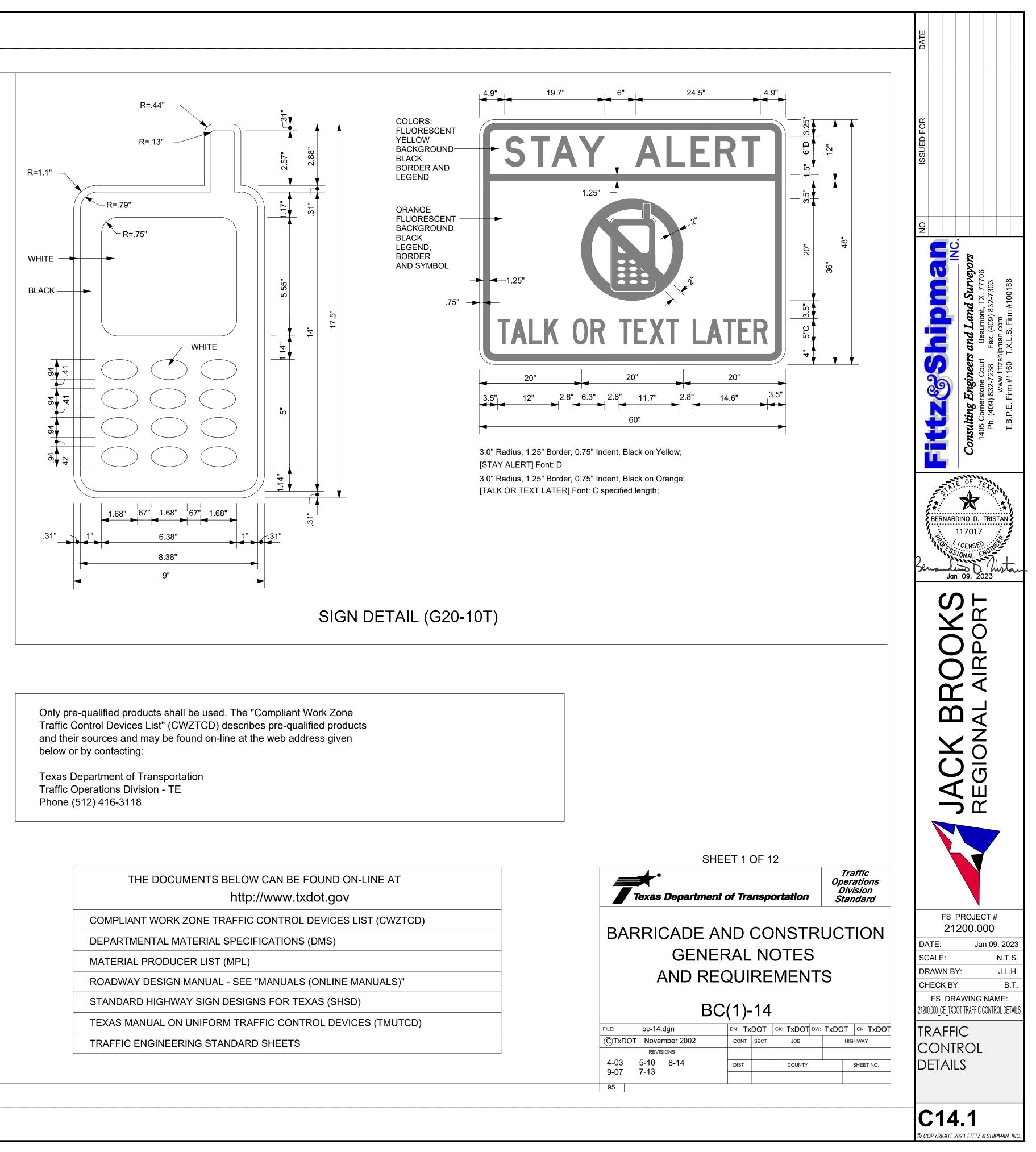
SLOPE		LOG DIAI	METER	
SLOPE	6"	8"	12"	18"
1:1 OR STEEPER	5'	10'	15'	20'
2:1	10'	20'	30'	40'
3:1	15'	30'	45'	60'
4:1 OR FLATTER	20'	40'	60'	80'



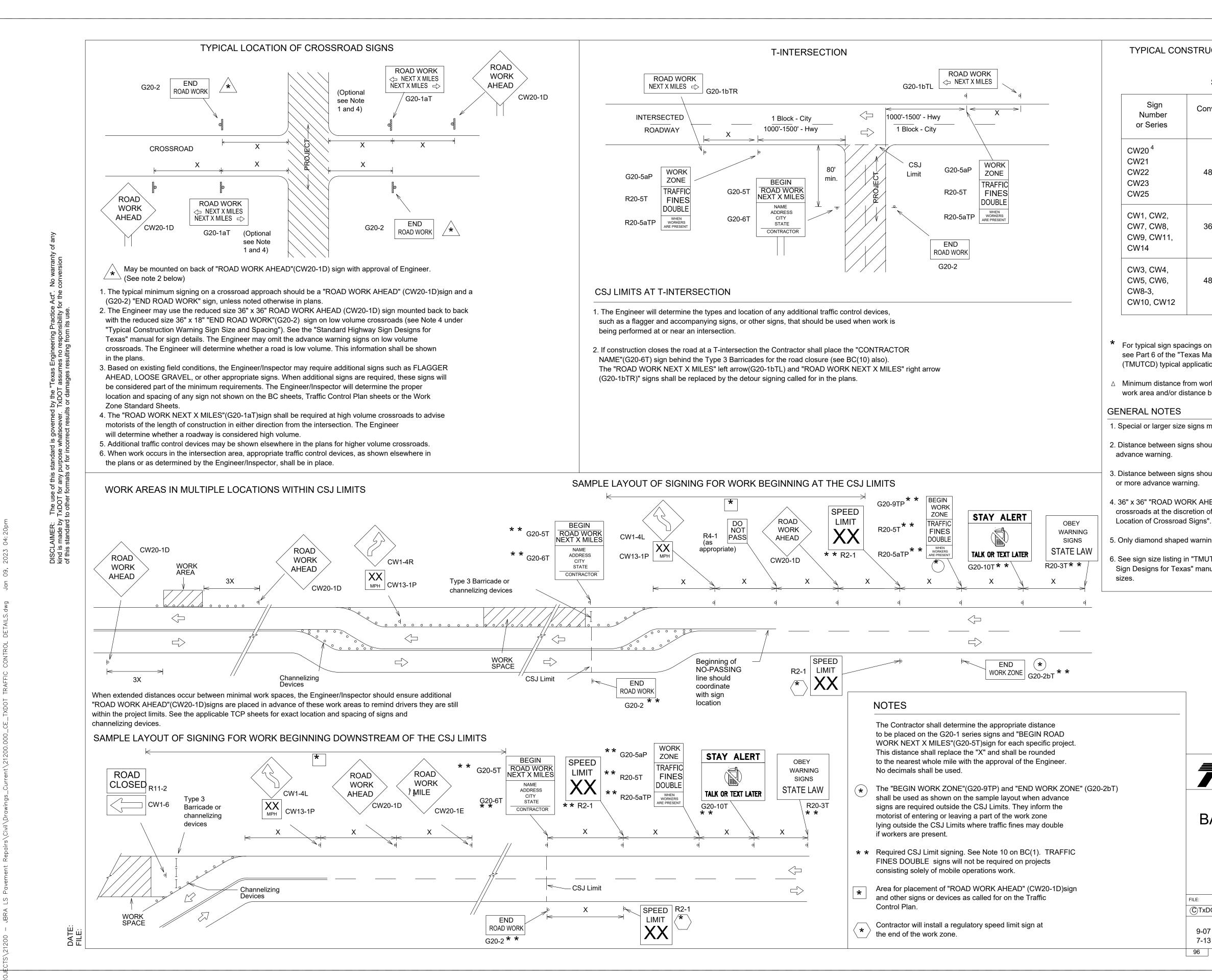


	DATE
CURB INLET CURB INLET INLET EXTENSION	ISSUED FOR
EAT CURB INLET	Consulting Engineers and Land Surveyors       NO.         1405 Cornerstone Court       Beaumont, TX. 77706         Ph. (409) 832-7238       Fax. (409) 832-7303         www.fittzshipman.com       T.B.P.E. Firm #1160         T.B.P.E. Firm #1160       T.X.L.S. Firm #100186
	BERNARDINO D. TRISTAN 117017 BERNARDINO D. TRISTAN 117017 BOX (CENSED SS/ONAL ENG BELLALLO D. LISTA
	JACK BROOKS REGIONAL AIRPORT
SHEET 3 OF 3         Design Division Standard         Design Division Standard         TEXAS DEPARTMENT OF TRANSPORTATION       Design Division Standard         TEMPORARY EROSION, SEDIMENT AND WATER POLLUTION CONTROL MEASURES EROSION CONTROL MEASURES EROSION CONTROL LOG         EC(9)-16         FILE: ec916       DN: TXDOT       CK: KM       DV: LS/PT       CK: LS         EILE: ec916       DN: TXDOT       CK: KM       DV: LS/PT       CK: LS         ELE: ec916       DN: TXDOT       CK: KM       DV: LS/PT       CK: LS         EVISIONS       DIST       COUNTY       SHEET NO.	FS PROJECT # 21200.000 DATE: Jan 09, 2023 SCALE: N.T.S. DRAWN BY: J.L.H. CHECK BY: B.T. FS DRAWING NAME: 21200.000_CE_EROSION CONTROL DETAILS EROSION CONTROL DETAILS
	C13.7 © COPYRIGHT 2023 FITTZ & SHIPMAN, INC.

<ol> <li>The Barricade and Construction Standard Sheets (BC sheets) are intended to show typical examples for placement of temporary traffic control devices, construction pavement markings, and typical work zone signs. The information contained in these sheets meet or exceed the requirements shown in the "Texas Manual on Uniform Traffic Control Devices" (TMUTCD).</li> <li>The development and design of the Traffic Control Plan (TCP) is the responsibility of the Engineer.</li> <li>The Contractor may propose changes to the TCP that are signed and sealed by a licensed professional engineer for approval. The Engineer may develop, sign and seal Contractor proposed changes.</li> <li>The Contractor is responsible for installing and maintaining the traffic control devices as shown in the plans. The Contractor may not move or change the approximate location of any device without the approval of the Engineer.</li> <li>Geometric design of lane shifts and detours should, when possible, meet the applicable design criteria contained in manuals such as the American Association of State Highway and Transportation Officials (AASHTO), "A Policy on Geometric Design of Highways and Streets," the TxDOT "Roadway</li> </ol>		
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<ul> <li>TEXT LATER (see Sign Detail G20-10T) and the WORK ZONE TRAFFIC FINES DOUBLE sign with plaque shall be erected in advance of the CSJ limits. However, the TRAFFIC FINES DOUBLE sign will not be required on projects consisting solely of mobile operation work, such as striping or milling edgeline rumble strips. The BEGIN ROAD WORK NEXT X MILES, CONTRACTOR and END ROAD WORK signs shall be erected at or near the CSJ limits.</li> <li>11. Except for devices required by Note 10, traffic control devices should be in place only while work is actually in progress or a definite need exists.</li> <li>12. The Engineer has the final decision on the location of all traffic control devices.</li> <li>13. Inactive equipment and work vehicles, including workers' private vehicles must be parked away from travel lanes. They should be as close to the right-of-way line as possible, or located behind a barrier or guardrail, or as approved by the Engineer.</li> <li>WORKER SAFETY APPAREL NOTES:</li> <li>1. Workers on foot who are exposed to traffic or to construction equipment within the right-of-way shall wear high-visibility safety apparel meeting the requirements of ISEA "American National Standard for High-Visibility Apparel," or equivalent revisions, and labeled as ANSI 107-2004 standard performance for Class 2 or 3 risk exposure. Class 3 garments should be considered for high traffic volume work areas or night time work.</li> </ul>	DISCLAIN kind is me of this sta	BC sheets are examples. As necessary, the Engineer will determine the most
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	DATE: FILE:	



THE DOCUMENTS BELOW CAN BE FOUND ON-LINE AT http://www.txdot.gov
COMPLIANT WORK ZONE TRAFFIC CONTROL DEVICES LIST (CWZTCD)
DEPARTMENTAL MATERIAL SPECIFICATIONS (DMS)
MATERIAL PRODUCER LIST (MPL)
ROADWAY DESIGN MANUAL - SEE "MANUALS (ONLINE MANUALS)"
STANDARD HIGHWAY SIGN DESIGNS FOR TEXAS (SHSD)
TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (TMUTCD)
TRAFFIC ENGINEERING STANDARD SHEETS



SIZE	
Conventional Road	Expressway/ Freeway
48" x 48"	48" x 48"
36" x 36"	48" x 48"
48" x 48"	48" x 48"

SPACING							
Posted Speed	Sign [△] Spacing "X"						
MPH	Feet (Apprx.)						
30	120						
35	160						
40	240						
45	320						
50	400						
55	500 ²						
60	600 ²						
65	700 ²						
70	800 ²						
75	900 ²						
80	1000 ²						
*	* 3						

1,5,6

* For typical sign spacings on divided highways, expressways and freeways, see Part 6 of the "Texas Manual on Uniform Traffic Control Devices" (TMUTCD) typical application diagrams or TCP Standard Sheets.

Minimum distance from work area to first Advance Warning sign nearest the work area and/or distance between each additional sign.

1. Special or larger size signs may be used as necessary.

2. Distance between signs should be increased as required to have 1500 feet

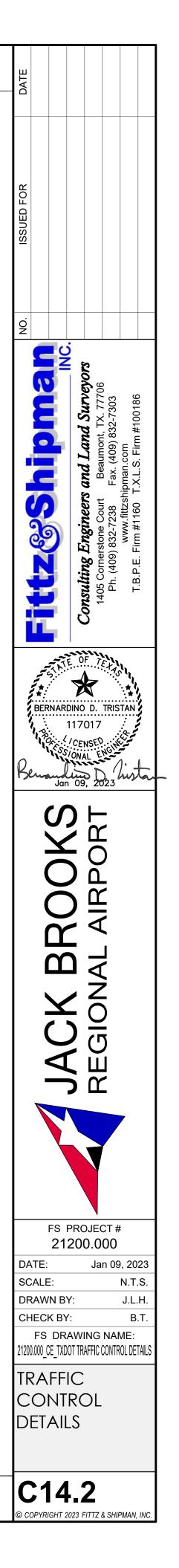
3. Distance between signs should be increased as required to have 1/2 mile

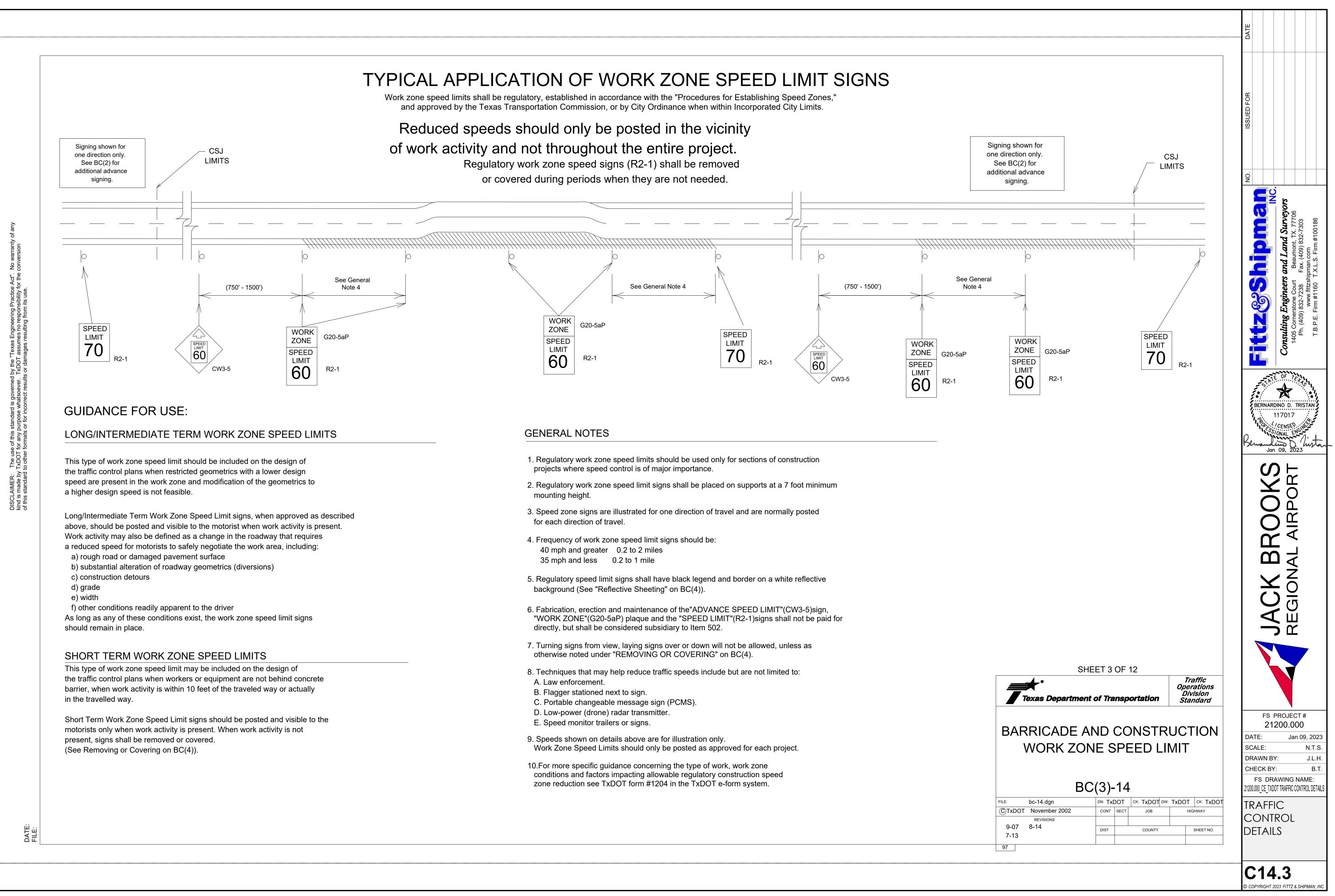
4. 36" x 36" "ROAD WORK AHEAD" (CW20-1D)signs may be used on low volume crossroads at the discretion of the Engineer. See Note 2 under "Typical

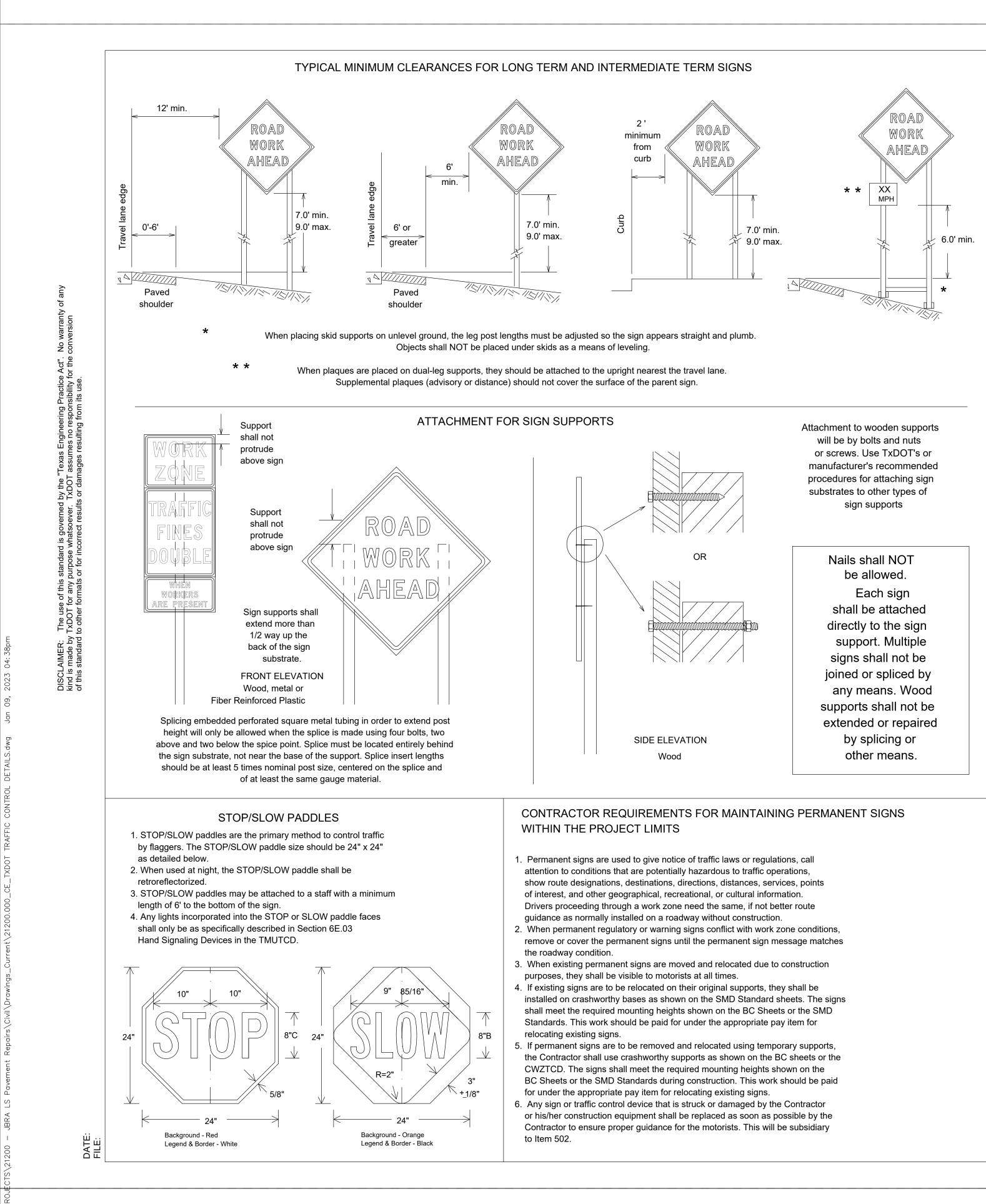
5. Only diamond shaped warning sign sizes are indicated.

6. See sign size listing in "TMUTCD", Sign Appendix or the "Standard Highway Sign Designs for Texas" manual for complete list of available sign design

		LEGEI	ND			
	⊢—⊣ Type 3 Barricade					
	000	Channelizing [	Devices			
	<u> </u>	Sign				
	x	See Typical Co Warning Sign Spacing chart TMUTCD for s spacing require	Size and or the sign			_
		SHEET 2	OF 12			_
Те	<b>*</b> exas Depar	tment of Tra	nsport	ation	Oper Div	affic rations rision ndard
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FILE:	bc-14.dgn November 2003	PROJEC BC(2)-	Т LI 14 рот ска		TxDOT	ск: ТхDC



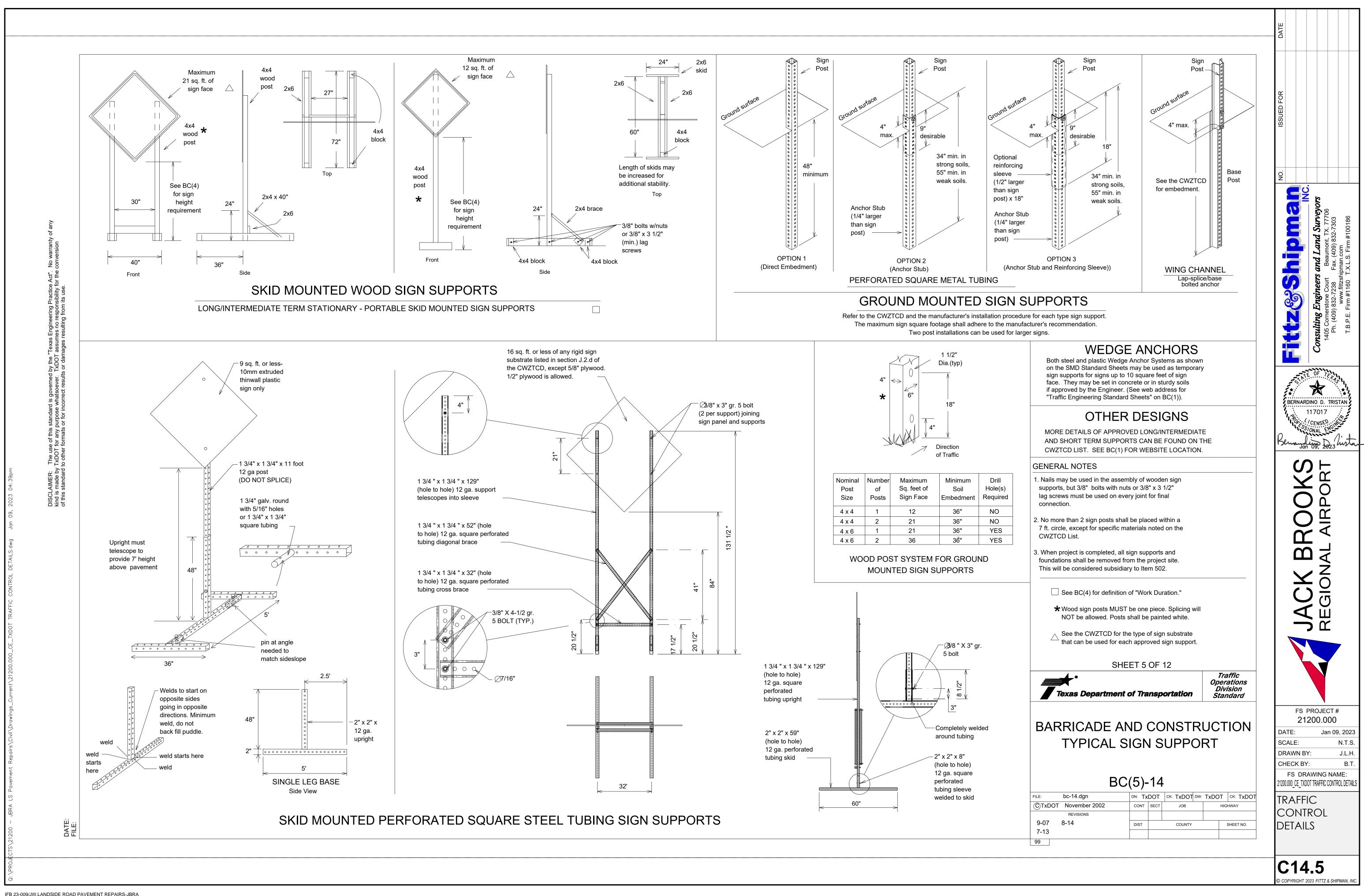




### GENERAL NOTES FOR WORK ZONE SIGNS

- 1. Contractor shall install and maintain signs in a straight and plumb condition and/or as directed by the Engir 2. Wooden sign posts shall be painted white.
- 3. Barricades shall NOT be used as sign supports.
- 4. All signs shall be installed in accordance with the plans or as directed by the Engineer. Signs shall be used guide the traveling public safely through the work zone.
- 5. The Contractor may furnish either the sign design shown in the plans or in the "Standard Highway Sign Des Engineer/Inspector may require the Contractor to furnish other work zone signs that are shown in the TMUT from the plans. Any variation in the plans shall be documented by written agreement between the Engineer Responsible Person. All changes must be documented in writing before being implemented. This can include the Inspector's TxDOT diary and having both the Inspector and Contractor initial and date the agreed upon of
- 6. The Contractor shall furnish sign supports listed in the "Compliant Work Zone Traffic Control Device List" (C shall install the sign support in accordance with the manufacturer's recommendations. If there is a question procedures, the Contractor shall furnish the Engineer a copy of the manufacturer's installation recommendation verify the correct procedures are being followed.
- 7. The Contractor is responsible for installing signs on approved supports and replacing signs with damaged damaged or marred reflective sheeting as directed by the Engineer/Inspector.
- 8. Identification markings may be shown only on the back of the sign substrate. The maximum height of letter for identification shall be 1 inch.
- 9. The Contractor shall replace damaged wood posts. New or damaged wood sign posts shall not be spliced. DURATION OF WORK (as defined by the "Texas Manual on Uniform Traffic Control Devices" Part 6)
- 1. The types of sign supports, sign mounting height,the size of signs, and the type of sign substrates can vary work being performed. The Engineer is responsible for selecting the appropriate size sign for the type of work Contractor is responsible for ensuring the sign support, sign mounting height and substrate meets manufact regard to crashworthiness and duration of work requirements.
- a. Long-term stationary work that occupies a location more than 3 days.
- b. Intermediate-term stationary work that occupies a location more than one daylight period up to 3 days, more than one hour. c. Short-term stationary - daytime work that occupies a location for more than 1 hour in a single daylight per
- d. Short, duration work that occupies a location up to 1 hour.
- e. Mobile work that moves continuously or intermittently (stopping for up to approximately 15 minutes.) SIGN MOUNTING HEIGHT
- 1. The bottom of Long-term/Intermediate-term signs shall be at least 7 feet, but not more than 9 feet, above th as shown for supplemental plaques mounted below other signs.
- 2. The bottom of Short-term/Short Duration signs shall be a minimum of 1 foot above the pavement surface but the ground.
- 3. Long-term/Intermediate-term Signs may be used in lieu of Short-term/Short Duration signing.
- 4. Short-term/Short Duration signs shall be used only during daylight and shall be removed at the end of the vertice of the ve appropriate Long-term/Intermediate sign height.
- 5. Regulatory signs shall be mounted at least 7 feet, but not more than 9 feet, above the paved surface regard SIZE OF SIGNS
- 1. The Contractor shall furnish the sign sizes shown on BC (2) unless otherwise shown in the plans or as direct SIGN SUBSTRATES
- 1. The Contractor shall ensure the sign substrate is installed in accordance with the manufacturer's recommer support that is being used. The CWZTCD lists each substrate that can be used on the different types and n
- 2. "Mesh" type materials are NOT an approved sign substrate, regardless of the tightness of the weave. 3. All wooden individual sign panels fabricated from 2 or more pieces shall have one or more plywood cleat,
- fastened to the back of the sign and extending fully across the sign. The cleat shall be attached to the back screws that do not penetrate the face of the sign panel. The screws shall be placed on both sides of the spli centers. The Engineer may approve other methods of splicing the sign face. REFLECTIVE SHEETING
- 1. All signs shall be retroreflective and constructed of sheeting meeting the color and retro-reflectivity requiren
- for rigid signs or DMS-8310 for roll-up signs. The web address for DMS specifications is shown on BC(1).
- 2. White sheeting, meeting the requirements of DMS-8300 Type A, shall be used for signs with a white backgi 3. Orange sheeting, meeting the requirements of DMS-8300 Type B_{FI} or Type C_{FI}, shall be used for rigid signs SIGN LETTERS
- 1. All sign letters and numbers shall be clear, and open rounded type uppercase alphabet letters as approved Administration (FHWA) and as published in the "Standard Highway Sign Design for Texas" manual. Signs, first class workmanship in accordance with Department Standards and Specifications.
- REMOVING OR COVERING
- 1. When sign messages may be confusing or do not apply, the signs shall be removed or completely covered. 2. Long-term stationary or intermediate stationary signs installed on square metal tubing may be turned away the sign message is not applicable. This technique may not be used for signs installed in the median of divi
- intersections where the sign may be seen from approaching traffic. 3. Signs installed on wooden skids shall not be turned at 90 degree angles to the roadway. These signs shoul
- covered when not required. 4. When signs are covered, the material used shall be opaque, such as heavy mil black plastic, or other material
- entire sign face and maintain their opaque properties under automobile headlights at night, without damaging 5. Burlap shall NOT be used to cover signs.
- 6. Duct tape or other adhesive material shall NOT be affixed to a sign face.
- 7. Signs and anchor stubs shall be removed and holes backfilled upon completion of work.
- SIGN SUPPORT WEIGHTS
- 1. Where sign supports require the use of weights to keep from turning over,
- the use of sandbags with dry, cohesionless sand should be used.
- 2. The sandbags will be tied shut to keep the sand from spilling and to maintain a constant weight.
- 3. Rock, concrete, iron, steel or other solid objects shall not be permitted for use as sign support weights.
- 4. Sandbags should weigh a minimum of 35 lbs and a maximum of 50 lbs. 5. Sandbags shall be made of a durable material that tears upon vehicular
- impact. Rubber (such as tire inner tubes) shall NOT be used.
- 6. Rubber ballasts designed for channelizing devices should not be used for ballast on portable sign supports. Sign supports designed and manufactured with rubber bases may be used when shown on the CWZTCD list.
- 7. Sandbags shall only be placed along or laid over the base supports of the traffic control device and shall not be suspended above ground level or hung with rope, wire, chains or other fasteners. Sandbags shall be placed along the length of the skids to weigh down the sign support.
- 8. Sandbags shall NOT be placed under the skid and shall not be used to level sign supports placed on slopes.
- FLAGS ON SIGNS
- 1. Flags may be used to draw attention to warning signs. When used the flag shall be 16 inches square or larger and shall be orange or fluorescent red-orange in color. Flags shall not be allowed to cover any portion of the sign face.

	DATE
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esigns for Texas" (SHSD). The JTCD but may have been omitted er and the Contractor's lude documenting the changes in n changes. (CWZTCD). The Contractor n regarding installation dations so the Engineer can	ISSUED F
d or cracked substrates and/or	Ň
ers and/or company logos used	
d.	1120 17706 303
ry based on the type of /ork being performed. The .cturer's recommendations in	Land Si Land Si tumont, TX. (409) 832-7 com 5. Firm #100
s, or nighttime work lasting	
period.	Engineer Baz-7238 www.fittzs Firm #1160
the paved surface, except	<b>78 En</b> Interstc 109) 83 M
but no more than 2 feet above	Consulting Engineers 1405 Cornerstone Court Ph. (409) 832-7238 www.fittzshi T.B.P.E. Firm #1160
workdow or rolood to	
ardless of work duration.	OF This
rected by the Engineer.	
	BERNARDINO D. TRISTAN
endations for the type of sign models of sign supports.	
1/2" thick by 6" wide, k of the sign using wood	Bernandino Da hista
olice and spaced at 6"	
ements of DMS-8300	
ground. ns with orange backgrounds.	
ed by the Federal Highway , letters and numbers shall be of	AIRF
d. Iy from traffic 90 degrees when ivided highways or near any	
uld be removed or completely	X Ó
terials which will cover the	O U
ing the sign sheeting.	
SHEET 4 OF 12	
Operations           Texas Department of Transportation         Operations           Standard	
BARRICADE AND CONSTRUCTION	FS PROJECT # 21200.000
TEMPORARY SIGN NOTES	DATE: Jan 09, 2023 SCALE: N.T.S.
	DRAWN BY: J.L.H.
BC(4)-14	CHECK BY: B.T. FS DRAWING NAME:
DC(4)-14         FILE:       bc-14.dgn         DN:       TxDOT         CK:       TxDOT         CK:       TxDOT	21200.000_CE_TXDOT TRAFFIC CONTROL DETAILS
CTxDOT     November 2002     CONT     SECT     JOB     HIGHWAY       REVISIONS	CONTROL
9-07 8-14 7-13 DIST COUNTY SHEET NO.	DETAILS
98	
	C14.4
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IFB 23-009/JW.LANDSIDE ROAD PAVEMENT REPAIRS-JBRA PAGE 165 OF 190

VHEN NOT IN USE, REMOVE BEHIND BARRIER OR GUARD				RECO
PORTABLE CHANGEABLE	MESSAGE SIGN	3		
1. The Engineer/Inspector sha		ges used on portable		г
changeable message signs 2. Messages on PCMS should	contain no more tha			F
eight characters per word), r "FOR," "AT," etc.	ot including simple v	vords such as "TO,"		Dead/Lana/Doma C
3. Messages should consist of	<b>.</b>	•		Road/Lane/Ramp C
alternate. Three-phase mess message should convey a si	0	•		FREEWAY
itself. 4. Use the word "EXIT" to refe	r to an exit ramp on a	a freeway; i.e.,		CLOSED X MILE
"EXIT CLOSED." Do not use	the term "RAMP."			ROAD
. Always use the route or inte along with the number when	referring to a roadwa	ay.		CLOSED
. When in use the bottom of a a minimum 7 feet above the	•	•		AT SH XXX
. The message term "WEEK	END" should be used	l only if the work is to		ROAD
start on Saturday morning an Actual days and hours of wo	rk should be displaye	ed on the PCMS if work		CLSD AT
is to begin on Friday evening B. The Engineer/Inspector may		, .		FM XXXX
able for displaying a two-pha	ise message on a P	CMS. Each phase may be		
displayed for either four second 9. Do not "flash" messages or	words included in a	message. The message		LANES CLOSED
should be steady burn or con 10. Do not present redundant i	•	-		
keeping two lines of the mes	sage the same and o	•		LANE
<ul><li>11. Do not use the word "Dang</li><li>12. Do not display the message</li></ul>	e "LANES SHIFT LE		HT"	CLOSED
on a PCMS. Drivers do not 13. Do not display messages the second		•		NIGHT
the face of the sign.		-		
14. The following table lists abl are acceptable for use on a	PCMS. Both words in	n a phrase must be		CLOSURES
displayed together. Words o abbreviated, unless shown in		list should not be		VARIOUS
15. PCMS character height sho units. They should be visible	ould be at least 18 in			LANES CLOSED
should be legible from at lea	st 600 feet at night a	nd 800 feet in		EXIT
daylight. Truck mounted uni and must be legible from at l	east 400 feet.	-		CLOSED
16. Each line of text should be left or right justified.	centered on the mes	sage board rather than		
47 If disable d the DOMO sheet				
not alarm motorists and will	ld default to an illegi only be used to alert			MALL
not alarm motorists and will PCMS has malfunctioned. A	only be used to alert	workers that the		DRIVEWAY
not alarm motorists and will	only be used to alert	workers that the		DRIVEWAY CLOSED
not alarm motorists and will PCMS has malfunctioned. A bars is appropriate.	only be used to alert pattern such as a se	workers that the eries of horizontal solid		DRIVEWAY CLOSED XXXXXXXX
not alarm motorists and will PCMS has malfunctioned. A	only be used to alert pattern such as a se ABBREVIATION	workers that the	ABBREVIATION	DRIVEWAY CLOSED
not alarm motorists and will PCMS has malfunctioned. A bars is appropriate. WORD OR PHRASE Access Road	ABBREVIATION	workers that the eries of horizontal solid	MAJ	DRIVEWAY CLOSED XXXXXXXX BLVD
not alarm motorists and will PCMS has malfunctioned. A bars is appropriate. WORD OR PHRASE Access Road Alternate Avenue	ABBREVIATION ACCS RD ALT AVE	workers that the eries of horizontal solid WORD OR PHRASE Major Miles Miles Per Hour	MAJ MI MPH	DRIVEWAY CLOSED XXXXXXXX BLVD CLOSED
not alarm motorists and will PCMS has malfunctioned. A bars is appropriate. WORD OR PHRASE Access Road Alternate Avenue Best Route Boulevard	ABBREVIATION ACCS RD ALT AVE BEST RTE BLVD	workers that the eries of horizontal solid WORD OR PHRASE Major Miles Miles Per Hour Minor Moday	MAJ MI MPH MNR MON	DRIVEWAY CLOSED XXXXXXXX BLVD CLOSED
not alarm motorists and will of PCMS has malfunctioned. A bars is appropriate. WORD OR PHRASE Access Road Alternate Avenue Best Route Boulevard Bridge	ABBREVIATION ACCS RD ALT AVE BEST RTE BLVD BRDG	workers that the eries of horizontal solid WORD OR PHRASE Major Miles Miles Per Hour Minor Moday Normal	MAJ MI MPH MNR MON NORM	DRIVEWAY CLOSED XXXXXXXX BLVD CLOSED AP 1.0 2.7
not alarm motorists and will of PCMS has malfunctioned. A bars is appropriate. WORD OR PHRASE Access Road Alternate Avenue Best Route Boulevard Bridge Cannot Center	ABBREVIATION ACCS RD ALT AVE BEST RTE BLVD	workers that the eries of horizontal solid WORD OR PHRASE Major Miles Miles Per Hour Minor Moday Normal North Nothbound	MAJ MI MPH MNR MON NORM N (route) N	DRIVEWAY CLOSED XXXXXXXX BLVD CLOSED AP 1.0
not alarm motorists and will of PCMS has malfunctioned. A bars is appropriate. WORD OR PHRASE Access Road Alternate Avenue Best Route Boulevard Bridge Cannot Center Construction Ahead	ABBREVIATION ACCS RD ALT AVE BEST RTE BLVD BRDG CANT CTR CONST AHD	workers that the eries of horizontal solid WORD OR PHRASE Major Miles Miles Per Hour Minor Moday Normal North	MAJ MI MPH MNR MON NORM N	DRIVEWAY CLOSED XXXXXXXX BLVD CLOSED 1.0 2.7 "I 3.7
not alarm motorists and will of PCMS has malfunctioned. A bars is appropriate. WORD OR PHRASE Access Road Alternate Avenue Best Route Boulevard Bridge Cannot Center Construction Ahead CROSSING	ABBREVIATION ACCS RD ALT AVE BEST RTE BLVD BRDG CANT CTR CONST AHD XING	workers that the eries of horizontal solid WORD OR PHRASE Major Miles Miles Per Hour Minor Moday Normal North Nothbound Parking Road Right Lane	MAJ MI MPH MNR MON NORM N (route) N (route) N PKING RD RT LN	DRIVEWAY CLOSED XXXXXXXX BLVD CLOSED 1.0 2.7 "I 3.4 0 P 4.4
not alarm motorists and will of PCMS has malfunctioned. A bars is appropriate. WORD OR PHRASE Access Road Alternate Avenue Best Route Boulevard Bridge Cannot Center Construction Ahead CROSSING Detour Route Do Not	ABBREVIATION ACCS RD ALT AVE BEST RTE BLVD BRDG CANT CTR CONST AHD XING DETOUR RTE DONT	workers that the eries of horizontal solid WORD OR PHRASE Major Miles Miles Per Hour Minor Moday Normal North Nothbound Parking Road Right Lane Saturday Service Road	MAJ MI MPH MNR MON NORM N (route) N PKING RD RT LN SAT SERV RD	DRIVEWAY CLOSED XXXXXXXX BLVD CLOSED 1.0 2.7 "I 3.7 0 P
not alarm motorists and will of PCMS has malfunctioned. A bars is appropriate. WORD OR PHRASE Access Road Alternate Avenue Best Route Boulevard Bridge Cannot Center Construction Ahead CROSSING Detour Route	ABBREVIATION ACCS RD ALT AVE BEST RTE BLVD BRDG CANT CTR CONST AHD XING DETOUR RTE DONT E (route) E	workers that the eries of horizontal solid WORD OR PHRASE Major Miles Miles Per Hour Minor Moday Normal North Nothbound Parking Road Right Lane Saturday Service Road Shoulder	MAJ MI MPH MNR MON NORM NORM N (route) N PKING RD RT LN SAT	DRIVEWAY CLOSED XXXXXXXX BLVD CLOSED AP 1.0 2.7 "I 3.7 0 P 4.7 is 5.1 a
not alarm motorists and will of PCMS has malfunctioned. A bars is appropriate. WORD OR PHRASE Access Road Alternate Avenue Best Route Boulevard Bridge Cannot Center Construction Ahead CROSSING Detour Route Do Not East Eastbound Emergency	ABBREVIATION ACCS RD ALT AVE BEST RTE BLVD BRDG CANT CTR CONST AHD XING DETOUR RTE DONT E (route) E EMER	workers that the eries of horizontal solid WORD OR PHRASE Major Miles Miles Per Hour Minor Moday Normal North Nothbound Parking Road Right Lane Saturday Service Road Shoulder Slippery South	MAJ MI MPH MNR MON NORM N (route) N PKING RD RT LN SAT SERV RD SHLDR SLIP S	DRIVEWAY CLOSED XXXXXXX BLVD CLOSED AP 1.0 2.7 "I 3.7 0 P 4.7 is 5.1 a a 6.6
not alarm motorists and will of PCMS has malfunctioned. A bars is appropriate. WORD OR PHRASE Access Road Alternate Avenue Best Route Boulevard Bridge Cannot Center Construction Ahead CROSSING Detour Route Do Not East Eastbound Emergency Emergency Vehicle Entrance, Enter	ABBREVIATION ACCS RD ALT AVE BEST RTE BLVD BRDG CANT CTR CONST AHD XING DETOUR RTE DONT E (route) E EMER EMER EMER VEH ENT	workers that the eries of horizontal solid WORD OR PHRASE Major Miles Miles Per Hour Minor Moday Normal North Nothbound Parking Road Right Lane Saturday Service Road Shoulder Slippery South Southbound Speed	MAJ MI MPH MNR MON NORM N (route) N PKING RD RT LN SAT SERV RD SHLDR SLIP S LIP S (route) S SPD	DRIVEWAY CLOSED XXXXXXXX BLVD CLOSED 1.0 2.7 "I 3.4 o P 4.4 is 5.1 a a
not alarm motorists and will of PCMS has malfunctioned. A bars is appropriate. WORD OR PHRASE Access Road Alternate Avenue Best Route Boulevard Bridge Cannot Center Construction Ahead CROSSING Detour Route Do Not East Eastbound Emergency Emergency Vehicle Entrance, Enter Express Lane Express Lane Expressway	ABBREVIATION ACCS RD ALT AVE BEST RTE BLVD BRDG CANT CTR CONST AHD XING DETOUR RTE DONT E (route) E EMER EMER EMER EMER EMER EMER EMER EM	workers that the eries of horizontal solid WORD OR PHRASE Major Miles Miles Per Hour Minor Moday Normal North Nothbound Parking Road Right Lane Saturday Service Road Shoulder Slippery South Southbound	MAJ MI MPH MNR MON NORM N (route) N PKING RD RT LN SAT SERV RD SHLDR SLIP S LIP S (route) S	DRIVEWAY CLOSED XXXXXXX BLVD CLOSED AP 1.0 2.7 "I 3.7 0 P 4.7 is 5.1 a a 6.F
not alarm motorists and will of PCMS has malfunctioned. A bars is appropriate. WORD OR PHRASE Access Road Alternate Avenue Best Route Boulevard Bridge Cannot Center Construction Ahead CROSSING Detour Route Do Not East Eastbound Emergency Emergency Vehicle Entrance, Enter Express Lane Expressway XXXX Feet	ABBREVIATION ACCS RD ALT AVE BEST RTE BLVD BRDG CANT CTR CONST AHD XING DETOUR RTE DONT E (route) E EMER EMER EMER VEH ENT EXP LN EXP WY XXXX FT	workers that the eries of horizontal solid WORD OR PHRASE Major Miles Miles Per Hour Minor Moday Normal North Nothbound Parking Road Right Lane Saturday Service Road Shoulder Slippery South Southbound Speed Street Sunday Telephone	MAJ MI MPH MNR MON NORM N (route) N PKING RD RT LN SAT SERV RD SHLDR SHLDR SLIP S SHLDR SLIP S SUN SPD ST SUN PHONE	DRIVEWAY CLOSED XXXXXXX BLVD CLOSED 1.0 2.7 "I 3.4 0 P 4.4 is 5.1 a a 6.F 0 d
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- FULL MATRIX PCMS SIGNS
- CHANGEABLE MESSAGE SIGNS" above.

WT LIMIT

(route) W

WONT

WET PVMT

Weight Limit

Westbound

Wet Pavement

West

Will Not

- shall maintain the legibility/visibility requirement listed above.
- for, or replace that sign.
- same size arrow.

Roadway designation # IH-number, US-number, SH-number, FM-number

JCT

LFT

LFT LN

MAINT

LN CLOSED

LWR LEVEL

DATE: FILE:

Left

Junction

Left Lane

Lane Closed

Lower Level

Maintenance

# RECOMMENDED PHASES AND FORMATS FOR PCMS MESSAGES DURING ROADWORK ACTIVITIES

(The Engineer may approve other messages not specifically covered here.)

# Phase 1: Condition Lists

losure List	Other Condition List					
FRONTAGE ROAD CLOSED	ROADWORK XXX FT	ROAD REPAIRS XXXX FT				
SHOULDER CLOSED XXX FT	FLAGGER XXXX FT	LANE NARROWS XXXX FT				
RIGHT LN CLOSED XXX FT	RIGHT LN NARROWS XXXX FT	TWO-WAY TRAFFIC XX MILE				
RIGHT X LANES OPEN	MERGING TRAFFIC XXXX FT	CONST TRAFFIC XXX FT				
DAYTIME LANE CLOSURES	LOOSE GRAVEL XXXX FT	UNEVEN LANES XXXX FT				
I-XX SOUTH EXIT CLOSED	DETOUR X MILE	ROUGH ROAD XXXX FT				
EXIT XXX CLOSED X MILE	ROADWORK PAST SH XXXX	ROADWORK NEXT FRI-SUN				
RIGHT LN TO BE CLOSED	BUMP XXXX FT	US XXX EXIT X MILES				
X LANES CLOSED TUE - FRI	TRAFFIC SIGNAL XXXX FT	LANES SHIFT				

* LANES SHIFT in Phase 1 must be used with STAY IN LANE in Phase 2.

#### **APPLICATION GUIDELINES**

- 1. Only 1 or 2 phases are to be used on a PCMS.
- 2. The 1st phase (or both) should be selected from the
- "Road/Lane/Ramp Closure List" and the "Other Condition List". 3. A 2nd phase can be selected from the "Action to Take/Effect
- on Travel, Location, General Warning, or Advance Notice Phase Lists".
- 4. A Location Phase is necessary only if a distance or location is not included in the first phase selected.
- 5. If two PCMS are used in sequence, they must be separated by a minimum of 1000 ft. Each PCMS shall be limited to two phases, and should be understandable by themselves.
- 6. For advance notice, when the current date is within seven days
- of the actual work date, calendar days should be replaced with days of the week. Advance notification should typically be for no more than one week prior to the work.

Action to Take	Location List	
MERGE RIGHT	FORM X LINES RIGHT	AT FM XXXX
DETOUR NEXT X EXITS	USE XXXXX RD EXIT	BEFORE RAILROAD CROSSING
USE EXIT XXX	USE EXIT I-XX NORTH	NEXT X MILES
STAY ON US XXX SOUTH	USE I-XX E TO I-XX N	PAST US XXX EXIT
TRUCKS USE US XXX N	WATCH FOR TRUCKS	XXXXXXX TO XXXXXXX
WATCH FOR TRUCKS	EXPECT DELAYS	US XXX TO FM XXXX
EXPECT DELAYS	PREPARE TO STOP	
REDUCE SPEED XXX FT	END SHOULDER USE	
USE OTHER ROUTES	WATCH FOR WORKERS	
STAY IN LANE	*	*

### WORDING ALTERNATIVES

- 1. The words RIGHT, LEFT and ALL can be interchanged as appropriate.
- 2. Roadway designations IH, US, SH, FM and LP can be interchanged as appropriate.
- 3. EAST, WEST, NORTH and SOUTH (or abbreviations E, W, N and S) can be interchanged as appropriate.
- 4. Highway names and numbers replaced as appropriate.
- 5. ROAD, HIGHWAY and FREEWAY can be interchanged as needed.
- 6. AHEAD may be used instead of distances if necessary.
- 7. FT and MI, MILE and MILES interchanged as appropriate.
- 8. AT, BEFORE and PAST interchanged as needed.
- 9. Distances or AHEAD can be eliminated from the message if a location phase is used.

PCMS SIGNS WITHIN THE R.O.W. SHALL BE BEHIND GUARDRAIL OR CONCRETE BARRIER OR SHALL HAVE A MINIMUM OF FOUR (4) PLASTIC DRUMS PLACED PERPENDICULAR TO TRAFFIC ON THE UPSTREAM SIDE OF THE PCMS, WHEN EXPOSED TO ONE DIRECTION OF TRAFFIC. WHEN EXPOSED TO TWO WAY TRAFFIC, THE FOUR DRUMS SHOULD BE PLACED WITH ONE DRUM AT EACH OF THE FOUR CORNERS OF THE UNIT.

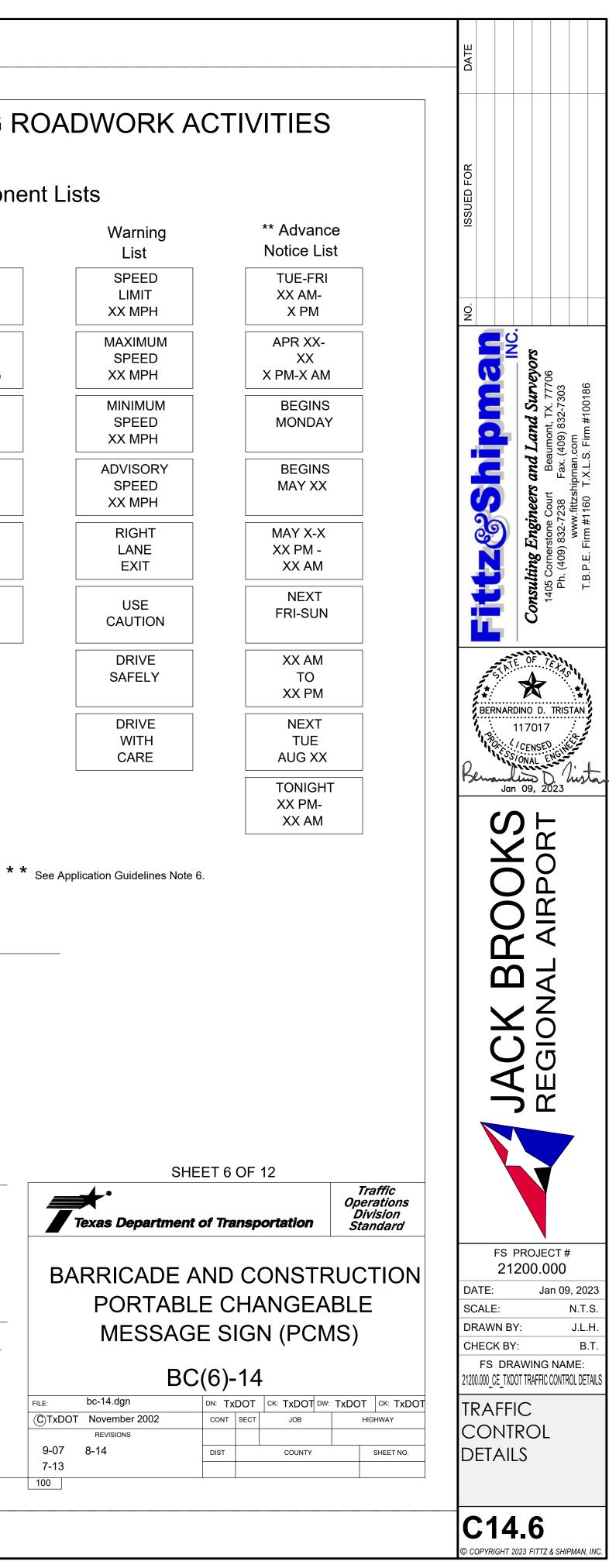
1. When Full Matrix PCMS signs are used, the character height and legibility/visibility requirements shall be maintained as listed in Note 15 under "PORTABLE"

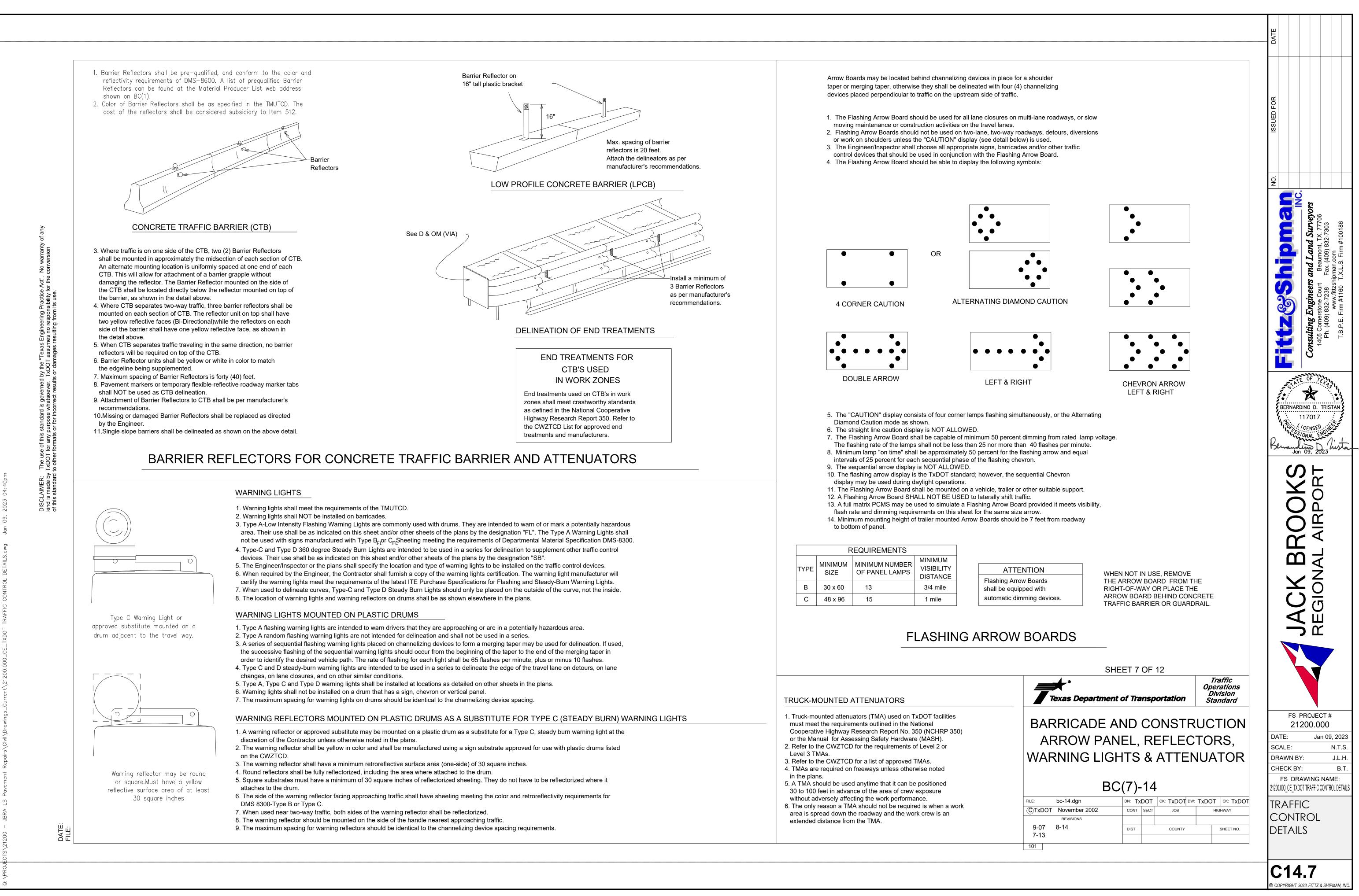
2. When symbol signs, such as the "Flagger Symbol" (CW20-7) are represented graphically on the Full Matrix PCMS sign and, with the approval of the Engineer, it

3. When symbol signs are represented graphically on the Full Matrix PCMS, they shall only supplement the use of the static sign represented, and shall not substitute

4. A full matrix PCMS may be used to simulate a flashing arrow board provided it meets the visibility, flash rate and dimming requirements on BC(7), for the

# Phase 2: Possible Component Lists





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# GENERAL NOTES

- 1. For long term stationary work zones on freeways, drums shall be used as the primary channelizing device.
- 2. For intermediate term stationary work zones on freeways, drums should be used as the primary channelizing device but may be replaced in tangent sections by vertical panels, or 42" two-piece cones. In tangent sections one-piece cones may be used with the approval of the Engineer but only if personnel are present on the project at all times to maintain the cones in proper position and location.
- 3. For short term stationary work zones on freeways, drums are the preferred channelizing device but may be replaced in tapers, transitions and tangent sections by vertical panels, two-piece cones or one-piece cones as approved by the Engineer
- 4. Drums and all related items shall comply with the requirements of the current version of the "Texas Manual on Uniform Traffic Control Devices" (TMUTCD) and the "Compliant Work Zone Traffic Control Devices List" (CWZTCD).
- 5. Drums, bases, and related materials shall exhibit good workmanship and shall be free from objectionable marks or defects that would adversely affect their appearance or serviceability.
- 6. The Contractor shall have a maximum of 24 hours to replace any plastic drums identified for replacement by the Engineer/Inspector. The replacement device must be an approved device.

### **GENERAL DESIGN REQUIREMENTS**

Pre-qualified plastic drums shall meet the following requirements:

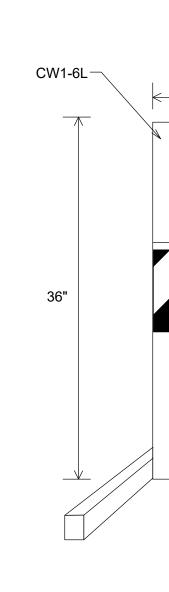
- 1. Plastic drums shall be a two-piece design; the "body" of the drum shall be the top portion and the "base" shall be the bottom.
- 2. The body and base shall lock together in such a manner that the body separates from the base when impacted by a vehicle traveling at a speed of 20 MPH or greater but prevents accidental separation due to normal handling and/or air turbulence created by passing vehicles.
- 3. Plastic drums shall be constructed of lightweight flexible, and deformable materials. The Contractor shall NOT use metal drums or
- single piece plastic drums as channelization devices or sign supports. 4. Drums shall present a profile that is a minimum of 18 inches in width
- at the 36 inch height when viewed from any direction. The height of drum unit (body installed on base) shall be a minimum of 36 inches and a maximum of 42 inches.
- 5. The top of the drum shall have a built-in handle for easy pickup and shall be designed to drain water and not collect debris. The handle shall have a minimum of two widely spaced 9/16 inch diameter holes to allow attachment of a warning light, warning reflector unit or approved compliant sign.
- 6. The exterior of the drum body shall have a minimum of four alternating orange and white retroreflective circumferential stripes not less than 4 inches nor greater than 8 inches in width. Any non-reflectorized space between any two adjacent stripes shall not exceed 2 inches in
- width. 7. Bases shall have a maximum width of 36 inches, a maximum height of 4 inches, and a minimum of two footholds of sufficient size to allow base to be held down while separating the drum body from the base.
- 8. Plastic drums shall be constructed of ultra-violet stabilized, orange, high-density polyethylene (HDPE) or other approved material.
- 9. Drum body shall have a maximum unballasted weight of 11 lbs.
- 10.Drum and base shall be marked with manufacturer's name and model number.

### **RETROREFLECTIVE SHEETING**

- 1. The stripes used on drums shall be constructed of sheeting meeting the color and retroreflectivity requirements of Departmental Materials Specification DMS-8300, "Sign Face Materials." Type A reflective
- sheeting shall be supplied unless otherwise specified in the plans. 2. The sheeting shall be suitable for use on and shall adhere to the drum surface such that, upon vehicular impact, the sheeting shall remain adhered in-place and exhibit no delaminating, cracking, or loss of retroreflectivity other than that loss due to abrasion of the sheeting surface.

### BALLAST

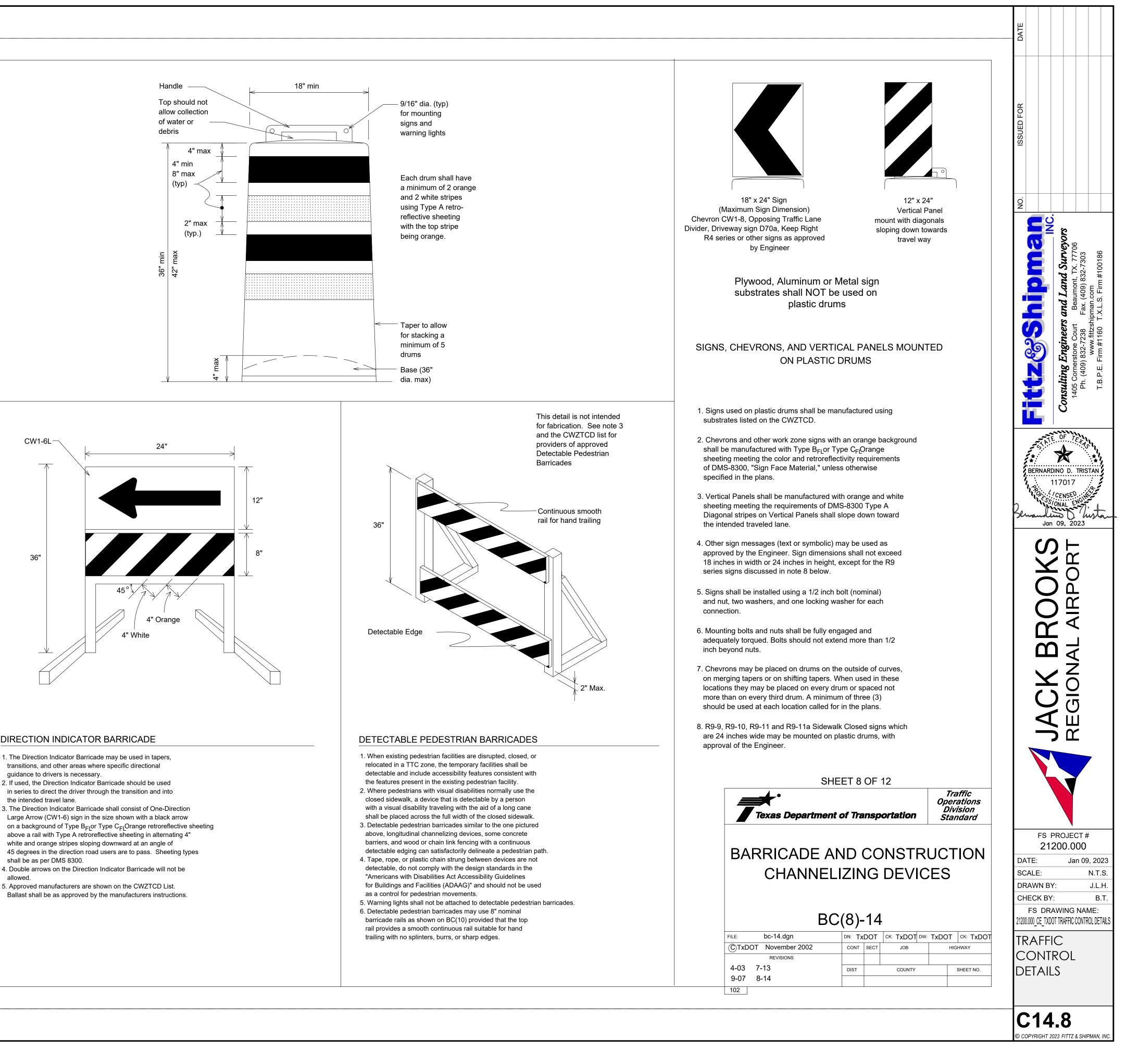
- 1. Unballasted bases shall be large enough to hold up to 50 lbs. of sand. This base, when filled with the ballast material, should weigh between 35 lbs (minimum) and 50 lbs (maximum). The ballast may be sand in one to three sandbags separate from the base, sand in a sand-filled plastic base, or other ballasting devices as approved by the Engineer. Stacking of sandbags will be allowed, however height of sandbags above pavement surface may not exceed 12 inches.
- 2. Bases with built-in ballast shall weigh between 40 lbs. and 50 lbs. Built-in ballast can be constructed of an integral crumb rubber base or a solid rubber base.
- 3. Recycled truck tire sidewalls may be used for ballast on drums approved for this type of ballast on the CWZTCD list.
- 4. The ballast shall not be heavy objects, water, or any material that would become hazardous to motorists, pedestrians, or workers when the drum is struck by a vehicle.
- 5. When used in regions susceptible to freezing, drums shall have drainage holes in the bottoms so that water will not collect and freeze becoming a hazard when struck by a vehicle.
- 6. Ballast shall not be placed on top of drums.
- 7. Adhesives may be used to secure base of drums to pavement.

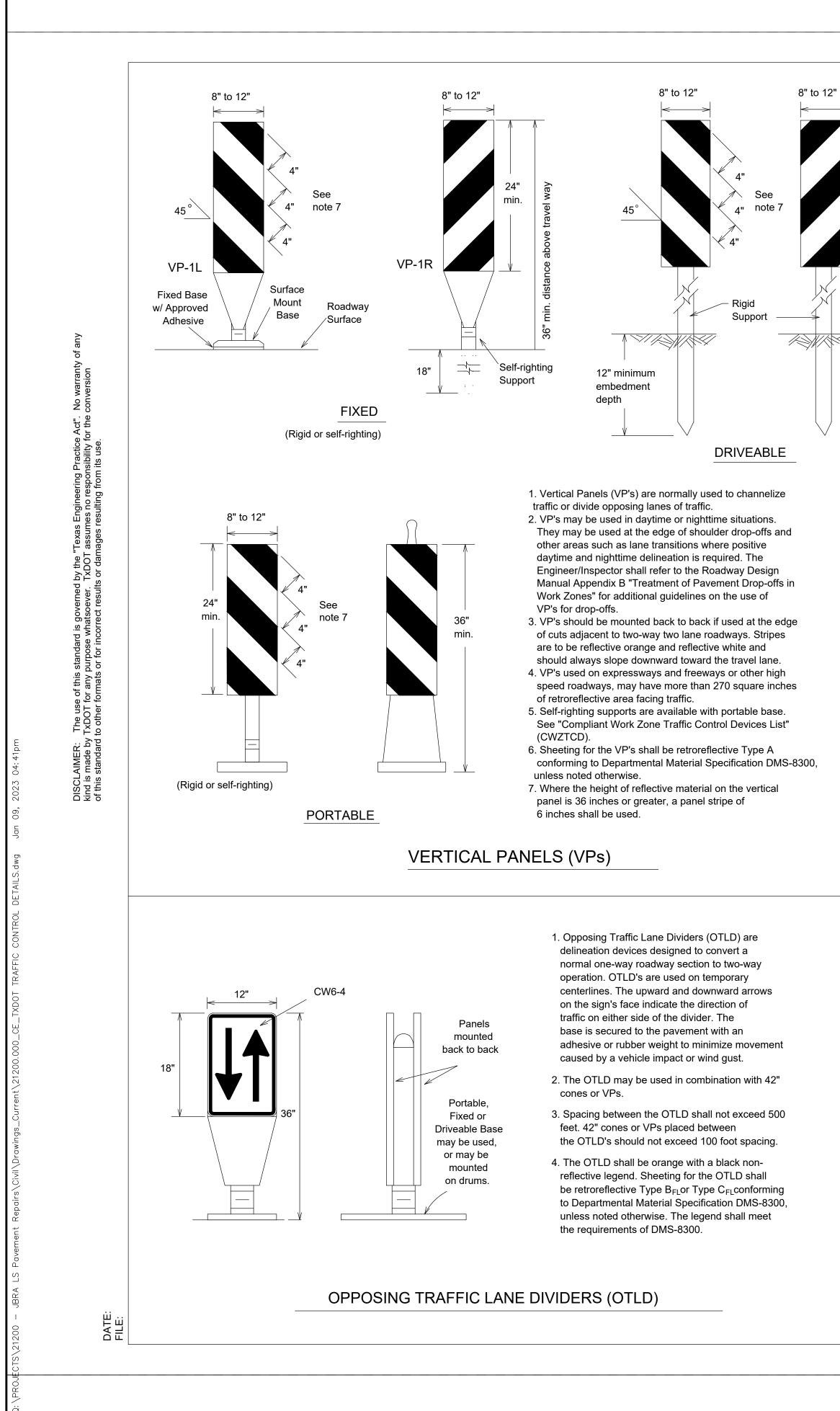


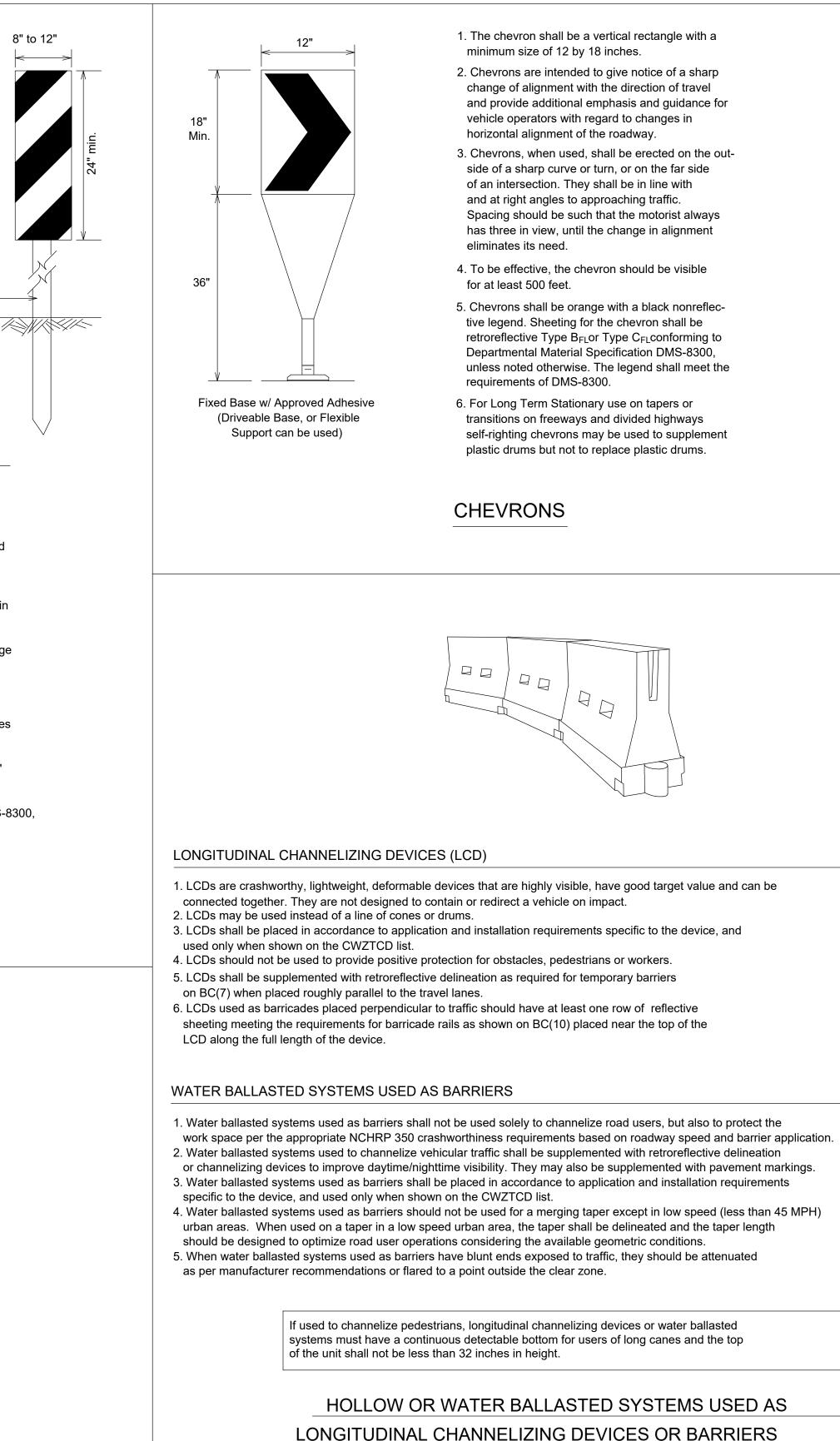
### DIRECTION INDICATOR BARRICADE

- 1. The Direction Indicator Barricade may be used in tapers, transitions, and other areas where specific directional
- guidance to drivers is necessary. 2. If used, the Direction Indicator Barricade should be used in series to direct the driver through the transition and into the intended travel lane.
- shall be as per DMS 8300.
- allowed. 5. Approved manufacturers are shown on the CWZTCD List.

DATE: FILE:







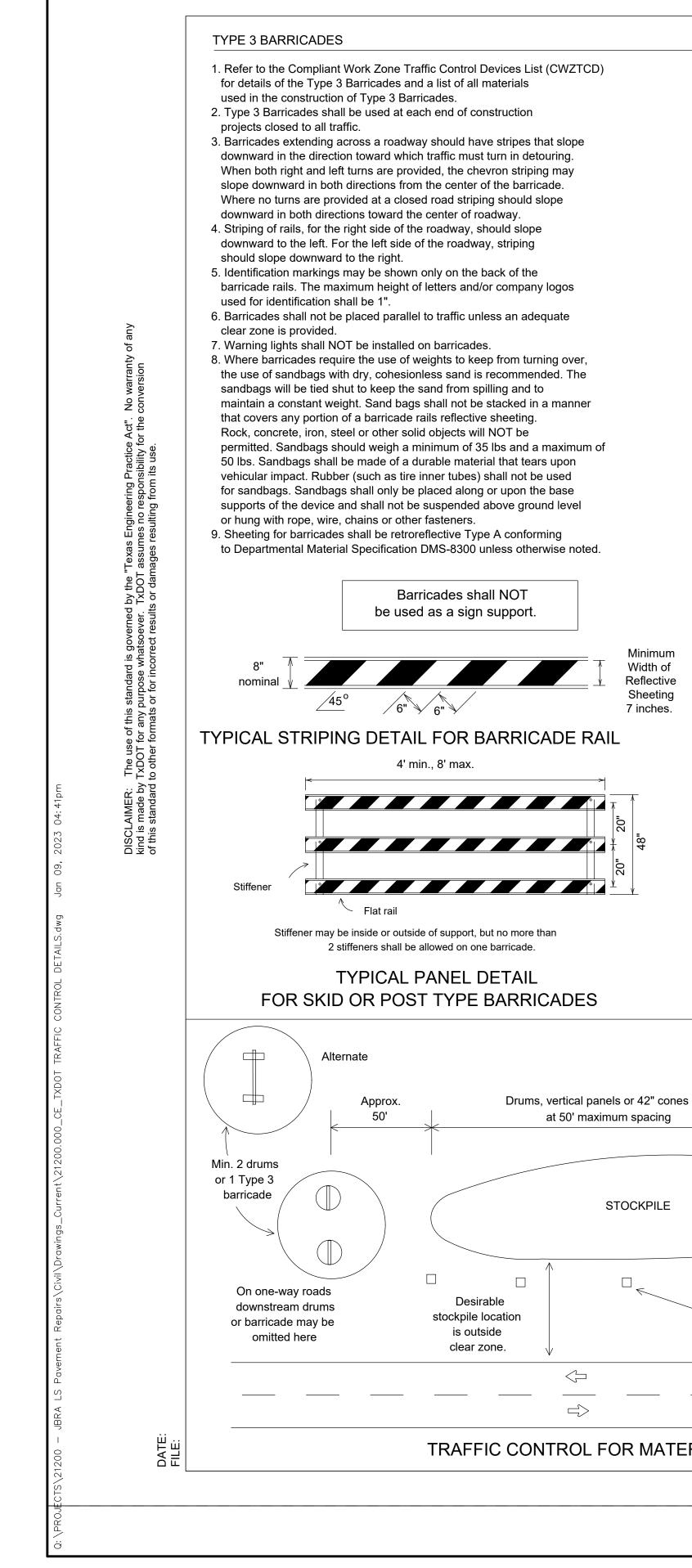
### GENERAL NOTES

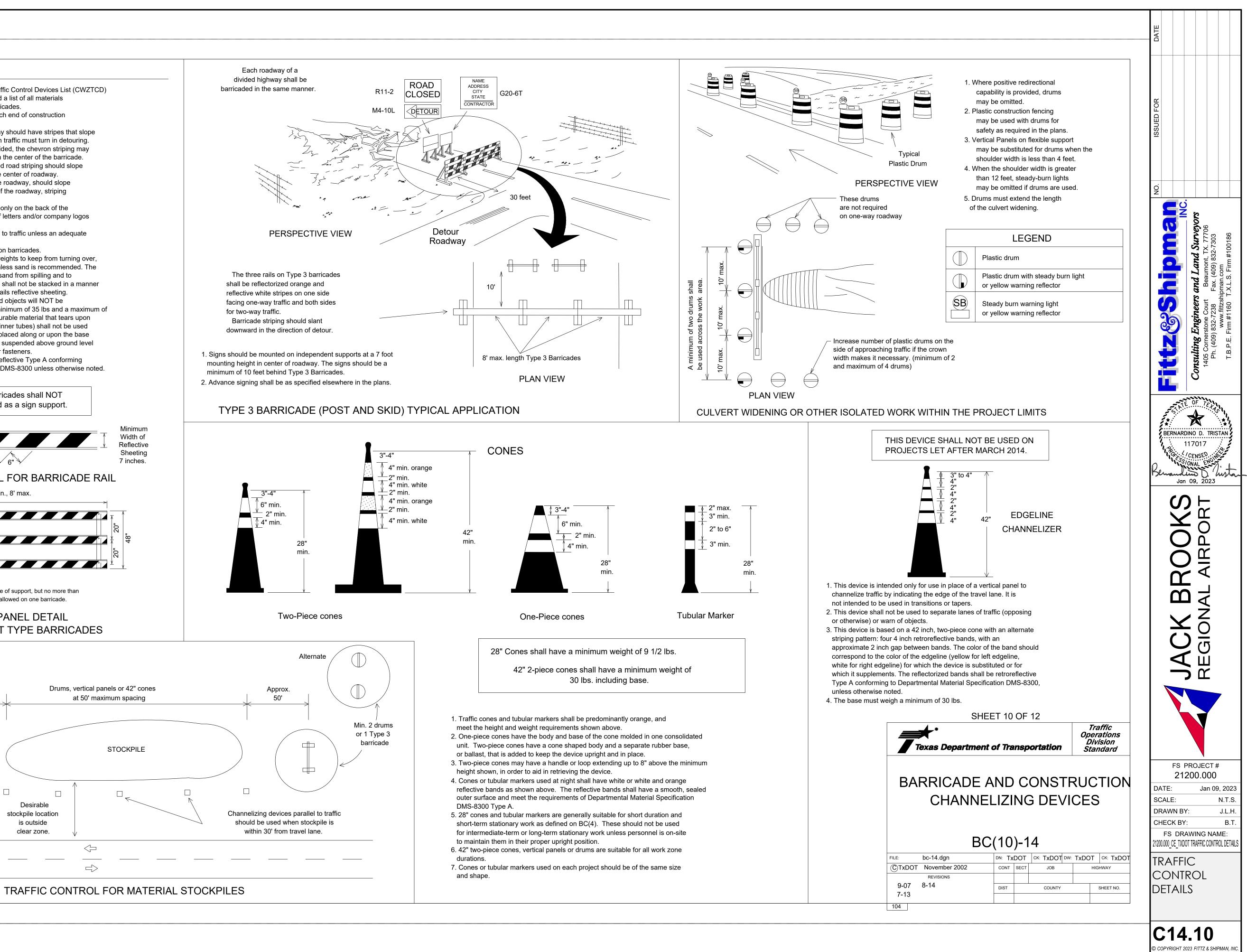
- 1. Work Zone channeliz in close proximity to t speed roadways. The placement is uniform Traffic Control Device 2. Channelizing devices
- portable base. The re be specified in the Ge Channelizing devices areas where channel
- or vehicle related wind difficult to maintain. L where in the plans. T "Compliant Work Zon 4. The Contractor shall damaged, nonreflectiv
- the Engineer/Inspect device spacing and a 5. Portable bases shall
- portable bases shall 6. Pavement surfaces between the adhesive Adhesives shall be pr recommendations.
- 7. The installation and detrimental effects to surface discoloration permitted on final pav all application and rer

- If used to channelize pedestrians, longitudinal channelizing devices or water ballasted systems must have a continuous detectable bottom for users of long canes and the top
- HOLLOW OR WATER BALLASTED SYSTEMS USED AS LONGITUDINAL CHANNELIZING DEVICES OR BARRIERS

- 1. The chevron shall be a vertical rectangle with a
- 2. Chevrons are intended to give notice of a sharp change of alignment with the direction of travel and provide additional emphasis and guidance for vehicle operators with regard to changes in horizontal alignment of the roadway.
- 3. Chevrons, when used, shall be erected on the outside of a sharp curve or turn, or on the far side of an intersection. They shall be in line with and at right angles to approaching traffic. Spacing should be such that the motorist always has three in view, until the change in alignment
- 4. To be effective, the chevron should be visible
- 5. Chevrons shall be orange with a black nonreflective legend. Sheeting for the chevron shall be retroreflective Type B_{FL}or Type C_{FL}conforming to Departmental Material Specification DMS-8300, unless noted otherwise. The legend shall meet the
- 6. For Long Term Stationary use on tapers or transitions on freeways and divided highways self-righting chevrons may be used to supplement plastic drums but not to replace plastic drums.

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Minimum

Width of

Reflective

Sheeting

7 inches.

STOCKPILE

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# WORK ZONE PAVEMENT MARKINGS

### GENERAL

- 1. The Contractor shall be responsible for maintaining work zone and existing pavement markings, in accordance with the standard specifications and special provisions, on all roadways open to traffic within the CSJ limits unless otherwise stated in the plans.
- 2. Color, patterns and dimensions shall be in conformance with the "Texas Manual on Uniform Traffic Control Devices" (TMUTCD).
- 3. Additional supplemental pavement marking details may be found in the plans or specifications.
- 4. Pavement markings shall be installed in accordance with the TMUTCD and as shown on the plans.
- 5. When short term markings are required on the plans, short term markings shall conform with the TMUTCD, the plans and details as shown on the Standard Plan Sheet WZ(STPM).
- 6. When standard pavement markings are not in place and the roadway is opened to traffic, DO NOT PASS signs shall be erected to mark the beginning of the sections where passing is prohibited and PASS WITH CARE signs at the beginning of sections where passing is permitted.
- 7. All work zone pavement markings shall be installed in accordance with Item 662, "Work Zone Pavement Markings."

#### RAISED PAVEMENT MARKERS

- 1. Raised pavement markers are to be placed according to the patterns on BC(12).
- 2. All raised pavement markers used for work zone markings shall meet the requirements of Item 672, "RAISED PAVEMENT MARKERS" and Departmental Material Specification DMS-4200 or DMS-4300.

#### PREFABRICATED PAVEMENT MARKINGS

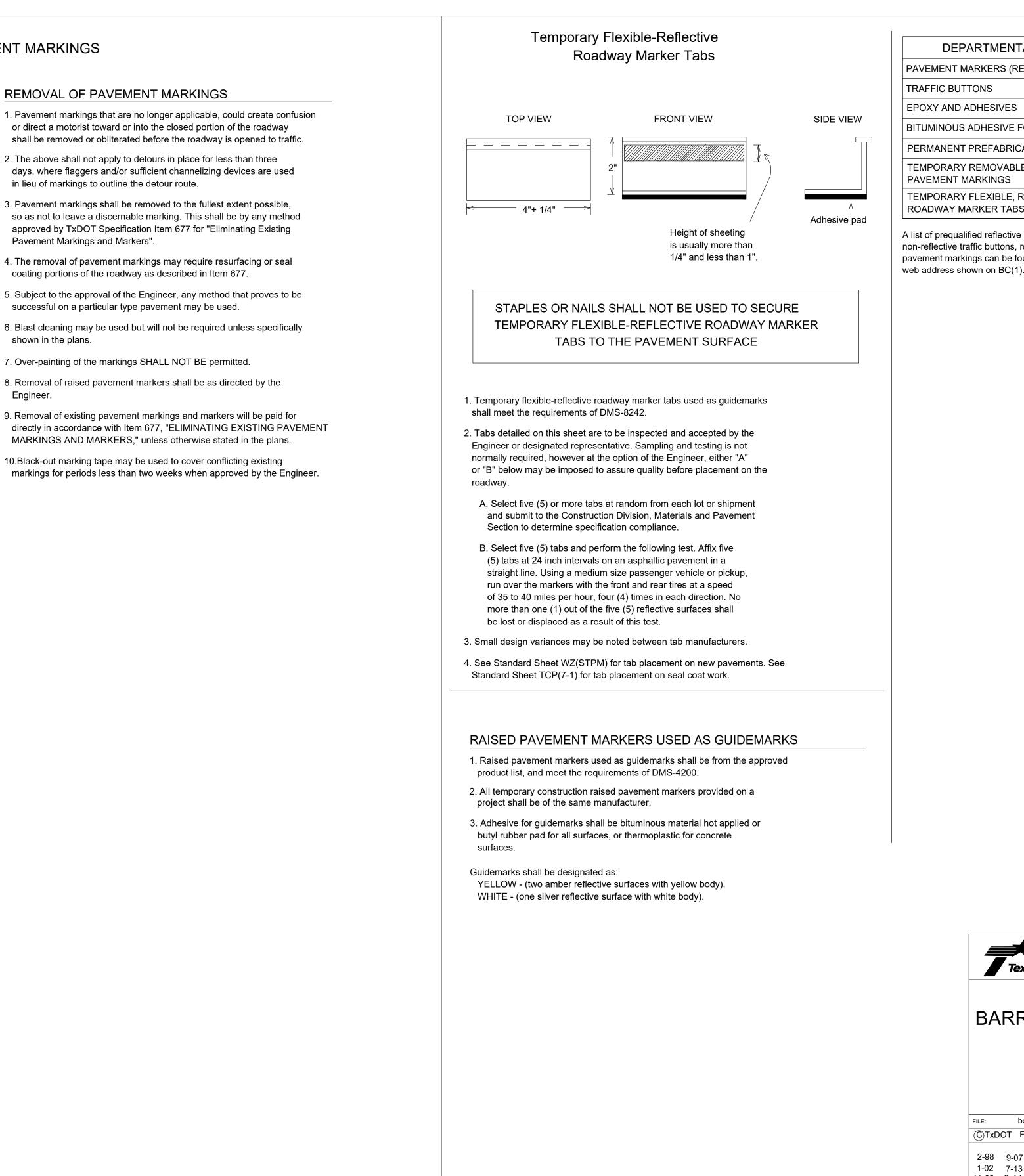
- 1. Removable prefabricated pavement markings shall meet the requirements of DMS-8241.
- 2. Non-removable prefabricated pavement markings (foil back) shall meet the requirements of DMS-8240.

### MAINTAINING WORK ZONE PAVEMENT MARKINGS

- 1. The Contractor will be responsible for maintaining work zone pavement markings within the work limits.
- 2. Work zone pavement markings shall be inspected in accordance with the frequency and reporting requirements of work zone traffic control device inspections as required by Form 599.
- 3. The markings should provide a visible reference for a minimum distance of 300 feet during normal daylight hours and 160 feet when illuminated by automobile low-beam headlights at night, unless sight distance is restricted by roadway geometrics.
- 4. Markings failing to meet this criteria within the first 30 days after placement shall be replaced at the expense of the Contractor as per Specification Item 662.

#### **REMOVAL OF PAVEMENT MARKINGS**

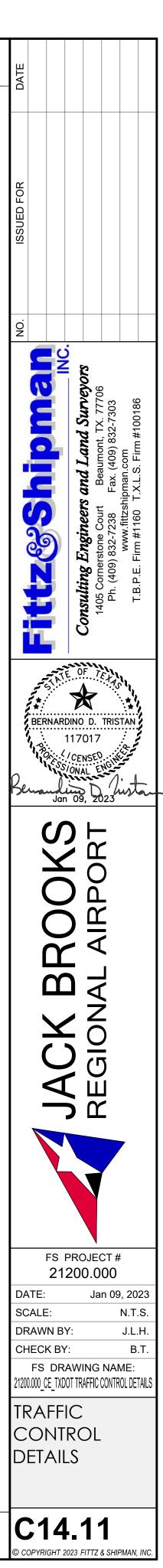
- 1. Pavement markings that are no longer applicable, could create confusion or direct a motorist toward or into the closed portion of the roadway shall be removed or obliterated before the roadway is opened to traffic.
- 2. The above shall not apply to detours in place for less than three days, where flaggers and/or sufficient channelizing devices are used in lieu of markings to outline the detour route.
- 3. Pavement markings shall be removed to the fullest extent possible, so as not to leave a discernable marking. This shall be by any method approved by TxDOT Specification Item 677 for "Eliminating Existing Pavement Markings and Markers".
- 4. The removal of pavement markings may require resurfacing or seal coating portions of the roadway as described in Item 677.
- 5. Subject to the approval of the Engineer, any method that proves to be successful on a particular type pavement may be used.
- shown in the plans.
- 7. Over-painting of the markings SHALL NOT BE permitted.
- 8. Removal of raised pavement markers shall be as directed by the Engineer.
- 9. Removal of existing pavement markings and markers will be paid for directly in accordance with Item 677, "ELIMINATING EXISTING PAVEMENT MARKINGS AND MARKERS," unless otherwise stated in the plans.
- 10.Black-out marking tape may be used to cover conflicting existing markings for periods less than two weeks when approved by the Engineer.

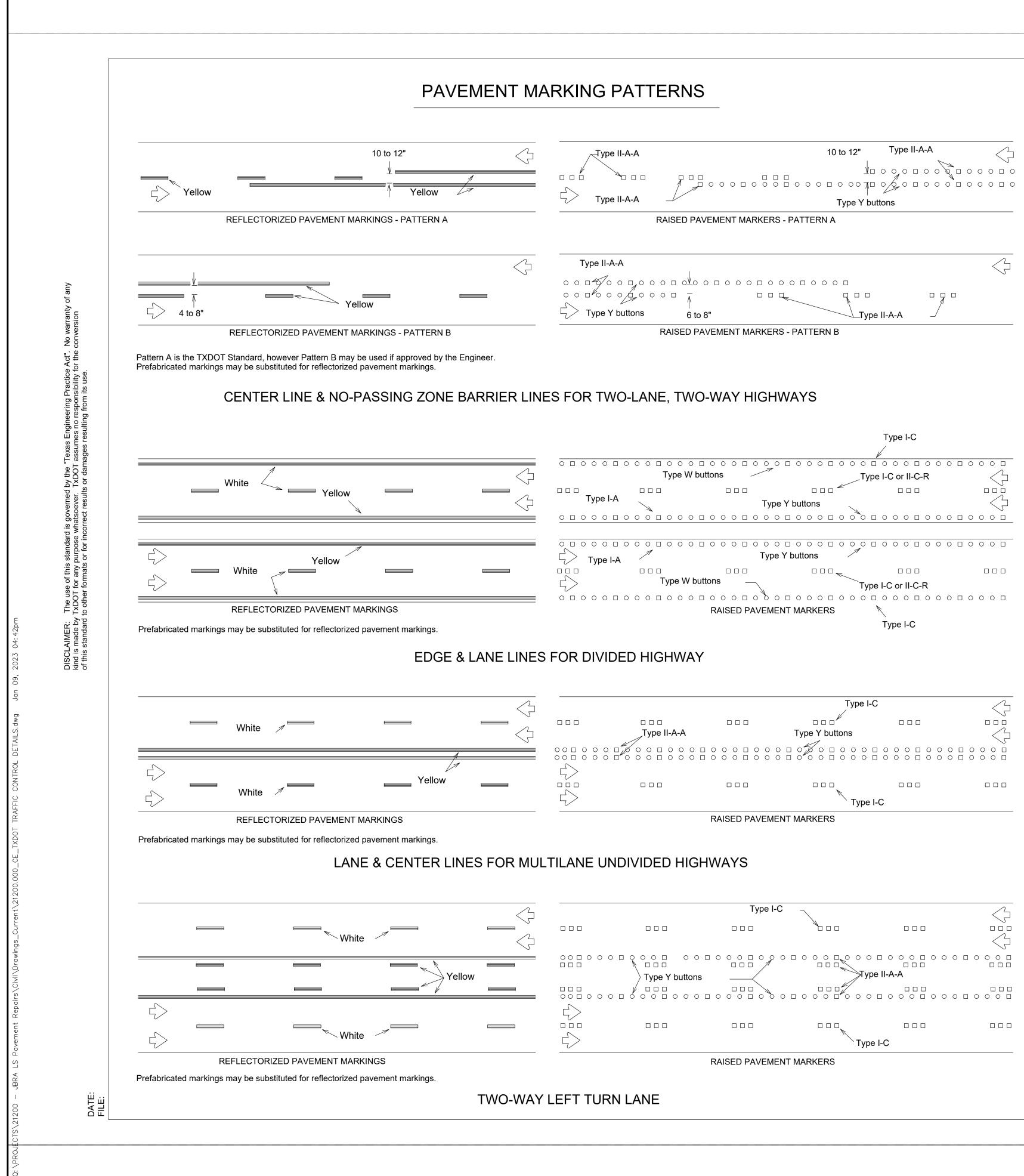


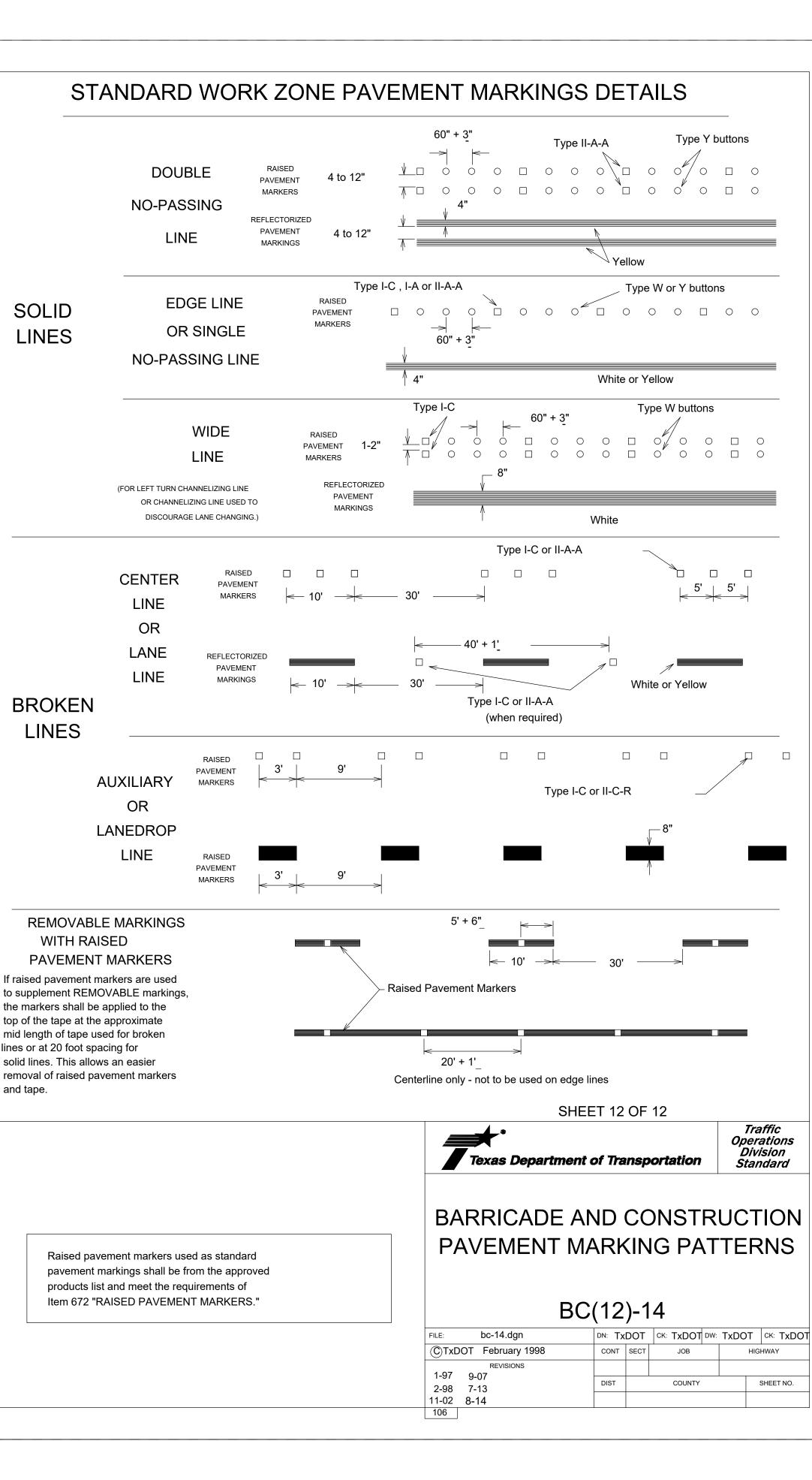
EPARTMENTAL MATERIAL SPECIFICATIONS	,
T MARKERS (REFLECTORIZED)	DMS-4200
BUTTONS	DMS-4300
ID ADHESIVES	DMS-6100
US ADHESIVE FOR PAVEMENT MARKERS	DMS-6130
NT PREFABRICATED PAVEMENT MARKINGS	DMS-8240
RY REMOVABLE, PREFABRICATED T MARKINGS	DMS-8241
RY FLEXIBLE, REFLECTIVE / MARKER TABS	DMS-8242

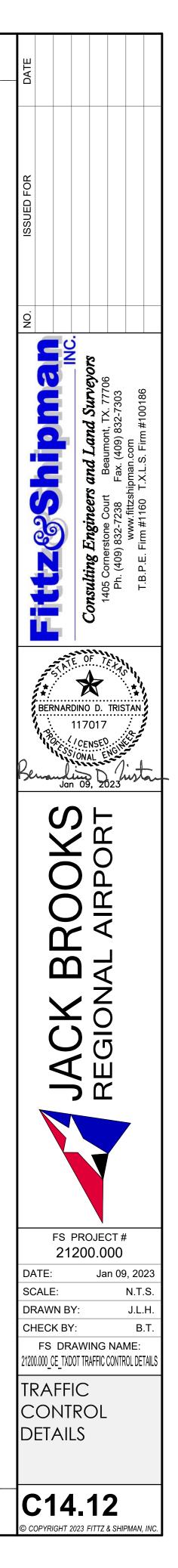
A list of prequalified reflective raised pavement markers, non-reflective traffic buttons, roadway marker tabs and other pavement markings can be found at the Material Producer List

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SHE	ET 11 OF 12			
Texas Department	t of Transporta	Ope Di	raffic rations vision ondard	
BARRICADE A PAVEME BC			FION	FS 2´ DATE: SCALE: DRAWN E CHECK B FS DF 21200.000_CE_T
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#### **GEOTECHNICAL INVESTIGATION**

FOR

#### LANDSIDE PAVEMENT REPAIR AT JACK BROOKS REGIONAL AIRPORT

IN

**BEAUMONT, TEXAS** 

**REPORT NUMBER: 22130** 

**REPORTED TO:** 

FITTZ & SHIPMAN, INC. 1405 CORNERSTONE COURT BEAUMONT, TEXAS 77706

**MARCH 2022** 

### PREPARED BY: SCIENCE ENGINEERING, LTD.

P.O. Box 2048 Nederland, Texas 77627 Ph: (409) 982-0686 Fax: (409) 982-0619 Email: yousef@science-engineer.com

#### GEOTECHNICAL INVESTIGATION Pavement Repairs Beaumont, Texas

#### **INTRODUCTION**

The study reported herein is an investigation of subsurface conditions for proposed landside pavement repairs at Jack Brooks Regional Airport in Beaumont, Texas.

#### **AUTHORIZATION**

This investigation was authorized by Mr. Ben Tristan, P.E. by signed proposal dated December 16, 2021.

#### **SUBSURFACE EXPLORATION**

The subsurface exploration at the site was accomplished by means of eleven (11) undisturbed sample core borings drilled to depths of approximately ten (10) feet below existing ground surface. Approximate locations of the borings are shown on the attached boring plan.

#### **SUBSURFACE INVESTIGATION**

The subsurface investigation consisted of drilling three-inch (3") nominal diameter core borings. Undisturbed samples of the cohesive soils were obtained from the borings by means of thin-wall, seamless steel Shelby tube samplers, in accordance with the ASTM D-1587 method. The shear strength of the cohesive soil samples was estimated by hand pentrometer in the field.

All undisturbed samples were extracted mechanically from the core barrels in the field, classified, wrapped in aluminum foil, and sealed in airtight plastic bags to prevent moisture loss and disturbance. The samples were transported to our laboratory for testing and further study.

#### LABORATORY INVESTIGATIONS

All samples from borings were examined and classified in the laboratory by a soil engineer, according to procedures outlined in ASTM D-2488. Laboratory tests were performed on selected soil samples in order to evaluate the engineering properties of the soil in accordance with the indicated standard procedures.

Laboratory Tests	ASTM Standard
Atterberg Limits [Liquid Limit (LL), Plastic Limit (PL), Plasticity Index (PI)]	D-4318
Soil Moisture Content	D-2216
Unconfined Compressive Strength	D-2166
Soils Classification	D-2487

Undrained shear strength of selected cohesive soils was determined by unconfined compression tests. Water content and dry unit weight of the foundation soils were determined as routine parts of the unconfined compression tests. Atterberg limits tests were performed on appropriate cohesive samples. The results of these tests are shown on the attached boring logs.

#### **SUBSURFACE CONDITIONS**

Specific types and depths of subsurface strata encountered on the site are shown on the attached boring logs. Review of the boring logs indicates that generalized stratography is approximately as follows:

Stratum No.	Average Depth, feet	Soil Description
l	0.00 - 0.54	Concrete on Borings B-1, B-3, B-5, B-6 and B-7
II	0.54 - 10.00	Dark Gray and Tan CLAY (CH) with ferrous and calcareous nodules and slickensides

The near surface soils are "CH" type soils when classified by the unified soils classification system. This type soil normally exhibits high swell potential during seasonal moisture variations.

#### GROUNDWATER

Hydrostatic water was not encountered at the time of drilling.

#### **CONSTRUCTION VARIATIONS**

The information contained in this report summarizes conditions found on the date that the borings were drilled. The depth to the static water table may be expected to vary with the environmental variations, such as frequency and magnitude of precipitation and the time of year that construction begins.

### PAVING DESIGN

Based on the results of the field borings and laboratory tests, the following sections may be considered for use in new paving. Economics should dictate which section is utilized by the Structural Engineer.

#### **PORTLAND CEMENT CONCRETE PAVEMENT**

Concrete paving may be constructed using a Portland Cement Reinforced Concrete Pavement. Seven-inch (7") concrete over eight-inch (8") lime stabilized sub-grade should be considered. The thickness of the paving should meet the minimum requirements by the City of Beaumont.

In order to control vertical displacement and resulting cracking, which may occur due to potential swelling of the surface clays, it is recommended that the subgrade beneath the concrete pavement be stabilized by hydrated lime.

Subgrade preparation should consist of removing concrete. Then scarify the subgrade to a depth of eight (8) inches and stabilize with ten to twelve (10-12) percent of hydrated lime by dry unit weight and is usually sufficient for similar clay soils; however, the actual lime quality needed to stabilize on-site clays should be determined prior to construction. The soil-lime mixture should be compacted to a minimum of 95% of Standard Proctor Density (ASTM D-698).

Lime stabilization should conform to Texas Highway Department 2014 Standard Specifications Item 260, which describes material and construction methods for lime treatment of materials in place.

#### SITE PREPARATION

In order to remedy construction problems, which may develop if attempts are made to work the surface materials following prolonged periods of rainfall which are common to this area, it is recommended that prior to starting any work at the site that proper construction drainage is to be provided to maintain a relatively dry construction site. (Use a minimum slope of 5% within 10 feet of the foundation).

#### **LIMITATIONS**

The conclusions and recommendations given in this report are based on the analysis of the data collected for this project. Additive conclusions or recommendations made from this data by others are their responsibility.

Our study is based on the data obtained from soil borings made at the locations shown on boring plan. The nature and extent of variations between borings may become evident during construction. We should be requested to observe exposed conditions. After making these observations, and noting the engineering significance of variations, we will advise you of any changes in recommendations believed appropriate.

We appreciate this opportunity to provide our services to this project. Please let us know if you require additional information. Thank you.

#### Respectfully submitted for the firm, TBPE Registration No. 4060



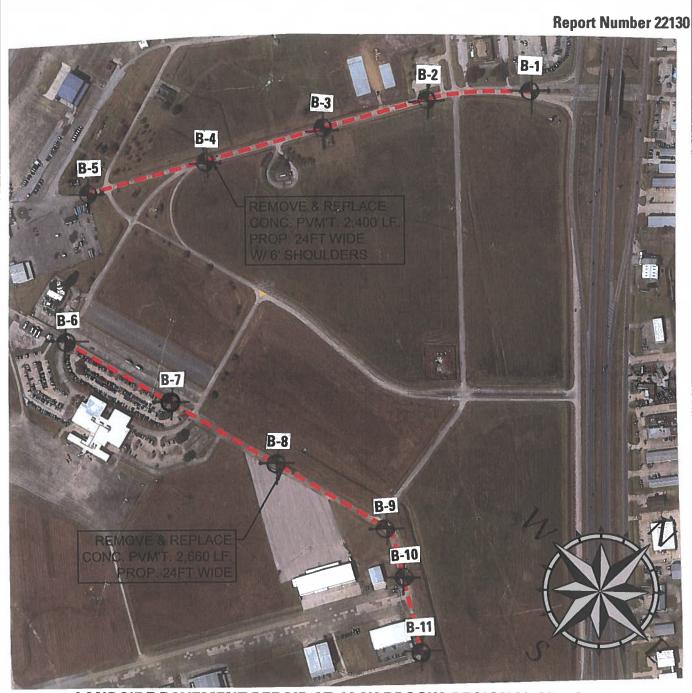
#### Yousef Rahmani, P.E. President

Enclosures:	Boring Plan Boring Logs 1 -11 Soils Classification
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Copies: 1 – Client 1 – SEL File 22130

YR/mr





### LANDSIDE PAVEMENT REPAIR AT JACK BROOKS REGIONAL AIRPORT

### **BEAUMONT, TEXAS**

**MARCH 2022** 

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				LOG OF B	DRIN	G						
Projec	t:			Pavement Repair at Jack Brooks Airport in Beaumont, Texas			ot No.	22120				
Boring Locati Dry Au	on:			B-1 See Attached Boring Plan 0 to 10 Feet	Da	ate of F ate of B	ect No: Report: Boring: zation:	03/07/ 02/25/		ne		
<u> </u>		П									SHEAR S	TRENGTH
DEPTH, FEET	SYMBOL	SAMPLE	BLOWS PER FOOT	STRATUM DESCRIPTION	WATER CONTENT (%)	DRY DENSITY (PCF)	רוסחום רואוב	PLASTIC LIMIT	PLASTICITY INDEX (PI)	PERCENT PASSING NO. 200 SIEVE	POCKET PENETROMETER (TSF)	UNCONFINED COMPRESSIVE STRENGTH (TSF)
_	104			3.75" concrete								
				Dark Gray CLAY with ferrous and calcarous nodules			82	26	56		0.50	
											0.50	
											0.75	0.50
5				_ tan and gray with ferrous and calcareous nodules	28	89	88	27	61		0.75	0.50
											0.75	
				slickensidesCH	30	90	75	24	51		0.75	0.30
10 				Bottom at 10 Feet 1. Water was not encountered during drilling.								

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							LOG	DF BC	DRIN	G								
Proje	ct:						k Brooks											
Denia				Airport i	n Beaum	iont, Tex B-2	(as		0.	-	ect No:	-	0000		_			_
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Dry A				0	to	10	Feet		A	uthoriz	zation:	Mr. J	eff Carbo	ne				-
															٦	SHEAR S	<b>FRENG</b>	
DEPTH, FEET	SYMBOL	SAMPLE	BLOWS PER FOOT			UM DE	SCRIPTION		WATER CONTENT (%)	DRY DENSITY (PCF)	LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX (PI)	PERCENT PASSING	NU. 200 SIEVE	ER		STRENGTH (TSF)
					50" base	01.4.V	the former of				71		40		_	0.50		
					ink Gray	LAT WI	ith ferrous				71	23	48			0.50		
F -				110	aulos				32	87	88	26	62			0.75	0.	50
		1																
_ 5 _				_	tan ar	nd gray										0.65		
<u> </u>										00	01				_	1.00	0	
									26	93	81	24	57		_	1.00	0.9	50
								СН								1.00		
10																		
L .	4				B	ottom at	t 10 Feet											
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+ -	-			1.		g drilling					<u> </u>				_			
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				LOG	)F B(	DRIN	G							
	ional Airp	vement Repair port in Beaumo B See Attache 0 <b>to</b>	ont, Tex -3	as		Da	ite of R ite of B	ct No: eport: oring: ation:	03/07/ 02/25/		one			
DEPTH, FEET Symbol Sample	BLOWS PER FOOT			SCRIPTION		WATER CONTENT (%)	DRY DENSITY (PCF)	<b>ΓΙΟΛΙD ΓΙΜΙΤ</b>	PLASTIC LIMIT	PLASTICITY INDEX (PI)	PERCENT PASSING	NO. 200 SIEVE	65	UNCONFINED COMPRESSIVE STRENGTH (TSF)
5		5.62" concre Dark Gray C calcarous n tan and	LAY wit odules	th ferrous and		26	93	60 87	22	62			0.50	0.70
	• • -	1. Water		10 Feet t encountered	СН									

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				LOG OF B	ORIN	G							
Project Boring Locatic Dry Au	Nun on:	Reg	ional /	Pavement Repair at Jack Brooks Airport in Beaumont, Texas B-4 See Attached Boring Plan 0 to 10 Feet	Da	ite of R ite of B	ct No: leport: loring: zation:	03/07/ 02/25/		one			
		Π										SHEAR S	TRENGTH
DEPTH, FEET	SYMBOL	SAMPLE	BLOWS PER FOOT	STRATUM DESCRIPTION	WATER CONTENT (%)	DRY DENSITY (PCF)	LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX (PI)	PERCENT PASSING	NO. 200 SIEVE	POCKET PENETROMETER (TSF)	UNCONFINED Compressive Strength (TSF)
				Dark Gray CLAY with ferrous									
┝╶┥				nodules	<u> </u>		53	20	33			0.50	
┝╶┥					22	101	54	21	33	-		0.65	0.70
- 5 -				<ul> <li>tan and gray with ferrous and calcareous nodules</li> </ul>								0.75	
					22	99	95	28	67			1.00	0.50
				СН								1.00	
_ 10 _ 				Bottom at 10 Feet									
				<ol> <li>Water was not encountered during drilling.</li> </ol>									
			1										
										<u> </u>			

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LOG OF BORING Landside Pavement Repair at Jack Brooks **Project:** Regional Airport in Beaumont, Texas Project No: 22130 **Boring Number:** B-5 Date of Report: 03/07/2022 Location: See Attached Boring Plan Date of Boring: 02/25/2022 **Dry Auger:** 10 Authorization: Mr. Jeff Carbone 0 to Feet SHEAR STRENGTH **NATER CONTENT (%)** PERCENT PASSING **DRY DENSITY (PCF)** PLASTICITY INDEX **BLOWS PER FOOT STRATUM DESCRIPTION** PENETROMETER STRENGTH (TSF) COMPRESSIVE PLASTIC LIMIT NO. 200 SIEVE UNCONFINED **JOUID LIMIT JEPTH, FEET** SAMPLE SYMBOL POCKET TSF) Ê 5.50" concrete Dark Gray CLAY with ferrous 57 22 35 0.25 nodules 36 0.50 34 87 58 22 0.40 5 tan and gray 0.50 28 90 27 63 0.75 0.60 89 CH 0.75 10 Bottom at 10 Feet 1. Water was not encountered during drilling.

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Project:       Landside Pavement Repair at Jack Brooks Regional Airport in Beaumont, Texas       Project No:       22130         Boring Number:       B-6       Date of Report:       03/07/2022         Location:       See Attached Boring Plan       Date of Boring:       02/25/2022         Dry Auger:       0       10       Feet       Authorization:       Mr. Jeff Carbone         Image:       0       10       Feet       Image:       Image:       SHEAR STRENGTH		1.5%	0		LOG OF BO	DRIN	G		3 (7)					
Regional Airport in Beaumont, Texas         Boring Number:       B-6       Date of Report:       0.010       Feet       Date of Boring:       0.02/25/2022         Dry Auger:       0       to       10       Feet       Authorization:       Mr. Jeff Carbone         Light of the state of Report:       0.010       Feet       Authorization:       Mr. Jeff Carbone         Light of the state of Report:       0.010       Feet       Authorization:       Mr. Jeff Carbone         Light of the state of Report:       0.010       Feet       Authorization:       Mr. Jeff Carbone         Light of the state of Report:       0.010       Feet       Authorization:       Mr. Jeff Carbone         Light of the state of Report:       0.010       STRATUM DESCRIPTION       Light of the state of Report:       Niss of the state of the state of Report:       Niss of the state of Report:       Niss of the state of the	Proiec	t:	Lan	dside			-							
Location:       See Attached Boring Plan       Date of Boring: 02/25/2022         Dry Auger:       0       to       10       Feet       Authorization:       Mr. Jeff Carbone         Light       STRATUM DESCRIPTION       (%)       (%)       (%)       (%)       (%)       (%)       (%)       (%)       (%)       (%)       (%)       (%)       (%)       (%)       (%)       (%)       (%)       (%)       (%)       (%)       (%)       (%)       (%)       (%)       (%)       (%)       (%)       (%)       (%)       (%)       (%)       (%)       (%)       (%)       (%)       (%)       (%)       (%)       (%)       (%)       (%)       (%)       (%)       (%)       (%)       (%)       (%)       (%)       (%)       (%)       (%)       (%)       (%)       (%)       (%)       (%)       (%)       (%)       (%)       (%)       (%)       (%)       (%)       (%)       (%)       (%)       (%)       (%)       (%)       (%)       (%)       (%)       (%)       (%)       (%)       (%)       (%)       (%)       (%)       (%)       (%)       (%)       (%)       (%)       (%)       (%)       (%)			Reg	ional	Airport in Beaumont, Texas									
Dry Auger:       0       to       10       Feet       Authorization:       Mr. Jeff Carbone         List       10       Feet       Authorization:       Mr. Jeff Carbone         STRATUM DESCRIPTION       10       Feet       Name       Name       SHEAR STRENGTH         100       Harding       10       Feet       Name       Name       SHEAR STRENGTH         100       Harding       Name       Nam			nber	:	· · · · ·									
Light         STRATUM DESCRIPTION         STRATUM DESCRIPTION         SHEAR STRENGTH           108MLS         5         7.00° concrete         1000 Hight of the stress of the stre						Da	te of B	loring:	02/25/	2022				
Light Hading         STRATUM DESCRIPTION         Image: Stratum of the strate st	Dry Au	ger:			0 to 10 Feet	A	uthoriz	zation:	Mr. Je	eff Carbo	ne			
7.00° concrete       7.00° concre       7.00° concrete       7.00° c	TH, FEET	BOL	PLE	<b>NS PER FOOT</b>	STRATUM DESCRIPTION	ER CONTENT (%)	DENSITY (PCF)	id Limit	STIC LIMIT	STICITY INDEX	CENT PASSING	200 SIEVE		Ē
7.00° concrete       7.00° concre       7.00° concrete       7.00° c	DEP	SYM	SAM	BLOI		L AN	DRY		LA:	PLA	PER	NO.	PEN	COM STRE
nodules		jai			7.00" concrete									/
gray       37       79       105       29       76       0.35       0.40         5       tan and gray with ferrous and calcareous nodules       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i	[ ]							77	23	44			0.25	
gray					nodules									
5       tan and gray with ferrous and calcareous nodules       0.50         25       96       89       26       63       0.75       0.60         25       96       89       26       63       0.75       0.60         CH	L -					37	79	105	29	76	<u> </u>		0.35	0.40
calcareous nodules	- <u>-</u> -					<u> </u>					-		0.50	
25       96       89       26       63       0.75       0.60         CH	- ° -					<u> </u>							0.50	
10     Bottom at 10 Feet     Image: Constraint of the set of the						25	96	89	26	63			0.75	0.60
10     Bottom at 10 Feet     Image: Constraint of the set of the					СН								1.00	
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IFB 23-009/JW.LANDSIDE ROAD PAVEMENT REPAIRS-JBRA PAGE 184 OF 190



<u> </u>				LOG OF BO	DRIN	G							
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	9011	Π										SHEAR S	TRENGTH
DEPTH, FEET	SYMBOL	SAMPLE	BLOWS PER FOOT	STRATUM DESCRIPTION	WATER CONTENT (%)	DRY DENSITY (PCF)	נוסטום נואוד	PLASTIC LIMIT	PLASTICITY INDEX (PI)	PERCENT PASSING	NO. 200 SIEVE	POCKET PENETROMETER (TSF)	UNCONFINED Compressive Strength (TSF)
L _	JKF			6.37" concrete									
┝ -				Dark Gray CLAY with ferrous	ļ		51	21	30			0.25	
				nodules								0.75	
												0.75	
5		j		_ tan and gray with ferrous and	26	95	85	23	62			0.75	0.60
				calcareous nodules								1.00	
10				СН	21	101	67	22	45			1.00	0.75
				Bottom at 10 Feet 1. Water was not encountered during drilling.									



						LOG	OF BO	DRIN	G								
Project: Boring Nu Location: Dry Auger:	Reç mber	jional A	Airport	in Beaum	iont, Te B-8			Da	te of R te of B	ct No: eport: oring: ation:	03/07/ 02/25/	2022 2022 eff Carbo	one				
															SHEAR S	TREN	GTH
DEPTH, FEET Symbol	SAMPLE	BLOWS PER FOOT				ESCRIPTION		WATER CONTENT (%)	DRY DENSITY (PCF)	ΓΙΦΛΙΡ ΓΙΜΙΤ	PLASTIC LIMIT	PLASTICITY INDEX (PI)	PERCENT PASSING	NO. 200 SIEVE	POCKET PENETROMETER (TSF)	UNCONFINED	COMPRESSIVE Strength (TSF)
				ark Gray⊺ odules	CLAY w	ith ferrous				60	22	46			0.25	<b> </b>	
			nc	Julies				<u> </u>		69	23	46	+		0.25		
								39	77	96	28	68			0.25	0	.40
5					nd ton										0.20	<u> </u>	
- ° -			-	gray a	nd tan								-		0.30	-	
			-	tan ar	nd gray			30	90	87	24	63			0.50	0	.44
							СН	$\vdash$					┢		0.50		
			1.	Wate		t 10 Feet ot encountere g.											



[								LOG	OF BC	DRIN	G										
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Boring	Nun					B-9				Da		eport:					-				_
Locati			•	Se	e Attach	ed Bori	ng Plar	n				oring:									
Dry Au	iger:			0	to	10	_ Feet	1		Α	uthoriz	ation:	Mr. Je	eff Ca	irbo	ne					
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DEPTH, FEET	SYMBOL	SAMPLE	BLOWS PER FOOT			ium di				WATER CONTENT (%)	DRY DENSITY (PCF)	ΓΙΦΛΙD ΓΙΜΙΤ	PLASTIC LIMIT	PLASTICITY INDEX	(PI)	PERCENT PASSING	NO. 200 SIEVE	POCKET	PENETROMETER (TSF)	UNCONFINED	COMPRESSIVE Strength (TSF)
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<u>⊢</u> –				no	dules							69	22	47	7				).25	L	
										07	01	70	- 00					<u> </u>	50		40
					tan ai	nd gray				37	81	73	23	50	0			<u>μ</u>	.50	<u></u> μ	).40
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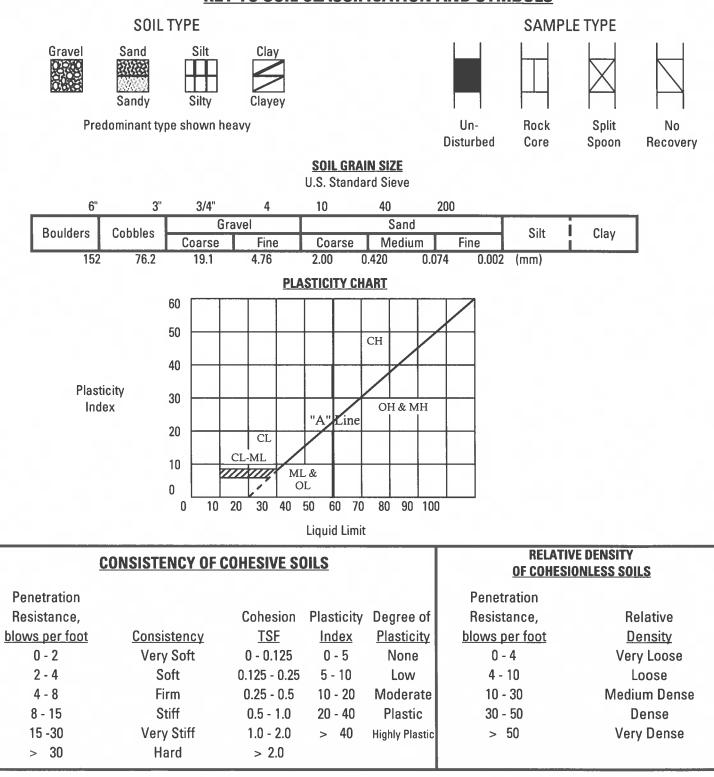
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### **KEY TO SOIL CLASSIFICATION AND SYMBOLS**



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