STATE OF LOUISIANA
DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT

CONSTRUCTION PROPOSAL

FEDERAL AID PROJECT

STATE PROJECT NO(S).
704-36-0032, 704-36-0034, 704-36-0035, 704-36-0036, 704-36-0037 & 704-36-0038
PERMANENT REPAIR TO FEDERAL AID ELIGILBE ROADS LEON C. SIMON DR., MIRABEAU AVE., FILMORE AVE., ST. BERNARD AVE., PARIS AVE. & ELYSIAN FIELDS AVE.
ORLEANS PARISH

STATE PROJECT NO(S). 704-36-0032, 704-36-0034, 704-36-0035, 704-36-0036, 704-36-0037 & 704-36-0038

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NOTICE TO CONTRACTORS (11/08)

Electronic bids and electronic bid bonds for the following project will be downloaded by the Department of Transportation and Development (DOTD) on **Wednesday, July 29, 2009. Paper bids and paper bid bonds will not be accepted.** Electronic bids and electronic bid bonds must be submitted through www.bidx.com prior to the electronic bidding deadline. Beginning at 10:00 a.m., all bids will be downloaded and posted online at http://www.dotd.la.gov/cgi-bin/construction.asp. No bids are accepted after 10:00 a.m.

DBE PROJECT
STATE PROJECT NO(S). 704-36-0032, 704-36-0034, 704-36-0035, 704-36-0036, 704-36-0037 & 704-36-0038
FEDERAL AID PROJECT NO(S). ER-ERP1(048) ER-ERP1(050), ER-ERP1(051), ER-ERP1(052), ER-ERP1(053) & ER-ERP1(054)
DESCRIPTION: Permanent Repair to Federal Aid Eligible Roads
ROUTE: Leon C. Simon Dr., Mirabeau Ave., Filmore Ave., St. Bernard Ave., Paris Ave. & Elysian Fields Ave.
PARISH: Orleans
LENGTH: 7.519 miles.
TYPE: COLD PLANE ASPHALTIC CONCRETE, ASPHALTIC CONCRETE PATCHING, CONCRETE PATCHING, ASPHALTIC CONCRETE OVERLAY, STRIPING, CONCRETE ADA RAMPS, SIDEWALK REPAIR, BICYCLE LANES, LANDSCAPE ENHANCEMENTS
LIMITS: State Project No. 704-36-0032: London Ave. Canal – Elysian Fields Ave.
LIMITS: State Project No. 704-36-0034: St. Bernard Ave. – Elysian Fields Ave.
LIMITS: State Project No. 704-36-0035: St. Bernard Ave. – Elysian Fields Ave.
LIMITS: State Project No. 704-36-0036: I-610 – Filmore Ave.
LIMITS: State Project No. 704-36-0037: I-610 – Mirabeau Ave.
LIMITS: State Project No. 704-36-0038: Lakeshore Dr. – US 90
ESTIMATED COST RANGE: $20,000,000.00 – $30,000,000.00
PROJECT ENGINEER: William Koutnik, (504) 827-5841, 2601 Canal Blvd., New Orleans, LA, 70119
DOTD COORDINATOR: Fred Wetekamm, (504) 437-3112
PROJECT MANAGER: Jeff Burst

Bids must be prepared and submitted in accordance with Section 102 of the 2006 Louisiana Standard Specifications for Roads and Bridges as amended by the project specifications, and must include all information required by the proposal.

Paper plans and/or proposals may be obtained in Room 101-A of the DOTD Headquarters Administration Building, 1201 Capitol Access Road in Baton Rouge, or by contacting the DOTD; Email: sharonknight@dotd.la.gov, Phone (225) 379-1111, FAX: (225) 379-1714, or by written requests sent to the Louisiana Department of Transportation and Development, Project Control Section, P. O. Box 94245, Baton Rouge, LA 70804-9245. Proposals will not be issued later than 24 hours prior to the time set for opening bids. All Addenda, Amendments, Letters of Clarification, and Withdrawal Notices will be posted online. **Paper notices will not be distributed.** Construction proposal information may be accessed via the Internet at www.dotd.la.gov. From the LA DOTD home page, select the following options: **Doing Business with DOTD**, then **Construction Letting Information**. Once the **Construction Letting Information** page appears, find the **Notice to Contractors** box. From the drop down menu, select the appropriate letting date and press the "Go To button to open the page, which provides a listing of all projects to be let and a **Construction Proposal Documents** link for each project. All project specific notices are found here. **It will be the responsibility of the bidder to check for updates.** If paper copies of the proposal are desired, the proposal cost is $25.00. Paper copies of the plans are included in the proposal (no additional charge). The purchase price for paper plans and proposals is non-refundable. Additionally, plans and specifications may be seen at the Project Engineer's office or in Room 101-A of the DOTD's Headquarters Administration Building in Baton Rouge. Upon request, the Project Engineer will show the work.

All questions concerning the plans shall be submitted via the Electronic Plans Distribution Center known as **Falcon**. Questions submitted within 96 hours of the bid deadline may not be answered prior to bidding. Falcon may be accessed via the Internet at www.dotd.la.gov. From the home page, select ***Doing Business with DOTD*** from the left-hand menu, then select ***Construction Letting Information*** on the pop-up menu. On the Construction Letting Information page, select the link, ***DOTD's Plan Room***. Login to Falcon (or request an ID if a first-time user). Once logged in, you will have access to view Project Information, submit a question concerning the project, and view the plans. All submitted questions will be forwarded by email to the Project Manager and the Project Engineer for a response.

The U. S. Department of Transportation (DOT) operates a toll free "Hotline" Monday through Friday, 8:00 a.m. to 5:00 p.m., eastern time. Anyone with knowledge of possible bid rigging, bidder collusion, or other fraudulent activities should call 1-800-424-9071. All information will be treated confidentially and caller anonymity will be respected.

SPECIAL NOTICE TO CONTRACTORS:

COORDINATION OF WORK: Upon notification by local government agencies of proposed work adjacent to this contract or other work within the area that will drastically impact traffic for an extended duration, the Project Engineer at the Pre-Construction Meeting can direct the contractor to provide an alternate construction plan. The contractor shall provide a plan in 3 working days to mitigate or minimize disruption to traffic flow in the area.

If construction activities have begun and the Project Engineer is notified by the local government agency of proposed work which will begin adjacent to or within the area, the contractor shall coordinate his work activities with this subject work to minimize disruption to traffic flow in the area.

GEOTECHNICAL DATA (INFORMATIONAL PURPOSES ONLY): A copy of the Report for Pavement Evaluations and Repair Recommendations will be available upon request. Submit requests for reports to Burk-Kleinpeter, Inc., 4176 Canal Street, New Orleans, LA, 70119, (504) 486-5901.

GENERAL BIDDING REQUIREMENTS (08/06): The specifications, contract and bonds governing the construction of the work are the 2006 Edition of the Louisiana Standard Specifications for Roads and Bridges, together with any supplementary specifications and special provisions attached to this proposal.

Bids shall be prepared and submitted in accordance with Section 102 of the Standard Specifications.

The plans herein referred to are the plans approved and marked with the project number, route and Parish, together with all standard or special designs that may be included in such plans. The bidder declares that the only parties interested in this proposal as principals are those named herein; that this proposal is made without collusion or combination of any kind with any other person, firm, association, or corporation, or any member or officer thereof; that careful examination has been made of the site of the proposed work, the plans, Standard Specifications, supplementary specifications and special provisions above mentioned, and the form of contract and payment, performance, and retainage bond; that the bidder agrees, if this proposal is accepted, to provide all necessary machinery, tools, apparatus and other means of construction and will do all work and furnish all material specified in the contract, in the manner and time therein prescribed and in accordance with the requirements therein set forth; and agrees to accept as full compensation therefore, the amount of the summation of the products of the quantities of work and material incorporated in the completed project, as determined by the engineer, multiplied by the respective unit prices herein bid.

It is understood by the bidder that the quantities given in this proposal are a fair approximation of the amount of work to be done and that the sum of the products of the approximate quantities multiplied by the respective unit prices bid shall constitute gross sum bid, which sum shall be used in comparison of bids and awarding of the contract.

The bidder further agrees to perform all extra and force account work that may be required on the basis provided in the specifications.

The bidder further agrees that within 15 calendar days after the contract has been transmitted to him, he will execute the contract and furnish the Department satisfactory surety bonds.

If this proposal is accepted and the bidder fails to execute the contract and furnish bonds as above provided, the proposal guaranty shall become the property of the Department;

otherwise, said proposal guaranty will be returned to the bidder; all in accordance with Subsection 103.04.

MANDATORY ELECTRONIC BIDS AND ELECTRONIC BID BONDS SUBMISSION (10/08): This project requires mandatory electronic bidding. All Specifications, whether Standard, Supplemental or Special Provisions, are hereby amended to delete any references regarding paper bids and the ability to submit paper bid forms.

The contractor shall register online to be placed on the Louisiana Department of Transportation and Development (LA DOTD) prospective bidders list or for information only list.

Modifications to proposal documents will be posted on the Department's website at the following URL address: www.dotd.la.gov/cgi-bin/construction.asp.

LA DOTD shall not be responsible if the bidder cannot complete and submit a bid due to failure or incomplete delivery of the files submitted via the internet.

DBE PARTICIPATION IN FEDERAL AID CONSTRUCTION CONTRACTS (02/07): This project is a DBE goal project. In accordance with the Required Contract Provisions for DBE Participation in Federal Aid Construction Contracts elsewhere herein, the DBE goal for approved subcontracting work on this project is 12 percent of the total contract bid price. The contractor shall submit DOTD Form OMF-1A (Request to Sublet) and have it approved by the Department before any subcontract work is done on the project. Only those businesses certified by the Department as Disadvantaged Business Enterprises (DBEs) may be utilized in fulfillment of the DBE goal requirement. Such businesses are those certified by the Louisiana Unified Certification Program on the basis of ownership and control by persons found to be socially and economically disadvantaged in accordance with Section 8(a) of the Small Business Act, as amended and Title 49, Code of Federal Regulations, Part 26 (49 CFR 26).

BUY AMERICA PROVISIONS (03/95): Pursuant to the "Buy America Provisions" of the Surface Transportation Assistance Act (STAA) of 1982 as promulgated by current FHWA regulation 23 CFR 635.410 and the Intermodal Surface Transportation Efficiency Act of 1991 (ISTEA) amendment to (STAA), all steel and iron materials permanently installed on this project shall be manufactured, including application of a coating, in the United States, unless a waiver of these provisions is granted. Coating includes all processes which protect or enhance the value of the material to which the coating is applied. The request for waiver must be presented in writing to the Department by the contractor. Such waiver may be granted if it is determined that:

(1) The application of Buy America Provisions would be inconsistent with the public interest or

(2) Such materials are not produced in the United States in sufficient and reasonably available quantities and of a satisfactory quality.

Minimal use of foreign steel and iron materials will be allowed without waiver provided the cost of these materials does not exceed 0.1 percent of the total contract cost or $2,500, whichever is greater; however, the contractor shall make written request to the DOTD Construction Engineering Administrator for permission to use such foreign materials and shall furnish a listing of the materials, their monetary value, and their origin and place of production.

The burden of proof for the origin and place of production and any request for waiver is the responsibility of the contractor.

Prior to the use of steel and iron materials in the project, the contractor shall furnish Mill Test Reports to the engineer for such steel and iron materials, accompanied by a notarized certification stating that the Mill Test Reports represent the steel and iron materials to be furnished and that such materials were produced and fabricated in the United States.

Pig iron and processed, pelletized, and reduced iron ore are exempt from the Buy America Provisions.

COST-PLUS-TIME BIDDING PROCEDURE (A + B METHOD): The 2006 Standard Specifications and Supplemental Specifications, as amended elsewhere herein, are further amended as follows:

General. The process for bidding and the award of this project will take into account not only the contract amount bid but also the bidder's stated contract time in which the project will be completed to final acceptance. This method will only be used to determine the successful bidder. It will not be used to determine the award amount nor final payment to the contractor. Should only one contractor bid then he will be required to turn in a Pre-Award CPM prior to Award of Contract for time verification by DOTD.

Definition of Terms. For this project the following definitions apply:

(a) Calendar Day – Refer to Subsection 101.03.

(b) Contract Amount – The summation of the products of the quantities shown in the Schedule of Items multiplied by the unit bid prices.

(c) Contract Time – The number of calendar days stated in the successful bidders proposal to complete the project to final acceptance as adjusted by authorized extensions.

(d) Daily Road User Cost – The amount which represents the average daily cost of interference and inconvenience to the road user. The Department has assigned a daily road user cost of $5000.00 per calendar day for this project.

(e) Final Acceptance – Refer to Subsection 105.17(b).

Preparation of Proposal. In addition to all other bidding requirements of the project specifications, the bidder shall state his required completion time in the space provided on the "CONTRACT TIME" form contained elsewhere herein. The proposed completion time shall be based on the construction phases shown in the plans in their respective order and will be a factor used in considering bids for award. The stated number of calendar days required for completion will be the contract time for this project should the bidder be successful. Bids not including a contract time will be considered irregular and will be rejected.

Consideration of Bids. After bids are opened and read, they will be compared based on the Total Bid Amount as determined by the following formula. In case of equal total bid amounts between qualified bidders, award will be made to the bidder proposing the lowest contract time.

Total Bid Amount = A + B

Where:

A = the contract amount as defined herein.

B = the product of the number of calendar days of contract time stated by the bidder and the daily road user cost contained herein.

Conditional Notice to Proceed/Notice to Proceed. If this A + B project is awarded during the months of September, October or November, the Department will consider issuing a Conditional Notice to Proceed with an expiration date of March 1 of the following calendar year,

whereupon a Notice to Proceed will become effective. Such request for delay from the contractor shall be in writing with justification for the delay. If a Conditional Notice to Proceed is issued then any assembly period, as provided in the special provision "Contract Time", is negated.

Late Completion. Should the contractor fail to complete the project to final acceptance prior to expiration of the contract time, stipulated damages will be charged an amount equal to the daily road user cost stated herein.

PRE-AWARD CPM FOR CONTRACT TIME REVIEW: Should only one bid be received then the single bidder shall be required to gain approval from the Chief Construction Engineer, as outlined below, prior to the Award of Contract. A Pre-Award CPM shall only be used for review and justification of the contract time submitted as part of the bid.

Critical Path Methods (CPM) as described and with terms as defined in the Associated General Contractors of America (AGC) publication, *Construction Planning and Scheduling*, latest edition, shall be used in construction scheduling and establishing the critical items of work. In case of discrepancy between these specifications and *Construction Planning and Scheduling*, these specifications shall govern.

The Single Bidder shall submit to the Chief Construction Engineer for approval, CPM Construction Schedules and Summary of Activities tabulations, all as described hereinafter, and altogether defined as "Construction Schedule". The Construction Schedule shall be based on the planned work, the proposed maintenance of traffic restrictions, and other design requirements given in the plans and specifications. Each sheet or page of each submittal shall be identified with the contractor's company name, state project number, project name, date prepared, revision dates, and sheet or page number. If the submittals are not prepared by the contractor's own staff, the company name of the preparer shall be shown on each sheet or page.

The critical activities as shown on the Construction Schedule will be considered in establishing the controlling item of work. If the Construction Schedule is not approved by the Chief Construction Engineer the bid will be considered irregular and will be rejected.

The sequence of work as represented on the approved Construction Schedule and approved associated data shall be interpreted as being the intention of the contractor at the time that the schedule was made.

(a) Construction Schedule: The Construction Schedule shall be a Critical Path Method (CPM) graphic diagram, computer prepared, utilizing the Precedence Diagramming Method (PDM). For the calendar day contract, the Gregorian calendar shall be used.

The schedule shall show and describe the various activities of work required to complete the contract in sufficient detail so that all activities are readily identifiable and progress on the activities can be readily measured. Sufficient detail in bridge work means each element of work (piles, footings, columns, caps, rebar, cure time, etc.) of individual bents; each element of work in individual spans (girders, strip seal joints, Class AA, rebar, cure time, etc.); individual approach slabs; railings; rebar for all of the above as separate activities; and, miscellaneous other bridge work. Sufficient detail in road work means individual runs of pipe in drainage structures; individual box culverts; individual detour roads; the embankment, excavation, base and paving layers within definable geometric limits (e.g., from station to station, within a single ramp, etc.). Physical locations of activities within definable geometric limits (e.g., from station to station,

within a single ramp, individual bents, individual spans, etc.) shall be included in the activity description or shown in activity codes relative to each activity. It shall include submittals and approvals of critical samples, shop drawings, procedures, order lists (pilings for example), or other things that could have a significant schedule impact.

Relatively minor items of work, similar or non-similar, may be grouped together into one activity (or more). Activities to be performed by subcontractors shall be included and identified. The schedule shall show the sequence in which the activities are to be accomplished and their dependency relationships. The pay item quantities associated with each activity shall be included and shall equal the current contract amount.

The duration of activities shall be in whole calendar days and no activity shall have duration of less than one calendar day or more than 30 calendar days. The ending event of the schedule shall be a finish milestone identified as "Contract Completion Date". Its sole predecessor shall be "Reserved Float". The sole predecessor of "Reserved Float" shall be "Final Inspection" which shall be a finish milestone and shall have as predecessors all of the activities that must be completed prior to the Department's final inspection of the work. The duration of "Reserved Float" is the difference between "Final Inspection" and "Contract Completion Date". "Reserved Float" is defined as that part of the shared float reserved exclusively for the contractor's use. The contract date for stipulated damages will be adjusted by change order to the beginning date of the activity "Reserved Float".

The Construction Schedule shall be computer plotted on sheets not larger than 22 inches x 36 inches and shall show a continuous flow of information from left to right with no arrows from right to left and shall be drawn to a time scale of calendar days. The critical path shall be clearly identified. Resource constraints shall be identified, as shall scheduled starts or completions imposed on the schedule by the contractor.

The contractor shall submit color-coded graphics in the required multiple copies.

The contractor shall provide the Department with the means to electronically translate the Construction Schedule data into a configuration that can be read and processed by the Department or its consultants' hardware and Primavera software. If the contractor elects to use SureTrak Project Manager software, the following defaults must be placed: (1) resources shall be non-driving; (2) default activity type shall be "Task"; (3) activity type shall not be "Independent"; (4) duration display style shall be "Day (d)"; (5) float style shall be "Days"; and, (6) dates time format shall be "Don't show time". In both the SureTrak Project Manager and in the Primavera Project Planner (P3) "Back up" menu selection, the contractor will ensure that the option "Remove access list during backup" is checked. In addition, the project must be saved in SureTrak as a "Concentric P3" Type project.

(b) Summary of Activities: The Summary of Activities shall be a tabulation of all activities shown on the Construction Schedule, and shall accurately reflect the data used in preparation of the Construction Schedule. The summary shall be computer generated and sequenced by activity number. Each activity shall include as a minimum the following, in calendar days:

1. Activity numbers.
2. Activity description.
3. Estimated duration of activity.
4. Early start.
5. Late start.
6. Constrained start, if constrained.
7. Early finish.
8. Late finish.
9. Constrained finish, if constrained.
10. Status (whether critical).
11. Free float.
12. Total float.
13. Remaining duration and calendar days used.

(c) Submittal: Prior to the Award of Contract the Single Bidder shall submit to the Chief Construction engineer for approval, in triplicate, a Construction Schedule giving a proposed schedule of operations that provides for completion of the work and a Summary of Activities tabulation. The Single Bidder shall also submit the Construction Schedule data electronically capable of being processed with the hardware and software being used by the Department or its consultants.

Within 10 calendar days after receipt of the submittal, the Chief Construction engineer and Single Bidder shall meet and review the proposed schedules and tabulations. Any revisions resulting from the review shall be submitted, in triplicate, for approval within 5 calendar days after the meeting.

Failure to have obtained approval of the Construction Schedule and tabulations within 20 calendar days after the Bid Letting the bid will be considered irregular and will be rejected.

(d) The Pre-Award CPM Construction Schedule will be provided at no direct pay.

CONSIDERATION OF BIDS: Subsection 103.01 of the 2006 Standard Specifications is amended as follows:

Subsection 103.01(a) is amended to include the following:

(5) The single bidder on a Cost-Plus-Time bid fails to obtain approval from the Chief Construction Engineer of a Pre-Award CPM within 20 calendar days after the Bid Letting.

Subsection 103.01(b) is amended to include the following:

(7) The Contract Time submitted as part of a Cost-Plus-Time bid is found to be excessive by the Chief Construction Engineer.

INTENT OF CONTRACT (11/95): Subsection 104.01, Intent of Contract, is amended to include the following.

(a) Covenant of Good Faith and Fair Dealing.

This contract imposes an obligation of good faith and fair dealing in its performance and enforcement.

The contractor and the Department agree from the beginning to focus on creative cooperation, to avoid adverse confrontation, and to foster mutual respect, along with a positive commitment to honesty and integrity, and agree to the following mutual duties.

(1) Each will function within the laws and statutes applicable to their duties and responsibilities.
(2) Each will communicate in an open and candid manner.
(3) Each will assist in the other's performance.
(4) Each will avoid hindering the other's performance.
(5) Each will proceed to fulfill its obligations diligently.
(6) Each will cooperate in the common endeavor of the contract.

(b) Voluntary Partnering.

The Louisiana Department of Transportation and Development intends to encourage the foundation of a cohesive partnership with the contractor and its principal subcontractors and suppliers. This partnership will be structured to draw on the strengths of each organization to identify and achieve reciprocal goals. The objective is a cooperative approach to contract management that will reduce costs, litigation, and "stress" while completing the project in accordance with the plans and specifications.

This partnership will be bilateral in makeup, and participation in partnering will be totally voluntary and is not a requirement of the contract.

A partnering conference is to be implemented and held prior to beginning construction. The contractor's management personnel and the Project Engineer will initiate a partnering development conference. They, working with the assistance of the District Construction Engineer, will make arrangements to determine the facilitator, the attendees at the conference, agenda of the conference, duration, and location. Persons required to be in attendance will be the Project Engineer and key project personnel; the contractor's on-site project manager and key project supervision personnel of both the prime and principal subcontractors and suppliers. The project design engineers, FHWA, key company representatives, and key local government personnel will also be invited to attend as necessary. The contractor and DOTD will also be required to have Regional/District and Corporate/State level managers on the project team.

Any cost associated with effectuating this partnering will be agreed to by both parties and will be shared equally and will be paid for in accordance with Subsection 109.04. The contractor, DOTD, FHWA and all others invited to the partnering conference will be responsible for any expenses incurred by their respective employees which includes salaries, travel, and lodging.

Follow-up conferences may be held periodically throughout the duration of the contract as agreed by the contractor and the DOTD.

The establishment of a partnership charter on a project will not change the legal relationship of the parties to the contract nor relieve either party from any of the terms of the contract. This partnership charter is intended only to establish an environment of cooperation and communication between all parties involved with the completion of the project.

MAINTENANCE OF TRAFFIC (11/13/08): Subsection 104.03 of the 2006 Standard Specifications is amended to include the following requirements.

The contractor shall provide for and maintain through and local traffic at all times and shall conduct his operations in such manner as to cause the least possible interference with traffic at junctions with roads, streets and driveways.

The contractor shall conduct his paving operations on one side of the roadway at a time. The side of the roadway, including shoulder, that is open to traffic shall be clear at all times.

When the plans show asphaltic concrete pavement layers to be placed in thicknesses of 2 inches (50 mm) or less, the contractor will be permitted to pave in one lane for a full day; the adjacent lane may be paved the following workday. When pavement layers are greater than 2 inches (50 mm) thickness, the contractor shall use a Wedged Joint and will be permitted to pave in one lane for a full day; the adjacent lane shall be paved the following day or place approximately 1/2 of each day's production in one lane and the remainder in the adjacent lane.

At the end of each day's paving operations, temporary pavement markings shall be in place and proper signs and barricades displayed. During the period that all lanes are open to traffic, the contractor shall neither store material nor park equipment on roadway shoulders.

When asphaltic concrete pavement is cold planed to a depth of 2 inches (50 mm) or less, the contractor will be permitted to cold plane in one lane for a full day; the adjacent lane may be cold planed the following workday. When the depth of cold planing is greater than 2 inches (50 mm), the contractor shall cold plane approximately 1/2 of each day's production in one lane and the remainder in the adjacent lane.

All asphaltic concrete pavement new construction, overlays, and shoulder surfacing operations open to traffic shall be conducted in accordance with the following requirements.

1. Shoulder Subgrade Preparation: Any required embankment widening shall be completed before placement of the asphaltic concrete overlay. All vegetation shall be removed from existing shoulders before beginning temporary or final shoulder construction. When the Shoulder Wedge is required, the contractor shall blade and shape existing shoulder material to form a uniform surface under the wedge prior to placement of the asphaltic concrete overlay.

2. Temporary Shoulder Construction: Temporary shoulder construction described herein shall be completed at the end of each day's operations for all asphaltic concrete courses except the final wearing course. There shall be no drop-off from the pavement edge to the shoulder. The contractor shall blade and shape existing shoulder material against, and approximately level with, the top of the pavement surfacing to form a temporary shoulder with a uniform slope from the pavement edge to the existing shoulder line, or to a point 10 feet (3 m) from the pavement edge. If existing shoulder materials are insufficient, the contractor shall furnish, place and shape additional shoulder surfacing materials to form the temporary shoulder. Existing and/or additional materials for temporary shoulders shall be to the satisfaction of the engineer. Compaction shall be by approved methods.

No direct payment will be made for constructing and subsequently reshaping temporary shoulders, except payment for additional materials under appropriate pay items.

ACCEPTANCE (03/98): Subsection 105.17 is amended as follows:

Heading (a) is deleted and the following substituted.

(a) Partial Acceptance: When the contractor satisfactorily completes all work at a site, including all safety devices, signs and striping, the contractor may request the engineer to make final inspection of that portion of the project. When the engineer finds upon inspection that the portion has been completed in compliance with the contract, the Department will accept that

portion as being completed and the contractor will be relieved of further responsibility for that portion and from further liability to the public.

AMERICAN RECOVERY AND REINVESTMENT ACT OF 2009 (ARRA) (SEC107): Subsection 107.05, Federal Aid Participation as amended by the supplemental specifications is further amended to include the following:

This project is funded through the American Recovery and Reinvestment Act of 2009 (ARRA). The ARRA requires the contractor and all subcontractors to properly complete and submit monthly Employment Data Reports for ARRA funded projects. The *Monthly Employment Report Form* (Form No. FHWA-1589) and the instructions necessary for proper completion of the form are included as a supplement to the Federal Aid Contract provisions as contained elsewhere herein, and are also available on the DOTD Construction, and ARRA websites. The contractor shall ensure that all subcontractors are aware of these reporting requirements and shall include these requirements within each subcontract. **DOTD reserves the right to withhold estimated payments to the contractor for the contractor's or any subcontractor's refusal to report or for frequent occurrences of untimely, missing, incomplete, or inaccurate employment reporting on this ARRA project.**

SUBLETTING OF CONTRACT (01/83): In accordance with Subsection 108.01 of the Standard Specifications, the following items are designated as "Specialty Items":

ITEM 731-02-00100, Reflectorized Raised Pavement Markers
ITEM 732-01-01000, Plastic Pavement Striping (4" Width)(Thermoplastic 90 mil)
ITEM 732-01-01020, Plastic Pavement Striping (6" Width)(Thermoplastic 90 mil)
ITEM 732-01-01040, Plastic Pavement Striping (8" Width)(Thermoplastic 90 mil)
ITEM 732-01-01060, Plastic Pavement Striping (12" Width)(Thermoplastic 90 mil)
ITEM 732-02-02000, Plastic Pavement Striping (Solid Line) (4" Width)(Thermoplastic 90 mil)
ITEM 732-03-02000, Plastic Pavement Striping (Broken Line)(4" Width)(Thermoplastic 90 mil)
ITEM 732-04-01020, Plastic Pavement Legends & Symbols (Arrow-Straight)
ITEM 732-04-01080, Plastic Pavement Legends & Symbols (Arrow-Left Turn)
ITEM 732-04-01100, Plastic Pavement Legends & Symbols (Arrow-Right Turn)
ITEM 732-04-02000, Plastic Pavement Legends & Symbols (Bicycle)
ITEM 732-04-15020, Plastic Pavement Legends & Symbols (Only)
ITEM 732-04-19020, Plastic Pavement Legends & Symbols (SCHOOL ZONE)
ITEM 736-09-00100, Loop Detector

CRITICAL PATH METHOD (CPM) FOR CONSTRUCTION PROGRESS SCHEDULING (12/08): Critical Path Methods (CPM) as described and with terms as defined in the Associated General Contractors of America (AGC) publication, *Construction Planning and Scheduling*, latest edition, shall be used in construction scheduling, establishing the critical items of work, and measuring progress of the work. In case of discrepancy between these specifications and *Construction Planning and Scheduling*, these specifications shall govern.

Section 108, Prosecution and Progress of the 2006 Standard Specifications and the Supplemental Specifications thereto is amended as follows.

Subsection 108.03, Construction Progress Schedule: This subsection is deleted and the following substituted.

The contractor shall submit to the project engineer for approval, CPM Construction Schedules, Summary of Activities tabulations, and Scheduled Earnings tabulations, all as described hereinafter, and altogether defined as "Construction Progress Schedule" or "Construction Schedule". The Construction Progress Schedule shall be based on the planned and specified finished work, the maintenance of traffic restrictions, and other design requirements given in the plans and specifications. Each sheet or page of each submittal shall be identified with the contractor's company name, state project number, project name, date prepared, revision dates, and sheet or page number. If the submittals are not prepared by the contractor's own staff, the company name of the preparer shall be shown on each sheet or page.

The critical activities as shown on the approved Construction Schedule will be considered in establishing the controlling item of work. If the Construction Schedule has not been approved, the engineer will establish the controlling work item and charge the contract time accordingly. Scheduled Earnings will be the basis for measurement of contractor's progress.

Approved Construction Progress Schedules and approved associated data shall become part of the contract documents. Un-approved Construction Progress Schedules and associated data shall not be considered relevant or applicable for any purposes during or after completion of the project and shall not be binding on the Department. The sequence of work as represented on the Construction Progress Schedule and subsequent updates shall be interpreted as being the intention of the contractor at the time that the schedule was made.

(a) Construction Schedule: The Construction Schedule shall be a Critical Path Method (CPM) graphic diagram, computer prepared, utilizing the Precedence Diagramming Method (PDM). For the calendar day contract, the Gregorian calendar shall be used.

The schedule shall show and describe the various activities of work required to complete the contract in sufficient detail so that all activities are readily identifiable and progress on the activities can be readily measured. Sufficient detail in bridge work means each element of work (piles, footings, columns, caps, rebar, cure time, etc.) of individual bents; each element of work in individual spans (girders, strip seal joints, Class AA, rebar, cure time, etc.); individual approach slabs; railings; rebar for all of the above as separate activities; and, miscellaneous other bridge work. Sufficient detail in road work means individual runs of pipe in drainage structures; individual box culverts; individual detour roads; the embankment, excavation, base and paving layers within definable geometric limits (e.g., from station to station, within a single ramp, etc.). Physical locations of activities within definable geometric limits (e.g., from station to station, within a single ramp, individual bents, individual spans, etc.) shall be included in the activity description or shown in activity codes relative to each activity. It shall include submittals and approvals of critical samples, shop drawings, procedures, order lists (pilings for example), or other things that could have a significant schedule impact.

Relatively minor items of work, similar or non-similar, may be grouped together into one activity (or more). Activities to be performed by subcontractors shall be included and identified. The schedule shall show the sequence in which the activities are to be accomplished and their dependency relationships. The estimated contract earnings and pay item quantities associated with each activity shall be included, and the sum of the estimated earnings shall equal the current contract amount.

The duration of activities shall be in whole calendar days and no activity shall have duration of less than one calendar day or more than 30 calendar days. The ending event of the

schedule shall be a finish milestone identified as "Contract Completion Date". Its sole predecessor shall be "Reserved Float". The sole predecessor of "Reserved Float" shall be "Final Inspection" which shall be a finish milestone and shall have as predecessors all of the activities that must be completed prior to the Department's final inspection of the work. The duration of "Reserved Float" is the difference between "Final Inspection" and "Contract Completion Date". "Reserved Float" is defined as that part of the shared float reserved exclusively for the contractor's use. The contract date for stipulated damages will be adjusted by change order to the beginning date of the activity "Reserved Float".

The Construction Schedule shall be computer plotted on sheets not larger than 22 inches x 36 inches and shall show a continuous flow of information from left to right with no arrows from right to left and shall be drawn to a time scale of calendar days. The critical path shall be clearly identified. Resource constraints shall be identified, as shall scheduled starts or completions imposed on the schedule by the contractor.

The contractor shall submit color-coded graphics in the required multiple copies. The choice of the color coding must remain in effect for the life of the contract.

The contractor shall provide the Department with the means to electronically translate the Construction Schedule data into a configuration that can be read and processed by the Department or its consultants' hardware and Primavera software. If the contractor elects to use SureTrak Project Manager software, the following defaults must be placed: (1) resources shall be non-driving; (2) default activity type shall be "Task"; (3) activity type shall not be "Independent"; (4) duration display style shall be "Day (d)"; (5) float style shall be "Days"; and, (6) dates time format shall be "Don't show time". The revenue feature in SureTrak Project Manager does not translate to Primavera Project Planner (P3), so in SureTrak Project Manager the earnings must be entered as cost data. In both the SureTrak Project Manager and in the Primavera Project Planner (P3) "Back up" menu selection, the contractor will ensure that the option "Remove access list during backup" is checked. In addition, the project must be saved in SureTrak as a "Concentric P3" Type project.

(b) Summary of Activities: The Summary of Activities shall be a tabulation of all activities shown on the Construction Schedule, and shall accurately reflect the data used in preparation of the Construction Schedule. The summary shall be computer generated and sequenced by activity number. Each activity shall include as a minimum the following, in calendar days:

1. Activity numbers.
2. Activity description.
3. Estimated duration of activity.
4. Early start.
5. Late start.
6. Constrained start, if constrained.
7. Early finish.
8. Late finish.
9. Constrained finish, if constrained.
10. Status (whether critical).
11. Free float.
12. Total float.
13. Monetary value of the activity.
14. Remaining duration and calendar days used.

(c) Scheduled Earnings: The Scheduled Earnings shall be a product of the software creating the Construction Schedule and shall be a tabulation of accumulated scheduled contract earnings, based on late starts, measured in accumulated dollars for all activities, for each monthly partial estimate. The tabulation shall be prepared from the Construction Schedule and shall be computer generated. The Schedule of Earnings will not include advanced payments for stockpiled materials.

(d) Cash Management Document: When designated as a Cash Management Project, prior to the issuance of the Notice to Proceed, the contractor shall provide to the Department and obtain approval from the Department of the Scheduled Earnings report as described above, except that it shall be based on early starts. The Department will use this report for its cash management purposes. Failure of the contractor to provide and obtain approval of the Scheduled Earnings Report will result in withholding of any funds due the contractor.

(e) Submittal: Prior to or at the preconstruction conference the contractor shall submit to the project engineer for approval, in triplicate, a Construction Schedule giving a proposed schedule of operations that provides for completion of the work, a Summary of Activities tabulation, a Scheduled Earnings tabulation, and a Forty-Five Day Look-Ahead task list. The contractor shall also submit the Construction Schedule data electronically capable of being processed with the hardware and software being used by the Department or its consultants.

Within 7 calendar days after receipt of the submittal, the project engineer and contractor shall meet and review the proposed schedules and tabulations. Any revisions resulting from the review shall be submitted, in triplicate, for approval within 7 calendar days after the meeting. This procedure will be repeated as necessary. The approved final schedule shall be called the "Baseline Schedule".

Failure to have obtained approval of a Baseline Schedule and tabulations within 20 calendar days after the Notice to Proceed will result in withholding twenty-five percent of the amount of partial estimates until such schedules and tabulations are submitted and approved. Failure to have obtained approval of a Baseline Schedule and tabulations within the third estimate period may result in the Department's determination that the contractor is in default under the provisions of Subsection 108.09.

(f) Construction Schedule Updates: The contractor shall update and submit each month, within 7 calendar days after the partial estimate is submitted, the Construction Schedule critical

path diagram, Summary of Activities tabulation, Scheduled Earnings tabulation, a Forty-Five Day Look-Ahead task list, and a current Turnaround Document as follows:

(1) The updated Construction Schedule critical path diagram will be in the same form as that submitted in (e) Submittal. It will be updated for progress through the estimate closing date, recalculated and plotted. The contractor will revise, adjust, and recalculate the schedule so that the difference in the work completion date calculated by the Retained Logic Method shall not be more than one-half an estimate period different from the work completion date calculated by the Progress Override Method. The Construction Schedule critical path diagram will show both the look ahead critical path for the duration of the project and the look back critical path as reported in the prior months.

(2) The updated Summary of Activities and Scheduled Earnings tabulation will be in the same form as that submitted in (e) Submittal. It will be updated for progress through the estimate closing date, recalculated and printed.

(3) The Forty-Five Day Look-Ahead task list will show all incomplete activities which the logic has determined either should be or may be active during the next forty-five days. It will be plotted in a graphic form similar to that of the Construction Schedule critical path diagram.

(4) The Turnaround Document will be a listing of the log record of a new activity added monthly to the schedule for the purpose of keeping a current presentation of the following information:

a. The original contract completion date presented as actual calendar date.
b. The number of days added to the contract by approved change order (if any, if none, so state).
c. The present computed completion date presented as an actual calendar date and as a workday number, if applicable.
d. A list of activities deleted and added (if any, if none, so state), including their descriptions.
e. A list of logic changes and the reasons for the changes (if any, if none, so state).
f. A list of budget changes and the reasons for the changes (if any, if none, so state).
g. A narrative description of any other changes to the Construction Schedule critical path diagram.

Failure to submit the monthly updates of the Construction Progress Schedules within 7 calendar days after the partial estimate was submitted will result in withholding of twenty-five percent of the amount of partial estimate payments until such schedules are submitted and approved. Failure to have obtained approval of three consecutive monthly updates of the Construction Progress Schedule may result in the Department's determination that the contractor is in default under the provisions of Subsection 108.09.

(g) CPM Reviews: The project engineer will designate the time and location for review of construction progress. The contractor's representative designated under Subsection 105.05 will be required to attend the construction progress review or a contractor's representative directed by the project engineer shall attend. The current approved Construction Schedule, Summary of Activities and Scheduled Earnings tabulations shall be reviewed, and required or desired changes discussed and documented.

As a minimum the following shall be discussed: contractor's compliance with approved schedules and tabulations, delays, proposed and approved contract quantity increases and decreases, proposed and approved extra work, actual starts, durations and finishes, and actual contract earnings.

If requested by the project engineer, within 7 calendar days following the review meeting the contractor shall submit to the project engineer for approval, in triplicate, a revised Construction Schedule, Summary of Activities tabulation, and Scheduled Earnings tabulation, and Forty-Five Day Look-Ahead, all in accordance with paragraph (e) Submittal, and all brought up to date to reflect agreements made at the review meeting. Failure to submit the revision of the Construction Progress Schedules within 7 calendar days after the request will result in withholding of twenty-five percent of the amount of partial estimate payments until such schedules are submitted and approved. Failure to have obtained approval of three consecutive monthly updates of the Construction Progress Schedule may result in the Department's determination that the contractor is in default under the provisions of Subsection108.09.

(h) The CPM Construction Schedule will be provided at no direct pay.

Subsection 108.04, Prosecution of Work: Heading (b), Disqualification, is deleted and the following is substituted.

(b) Disqualification. The contractor's progress will be determined monthly at the time of each partial estimate, and will be based on the total amount of money earned by the contractor, excluding advanced stockpiled material, as shown by the partial estimate compared to scheduled earnings as shown by the approved Scheduled Earnings tabulation, as of the end of the partial estimate period. If the contractor's progress is more than 10 percent behind scheduled earnings, the contractor may be notified that he is not prosecuting the work in an acceptable manner. If requested by the Department, the contractor must meet with and provide the project engineer with an acceptable written plan which details how the contractor will re-gain lost progress and prosecute remaining work. If the contractor's progress is more than 20 percent behind the elapsed contract time, the contractor and the surety will be notified that he is not prosecuting the work in an acceptable manner. The contractor must meet with and provide the project engineer with an acceptable written plan which details how the contractor will re-gain lost progress and prosecute remaining work.

A contractor who is in default in accordance with Subsection 108.09 (a) (1) and actual earnings versus scheduled earnings are 5.0 percent or more, the contractor shall be immediately disqualified. The contractor shall remain disqualified until the project has received a final inspection and has been recommended for final acceptance. Should the surety or the Department take over prosecution of the work, the contractor shall remain disqualified for a period of one year from the completion of the project, unless debarment proceedings are instituted.

During the period of disqualification, the contractor will not be permitted to bid on contracts nor be approved as a subcontractor on contracts. Any bid submitted by the contractor during the period of disqualification will be considered irregular.

Subsection 108.07, Determination and Extension of Contract Time: This subsection is amended as follows.

The third and fourth paragraphs are deleted and the following substituted.

The contract time for the work as awarded is based on the original quantities as defined in Subsection 102.05 and includes time to procure material, equipment and an adequate labor force

to complete the work. If satisfactory fulfillment of the contract requires performance of work in greater quantities than those specified, or requires performance of extra work in accordance with Subsection 104.02 and the contractor requests additional contract time, the contractor shall submit a proposed CPM schedule based on the latest approved CPM schedule showing the increased time and revised completion date for approval by the Department. When the contract is altered in accordance with Subsection 104.02 and the engineer determines that a reduction in contract time is warranted due to decreased effort, the contractor shall submit a proposed CPM schedule based on the latest approved CPM schedule showing the reduced time and revised completion date for approval by the Department. A CPM schedule will be required for the engineer to process a change order that either increases or decreases the contract time.

If the contractor finds it impossible, for reasons beyond the contractor's control, to complete the work within the contract time as specified or as extended in accordance with the provisions of this subsection, the contractor shall, at the time the delay occurs make a written request to the engineer for an extension of time setting forth therein the reasons which justify granting the request. Such written request shall conform to the requirements of EDSM III.1.1.28. If the request does not so conform, the contractor hereby agrees to and shall be deemed to have expressly waived any claim for such additional time. The contractor's plea that insufficient time was specified is not a valid reason for extension of time. If the engineer finds that the work was delayed because of conditions beyond the control and without the fault of the contractor, the engineer may extend the contract time in such amount as conditions justify. The contractor's written request to the engineer for an extension of contract time shall include a proposed CPM schedule based on the latest approved CPM schedule update showing the increased time and revised completion date for approval by the Department. This CPM schedule document will be required for the engineer to process a change order that changes the contract time.

DETERMINATION AND EXTENSION OF CONTRACT TIME (12/08): Subsection 108.07, Determination and Extension of Contract Time, is amended to include the following.

The contractor shall document for each month of scheduled construction, the occurrence of adverse weather conditions having an impact on controlling items of work. An adverse weather day is a previously scheduled or normally scheduled work day on which rainfall, wet conditions or cold weather will prevent construction operations on the controlling work activity from proceeding for at least 5 continuous hours of the day or 65 percent of the normal work day, whichever is greater, with the normal working force engaged in performing the controlling item of work. If the contractor submits a written request for additional contract time due to adverse weather conditions, the contractor's request will be considered only after the Department agrees with the days and then only for adverse weather days in excess of the allowable number of days per month stated below. Adverse weather days will be documented by the Engineer and agreed upon monthly. Adverse weather days will be prorated for partial months when a work order or final inspection is issued other than the first or last of the month and agreed to by the Department. If the contractor is being considered for disqualification by the Department, an equitable adjustment in contract time may be made at the end of the original contract period, including all days added by approved change orders. Contract time will be adjusted by comparing the actual number of adverse weather days to the statistical number of adverse weather days over the specific time period per the table below. The resulting number of adverse weather days will be multiplied by 1.45 to convert to calendar days. Adjustments for adverse

weather cannot result in a contract time reduction. Once adjusted, a new adverse weather day accounting will begin using the adverse weather conditions having an impact on the controlling items of work, in excess of the allowable number of days per month stated below. A second and final contract time adjustment will then be done at the final acceptance of the project. An adjustment in the contract time due to adverse weather will not be cause for an adjustment in the contract amount. There will be no direct or indirect cost reimbursement for excess adverse weather days.

The following are anticipated adverse weather days that the contractor shall include in each month of his calendar day construction schedule.

January	10 days	May	5 days	September	4 days
February	9 days	June	6 days	October	3 days
March	8 days	July	6 days	November	7 days
April	7 days	August	5 days	December	7 days

PAYMENT ADJUSTMENT (12/08): Section 109, Measurement and Payment of the 2006 Standard Specifications and the supplemental specifications thereto, is amended to add the following.

This project is designated for payment adjustment for asphalt cements and fuels in accordance with Subsection 109.09 as follows.

109.09 PAYMENT ADJUSTMENT (ASPHALT CEMENTS AND FUELS).

(a) General: Payment for contract items indicated herein will be adjusted to compensate for cost differentials of Performance Graded (PG) asphalt cements, gasoline, and diesel fuel when such costs increase or decrease more than 5 percent from the Department's established base prices for these items. The base price indices for asphalt cements and fuels will be the monthly price indices in effect at the time bids are opened for the project. The base price indices for asphalt cements will be as stated in paragraph (b) below. The base price index for fuels will be as stated in paragraph (c) below.

Payment adjustments will be made each monthly estimate period when a price index for this period varies more than 5 percent from its respective base price index. The monthly price indices to be used with each monthly estimate will be the price indices for the month in which the estimate period begins.

If the project is placed in default, payment adjustments will be based on the monthly price indices used for the last monthly estimate period prior to the project being placed in default, unless a monthly price index decreases in which case the lower monthly price index will be used.

If it is determined after completion of work on any eligible item that the total quantity paid to date must be adjusted to reflect more accurate quantity determinations, the Department will prorate the additional quantity to be added or subtracted over all previous estimate periods in which the item of work was performed in order to determine additional payment adjustments. If payment adjustments were made during any of these partial estimate periods, this added or subtracted quantity that has been prorated will likewise have payment adjustments calculated and included.

(b) Performance Graded (PG) Asphalt Cements: The base price index will be the monthly price index in effect at the time of bid opening as shown elsewhere herein. The monthly price indices will be the average, excluding the extreme outliers, of the unit prices for PG 64-22, the average, excluding the extreme outliers, of the unit prices for PG 70-22m, and the average, excluding the extreme outliers, of the unit prices for PG 76-22m. The monthly prices for each of these asphalt materials will be F.O.B. refinery or terminal as determined from the quoted prices effective on the first calendar day of each month from suppliers of these materials. Suppliers considered are those who have requested to participate in the liquid asphalt index determination and have supplied materials on DOTD projects within the past twelve months. These suppliers and materials shall be listed on the Department's Qualified Products List (QPL 41) and must be marketed in Louisiana. For Asphalt Cements not listed above, the following shall be considered equivalent for payment adjustments:

Pay Item Equivalents Eligible for Asphalt Pay Adjustment

Performance Graded Asphalt Cement	Equivalent PG Asphalt Cement for Payment Adjustment
PG 58-28	PG 64-22
PG 64-22	PG 64-22
PG 70-22m	PG 70-22m
PG 76-22m	PG 76-22m
PG 82-22rm	PG 64-22

Payment adjustments will be made in accordance with the following formulas:

If Monthly Price Index exceeds Base Price Index,

$$P_a = (A - 1.05B) \times C \times D \times (1.00 + T)$$

If Base Price Index exceeds Monthly Price Index,

$$P_a = (0.95B - A) \times C \times D \times (1.00 + T)$$

Where:

P_a	=	Price adjustment (increase or decrease) for asphalt cement.
A	=	Monthly Price Index for respective PG 64-22, PG 70-22m, or PG 76-22m in dollars per ton/megagram.
B	=	Base Price Index for respective PG 64-22, PG 70-22m, or PG 76-22m in dollars per ton/megagram.
C	=	Tons/megagrams of asphaltic concrete.
D	=	Percent of respective asphalt cement, per job mix formula, in decimals.
T	=	Louisiana sales tax percentage, in decimals. (Note: Local tax is not considered)

The engineer will furnish the weights (mass) of asphaltic concrete placed during the monthly estimate period with the respective asphalt cement content, excluding the asphalt content in reclaimed asphaltic pavement (RAP) as per job mix formula. If the asphalt cement content changes during the estimate period, the respective weight (mass) of asphaltic concrete produced at each cement content will be reported.

All contract pay items using PG 58-28, PG 64-22, PG 70-22m, PG 76-22m, and PG 82-22rm shall be eligible for payment adjustments of asphalt materials; except no payment adjustment will be made for contract pay items under Subsection 510-01, "Pavement Patching", Section 507, "Asphaltic Surface Treatment", nor for any emulsions of cutbacks.

Item 510-02, Pavement Widening, and all contract pay items under Sections 502 and 508, will be eligible for payment adjustments of asphalt materials. No payment adjustment will be made for other asphalt materials, including emulsions and cutbacks.

The base price indices for asphalt cements and fuels will be posted on the DOTD internet website before the 10th calendar day of each month at the following URL: www.dotd.louisiana.gov/lettings/lac_price_index/priceindices.asp.

(c) Fuels: The base price index for this project will be the monthly price index in effect when bids are opened for the project. The monthly price index will be the minimum price quotations for unleaded gasoline and No. 2 diesel fuel listed for the New Orleans area in *Platt's Oilgram and Price Report* effective on the first calendar day of each month.

Payment adjustment will be made in accordance with the following formulas:

If Monthly Price Index exceeds Base Price Index,
$P_a = (A - 1.05B) \times Q \times F$

If Base Price Index exceeds Monthly Price Index,
$P_a = (0.95B - A) \times Q \times F)$

Where:

P_a	=	Price adjustment.
A	=	Monthly Price Index in dollars per gallon/liter.
B	=	Base Price Index in dollars per gallon/liter.
Q	=	Pay Item Quantity (Pay Units).
F	=	Fuel Usage Factor Gal (L)/Pay Unit.

The following is a listing of contract pay items that are eligible for payment adjustment and the fuel usage factors that will be used in making such adjustment. Contract items that expand the items listed herein by use of letter or number designations are also eligible for fuel price adjustments; for example:

Item 601-01-G, Portland Cement Concrete Pavement 8 inches (200 mm) thick.

ELIGIBLE CONTRACT PAY ITEMS & FUEL USAGE FACTORS FOR FUEL PAYMENT ADJUSTMENT[7]

ITEM NO.	PAY ITEM	UNITS	MIN. ORIGINAL CONTRACT QUANTITY FOR PAY ADJUSTMENT	FUEL USAGE FACTORS	
				Diesel[2]	Gasoline
203-01[1]	General Excavation	gal/cu yd	10,000 cu yd	0.29	0.15
203-02	Drainage Excavation	gal/cu yd	10,000 cu yd	0.29	0.15
203-03[1]	Embankment	gal/cu yd	10,000 cu yd	0.29	0.15
203-04	Nonplastic Embankment	gal/cu yd	10,000 cu yd	0.29	0.15
203-07	Borrow (Vehicular Measurement)	gal/cu yd	10,000 cu yd	0.29	0.15
301-01	Class I Base Course	gal/cu yd	3,000 cu yd	0.88	0.57
301-02	Class I Base Course (" Thick)	gal/sq yd	50,000 sq yd	0.04	0.03
302-01	Class II Base Course	gal/cu yd	3,000 cu yd	0.88	0.57
302-02	Class II Base Course (" Thick)	gal/sq yd	50,000 sq yd	0.04	0.03
303-01	In-Place Cement Stabilized Base Course	gal/sq yd	50,000 sq yd	0.04	0.03
304-02	Lime Treatment (Type B)	gal/sq yd	50,000 sq yd	0.04	0.03
304-03	Lime Treatment (Type C)	gal/sq yd	50,000 sq yd	0.04	0.03
304-04	Lime Treatment (Type D)	gal/sq yd	50,000 sq yd	0.04	0.03
305-01	Subgrade Layer (" Thick)	gal/sq yd	50,000 sq yd	0.04	0.03
308-01	In-Place Cement Treated Base Course	gal/sq yd	50,000 sq yd	0.04	0.03
401-01	Aggregate Surface Course (Net Section)	gal/cu yd	3,000 cu yd	0.88	0.57
401-02	Aggregate Surface Course (Adjusted Vehicular Measurement)	gal/cu yd	3,000 cu yd	0.88	0.57
502-01	Superpave Asphaltic Concrete	gal/ton	1000 ton	2.40[3]	0.2
502-02	Superpave Asphaltic Concrete	gal/cu yd	500 cu yd	4.80[4]	0.4
502-03	Superpave Asphaltic Concrete (" Thick)	gal/sq yd	10,000 sq yd	0.13[5,6]	0.01[6]
508-01	Asphaltic Concrete (SMA)	gal/ton	1000 ton	2.40[3]	0.2
510-02	Pavement Widening	gal/sq yd	3,000 sq yd	0.86	0.24
601-01	Portland Cement Concrete Pavement (" Thick)	gal/sq yd	15,000 sq yd	0.11	0.15

1 If project has both 203-01 & 203-03, only the item with larger quantity is eligible.
2 For fuel adjustment purposes, the term "diesel" shall represent No. 2 or No. 4 fuel oils or any of the liquified petroleum gases, such as propane or butane.
3 If natural gas or coal is used instead of diesel for aggregate drying and heating the fuel usage factor shall be 1.67 gal/ton.
4 If natural gas or coal is used instead of diesel for aggregate drying and heating the fuel usage factor shall be 13.34 gal/cu yd.
5 If natural gas or coal is used instead of diesel for aggregate drying and heating the fuel usage factor shall be 0.09 gal/sq yd.
6 Per inch of thickness.
7 No fuel adjustment will be allowed for waste oil.

ELIGIBLE CONTRACT PAY ITEMS & FUEL USAGE FACTORS FOR FUEL PAYMENT ADJUSTMENT (METRIC)[7]

ITEM NO.	PAY ITEM	UNITS	MIN. ORIGINAL CONTRACT QUANTITY FOR PAY ADJUSTMENT	FUEL USAGE FACTORS	
				Diesel[2]	Gasoline
203-01[1]	General Excavation	l/m^3	7,600 m^3	1.44	0.74
203-02	Drainage Excavation	l/m^3	7,600 m^3	1.44	0.74
203-03[1]	Embankment	l/m^3	7,600 m^3	1.44	0.74
203-04	Nonplastic Embankment	l/m^3	7,600 m^3	1.44	0.74
203-07	Borrow (Vehicular Measurement)	l/m^3	7,600 m^3	1.44	0.74
301-01	Class I Base Course	l/m^3	2,300 m^3	4.36	2.82
301-02	Class I Base Course (mm Thick)	l/m^2	41,800 m^2	0.18	0.14
302-01	Class II Base Course	l/m^3	2,300 m^3	4.36	2.82
302-02	Class II Base Course (mm Thick)	l/m^2	41,800 m^2	0.18	0.14
303-01	In-Place Cement Stabilized Base Course	l/m^2	41,800 m^2	0.18	0.14
304-02	Lime Treatment (Type B)	l/m^2	41,800 m^2	0.18	0.14
304-03	Lime Treatment (Type C)	l/m^2	41,800 m^2	0.18	0.14
304-04	Lime Treatment (Type D)	l/m^2	41,800 m^2	0.18	0.14
305-01	Subgrade Layer (mm Thick)	l/m^2	41,800 m^2	0.18	0.14
308-01	In-Place Cement Stabilized Base Course	l/m^2	41,800 m^2	0.18	0.14
401-01	Aggregate Surface Course (Net Section)	l/m^3	2,300 m^3	4.36	2.82
401-02	Aggregate Surface Course (Adjusted Vehicular Measurement)	l/m^3	2,300 m^3	4.36	2.82
502-01	Superpave Asphaltic Concrete	l/Mg	900 Mg	10.01[3]	0.83
502-02	Superpave Asphaltic Concrete	l/m^3	400 m^3	23.77[4]	1.98
502-03	Superpave Asphaltic Concrete (mm Thick)	l/m^2	8,400 m^2	0.59[5,6]	0.45[6]
508-01	Asphaltic Concrete (SMA)	l/Mg	900 Mg	10.01[3]	0.83
510-02	Pavement Widening	l/m^2	2,500 m^2	3.89	1.09
601-01	Portland Cement Concrete Pavement (mm Thick)	l/m^2	12,500 m^2	0.5	0.68

1 If project has both 203-01 & 203-03, only the item with larger quantity is eligible.
2 For fuel adjustment purposes, the term "diesel" shall represent No. 2 or No. 4 fuel oils or any of the liquified petroleum gases, such as propane or butane.
3 If natural gas or coal is used instead of diesel for aggregate drying and heating the fuel usage factor shall be 6.97 l/mg.
4 If natural gas or coal is used instead of diesel for aggregate drying and heating the fuel usage factor shall be 16.53 l/m^3.
5 If natural gas or coal is used instead of diesel for aggregate drying and heating the fuel usage factor shall be 0.41 l/m^2.
6 Per mm of thickness.
7 No fuel adjustment will be allowed for waste oil.

SUPERPAVE ASPHALTIC CONCRETE MIXTURES FOR SUBMERGED ROADS PROGRAM(04/09):

Section 502, Superpave Asphaltic Concrete Mixtures of the 2006 Standard Specifications as amended by the supplemental specifications thereto, is further amended as follows:

Subsection 502.04, Job Mix Formula Validation.

Delete the first sentence of the sixth paragraph and substitute the following:

A JMF is considered validated if the following parameters are 71 percent within limits of the JMF and meet the specifications requirements.

Subsection 502.05, Plant Quality Control.

Delete the first paragraph and substitute the following:

For quality control purposes, the contractor shall obtain a minimum of two samples of mixture from each sublot using a stratified random sampling approach. Test results for theoretical maximum specific gravity (G_{mm}) and measured bulk specific gravity (G_{mb}) at N_{max} and percent G_{mm} at $N_{initial}$, on samples of each sublot shall be reported. Control charts may be requested by the engineer if mixture problems develop. Quality control gyratory samples may be aged or unaged at the contractor's option, but the method chosen shall be used consistently throughout the project. If aged samples are used, report the measured G_{mb} at N_{max}. If unaged samples are used, report the estimated G_{mb} at N_{max}. One loose mix sample shall be taken from each sublot after placement of the mix in the truck. The mix shall be tested by the contractor at the plant for aggregate gradation, asphalt content and percent crushed aggregate. The mix shall be tested in accordance with DOTD TR 309, TR 323 and TR 306. The lot average and standard deviation shall be determined for aggregate gradation and asphalt content. The percent within limits (PWL) shall be determined on the Nos. 8 and 200 (2.36 mm and 75 μm) sieves and for G_{mm}. Corrective action shall be taken if these parameters fall below 71 PWL. For each lot, the contractor shall report all quality control data to the DOTD Certified Plant Technician. The full range of gradation mix tolerances will be allowed even if they fall outside the control points. The District Laboratory Engineer may require re-validation of the mix when the average of the Quality Control data indicates non-compliance with the specified limits or tolerances.

Subsection 502.08, Hauling, Paving, and Finishing.

Subheading (b), Paving Operations is amended to delete the first paragraph and substitute the following:

Transfer of mixture from haul truck to paver may be made by direct unloading into the paver hopper of by use of approved mechanical transfer devices to transfer mix from a haul truck or windrow. All mixtures shall flow through the paver hopper. Mixtures dropped in front of the paver shall be either lifted into the hopper or rejected and cast aside. Delivery of material to the paver shall be at a uniform rate and in an amount within the capacity of paving and compacting equipment. The paver speed and number of trucks shall be adjusted to have one truck waiting in addition to the one at the paver in order to maintain continuous paving operations. The height of material in front of the screed shall remain uniform.

Subsection 502.10, Roadway Quality Control.

Subheading (b), Surface Tolerance is deleted and the following substituted:

(b) Surface Tolerance: Acceptance testing for surface tolerance as outlined herein and in Table 502-4 of this section will be the responsibility of the Department. Quality control testing will be the responsibility of the contractor.

(1) Equipment: The contractor shall provide an approved inertial profiler that is certified to measure profile index. The inertial profiler shall be calibrated and operated in

accordance with DOTD TR 644 for longitudinal surface tolerance quality control testing. An approved 10-foot (3 m) metal static straightedge shall be furnished by the contractor for transverse and longitudinal surface tolerance acceptance testing. The operation of the inertial profiler including evaluation of the profile trace, determination of the Profile Index, calculation of the Average Profile Index and the determination of high points (bumps) in excess of specification limits shall be accomplished by a trained, authorized technician who has successfully completed the Department's training and evaluation program.

(2) Surface tolerance testing will be required on roadway travel lanes wearing and binder courses. For the purposes of surface tolerance requirements, the wearing course is defined as the last lift placed. The binder course is defined as the last lift placed prior to the wearing course. Other lifts on which additional asphaltic concrete is to be placed shall be finished so that succeeding courses will meet the requirements in this section. Base courses on which portland cement concrete pavement is to be placed shall be finished so that the portland cement concrete pavement will meet the requirements of Section 601.

(3) Longitudinal: The finished surface will be tested in the longitudinal direction for conformance to the surface tolerance requirements listed in this section. When testing for roadway travel lanes wearing and binder courses using the inertial profiler, one path in each paving strip in a lot will be selected for Quality Control and Acceptance Testing. The test path selected will be the inside wheel path of each paving strip adjacent to the centerline. If the inside wheel path contains numerous objects, such as manholes or water valve covers, the engineer may select an alternate path. The entire lot will be tested and shall meet the following requirements:

a. Two-Lift Overlays: Pavements with high points (bumps) in excess of 0.3 inch in 25 feet (7.5 mm in 7.5 m) or less shall be corrected and the lot retested. The Average Profile Index shall not be more than 5 inches per mile (79 mm/km) per lot.

b. Single-Lift Overlays: Pavements with high points (bumps) in excess of 0.3 inch in 25 feet (7.5 mm in 7.5 m) or less shall be corrected and the lot retested. The Average Profile Index shall be not more than 12 inches per mile (189 mm/km) per lot. If the alternative longitudinal surface (see section e. below) is used, the 12 inches per mile (189 mm/km) per lot will be revised accordingly. Unless otherwise directed, bump correction is still required.

c. Binder Courses: The Average Profile Index shall be not more than 12 inches per mile (189 mm/km) per lot. Lots with an Average Profile Index more than 12 inches per mile (189 mm/km) and high points (bumps) in excess of 0.3 inch in 25 feet (7.5 mm in 7.5 m) or less shall be corrected in accordance with Subsection 502.10(b)(7) and the lot retested. Surface requirements shall be met prior to placing the wearing course.

d. Shoulders, Turnouts, Crossovers, Detour Roads, Parking Areas, and Roadway Sections Less Than 500 Feet (150 m) in Length: For shoulders, turnouts, crossovers, detour roads, parking areas and roadway sections less than 500 feet (150 m) in length, the wearing course shall be tested with an approved 10-foot (3 m) metal static straightedge and the surface deviations shall not exceed 1/2 inch (15 mm). Areas with surface deviations in excess of 1/2 inch (15 mm) shall be isolated and corrected by the contractor in accordance with Subsection 502.10(b)(7).

e. Alternative Longitudinal Surface Tolerance: When the existing profile index is greater than the values listed in Table 502-A and verified by the project engineer, then the alternative longitudinal surface tolerance may be used.

The contractor must perform longitudinal testing in the presence of the engineer, or his designee, to document the existing condition. The contractor shall perform initial testing with

an automated inertial profiler (in PI mode). The engineer will allow the alternative longitudinal surface tolerance if the existing profile index exceeds:

Table 502-A

Lift	PI
Single-Lift Overlays	50
Binder Courses	50
Two-Lift Overlays	20

When the engineer determines the existing surface precludes the obtaining of the above Average Profile Index requirements as described in (3) above, the surface tolerance requirements will be set to 75 percent improvement of the existing surface measurements for single lift overlays and 90 percent for two lift overlays.

The improvement calculation will be made by matching the existing inertial profiler results with the lot location. The result, inches per mile (mm per km), as applicable, will be multiplied by the required improvement (0.75 or 0.90) and subtracted from the existing results to obtain a required inertial profiler (PI) reading.

High points (bumps) may be treated in the same manner by matching each bump on the existing trace to the final trace in a manner to conclusively correlate the before and after bump. Otherwise, the bumps are to be corrected in accordance with Subsection 502.10(b)(7) below. Also, when the alternate automated inertial profiler is used, a comparison between the existing trace and final must conclusively correlate any exception areas to be excluded from the traces, both existing and final. If such a correlation cannot be made, nor other evidence exists to support a deduction from the existing trace, exceptions cannot be considered.

(4) Transverse Surface Tolerance: The transverse surface finish shall be controlled so that the values shown in Table 502-4 will not be exceeded. The surface for binder and wearing courses will be tested at selected locations by the engineer in the transverse direction for compliance with the surface tolerance requirements of Table 502-4. Corrections shall be made as directed in accordance with 502.10(b)(7).

(5) Cross Slope: When the plans require the section to be constructed to a specified cross slope, tests shall be run at selected locations, using a string line, slope board or other comparable method. The cross slope shall be so controlled that the values shown in Table 502-4 will not be exceeded. Cross slope variations allowed in Table 502-4 shall apply to each lane constructed.

(6) Grade: When the plans require the pavement to be constructed to a grade, tests for conformance shall be run at selected locations, using a string line or other comparable method. Grade variations shall be controlled so that the tolerance shown in Table 502-4 will not be exceeded. Grade tolerances shall apply to only one longitudinal line, such as the centerline or outside edge of pavement. Corrections shall be made in accordance with Subsection 502.10(b)(7).

(7) Correction of Deficient Areas: Deficiencies to be corrected in the final wearing course shall be corrected by diamond grinding and applying a light tack coat, or removing and replacing, or furnishing and placing a supplemental layer of wearing course mixture at least 2 inches (50 mm) of compacted thickness for the full width of the roadway at no direct pay. If the supplemental layer does not meet specification requirements, it shall be removed and replaced.

Deficiencies to be corrected in binder and shoulder courses shall be corrected by diamond grinding to meet specification requirements at no direct pay. Corrections shall be made before subsequent courses are constructed. The engineer will review the profile trace obtained for each binder and wearing course on a per lot basis. In special cases or extenuating circumstances, the engineer may isolate sections of the profile trace out of specification. These sections may be excluded from the calculations of the Average Profile Index. These special cases or extenuating circumstances may include curb and gutter sections which require the adjustment of cross-slope in order to maintain adequate drainage, manholes, catch basins, valve and junction boxes, street intersections, or other structures located in the roadway which cause abrupt deviations in the profile trace. This specification exclusion will not be used to isolate sections of road that are in poor condition when the project is let. High points in excess of 0.3 inch in 25 feet (7.5 mm in 7.5 m) shall be corrected unless, in the opinion of the engineer, these high points do not cause damage to the roadway section or rideability. These high points then may be allowed to remain with a $500 per bump rebate, except that when the engineer determines that the bump is near or over objects such as manholes, or in a turnout with designed humps in the profile, the rebate will not apply. In all cases, the contractor has the option to grind the bumps to meet the specifications. This paragraph does not apply to multi-lift new construction and overlays more than two lifts.

(c) Quality Control Testing: The contractor shall test the pavement during the first work day following placement but in no case any later than 14 calendar days. Quality control testing using an inertial profiler will be required on roadway travel lanes wearing and binder courses. When quality control testing establishes that the surface tolerance is deficient, the contractor shall immediately suspend paving operations. Paving operations will not be allowed to resume until appropriate corrections have been made and a test section successfully placed with acceptable surface tolerance. This test section shall consist of a maximum of 500 tons (450 Mg) of asphaltic concrete placed in a continuous operation. The contractor shall control the paving operation and frequently test the surface to maintain the quality of the finished surface. The contractor shall profile, correct and re-profile as many times as necessary to verify that specification requirements have been met before notifying the engineer a lot is being submitted for acceptance. The contractor shall correct deficiencies determined during quality control testing in accordance with Subsection 502.10(b)(7) at no direct pay. Once these corrections have been completed and the surface tolerance requirements listed herein and in Table 502-4 have been met, the contractor shall provide the engineer the reports required in DOTD TR 644 with notification that the lot is ready for acceptance testing.

(d) Acceptance Testing: After corrective work and quality control testing within a lot has been completed by the contractor in accordance with these specifications and Table 502-4, the Department will evaluate the profile trace from the contractor's quality control tests for all courses. Longitudinal variations in the final wearing course surface will be subject to the provisions of Subsection 502.11(b)(3)a, Acceptance, herein. A DOTD Qualified Inertial Profiler Operator or Evaluator shall be present when the contractor conducts the final quality control testing. The contractor will be allowed to evaluate the final quality control trace to determine if any corrective measures are needed to eliminate deficient areas in the presence of the DOTD Qualified Inertial Profiler Operator or Evaluator. Upon completion of the contractor's evaluation, the DOTD Inspector will take immediate possession of the final quality control trace to be used for project acceptance. If corrective measures will be required to correct deficiencies, it will be necessary to re-profile only those defective areas, and re-compute the profile index

using the original final trace and the "re-roll" traces. All final quality control traces, including the "re-roll" quality control trace, shall be run in the presence of the DOTD Qualified Inertial Profiler Operator or Evaluator and the Department will take immediate possession of these traces for evaluation by the DOTD Qualified Evaluator. The Department will retain the right to verify the contractor's final quality control trace using the Department's Certified Inertial Profiler. The test path selected for acceptance testing will be the inside wheel path of each paving strip adjacent to the centerline. The surface of each shoulder will be tested longitudinally by the engineer at a minimum of one randomly selected location in each 300 linear feet (90 lin m) of shoulder using the 10-foot (3 m) metal static straightedge; areas with surface deviations in excess of 1/2 inch (15 mm) will be isolated by the engineer and shall be corrected by the contractor in accordance with Subsection 502.10(b)(7).

Subsection 502.11, Roadway Acceptance.

The first paragraph is deleted and the following substituted:

Acceptance testing for surface tolerance will be conducted on that portion of the lot placed on each contract.

Subheading (b); Subpart (3), Longitudinal Surface Tolerance is deleted and the following substituted:

(3) Longitudinal Surface Tolerance:

a. Acceptance: The contractor shall report the inertial profiler test results in inches per mile (mm per km) in accordance with Subsection 502.10(b)(1), herein.

1. Payment Adjustments: Longitudinal Surface Tolerance: Testing for surface tolerance will be required for each lot on the final roadway wearing course lift. The requirements for longitudinal surface tolerance on the final roadway wearing course lift as shown in Subsection 502.10(b)(1), herein, shall be used in determining pay adjustments.

To determine surface tolerance payment adjustments, the Profile Index will be determined in accordance with DOTD TR 644. The Average Profile Index will be calculated and any high points (bumps) in excess of specification limits will be identified. When high points (bumps) are found in excess of 0.3 inch in 25 feet (7.5 mm in 7.5 m) or less, the contractor shall make corrections in accordance with Subsection 502.10(b)(7). After the contractor submits the profile trace to the Department, if the Department determines that the Average Profile Index still does not meet the specification requirements for 100 percent payment, the contractor will be allowed to make corrections and re-profile the affected area in accordance with the above procedures one additional time. The Department may re-profile for acceptance. When sections of pavement do not meet the requirements for surface tolerance, an adjustment in unit price for the lot will be made in accordance with Table 502-7E. The engineer will review the profile trace obtained for each binder and wearing course on a per lot basis. In special cases or extenuating circumstances, the engineer may isolate sections of the profile trace out of specification. These sections may be excluded from the calculations of the Average Profile Index. These special cases or extenuating circumstances may include curb and gutter sections which require the adjustment of cross-slope in order to maintain adequate drainage, manholes, catch basins, valve and junction boxes, street intersections, or other structures located in the roadway which cause abrupt deviations in the profile trace. This specification exclusion will not be used to isolate sections of road that are in poor condition when the project is let. High points in excess of 0.3 inch in 25 feet (7.5 mm in 7.5 m) shall be corrected unless, in the opinion of the engineer, these high points do not cause damage to the roadway section or rideability. These high points may

then be allowed to remain with a $500 per bump rebate. In all cases, the contractor has the option to grind the bumps to meet the specifications. This paragraph does not apply to multi-lift new construction and overlays more than two lifts.

3. Alternative Longitudinal Surface Tolerance. The improvement calculation will be made by matching the existing inertial profiler results with the lot location. The result, in inches per mile (mm per km), will be multiplied by the required improvement (0.75 or 0.90) and subtracted from the existing results to obtain a required inertial profiler (PI) reading.

When the engineer determines that the existing surface tolerance precludes the obtaining of the above requirements, the surface tolerance requirements will be set to 75 percent improvement of the average existing surface measurements for single lift overlays and 90 percent for two lift overlays.

For acceptance, the price adjustment, inches per mile (mm per km) in Table 502-7E, will be adjusted proportionally.

Subsection 502.15, Measurement.
Subheading (c), Surface Tolerance Incentive Measurement is deleted.

Subsection 502.16, Payment.
Subheading (e), Longitudinal Surface Tolerance Incentive Pay is deleted.

Table 502-4, Superpave Requirements.
Footnote 2 is deleted and the following substituted:
[2]For longitudinal surface tolerance, see Subsection 502.10(b)

Table 502-7, Payment Adjustments for Superpave (page 240).
Delete Table 502-7A, Payment Adjustment Schedule for Plant Acceptance and substitute the following:

Table 502-7A
Payment Adjustment Schedule for Plant Acceptance

Air Voids PWL (90 AQL)	Percent Payment
71-100	100
61-70	90
51-60	80
≤50	50 or Remove[1]

[1]At the option of the Department after investigation.

Delete Heading B), Roadway Density and substitute the following.
B) ROADWAY DENSITY
The average density of the cores taken, as outlined in Subsection 502.11(a), will be determined for each lot and reported to the nearest tenth (0.1). Payment for roadway density will be in accordance with Table 502-7B.

Table 502-7B, Roadway Density, is deleted and the following is substituted:

Table 502-7B

Payment Adjustment Schedule for Roadway Density

Average Roadway Density	Percent Payment
92 and Above	100
90.5 – 91.9	95
89.0 – 90.4	80
Below 89	50 or Remove [1]

[1] At the option of the Department after Investigation

Delete Heading C), Surface Tolerance (Final Wearing Course Travel Lanes Only) and substitute the following:

Payment Adjustments will be in accordance with Table 502-7E, Payment Adjustment Schedules for Superpave.

Table 502-8A, Payment Adjustment Schedules for Longitudinal Surface Tolerance, Maximum International Roughness Index, Inches per mile (mm per km), is deleted and the following Table 502-7E is substituted:

Table 502-7E
Payment Adjustment Schedules
for Superpave

	Percent of Contract Unit Price/Lot [1]			
	100	95	80	50 or Remove [2]
Surface Tolerance, Inches/Mile/Lot Multi-Lift New Construction and Overlays More than Two Lifts.	3.0 and less	3.1 to 4.0	4.1 to 6.0	Over 6.0
Two-Lift Overlays	5.0 and less	5.1 to 6.0	6.1 to 10.0	Over 10.0
Single-Lift Overlays	12.0 and less	12.1 to 13.5	13.6 to 15.0	Over 15.0

[1]Portion of lot placed on the project.
[2]At the option of the engineer.

Table 502-8B, Individual Wheelpath Deficient Area Limits Maximum International Roughness Index, inches per mile (mm per km), is deleted.

ASPHALTIC CONCRETE EQUIPMENT AND PROCESS: Section 503 of the 2006 Standard Specifications for Roads and Bridges is amended as follows:

Subsection 503.15, Material Transfer Vehicle (MTV), is deleted and the following is substituted:

> 503.15 Material Transfer Vehicle (MTV). The Material Transfer Vehicle will not be required on this project. However, the contractor shall take all actions necessary to construct a pavement meeting the contract requirements, including but not limited to smoothness and uniformity.

COLD PLANING ASPHALTIC PAVEMENT: Section 509 is amended as follows:

The eighth paragraph of subsection 509.03(a) is deleted and the following substituted:

> The contractor shall retain all RAP generated from this project and dispose of beyond the limits of the project at no direct pay. This is to be considered in bidding on other items of work, and no specific item is provided for contractor reclaimed asphaltic pavement.

TEMPORARY TRAFFIC CONTROL (03/09): Section 713 of the 2006 Standard Specifications and the Supplemental Specifications is amended as follows:

Subsection 713.04, Temporary Signs and Barricades, is amended to include the following:

(d) Project Signs: The contractor shall furnish, install, and maintain "project signs" in accordance with the following requirements.

Project signs shall conform to the requirements of Section 713 and the project sign detail(s) contained elsewhere herein. Sign layout details are provided in the Construction Proposal Information Section contained elsewhere herein and are also available on the DOTD Construction, and American Recovery and Reinvestment Act of 2009 (ARRA) websites (http://www.fhwa.dot.gov/economicrecovery/arrasigndetail.pdf).

Project signs shall be required at the beginning and end of the project and shall follow sign G-20-1, "Road Work Next 'X' Miles", or as directed by the engineer.

In no case shall project signs be placed to obscure other traffic control devices. Project signs will not be allowed at the following locations:

- On the front, back, adjacent to or around any traffic control device, including traffic signs, signals, changeable messages signs, traffic control device posts or structures, or bridge piers.
- At key decision points where a driver's attention is more appropriately focused on traffic control devices, roadway geometry, or traffic conditions. These locations include, but are not limited to exit and entrance ramps, intersections controlled by traffic signals or by stop or yield signs, highway-rail grade crossings, and areas of limited sight distance.

Payment for all project signs within this subsection shall include all labor, materials, tools, and equipment required to complete the work and shall be included in the contract unit price for Item 713-01 Temporary Signs and Barricades.

LANDSCAPING (03/09): Section 719, Landscaping of the Standard Specifications, as amended by the supplemental specifications thereto is further amended as follows:

Subsection 719.06, Construction Methods.

Subheading (a), Seasonal Operations is amended to delete the first paragraph and substitute the following.

Unless otherwise directed by the engineer in writing, the planting season is between November 1 and April 15.

PLASTIC PAVEMENT MARKINGS (09/07): Section 732 of the 2006 Standard Specifications and the supplemental specifications thereto, is amended as follows.

Subsection 732.03, Construction Requirements for Plastic Pavement Marking Material.

Heading (a) is amended as follows.

The first paragraph is deleted and the following substituted.

(a) Equipment for Standard (Flat) Thermoplastic Marking Material: The application equipment shall consist of an extrusion die or a ribbon gun that simultaneously deposits and shapes lines at a thickness of 90 mils (2.3 mm) or greater on the pavement surface. When restriping onto existing thermoplastic markings, only a ribbon gun shall be used. Finished markings shall be continuous and uniform in shape, and have clear and sharp dimensions. Applicators shall be capable of producing various widths of traffic markings. Applicators shall produce sharply defined lines and provide means for cleanly cutting off stripe ends and applying broken lines. The ribbon extrusion die or shaping die shall not be more than 2 inches (50 mm) above the roadway surface during application. A spray application will only be allowed when applying 40 mil (1.0 mm) thermoplastic.

Heading (e) is deleted and the following substituted.

(e) Application of Surface Primer: A single component surface primer will be required prior to placement of preformed plastic markings over an existing painted stripe, over oxidized asphalt, or when striping over existing thermoplastic on portland cement concrete surfaces unless otherwise directed by the engineer. A two component epoxy primer sealer will be required prior to placement of thermoplastic materials on portland cement concrete surfaces unless otherwise directed by the engineer.

ASPHALT MATERIALS AND ADDITIVES (04/08): Section 1002 of the 2006 Standard Specifications and the supplemental specifications thereto is amended as follows.

Subsection 1002.02, Asphalt Material Additives is amended as follows.

Table 1002-1, Performance Graded Asphalt Cements is deleted and the following substituted.

Table 1002-1
Performance Graded Asphalt Cements

Property	AASHTO Test Method	PG82-22rm[6]	PG76-22m	PG70-22m	PG64-22	PG58-28
		Spec.	Spec.	Spec.	Spec.	Spec.
Tests on Original Binder:						
Rotational Viscosity @ 135°C, Pa·s [1]	T 316	3.0	3.0	3.0	3.0	3.0
Dynamic Shear, 10 rad/s, G*/Sin Delta, kPa	T 315	1.00+ @ 82°C	1.00+ @ 76°C	1.00+ @ 70°C	1.30+ @ 64°C	1.00+ @ 58°C
Flash Point, °C	T 48	232+	232+	232+	232+	232+
Solubility, % [2]	T 44	N/A	99.0+	99.0+	99.0+	99.0+
Separation of Polymer, 163°C, 48 hours, degree C difference in R & B from top to bottom [5]	ASTM D 7173 AASHTO T 53	---	2-	2-	---	---
Force Ductility Ratio (f_2/f_1, 4°C, 5 cm/min., f_2 @ 30 cm elongation)[3]	T 300	---	0.30+	---	---	---
Force Ductility, (4°C, 5 cm/min, 30 cm elongation, kg)[3]	T 300	---	---	0.23+	---	---
Tests on Rolling Thin Film Oven Residue:	T 240					
Mass loss, %	T 240	1.00-	1.00-	1.00-	1.00-	1.00-
Dynamic Shear, 10 rad/s, G*/Sin Delta, kPa	T 315	2.20+ @ 82°C	2.20+ @76°C	2.20+ @ 70°C	2.20+ @ 64°C	2.20+ @ 58°C
Elastic Recovery, 25°C, 10 cm elongation, % [4]	T 301	60+	60+	40+	---	---
Ductility, 25°C, 5 cm/min, cm	T 51	---	---	---	100+	---
Tests on Pressure Aging Vessel Residue:	R 28					
Dynamic Shear, @ 25°C, 10 rad/s, G* Sin Delta, kPa	T 315	5000-	5000-	5000-	5000-	5000- @ 19°C
Bending Beam Creep Stiffness, S, MPa @ -12°C.	T 313	300-	300-	300-	300-	300- @ -18°C
Bending Beam Creep Slope, m value,@ -12°C	T 313	0.300+	0.300+	0.300+	0.300+	0.300+ @ -18°C

[1]The rotational viscosity will be measured to determine product uniformity. The rotational viscosity measured by the supplier shall be noted on the Certificate of Delivery. A binder having a rotational viscosity of 3.0 Pa·s or less will typically have adequate mixing and pumping capabilities. Binders with rotational viscosity values higher than 3.0 Pa·s should be used with caution and only after consulting with the supplier as to any special handling procedures and guarantees of mixing and pumping capabilities.

[2]Not all polymers are soluble in the specified solvents. If the polymer modified asphalt digested in the solvent will not pass the filter media, a sample of the base asphalt used in making the polymer modified asphalt should be tested for solubility. If the solubility of the base asphalt is at least 99.0%, the material will be considered as passing.
[3]AASHTO T 300 except the second peak (f2) is defined as the stress at 30 cm elongation.
[4]AASHTO T 301 except elongation shall be 10 cm.
[5]Prepare samples per ASTM D 7173. Determine softening point of top and bottom per AASHTO T 53.
[6]The quality assurance plan for this product will require the contractors who use this material to submit written documentation of tank cleaning annually. Contractors must have tank mixers. Written certificates of analysis from the asphalt binder supplier confirming rubber source and size distribution of rubber used shall be furnished to the Materials Laboratory.

Add the following Table 1002-12, Anionic Trackless Tack Coat Grade NTSS-1HM.

Table 1002-12
Anionic Trackless Tack Coat Grade NTSS-1HM

Property	AASHTO Test Method	Specification Deviation	
		100% Pay	50% Pay or Remove[1]
Viscosity, Saybolt Furol @ 25°C, s	T 59	15 - 100	---
Storage Stability, 24 Hour, %	T 59	1.0-	---
Settlement, 5 Days, %	T 59	5.0-	---
Residue by Distillation, %	T 59	50+	49-
Oil Distillate, %	T 59	1.0-	---
Sieve Test[2], (Retained on the 850 µm), %	T 59	0.3-	---
Tests on Residue			
Penetration @ 25°C, 100g, 5s, dmm	T 49	20-	---
Softening Point, Ring and Ball, °C	T 53	65+	64-
Solubility, %	T 44	97.5+	---
DSR @ 25°C; G*Sin δ, 10 rad / s, kPa	T 315	1.0+	---

[1] At the option of Engineer.
[2] Sieve tests may be waived if no application problems are present in the field.

NS CONCRETE WALKS (HANDICAPPED RAMP-TYPE A) AND CONCRETE WALKS (HANDICAPPED RAMP-TYPE B) (04/09):
DESCRIPTION: This work consists of furnishing and constructing Portland Cement Concrete handicapped ramps with 2 ft x 4 ft (.6 m x 1.8 m) Detectable Warning Surface in accordance with the City of New Orleans Department of Public Works Standard Details STD1 and STD2 and these plans and specifications.

MATERIALS. This work shall be done in accordance with the following Sections or subsections:

Portland Cement Concrete (Class M) as listed in Section 901;
Granular Materials shall comply with 1003.07;

Epoxy shall comply with 1017;
Forms shall comply with 707.04;
Joint fillers shall comply with 1005.01(c);
Joint sealant shall comply with 1005.02;
Joint seals shall comply with 1005.03;
Form release agents shall comply with 1018.24;
Welded wire fabric shall comply with 1009.01;
Curing Materials shall comply with 601.10 and 1011.01;
Joints shall comply with 706.03(e);
Reinforcement shall comply with 1009;
Detectable Warning Surface shall comply with 706.03 (g)

CONSTRUCTION REQUIREMENTS. Excavation shall be made to the required depth and width, shaped and compacted to a firm, even surface. Unsuitable material shall be removed and replaced with approved material at no direct pay. Removal of existing sidewalk and disposal offsite will be at no direct pay.

a) Forms shall be of wood or metal and shall extend the full depth of concrete and shall be straight, clean and of sufficient strength to resist the pressure of concrete.
b) Subgrade shall be thoroughly moistened immediately prior to placing concrete.
c) Concrete shall be placed and finished per Section 901.
d) Joints shall be per Section 706.03(e).
e) Curing shall be in accordance with Subsection 601.10.
f) Detectable Warning Surface 2 ft x 4 ft (.6 m x 1.8 m) shall be in accordance with Subsection 706.03(g).
g) Curb and/or gutter within the limits of handicap ramps shall be removed and replaced at no direct pay.
h) Full depth saw cuts shall be required to ensure a straight line between old and new work. Saw cuts will include cuts through existing steel curb bands.
i) The new concrete curb and gutterbottom shall consist of 4,000 psi (28 MPa), High Early Strength Concrete reinforced with 6 X 6 –W 2.9 X W 2.9 welded wire fabric. The new mesh shall be tied to the existing mesh or tie bars where possible. The contractor may substitute deformed straight bars with the equivalent area of steel for transverse steel re-bar and place longitudinal steel re-bar as shown in the City of New Orleans Standard Plan STD2. Longitudinal steel re-bar will discontinue at all contraction and expansion joints. The mix design approval for high early strength shall be contingent on trial batches, made, sampled, and delivered to DOTD by the contractor, and with minimum strengths in 48 hours of 3200 psi (22 MPa), as determined by the DOTD District Laboratory Engineer.
j) After the handicapped ramp has set, the excavated area behind the curb shall be brought to the top of the back of curb and shall be replaced in-kind using topsoil, fertilizer and seeding at no direct pay.

MEASUREMENT. In the case where two Type B handicapped ramps are to be installed within the same radii, the removal and replacement of existing sidewalk, curb or gutter between the new ramps shall be considered incidental to the ramp. Concrete Walks (Handicapped Ramp-Type A)

and Concrete Walks (Handicapped Ramp-Type B) shall be measured per installed Handicapped Ramp

PAYMENT. Payment for concrete walks [handicap ramp] will be made at the contract unit price per each, including excavation, base preparation, granular material, Portland Cement Concrete, installation of 2 ft x 4 ft (.6 m x 1.8 m) Detectable Warning Surface, new welded wire fabric, forming, pouring and finishing new concrete walks. Curb, gutter, and sidewalk removal will be at no direct pay. Full depth saw cutting will be at no direct pay.

Payment shall be made under:

Item No.	Pay Item	Pay Unit
NS-SRP-00001	CONCRETE WALKS (HANDICAPPED RAMP -TYPE A)	Each
NS-SRP-00002	CONCRETE WALKS (HANDICAPPED RAMP -TYPE B)	Each

NS MANHOLE ADJUSTMENT (04/09):
DESCRIPTION. This work consists of the vertical adjustment and slight adjustments in alignment of manholes as needed to match the final pavement surface elevation,
in a manner that no additional walls are required. The work shall be in accordance with plan details and these specifications
MATERIALS. Materials shall comply with the following Sections and Subsections:
Mortar shall comply with 702.02
Sewer Brick shall comply with 1004.01

CONSTRUCTION REQUIREMENTS. This work shall be done in accordance with the General Specifications and Standard Plans of the Sewerage & Water Board of New Orleans and the New Orleans Department of Public Works, latest editions.

The work shall consist of full depth saw cutting and removing of adjacent pavement, adjusting the manhole to meet final pavement elevation with brick and mortar and replacing the adjacent roadway pavement in kind as directed All pavement, curb and gutter shall be replaced in-kind at the proper grade and elevation. Portland Cement Concrete shall be 4,000 psi concrete or as directed by the Project Engineer.
Frames and Covers shall be salvaged and reused. Metal parts shall be thoroughly cleaned and placed in good repair.
MEASUREMENT. Manhole adjustments shall be measured per each manhole adjusted, which will include all materials, equipment, tools and labor incidental thereto. All excavation saw cutting of pavement, curb and/or gutter (if required), removal and replacement of pavement, curb and/or gutter (if required), base and granular material, fabric, backfilling and shoring of excavation will be considered incidental to the work. Removal and placement of frames and covers will not be measured for payment.

PAYMENT. Manhole adjustments will be paid for at the contract unit per each, complete in place.l

Payment will be made under:

Item No.	Pay Item	Pay Unit
NS-SRP-00004	Manhole Adjustment	Each

NS CATCH BASIN ADJUSTMENT (TYPE A) (04/09):

DESCRIPTION. This work consists of the vertical adjustment and slight adjustments in alignment of catch basins as needed to match the final pavement surface elevation, in a manner that no additional walls are required. The work shall be in accordance with plan details and these specifications

MATERIALS. Materials shall comply with the following Sections and Subsections:

Mortar shall comply with 702.02

Sewer Brick shall comply with 1004.01

CONSTRUCTION REQUIREMENTS. This work shall be done in accordance with the General Specifications and Standard Plans of the Sewerage & Water Board of New Orleans and the New Orleans Department of Public Works, latest editions.

The work shall consist of full depth saw cutting and removing of adjacent pavement, adjusting the catch basin to meet final pavement elevation with brick and mortar and replacing the adjacent roadway pavement in kind as directed. All pavement, curb and gutter shall be replaced in-kind at the proper grade and elevation Portland Cement Concrete shall be 4,000 psi (28 MPa) concrete or as directed by the Project Engineer.

Frames and Covers shall be salvaged and reused. Metal parts shall be thoroughly cleaned and placed in good repair.

After the catch basin has set, the excavated area behind the curb shall be brought to the top of the back of curb and shall be replaced in-kind using topsoil, fertilizer and seeding at no direct pay.

MEASUREMENT. Catch Basin Adjustment (Type A) shall be measured per each catch basin adjusted, which will include all materials, equipment, tools and labor incidental thereto. All excavation, saw cutting of pavement, curb and/or gutter (if required), removal and replacement of pavement, curb and/or gutter (if required), base and granular material, fabric, backfilling and shoring of excavation shall be considered incidental to the work. Removal and placement of frames and covers will not be measured for payment.

PAYMENT. Catch Basin Adjustment (Type A) will be paid for at the contract unit price per each, complete in place. ..

Payment will be made under:

Item No.	Pay Item	Pay Unit
NS-SRP-00005	Catch Basin Adjustment (Type A)	Each

NS CONCRETE PAVEMENT REPAIR (18.0 SQ. YD. AND UNDER), CONCRETE PAVEMENT REPAIR (18.1 SQ. YD. TO 48.0 SQ. YD) AND CONCRETE PAVEMENT REPAIR (48.1 SQ. YD. AND OVER) (04/09):

DESCRIPTION. This work consists of pavement repair of existing Portland Cement Concrete pavements or composites, or overlaid concrete pavements, in accordance with plan details and these specifications.

MATERIALS. Materials shall comply with the following Sections or Subsections :

Asphaltic Concrete shall be any type mixture listed in Section 502;
Granular Materials shall comply with 1003.07;
Base Course shall comply with 1003.03 (b) or (c);
Portland Cement Concrete shall conform to Sections 601 and 901, except that the concrete shall be a high early strength concrete;
Epoxy shall comply with 1017
Welded wire fabric shall comply with 1009
Joints shall comply with 706.03(e)

Curing shall comply with 601.10

CONSTRUCTION REQUIREMENTS.

a) Asphalt surfacing, if any, shall be removed to permit full depth saw cutting the concrete base pavement. The contractor shall saw cut full depth into the concrete pavement to ensure a square break of the pavement to be removed.

b) The contractor shall remove existing surfacing and base materials and perform all required excavation for pavement repair. The breaking out shall be done with hydraulic or pneumatic equipment only. No free fall equipment shall be allowed. When breaking the concrete pavement, every attempt shall be made to save a minimum 12 inches (300 mm) of the existing welded wire fabric on each side. In the event that the welded wire fabric cannot be saved, or where none exist, #4 deformed tie bars shall be drilled and epoxy grouted into the existing pavement to allow for a proper tie-in.

c) Existing surfacing and excess excavation shall be disposed of beyond the right-of-way in accordance with Section 202.

d) Excavation and compaction of the subgrade shall be in accordance with the plans or as directed. The subgrade shall be compacted uniformly.

e) All concrete pavement within the designated area is to be removed and the subgrade area prepared to receive an 8 inch (200 mm) compacted base course. Compacted granular material as required shall be used to bring subgrade to the required elevation. Compacted granular material shall also be used to replace unsuitable subgrade or to fill voids as directed.

f) Just prior to placing the new concrete, the vertical faces of the old concrete pavement are to be coated with an approved concrete epoxy.

g) When through traffic is maintained, the contractor shall complete the replacement of pavement, place the widening material, or fill and compact open areas or trenches, at the end of each day's operation.

h) The new roadway pavement shall consist of 4,000 psi (28 MPa), High Early Strength Concrete reinforced with 6 X 12 –W 7.5 X W 6.5 welded wire fabric, (77 pounds (35 kg) per 100 square feet (9.2 sq m). The new mesh or tie bars shall be tied to the existing mesh where possible. The mix design approval for high early strength concrete shall be contingent on trial batches, made, sampled, and delivered to DOTD by the contractor, and with minimum strengths in 48 hours of 3200 psi (22 MPa), as determined by the DOTD District Laboratory Engineer.

i) Wherever any type joint or a part thereof falls within the affected area, the same shall be reestablished in accordance to City of New Orleans Department of Public Works joint repair detail on Standard Plan STD1 - STD7. When the pavement is removed to a joint, the butt joint shall comply with Standard Plan STD5. Reestablishing joints shall be considered incidental to concrete pavement repair.

j) After all roadway pavement repairs have been completed at a location, LADOTD approved asphalt wearing course material, if required, shall be placed to the top of the existing pavement adjacent to the patch in a continuous operation prior to opening to traffic.

k) Every attempt shall be made to align new joints with existing joints in curb and pavement.

MEASUREMENT. Concrete pavement repair will be measured per square yard (sq m) of existing pavement designated to be removed and replaced, which includes full depth saw cutting, removal of existing pavement, excavation, base preparation, base course, portland cement concrete, welded wire fabric, dowel bars, tie bars, epoxy, granular material and Asphaltic Concrete.

PAYMENT. Payment for concrete pavement repair will be made at the contract unit price per square yard, Unsuitable material shall be removed and replaced with approved material at no direct pay.

Payment will be made under:

Item No.	Pay Item	Pay Unit
NS-SRP-00012	Concrete Pavement Repair [18.0 sq. yd. (15 sq m) and Under]	Square Yard (Sq m)
NS-SRP-00013	Concrete Pavement Repair [18.1 sq. yd. (15 sq m) to 48.0 sq. (40 sq m) yd]	Square Yard (Sq m)
NS-SRP-00014	Concrete Pavement Repair [48.1 sq. yd. (40 sq m) and Over]	Square Yard (Sq m)

NS CONCRETE CURB (BARRIER) (DOWELED) AND CONCRETE CURB (MOUNTABLE) (DOWELED)(04/09):

DESCRIPTION: This work consists of constructing new curb of similar type adjacent to new concrete patches in accordance with plan details and these specifications. This work is to be performed in accordance with the City of New Orleans Department of Public Works Standard Details STD1 - STD7 and these specifications.

MATERIALS. Materials shall comply with the following Sections or Subsections:

Portland cement concrete shall conform to Sections 707 and 901
Epoxy shall comply with 1017;
Forms shall comply with 707.04;
Joint fillers shall comply with 1005.01;
Joint sealant shall comply with 1005.02;
Joint seals shall comply with 1005.03;
Curing materials shall comply with 1011.01;
Form release agents shall comply with 1018.24.

CONSTRUCTION REQUIREMENTS.

a) Just prior to placing the new concrete curb, the horizontal faces of the new concrete pavement are to be horizontally smooth and coated with an approved concrete epoxy. Tie bars shall be a #4 deformed bar.
b) The type of concrete curb to be provided shall be as indicated on the plans.
c) Concrete joints shall conform to Section 707.05, except at that longitudinal steel rebar will discontinue at all contraction and expansion joints. Undoweled contraction joints shall be placed the entire width of the concrete curb, at no greater than 20 foot (6 m) intervals. Dowelled expansion joints shall be place at intersections, not to exceed three hundred 300 foot (91 m) intervals, and/or as indicated on the plans.
d) Finishing shall comply with Section 707.07. After finishing, concrete curb shall be cured in accordance with Section 601.10.
e) After the curb has set, the excavated area behind the curb shall be brought to the top of the back of curb and shall be replaced in-kind using topsoil, fertilizer and seeding at no direct pay.
f) New curb height shall match existing adjacent curb or as directed by the Project Engineer. There shall not be an abrupt elevation change between new and old work.

MEASUREMENT. New curb will be measured by the linear foot (ln m) of installed curb, which includes full depth saw cutting, portland cement concrete, dowel bars, tie bars, forming, epoxy, pouring, finishing new concrete including all materials, equipment, tools and labor incidental thereto.

PAYMENT. Payment for Concrete Curb (Barrier) (Doweled) and Concrete Curb (Mountable) (Doweled) will be made at the contract unit price per linear foot (ln m).

Payment will be made under:

Item No.	Pay Item	Pay Unit
NS-SRP-00016	Concrete Curb (Barrier) (Doweled)	Linear Foot (Ln m)
NS-SRP-00017	Concrete Curb (Mountable) (Doweled)	Linear Foot (Ln m)

NS CONCRETE CURB (BARRIER) (DRILLED & DOWELED) AND CONCRETE CURB (MOUNTABLE) (DRILLED & DOWELED)(04/09):

DESCRIPTION: This work will consist of removing existing curb and construction of new curb of similar type drilled into an existing concrete panel in accordance with plan details and these specifications. This work is to be performed in accordance with the City of New Orleans Department of Public Works Standard Details STD1 -STD7 and these specifications.

MATERIALS. Materials shall comply with the following Sections or Subsections:

Portland cement concrete shall conform to Sections 707 and 901
Epoxy shall comply with 1017;
Forms shall comply with 707.04;
Joint fillers shall comply with 1005.01;
Joint sealant shall comply with 1005.02;

Joint seals shall comply with 1005.03;
Curing materials shall comply with 1011.01;
Form release agents shall comply with 1018.24.

CONSTRUCTION REQUIREMENTS.

a) The contractor shall full depth horizontally sawcut the existing curb in order to remove the curb and materials and perform all required excavation.
b) Existing curbing and excess excavation shall be disposed of beyond the right-of-way in accordance with Section 202.
c) Just prior to placing the new concrete curb, the horizontal faces of the old concrete pavement are to be horizontally smoothed and coated with an approved concrete. Tie bars shall be deformed #4 bars and shall be drilled and epoxy coated into existing curb.
d) The type of concrete curb to be provided shall be as indicated on the plans.
e) Concrete joints shall conform to Section 707.05, except that longitudinal steel rebars shall be discontinued at all contraction and expansion joints. Undoweled contraction joints shall be placed the entire width of the concrete curb, at no greater than 20 foot (6 m) intervals. Doweled expansion joints shall be placed at intersections, not to exceed 300 foot (91 m) intervals, or as indicated on the plans.
f) Finishing shall comply with Section 707.07. After finishing, concrete curb shall be cured in accordance with Section 601.10.
g) After the curb has set, the excavated area behind the curb shall be brought to the top of the back of curb and shall be replaced in-kind using topsoil, fertilizer and seeding at no direct pay.
h) New curb height shall match existing adjacent curb or as directed by the Project Engineer. There shall not be an abrupt elevation change between new and old work.

MEASUREMENT. New curb will be measured per linear foot (ln m)of installed curb, which includes full depth and horizontal saw cutting, removal of existing curb, portland cement concrete, dowel bars, tie bars, forming, epoxy, placing, finishing new concrete and all materials, equipment, tools and labor incidental thereto.

PAYMENT. Concrete Curb (Barrier) (Drilled & Doweled) and Concrete Curb (Mountable) (Drilled & Doweled) will be made at the contract unit price per linear foot (ln m).

Payment will be made under:

Item No.	Pay Item	Pay Unit
NS-SRP-00018	Concrete Curb (Barrier) (Drilled & Doweled)	Linear Foot (Ln m)
NS-SRP-00019	Concrete Curb (Mountable) (Drilled & Doweled)	Linear Foot (Ln m)

NS STORM DRAIN PIPE (05/09):

DESCRIPTION. This work consists of furnishing and installing storm drains, also referred to as culverts or conduit, in accordance with the 2006 Louisiana Standard Specifications for Roads and bridges, these specifications and in conformity with lines and grades shown on the plans or established by the engineer..

MATERIALS. Materials shall comply with Subsection 701.02 of the standard specifications except as specified otherwise herein:

When the item for Storm Drain Pipe is included in the contract, the contractor shall furnish reinforced concrete pipe (RCP) unless otherwise specified.

CONSTRUCTION REQUIREMENTS.
(a) Excavation: Trench excavation shall be in accordance Subsection 701.03 for all pipe sizes.
(b) Forming Pipe Bed: During excavation for storm drain pipe, if rock or unsuitable material is encountered, it shall be removed below grade and replaced with material complying with Subsection 203.06 and constructed in accordance with Subsections 701.04 and 701.08..
(c) Laying Pipe: Storm drain pipe shall be laid in accordance with Subsection 701.05. Bell or groove ends of pipe shall be placed facing upstream. After pipe has been laid and before backfill is placed, the engineer will inspect the pipe for alignment, grade, and integrity of joints.

(d) Joining Pipe:
(1) Joint Usage Joining storm drain pipe shall be in accordance with Subsection 701.06 except as follows.
Type 3 (T3) joints shall be used for closed storm drain systems, flumes, and siphons.
(e) Backfilling of storm drain pipe shall be in accordance with Subsection 701.08.

(f) Inspection of Pipes: After completion of embankment and prior to roadway surfacing, the engineer will inspect storm drain pipes for proper alignment and integrity of joints. Any misaligned pipe or defective joints shall be corrected by the contractor at no direct pay.

g) Cleaning Pipes: Prior to final acceptance, contractor installed storm drain pipes shall be cleaned of all debris and soil to the invert of the pipe at no direct pay.
Removed soil, debris, and other materials shall be disposed of in accordance with Subsection 202.02 or as otherwise approved in writing.

(h) Stubbing Pipes. When new storm drain pipes are to be stubbed into new or existing pipes or other structures, the connection shall be made with approved mortar complying with Subsection 702.02.

MEASUREMENT. Storm drain pipe, both new and relaid, will be measured in linear feet (lin m) in accordance with Subsection 701.12 except as follows:
(Furnishing and placing backfill material for storm drain pipes will not be measured for payment. Backfill material needed to complete backfill around pipes will be included in this item.
Measurement of storm drain pipe will include all labor, materials, equipment, tools, and incidentals necessary to complete the work.

PAYMENT. Payment for storm drain pipe will be made at the contract unit price per linear foot (lin m) in accordance with Subsection 701.13. Removing rock or unsuitable material encountered

during trench excavation will not be paid for directly but will be considered incidental to this pay item.

Payment will be made under:

Item No.	Pay Item	Pay Unit
NS-SRP-00054	Storm Drain Pipe (12" RCP)	Linear Foot (Ln m)
NS-SRP-00023	Storm Drain Pipe (21" RCP)	Linear Foot (Ln m)

NS CURED-IN-PLACE PIPE LINING (04/09) (NS):
DESCRIPTION: This work consists of the lining of existing sanitary or storm drain lines by the installation of a resin impregnated flexible felt tube to line the pipe in accordance with with the General Specifications and Standard Plans of the Sewerage & Water Board of New Orleans (Latest Edition).

MATERIALS:
All cured in place pipe (CIPP) lining products shall comply with ASTM F1216- Rehabilitation of Existing Pipelines and Conduits by the Inversion and Curing of a Resin-Impregnated Tube, or ASTM F1743 – Rehabilitation of Existing Pipelines and Conduits by Pulled-in-Place Installation of Cured-in-Place Thermosetting Resin Pipe (CIPP).

The contractor shall furnish a general purpose unsaturated, polyester or thermosetting vinyl ester resin and catalyst system that provides cured physical strengths specified herein.

The liner shall be fabricated from materials which when complete are chemically resistant to and will withstand internal exposure to domestic sewage having a pH range of 5 to 11 and temperature up to 125° (F). CIPP liners shall meet the minimum chemical resistance requirements in accordance with ASTM F1216-Rehabilitation of Existing Pipelines and Conduits by the Inversion and Curing of a Resin-Impregnated Tube.

GENERAL: Installation shall be accomplished by inversion or winched-in-place methods and cured in place (CIP) by ambient temperature or circulating hot water or steam to produce a hard, joint-less, impermeable pipe repair.

The contractor shall take field measurements to verify the existing pipe diameter, ovality and length prior to manufacturing liners. The manufacturer shall incorporate these measurements into the manufacturing process of the liner.

The liner thickness shall be sized for a minimum hydrostatic and earth load of 8 feet. The earth load and hydrostatic load shall be increased to the manhole depth for bury depths in excess of 8 feet unless otherwise noted.

The liner shall be structurally designed for fully deteriorated hosts pipe/direct bury condition, prism loading, and AASHTO Standard Specification for Highway Bridges HS-20-44 live loading due to traffic. The liner shall be designed for the following conditions:

DESIGN PARAMETER	VALUE,
Minimum Service Life	50 years
Soil Density	120 pounds per cubic foot (lb/cf)
Soil Modulus	1000 pounds per square inch (psi)
Minimum Safety Factor	2.0

Ovality Factor	2%
Maximum Deflection	5% in vertical axis
Long Term Modulus Reduction Factor	50%

The final CIPP liners shall conform to the minimum structural standards as listed below in accordance with ASTM D790 – Test Methods for Flexural Properties of Un-reinforced and Reinforced Plastics and Electrical Insulating Materials and ASTM F1216 - Rehabilitation of Existing Pipelines and Conduits by the Inversion and Curing of a Resin-Impregnated Tube:

FINAL CIPP	MINIMUM REQUIRED
Flexural Stress	4,500 psi
Flexural Modulus of Elasticity	250,000 psi
Long Term Flexural Modulus	125,000 psi

CONSTRUCTION REQUIREMENTS: The flexible tube shall be one or more layers of needled felt or equivalent woven or non-woven material manufactured under quality controlled conditions set by the manufacturer. The tube shall contain no intermediate layers that delaminate after resin curing. It shall not be possible to separate, any layers with a probe or knife blade such that the layers separate cleanly or the probe or knife blade moves freely between the layers.

The liner shall be furnished to the following minimum thickness, or the thickness based upon design criteria as specified herein, whichever is greater:

Pipe Diameter (inch)	Depth of Sewer Invert (feet)	CIP Nominal Thickness (inches)
6	0 – 20	0.177
8	0 – 20	0.236
10	0 – 15	0.236
10	15.1 – 20	0.295
12	0 – 10	0.236
12	10.1 – 20	0.295
15	0 – 10	0.295
15	10.1 – 15	0.354
15	15.1 – 20	0.413
18	0 – 10	0.354
18	10.1 – 15	0.413
18	15.1 – 20	0.472
21	0 – 10	0.374
21	10.1 – 20	0.555
24	0 – 10	0.472
24	10.1 – 22	0.590
27	0 – 10	0.465
27	10.1 – 20	0.705
30	0 – 10	0.590
30	10.1 – 22	0.817
36	0 – 20	0.921

MEASUREMENT: New Cured-in-place pipe lining will be measured to the nearest linear foot installed, which includes all materials, equipment, tools and labor incidental thereto.

PAYMENT: Cured-In-Place Pipe Lining will be paid for at the contract unit price per linear foot of the types and sizes specified, complete and in place.

Payment will be made at the contract unit price under:

Item No.	Pay Item	Pay Unit
NS-SRP-00026	Cured-In-Place Pipe Lining (18 inches)	Linear Foot
NS-SRP-00027	Cured-In-Place Pipe Lining (21 inches)	Linear Foot
NS-SRP-00028	Cured-In-Place Pipe Lining (24 inches)	Linear Foot

NS PROJECT SIGN (SUBMERGED ROADS PROGRAM)(04/09):

DESCRIPTION. This work consists of retrieving, installing, maintaining and returning Submerged Roads Program Project Signs that are to be used at locations designated on the plans, in the contractors Construction Layout Plan or as directed by the Project Engineer.

The project signs shall be retrieved from and returned to Louisiana Department of Transportation and Development's New Orleans East Office, 14101 Old Gentilly Road, New Orleans, LA 70129. Project signs shall be delivered to the job site and installed on crashworthy sign posts, furnished by the contractor, before work commences on the project. The project signs shall be removed and returned upon completion of the work, as directed by the project engineer.

The project signs shall be in good condition when delivered to the job site. The Project Engineer will inspect and approve the project signs and posts for use on the project. The project signs and posts shall be kept clean and in good repair at all times by the contractor.

The project signs and posts shall be installed with the requirements of informational signs in the Manual on Uniform Traffic Control Devices (MUTCD). Signs and posts shall be reasonably plumb/level and rigid. Signs shall be located approximately at the beginning of project, but not in conflict with other temporary construction signs. Sign locations shall be adjusted as necessary for maximum visibility.

The project signs shall be clearly visible under all conditions and from all lanes of travel. The project signs shall maintain this legibility throughout the entire project. The contractor shall be responsible for maintaining this minimum legibility. Determination of legibility shall rest solely with the Project Engineer. In the event that the sign or post is damaged due to contractor's operations or other reasons considered preventable by the contractor, the contractor shall replace the sign or post in kind at his own expense. If the sign requires replacement due to normal aging or other reasons not preventable, a new sign will be furnished by the Department. Retrieving and re-installing will be the responsibility of the contractor.

The project signs shall be used in conjunction with other traffic signs and devices in accordance with the plans, project specifications and as directed by the Project Engineer.

MATERIALS. Vacant

CONSTRUCTION REQUIREMENTS. Vacant

MEASUREMENT. Measurement of Submerged Roads Program Project Sign will be per each, which includes retrieval of sign, furnishing posts and hardware, installation,, relocation (if required) maintenance and return of the project sign during the life of the contract and includes all equipment, tools, labor and incidentals necessary for this item of work.. A minimum of two

48 inch by 48 inch project signs will required per project roadway or as directed by the Project Engineer.

PAYMENT. Payment for the Submerged Roads Program Project Sign will be made at the contract unit price per each.

Payment will be made under:

Item No.	Pay Item	Pay Unit
NS-SRP-00029	Project Sign (Submerged Roads Program)	Each

NS RECONSTRUCTION OF CONCRETE CURB AND GUTTER- BOTTOM (BARRIER CURB) AND RECONSTRUTION OF CONCRETE CURB AND GUTTER- BOTTOM (MOUNTABLE CURB)(04/09) (NS):

DESCRIPTION: This work consists of removing existing curb and gutter -bottom and construction of new curb and gutter- bottom of similar type in accordance with plan details and these specifications. This work is to be performed in accordance with the City of New Orleans Department of Public Works Standard Details STD1 – STD7, and these specifications.

MATERIALS: Materials shall comply with the following Sections or Subsections:

Granular Materials shall comply with 1003.07;
Base Course shall comply with 1003.03 (b) or (c);
Portland cement concrete shall conform to Sections 707 and 901, except that the concrete shall be a high early strength concrete;
Epoxy shall comply with 1017;
Welded wire fabric shall comply with 1009;
Forms shall comply with 707.04;
Joint fillers shall comply with 1005.01;
Joint sealant shall comply with 1005.02;
Joint seals shall comply with 1005.03;
Curing materials shall comply with 1011.01;
Form release agents shall comply with 1018.24.
Admixtures shall comply with 1011.02.

GENERAL CONSTRUCTION REQUIREMENTS: The contractor shall full depth sawcut removal limits and remove the existing curb and gutter section materials and perform all required excavation for the curb and gutter reconstruction. When removing the concrete curb and gutter, every attempt shall be made to save a minimum 12 inches of the adjacent existing welded wire fabric to provide lap distance with new welded wire fabric on each side. In the event that the welded wire fabric cannot be saved, or where none exist, # 4 deformed tie bars shall be drilled and epoxy grouted 24inches on center into the existing pavement to allow for a proper tie-in.

a) Existing curbing, gutter and excess excavation shall be disposed of beyond the right-of-way in accordance with Section 202.
b) Excavation and compaction of the subgrade shall be in accordance with the plans or as directed. The subgrade shall be compacted uniformly.
c) All concrete curbing and gutter within the designated area is to be removed and the subgrade area prepared to receive an (8 inch compacted base course. Compacted

granular material as required shall be used to bring subgrade to the required elevation. It shall also be used to replace unsuitable subgrade or to fill voids as directed.

d) Just prior to placing the new concrete, the vertical faces of the old concrete pavement are to be coated with an approved concrete epoxy.
e) The type of concrete curb and gutter-bottom to be provided shall be as indicated on the plans.
f) Where it is required to construct concrete curb and gutter-bottom, the curb and gutter-bottom shall be poured monolithically.
g) Concrete joints shall conform to Section 707.05, except that longitudinal steel re-bar shall be discontinued at all contraction and expansion joints. Undowelled contraction joints shall be replaced across the entire width of the concrete curb and gutter-bottom, at 20 foot intervals maximum. Dowelled expansion joints shall be placed at intersections, not to exceed (300 foot intervals, or as indicated on the plans.
h) Finishing shall comply with Section 707.07. After finishing, concrete curb or gutter shall be cured in accordance with Section 601.10.
i) The new concrete curb and gutter-bottom shall consist of 4,000 psi, High early strength concrete reinforced with 6 X 6 –W 2.9 X W 2.9 welded wire fabric. The new mesh shall be tied to the existing mesh or tie bars where possible. The contractor may substitute deformed straight bars with the equivalent area of steel for transverse steel re-bar and place longitudinal steel re-bar as shown in the City of New Orleans Standard Plan STD2. Longitudinal steel re-bar shall be discontinued at all contraction and expansion joints. The mix design approval for high early strength concrete shall be contingent on trial batches, made, sampled, and delivered to DOTD by the contractor, and with minimum strengths in 48 hours of 3200 psi, as determined by the DOTD District Laboratory Engineer.
j) After the curb has set, the excavated area behind the curb shall be brought to the top of the back of curb and shall be replaced in-kind using topsoil, fertilizer and seeding at no direct pay.
k) Form and pour new concrete curb and gutter-bottom to provide positive slope (fall to catch basin).
l) New curb height shall match existing adjacent curb or as directed by the project engineer. There shall not be an abrupt elevation change between new and old work.

MEASUREMENT: Reconstructed Curb and Gutter-bottom will be measured by the linear foot (lin m) of installed curbing and gutter-bottom, which includes all labor, materials, equipment, tools and incidentals necessary to complete the work. It also includes full depth saw cutting, removal of existing curb and gutter-bottom, excavation, base preparation, granular material, base course, portland cement concrete, installation of new welded wire fabric, dowel bars, tie bars, forming, epoxy, pouring and finishing new concrete curb and gutter-bottom.

PAYMENT: Payment for Reconstructed Curb and Gutterbottom will be made at the contract unit price per linear foot (lin M).

Payment will be made under:

Item No.	Pay Item	Pay Unit

NS-SRP-00030	Reconstruction of Concrete Curb and Gutterbottom (Barrier Curb)	Linear Foot (Ln m)
NS-SRP-00031	Reconstruction of Concrete Curb and Gutterbottom (Mountable Curb)	Linear Foot (Ln m)

NS CATCH BASINS AND MANHOLES (REHABILITATE EXISTING)(04/09):

DESCRIPTION. This work consists of reshagging the inside, stopping leaks and resealing of existing catch basins and manholes where required. Materials and work shall comply with New Orleans Sewerage & Water Board standard practices and procedures Rehabilitation work may also include all or a portion of the following:

1. Leak-proofing of deteriorated, leaking, or structurally unsound structures by lining with lightweight structurally reinforced concrete systems..
2. Repair and sealing of the structure base, benches, channel, walls, corbel/cone, and chimney of brick, block, or precast structures, including the removal of any unsound material. Unsound material shall be disposed of beyond the right-of-way in accordance with Section 202.
3. Injection of chemical grout.
4. Cleaning and preparatory patching of structures receiving cementitious liners. Replacement of defective or broken structure frames and covers or grates with new structure frames and covers or grates shall be paid for separately under the appropriate pay item. Resetting of loose, unstable, offset, or shifted existing structure frames and covers or grates.
5. Adjustment of existing structure frames and covers or grates to grade shall be paid for separately under the appropriate pay item. Installation of stainless steel inflow inserts within manhole frames.
6. Installation of manhole isolation pads, Plan 8264-S.
7. Rehabilitation for facilities not owned by the Sewerage & Water Board and the Department of Public Works shall be in accordance with the owner's requirements. The contractor shall contact and verify with the facility owner the acceptable material used for catch basin or manhole rehabilitation prior to the beginning of construction activities.

MATERIALS. Vacant

CONSTRUCTION REQUIREMENTS. Portland Cement Concrete shall be 4,000 psi (28 MPa) concrete or as directed by the Project Engineer. All pavement, curb and gutter shall be replaced in-kind at the proper grade and elevation.

MEASUREMENT. Rehabilitate Existing Catch Basins and Manholes will be measured per each, which will include all materials, equipment, tools and labor incidental thereto All excavation, saw cutting of pavement, curb and/or gutter (if required), removal and replacement of pavement, curb and/or gutter (if required), base and granular material, fabric, backfilling and shoring of excavation will be considered incidental to the work.

PAYMENT. Catch Basins and Manholes (Rehabilitate Existing) will be paid for at the contract unit price per each.,. The price shall include the risk of breakage and replacement of any casting and the cost of bricking up the front grating where necessary.

Payment will be made under:

Item No.	Pay Item	Pay Unit
NS-SRP-00032	Catch Basins (Rehabilitate Existing)	Each
NS-SRP-00033	Manholes (Rehabilitate Existing)	Each

NS MANHOLE FRAME AND COVER (DRAIN) (REPLACEMENT) (04/09):
DESCRIPTION. This work shall consists of removing, furnishing and the setting of replacement manhole tops, frames and covers in accordance with these plan details and these specifications as needed to match the final pavement surface elevations.

MATERIALS. Materials shall comply with the following Sections and Subsections:
Frames, Grates and Covers for Manholes, Catch Basins, and Junction Boxes ---1018.04

CONSTRUCTION REQUIREMENTS. This work shall be done in accordance with the General Specifications and Standard Plans of the Sewerage & Water Board of New Orleans and the New Orleans Department of Public Works, latest editions.

The work shall consist of full depth saw cutting necessary to remove the existing drain manhole frame and cover. The removal and replacement of adjacent pavement curb and/or gutter will be considered incidental to this item.

Existing tops, frames, covers, existing surfacing and excess excavation shall be disposed of beyond the right-of-way in accordance with Section 202.

The newly furnished frame and cover be placed to meet the final pavement surface elevation

All pavement, curb and gutter shall be replaced in-kind at the proper grade and elevation. Portland Cement Concrete shall be 4,000 psi concrete or as directed by the Project Engineer.

MEASUREMENT. Manhole Frame and Cover (Drain) (Replacement) will be measured per each , which includes all materials, equipment, tools and labor incidental thereto. All excavation, saw cutting of pavement, curb and/or gutter (if required), removal and replacement of pavement, curb and/or gutter (if required), base and granular material, fabric, backfilling and shoring of excavation shall be considered incidental to the work

PAYMENT. Manhole Frame and Cover (Drain) (Replacement) will be paid for at the contract unit per each, complete in place.l.

Payment will be made under:

Item No.	Pay Item	Pay Unit
NS-SRP-00037	Manhole Frame and Cover (Drain) (Replacement)	Each

NS CATCH BASIN FRAME AND COVER (REPLACEMENT) (04/09):
DESCRIPTION. This work shall consist of removing, furnishing and the setting of replacement catch basin tops, frames and covers in accordance with these plan details and these specifications as needed to match the final pavement surface elevations.

MATERIALS. Materials shall comply with Subsection 1018.04

CONSTRUCTION REQUIREMENTS: This work shall be done in accordance with the General Specifications and Standard Plans of the Sewerage & Water Board of New Orleans and the New Orleans Department of Public Works, latest editions.

The work shall consist of full depth saw cutting necessary to remove the existing catch basin frame and cover. The removal and replacement of adjacent pavement, curb and/or gutter will be considered incidental to this item.

Existing tops, frames, covers, existing surfacing and excess excavation shall be disposed of beyond the right-of-way in accordance with Section 202.

The newly furnished frame and cover shall be placed to meet the final pavement surface elevation. All pavement, curb and gutter shall be replaced in-kind at the proper grade and elevation. Portland Cement Concrete shall be 4,000 psi (28 MPa) concrete or as directed by the Project Engineer.

After the catch basin has been set, the excavated area behind the curb shall be brought to the top of the back of the catch basin and shall be replaced in-kind using topsoil, fertilizer and seeding at no direct pay.

MEASUREMENT. Catch Basin Frame and Cover (Replacement) will be measured per each, which include all labor, materials, equipment, tools and incidentals necessary to complete the work.. All excavation, saw cutting of pavement, curb and/or gutter (if required), removal and replacement of pavement, curb and/or gutter (if required), base and granular material, fabric, backfilling and shoring of excavation shall be considered incidental to the work.

PAYMENT. Catch Basin Frame and Cover (Replacement) will be paid for at the contract unit price per each, complete in place.

Payment will be made under:

Item No.	Pay Item	Pay Unit
NS-SRP-00038	Catch Basin Frame and Cover (Replacement)	Each

NS SANITARY SEWER MANHOLE FRAME AND COVER (REPLACEMENT)(04/09):
DESCRIPTION: This work shall consist of removing, furnishing and the setting of replacement tops, frames and covers of sanitary sewer manholes in accordance with plan details and these specifications as needed to match the final pavement surface elevations.

MATERIALS. Materials shall comply with the following Sections and Subsections:

Frames, Grates and Covers for Manholes, Catch Basins, and Junction Boxes shall comply with Section 1018.04

CONSTRUCTION REQUIREMENTS. This work shall be done in accordance with the General Specifications and Standard Plans of the Sewerage & Water Board of New, latest edition.

The work shall consist of full depth saw cutting necessary to remove the existing sanitary sewer manhole frame and cover. The removal and replacement of adjacent pavement, curb and/or gutter will be considered incidental to this item.

Existing tops, frames, covers, existing surfacing and excess excavation shall be disposed of beyond the right-of-way in accordance with Section 202.

The newly furnished frame and cover be placed to meet the final pavement surface elevation

All pavement, curb and gutter shall be replaced in-kind at the proper grade and elevation. Portland Cement Concrete shall be 4,000 psi concrete or as directed by the Project Engineer.

MEASUREMENT. Replacement of Sanitary Sewer Manhole Frame and Cover will be measured per each, which includes all materials, equipment, tools and labor incidental thereto. All excavation, saw cutting of pavement, curb and/or gutter (if required), removal and replacement of pavement, curb and/or gutter (if required), base and granular material, fabric, backfilling and shoring of excavation will be considered incidental to the work.
PAYMENT. Replacement of sanitary sewer manhole frame and covers will be paid for at the contract unit per each, complete in place.l

Payment will be made under:

Item No.	Pay Item	Pay Unit
NS-SRP-00040	Sanitary Sewer Manhole Frame and Cover (Replacement)	Each

NS TREE PROTECTION, TREE TRIMMING, ROOT PRUNING & GRAVEL BED AND FILTER CLOTH OVER TREE ROOTS (04/09) (NS):
DESCRIPTION: These items consist of protection of trees as necessary for construction in accordance with the plans and these specifications.

MATERIALS: Material shall comply with the following Sections:
Gravel, Subsection 1003.03(b)
Filter Cloth (Geotextile Fabric), Subsection 1019.01, Class B, C, or D
Topsoil, Subsection 715.02(a)

GENERAL REQUIREMENTS:

a) The contactor shall inspect the project and determine which trees must be trimmed for construction operations.
b) The contractor shall be responsible for damage to any City tree within the construction area and liable to the City for compensation of damage.
c) The contractor shall notify the Parkway & Park Commission, Tree Department at least 3 working days prior to the beginning of construction.
d) The contractor shall provide a Louisiana Licensed Arborist to perform the necessary tree trimming, root pruning, or removal of any tree or stump on City property. A current list of licensed arborist may be obtained from:

Parkway & Park Commission
Tree Department
2829 Gentilly Blvd.
New Orleans, LA 70122
Ph. (504) 286-2123 or 286-2100
Fax. (504) 286-2158

e) The Licensed Arborist must obtain a permit from the Parkway & Park Commission, Tree Department prior to working on any City trees.

f) Prior to beginning construction, the contractor shall complete trimming trees requiring clearance for all new construction.

g) The attachment of signs, barricades, equipment or materials in any manner to any tree is prohibited.

h) Excavation within the dripline of any City tree is permitted only under existing roadbeds. All other excavation (i.e. street widening, neutral grounds, or sidewalks) within the dripline of any City trees will be inspected by the Parkway & Park Commission, Tree Department prior to beginning construction.

i) Trenching within the dripline of any City tree is not permitted. Boring or hydraulic jacking is acceptable within the dripline if performed according to the following specifications. The boring or jacking must be at minimum depth of 30 inches and begin 10 feet from the dripline of the tree and bore directly under the center of the tree's main stem. Placement of boring pits and direction of the boring must be approved by the Director prior to beginning construction. Under unusual conditions, the Director may approve alternative methods. Boring or jacking shall be in compliance with Section C728 "Jacked and Bored Pipe."

j) Where tree roots interfere with placement of new curbs, delete the typical 1 foot excavation for placement of new curbs within the driplines of any City-owned tree. Hand formed and poured-in-place concrete curbs within the dripline of City trees may be required and will be paid for separately. Curbs shall comply with Section 707.

k) Where tree roots interfere with placement of sidewalk, wherever possible a ramp shall be constructed over the roots in accordance with Standard Plan STD 12.

This work shall consist of placing a layer of gravel over the roots 4inch - 6inch thick and filter cloth for the width of the sidewalk from tree dripline to tree dripline (the entire diameter reach of the tree canopy). The grade adjustment to the gravel and the capping of the sides of the gravel will be with an approved fill material. A filter cloth shall be placed completely wrapping the gravel, top and all sides. The concrete walk shall be reinforced with wire fabric reinforcing steel for the full length of the ramp from tree dripline to tree dripline (the entire diameter reach of the tree canopy).

The ramp length shall be such that a grade of 8 percent is not exceeded and that a constant depth of sidewalk is maintained over the root. Weakened transverse planes shall be constructed at each end of this ramp section. No expansion joint is allowed in this ramp section.

If ramping is not an option, an on site inspection by the Department of Streets, Parks & Parkway Commission, the contractor and the contractor's licensed arborist will be required prior to excavating for the sidewalk to determine the root pruning necessary for construction clearance.

l) No more than 2 inches of cut or fill is permitted within the dripline of any City-owned tree except under existing roadbeds.

m) Storage will not be permitted within the driplines of any tree. The use of neutral grounds and other City property for the storage of materials, supplies, equipment, or vehicles is permitted only with specific written authorization from the Parkway & Park Commission superintendent and the Director.

n) The erection of barricades around the perimeter of tree driplines may be required. The contractor is responsible for maintaining the temporary barricades until completion of the

project. The tree protection fencing and posts shall be removed upon substantial completion and become the property of the contractor. The minimum barricade requirements shall be the following: Green painted steel post, with at least 4 feet above ground, 3 feet in ground, set no more than 6 feet on center with orange plastic safety fencing attached from top to bottom, running post to post completely encircling the tree.

o) Tree trimming is defined as the cutting of tree branches. The Parkway and Park Commission Urban Forester will consult the contractor and the licensed arborist to determine the extent of trimming allowable. Tree trimming will only be performed on tree branches conflicting with construction. No trimming will be allowed that will alter the natural form of a tree.

p) Root pruning is defined as the cutting or grinding of roots. The Parkway and Park Commission Urban Forester will consult with the contractor and the licensed arborist to determine the extent of root pruning allowable.

q) Root trenching is defined as cutting of roots using a trenching machine. The Parkway and Park Commission Urban Forester will consult with the contractor and the licensed arborist to determine the extent of root trenching allowable.

r) .

MEASUREMENT:

a) Tree Protection will be measured per the lump sum.
b) Tree Trimming will be measured per the lump sum.
c) Root Pruning and root trenching will be measured per each tree, except that root pruning and root trenching of trees with less than 4 inch caliper measured 6 inches above the ground will not be measured for payment.
d) Hand formed and poured in-place concrete curb within the Limits of the tree dripline will be measured per linear foot (lin m).
e) Gravel bed and filter cloth over tree roots will be measured per square yard (sq m).

PAYMENT: Payment for tree protection, tree trimming, root pruning and trenching and hand formed poured in –place concrete curb within the limits of tree dripline will be made at the contract unit price, whichincludes all labor, equipment, materials and other incidentals to complete the work. Tree protection will include all the work specified above not specifically provided in one of the other items listed below. Payment for gravel bed and filter cloth over tree roots will include furnishing the gravel, fill, filter cloth, and welded wire fabric in concrete. The concrete walk will be paid for under the sidewalk item for which this work is applicable.

Payment will be made under:

Item No.	Pay Item	Pay Unit
NS-SRP-00044	Tree Protection	Lump Sum
NS-SRP-00045	Tree Trimming	Lump Sum
NS-SRP-00046	Root Pruning and Trenching	Lump Sum
NS-SRP-00048	Gravel Bed and Filter Cloth Over Tree Roots	Square Yard (Sq m)

NS-SRP CRACK FILLER (SAND ASPHALT) (05/09)

DESCRIPTION. This work consists of cleaning open cracks in the existing portland cement concrete pavement and filling with a sand- asphalt mixture in locations as directed by the project engineer. The cracks are generally transverse, which have opened or separated through time, but may include isolated random joints due to failures. The work shall be in accordance with the 2006 Louisiana Standard Specifications for Roads and Bridges, these specifications, plans, and as directed.

MATERIALS. This work shall be done in accordance with the following sections or subsections:

Asphalt Tack Coat shall comply with Section 504.

Sand Asphalt shall conform to DOTD MS 164-002, Type 6M (Sand). Other mixes that will accomplish the same purpose (durability, constructability and structurally) may be approved by the engineer.

CONSTRUCTION REQUIREMENTS. Generally, only cracks greater than or equal to 1 inch (25 mm) width will be filled, except that where needed for uniform limits of a run of filling, isolated narrower width joints may require filling. The contractor shall make reasonable efforts to remove foreign materials from the cracks by plowing with an appropriate device, either mechanically or by hand methods, and finishing by brushing and/or air methods, all to a depth of 2 inch (50 mm) minimum. The contact surfaces of the cleaned cracks shall be coated with a uniform coat of asphalt tack coat. The prepared joint shall be uniformly filled with the sand asphalt to a height sufficiently above the pavement so that rolling will sufficiently compact the material, and the resulting top of the filler will be near the top of pavement. Rolling shall be accomplished by using conventional rollers.

MEASUREMENT. Crack Filler (Sand Asphalt) will be measured by the linear foot (lin m) of completed crack filling, which includes all materials, labor, equipment, tools and other incidentals necessary to complete the work.

PAYMENT. Payment for Crack Filler (Sand Asphalt) will be made at the contract unit price per linear foot (lin m).
Payment will be made under:

Item No.	Pay Item	Pay Unit
NS-SRP-00053	Crack Filler (Sand Asphalt)	Linear Foot (Lin m)

CONTRACT TIME: The entire contract shall be completed in all details and ready for final acceptance in accordance with Subsection 105.17(b) within the time specified by the contractor.

Prior to assessment of contract time, the contractor will be allowed 15 calendar days from the date stipulated in the Notice to Proceed to commence with portions of the contract work including but not limited to assembly periods, preparatory work for materials fabrications such as test piles, or other activities which hinder progress in the beginning stages of construction. Prior to issuance of the Notice to Proceed, the Department will consider extending the assembly period, upon written request from the contractor justifying the need for additional time.

The contractor shall be responsible for maintenance of traffic from the beginning of the assembly period. During the assembly period, the contractor will be allowed to do patching and

other maintenance work necessary to maintain the roadway with no time charges when approved by the engineer.

If the contractor begins regular construction operations prior to expiration of the assembly period, the assessment of contract time will commence at the time construction operations are begun.

The contractor is directed to the special provisions and the plans for any restrictions that may affect work schedules.

Work schedules restrictions:

Work shall automatically be suspended on Saturdays, Sundays, all legal holidays, and after five-thirty (5:30) P.M. until seven (7:00) A.M. of the following day, unless permitted in writing by the Director, New Orleans Department of Public Works. Said permission will not be unreasonably withheld.

(05/09)

LOUISIANA
DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT
SUPPLEMENTAL SPECIFICATIONS

(FOR 2006 STANDARD SPECIFICATIONS)

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LOUISIANA
DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT
SUPPLEMENTAL SPECIFICATIONS

The 2006 Louisiana Standard Specifications for Roads and Bridges and supplemental specifications thereto are amended as follows.

PART I – GENERAL PROVISIONS

SECTION 101 – GENERAL INFORMATION, DEFINITIONS, AND TERMS:
Subsection 101.03 – Definitions (07/07), Pages 3 – 13.

Delete the definition for "Proposal/Bid Guaranty" and substitute the following.

Proposal / Bid Guaranty. The required security furnished with a bid. The only form of security acceptable is a Bid Bond.

SECTION 102 – BIDDING REQUIREMENTS:
Subsection 102.09 – Proposal / Bid Guaranty (07/07), Page 19.

Delete the contents of this subsection and substitute the following.

PROPOSAL/BID GUARANTY. Each bid shall be accompanied by a proposal/bid guaranty in an amount not less than five percent of the total bid amount when the bidder's total bid amount as calculated by the Department in accordance with Subsection 103.01 is greater than $50,000. No proposal/bid guaranty is required for projects when the bidder's total bid amount as calculated by the Department is $50,000 or less. The official total bid amount for projects that include alternates is the total of the bidder's base bid and all alternates bid on and accepted by the Department. The proposal/bid guaranty submitted by the bidder shall be a bid bond made payable to the contracting agency as specified on the bid bond form provided in the construction proposal. No other form of security will be accepted.

The bid bond shall be on the "Bid Bond" form provided in the construction proposal, on a form that is materially the same in all respects to the "Bid Bond" form provided, or on an electronic form that has received Department approval prior to submission. The bid bond shall be filled in completely, shall be signed by an authorized officer, owner or partner of the bidding entity, or each entity representing a joint venture; shall be signed by the surety's agent or attorney-in-fact; and shall be accompanied by a notarized document granting general power of attorney to the surety's signer. The bid bond shall not contain any provisions that limit the face amount of the bond.

The bid bond will be written by a surety or insurance company that is in good standing and currently licensed to write surety bonds in the State of Louisiana by the Louisiana Department of Insurance and also conform to the requirements of LSA-R.S. 48:253.

All signatures required on the bid bond may be original, mechanical reproductions, facsimiles or electronic. Electronic bonds issued in conjunction with electronic bids must have written Departmental approval prior to use. The Department will make a listing of approved electronic sureties providers on the Bidx.com site.

SECTION 107 – LEGAL RELATIONS AND RESPONSIBILITY TO PUBLIC:
Subsection 107.05 – Federal Aid Participation (04/08), Pages 57 and 58.

Delete the second paragraph.

SECTION 108 – PROSECUTION AND PROGRESS:
Subsection 108.04 – Prosecution of Work (03/05) Pages 74 and 75.

Add the following sentence to the third paragraph of Heading (b).

Should the surety or the Department take over prosecution of the work, the contractor shall remain disqualified for a period of one year from the completion of the project, unless debarment proceedings are instituted.

When the Department of Transportation and Development is not the contracting agency on the project, the second paragraph under Heading (c) is deleted.

PART II – EARTHWORK

SECTION 202 – REMOVING OR RELOCATING STRUCTURES AND OBSTRUCTIONS:
Subsection 202.06 – Plugging or Relocating Existing Water Wells (03/04), Page 105.

Delete the first sentence and substitute the following.

All abandoned wells shall be plugged and sealed at the locations shown on the plans, or as directed by the engineer, in accordance with the "Water Well Rules, Regulations, and Standards, State of Louisiana." This document is available at the Department of Transportation and Development, Water Resources Section, P. O. Box 94245, Baton Rouge, Louisiana 70804-9245. The Water Resource Section's telephone number is (225) 274-4172.

PART III – BASE COURSES

SECTION 302 – CLASS II BASE COURSE:
Subsection 302.01 – Description (12/08), Page 150.

Add the following to the third paragraph:

(6) Blended Calcium Sulfate

Subsection 302.02 – Materials (12/08), Pages 150 and 151.

Add the following to the first paragraph:

_____Blended Calcium Sulfate 1003.01 & 1003.03 (e)

Subsection 302.04 – General Construction Requirements (12/08), Page 152.

Add the following:

Blended calcium sulfate will be allowed in areas of new alignment, fill areas, and cut areas less than one foot.

In cut areas greater than one foot (300 mm), an additional one foot (300 mm) of undercut will be required prior to placement of BCS. The additional undercut area shall be replaced with non-plastic sand embankment and encapsulated with a Class D geotextile fabric. The additional

non-plastic material, geotextile fabric, and undercut shall be at no additional cost to the Department.

Blended calcium sulfate will not be allowed in areas needed to facilitate traffic control or when a soil cement base course is specified in the plans. Blended calcium sulfate shall not be placed within 10 feet (3.0 m) of metal drainage structures. The contractor will be allowed to substitute any untreated Class II base course material listed in Subsection 302.01. Flowable fill under Section 710, or other approved backfill material in Section 701 shall be used to backfill the drainage structure.

Subsection 302.05 – Mixing (08/06) (12/08), Pages 152 and 153.

Delete the first sentence of Subheading (b)(1), In-Place Mixing, and substitute the following.

In-place mixing shall conform to Heading (a)(1) except that the percentage of Type I portland cement required will be 6 percent by volume.

Add Heading (d) as follows:

(d) Blended Calcium Sulfate: Calcium sulfate shall be blended with an approved aggregate or lime prior to placement. The blended calcium sulfate material shall be uniformly mixed and sampled from dedicated stockpiles. Gradation sampling in accordance with Subsection 1003.03 shall be taken from the dedicated stockpiles at the point of material origin.

Subsection 302.06 – Transporting and Placing on Subgrade (12/08), Page154.

Add the following:

Water shall be added or other suitable means taken to prevent dust during the transporting and placing of dry blended calcium sulfate.

Subsection 302.07 - Compacting and Finishing (12/08), Pages 154 and 155.

Add Heading (e) as follows:

(e) Blended Calcium Sulfate: Blended calcium sulfate shall be placed and spread on the subgrade and compacted to produce layers not exceeding 12 inches (300 mm) compacted thickness. During placement the material shall be thoroughly wetted by application of water to maintain 2 to 4 percent above optimum moisture. After application of water, allow the moisture to reach equilibrium in the base before applying rolling techniques. Rolling of BCS is required to the edge of the embankment or subgrade. Each layer shall be compacted to at least 95 percent of maximum dry density or compacted by an approved established rolling pattern determined by the project engineer before the next layer is placed. Optimum moisture and maximum density shall be determined in accordance with DOTD TR 418 Method G modified to include a maximum drying temperature of 140°F (60°C).

Add Heading (f) as follows:

(f) Proof Rolling: Proof rolling shall be done by a load of 25 tons (25 Mg) in a 12 to 14 cubic yard (9 to 10.5 cubic meters) tandem dump truck with ten wheels or approved loaded truck

determined by the project engineer. Proof rolling shall be a minimum of 5 passes in each direction at the same locations and at a maximum vehicle speed of 3 mph (4.8 km/h).

All BCS base will be tested by proof rolling prior to placement of surfacing material, including asphalt binder. Any irregularities or soft spots shall be corrected prior to placement of the surfacing material. Any rain event on the project site between the proof rolling and placement of the surfacing will require an additional proof rolling as noted above.

Subsection 302.09 – Protection and Curing (12/08), Page 155.

Add Heading (c) as follows:

(c) Blended Calcium Sulfate: Protection and curing of blended calcium sulfate shall be in accordance with Subsection 302.09(b).

Subsection 302.12 – Acceptance Requirements (12/08), Pages 156 – 161.

Add the following to Heading (a):

The acceptance requirements for blended calcium sulfate base course shall be the same as stone base course with the following modifications. Upon completion of compaction operations, the density will be determined in accordance with DOTD TR 401 except that all moisture content determinations for density calculations shall be conducted by oven drying the material for 24 hours at 140°F (60°C). A forced draft type oven capable of maintaining the temperature shall be provided by the contractor for field moisture content determination for density control.

SECTION 305 – SUBGRADE LAYER:

Subsection 305.06 – Payment (01/08), Page 184.

Delete the contents of this subsection and substitute the following.

305.06 Payment. Payment for subgrade layer will be made at the contract unit price which includes lime, lime treatment, cement, cement treatment, water, stone, recycled portland cement concrete, crushed slag, blended calcium sulfate, asphaltic concrete, and asphalt curing membrane or prime coat, subject to the payment adjustment provisions of Section 1002 for specification deviations of asphalt materials and Subsection 303.11(a) for density deficiencies of cement treated materials. Adjustments in pay for increase or decrease in the percent cement ordered by the engineer will be in accordance with Subsection 303.13. Adjustments in pay for increase or decrease in the percent lime ordered by the engineer will be based on the price of lime shown on paid invoices (total of all charges). The Materials and Testing Section will provide the payment adjustment percentage for properties of asphalt materials.

Payment for geotextile fabric will be included in the contract unit price for subgrade layer.

Payment will be made under:

Item No.	Pay Item	Pay Unit
305-01	Subgrade Layer _____ in (mm) Thick	Square Yard (Sq m)

SECTION 307 – PERMEABLE BASES:
Subsection 307.02 – Materials (09/07), Pages 187 and 188.

Delete the contents of Subheading (b), Asphalt, and substitute the following.

(b) Asphalt: The asphalt for asphalt treated permeable base shall be an approved polymer modified asphalt cement, PG 76-22m, or PG 82-22rm complying with Section 1002. The percentage of asphalt cement shall be 2.0 percent to 4.0 percent by weight (mass) of the total mixture. Asphalt cement content and mixing process shall be such that all aggregates are visibly coated. The mixture shall retain 90 percent coating when tested in accordance with DOTD TR 317.

A job mix formula shall be submitted and approved in accordance with Section 502.

SECTION 308 – IN-PLACE CEMENT TREATED BASE COURSE:
All Subsections within Section 308 – (07/07), Pages 191 – 198.

Whenever the reference to "DOTD TR-432, Method D" is used, it shall mean "DOTD TR-432".

PART V – ASPHALTIC PAVEMENTS

SECTION 502 – SUPERPAVE ASPHALTIC CONCRETE MIXTURES:
Subsection 502.02 – Materials (08/06) (11/07), Pages 210 – 213.

Delete Table 502-2, Superpave Asphalt Cement Usage under Subheading (a) and substitute the following.

Table 502-2
Superpave Asphalt Cement Usage

Current Traffic Load Level	Mixture Type	Grade of Asphalt Cement
Level 1	Wearing Course	PG 70-22m
	Binder Course	PG 70-22m
	Base Course	PG 64-22
Level 2	Wearing Course	PG 76-22m
	Binder Course	PG 76-22m
Level A	Incidental Paving	PG 70-22m

Note: A PG 82-22 rm, Waste Tire Rubber Modified Asphalt, may be substituted for any other grade of asphalt cement.

Delete Table 502-3, Aggregate Friction Rating under Subheading (c)(1) and substitute the following.

Table 502-3
Aggregate Friction Rating

Friction Rating	Allowable Usage
I	All mixtures
II	All mixtures
III	All mixtures, except travel lane wearing courses with plan ADT greater than 7000[1]
IV	All mixtures, except travel lane wearing courses[2]

[1] When plan current average daily traffic (ADT) is greater than 7000, blending of Friction Rating III aggregates and Friction Rating I and/or II aggregates will be allowed for travel lane wearing courses at the following percentages. At least 30 percent by weight (mass) of the total aggregates shall have a Friction Rating of I, or at least 50 percent by weight (mass) of the total aggregate shall have a Friction Rating of II. The frictional aggregates used to obtain the required percentages shall not have more than 10 percent passing the No. 8 (2.36 mm) sieve.

[2] When the average daily traffic (ADT) is less than 2500, blending of Friction Rating IV aggregates with Friction Rating I and/or II aggregates will be allowed for travel lane wearing courses at the following percentages. At least 50 percent by weight (mass) of the total aggregate in the mixture shall have a Friction Rating of I or II. The frictional aggregates used to obtain the required percentages shall not have more than 10 percent passing the No. 8 (2.36 mm) sieve.

Subsection 502.14 – Lot Sizes (11/07), Pages 232 and 233.

Delete the first sentence of the first paragraph and substitute the following.

A lot is a segment of continuous production of asphaltic concrete mixture from the same job mix formula produced for the Department at a specific plant, delivered to a specific DOTD project.

SECTION 508 – STONE MATRIX ASPHALT:

Subsection 508.01 – Description (09/07), Page 274.

Delete this subsection and substitute the following.

508.01 DESCRIPTION. This work consists of furnishing and constructing Stone Matrix Asphalt (SMA) which is a plant mixed asphalt concrete wearing course for high traffic applications. This mixture is a rut resistant hot mix design with stone on stone contact. The mixture shall be composed of a PG 76-22m, or PG 82-22rm asphalt cement and a gap graded coarse aggregate structure. Mineral filler and/or fibers shall be used to control draindown. This work shall be in accordance with these specifications, plan details, and as directed. All requirements of Section 502 apply to Stone Matrix Asphalt, except as modified herein. All plant and paving equipment and processes must meet the requirements of Section 503.

Mixture used for shoulder may be Stone Matrix Asphalt or any mixture type shown in Table 502-5.

Subsection 508.02 – Materials (09/07), Page 274.

Delete the contents of subheading (a), Asphalt Cement and substitute the following.

(a) Asphalt Cement: Asphalt cement shall be PG 76-22m, or PG 82-22rm as listed on QPL 41 and complying with Section 1002.

PART VI – RIGID PAVEMENT

SECTION 602 – PORTLAND CEMENT CONCRETE PAVEMENT REHABILITATION:

Subsection 602.17 – Payment (09/07), Pages 341 – 344.

Delete the last paragraph of Subheadings (d), Full Depth Corner Patching of Jointed Concrete Pavement, (e) Full Depth Patching of Jointed Concrete Pavement, and (g) Patching Continuously Reinforced Concrete Pavement, and substitute the following.

Payment for deteriorated base course removed as directed by the engineer and replaced with concrete will be made as follows: The value per inch (mm) thickness will be determined by dividing the contract unit price per square yard (sq m) by the plan thickness. Thickness of patches will be measured from the surface that exists at the time of patching. Payment for the additional thickness will be made at 50 percent of the value per inch (mm) thus determined.

PART VII – INCIDENTAL CONSTRUCTION

SECTION 701 – CULVERTS AND STORM DRAINS:

All Subsections within Section 701 (08/07), Pages 347 – 358.

Delete Section 701, Culverts and Storm Drains and substitute the following.

SECTION 701
CULVERTS AND STORM DRAINS

701.01 DESCRIPTION. This work consists of furnishing, installing, and cleaning pipe, pipe arch, storm drains and sewers, also referred to as culverts or conduit, in accordance with these specifications and in conformity with lines and grades shown on the plans or established.

701.02 MATERIALS. Materials shall comply with the following sections and subsections:

Usable Soil	203.06(a)
Selected Soil	203.06(b)
Plastic Soil Blanket	203.10
Mortar	702.02
Flowable Fill	710
Portland Cement Concrete	901
Reclaimed Asphaltic Pavement (RAP)	1003.01 & 1003.04(d)
Stone	1003.03(b)
Recycled Portland Cement Concrete	1003.03(c)
Granular Material	1003.07
Bedding Material	1003.08
Concrete Sewer Pipe	1006.02
Reinforced Concrete Pipe	1006.03
Reinforced Concrete Pipe Arch	1006.04
Gasket Materials	1006.06
Plastic Pipe	1006.07
Split Plastic Coupling Bands	1006.07(d)(4)
Plastic Yard Drain Pipe	1006.09
Bituminous Coated Corrugated Steel Pipe and Pipe Arch	1007.02
Structural Plate for Pipe, Pipe Arch and Arch	1007.04
Corrugated Aluminum Pipe and Pipe Arch	1007.05
Coupling Bands	1007.09
Reinforcing Steel	1009
Geotextile Fabric	1019

(a) Side Drain Pipe or Side Drain Pipe Arch: When the item for Side Drain Pipe or Side Drain Pipe Arch is included in the contract, the contractor has the option of furnishing reinforced concrete pipe or reinforced concrete pipe arch, corrugated metal pipe or corrugated metal pipe arch, or plastic pipe, as allowed by EDSM II.2.1.1 or unless otherwise specified.

(b) Cross Drain Pipe or Cross Drain Pipe Arch: When the item for Cross Drain Pipe or Cross Drain Pipe Arch is included in the contract, the contractor has the option of furnishing reinforced concrete pipe or reinforced concrete pipe arch, corrugated metal pipe or corrugated metal pipe arch, or plastic pipe, as allowed by EDSM II.2.1.1 or unless otherwise specified.

(c) Storm Drain Pipe or Storm Drain Pipe Arch: When the item for Storm Drain Pipe or Storm Drain Pipe Arch is included in the contract, the contractor has the option of furnishing reinforced concrete pipe or reinforced concrete pipe arch, or plastic pipe, as allowed by EDSM II.2.1.1 or unless otherwise specified.

(d) Yard Drain Pipe: When the item for Yard Drain Pipe is included in the contract, the contractor has the option of furnishing concrete sewer pipe, plastic yard drain pipe or plastic pipe in accordance with Section 1006 unless otherwise specified.

(e) Material Type Abbreviations:

(1) Reinforced Concrete Pipe:

RCP	Reinforced Concrete Pipe
RCPA	Reinforced Concrete Pipe Arch

(2) Corrugated Metal Pipe:

CAP	Corrugated Aluminum Pipe
CAPA	Corrugated Aluminum Pipe Arch
CMP	Corrugated Metal Pipe
CMPA	Corrugated Metal Pipe Arch
CSP	Corrugated Steel Pipe
CSPA	Corrugated Steel Pipe Arch
BCCSP	Bituminous Coated Corrugated Steel Pipe
BCCSPA	Bituminous Coated Corrugated Steel Pipe Arch

(3) Plastic Pipe:

PP	Plastic Pipe
PVCP	Polyvinyl Chloride Pipe
RPVCP	Ribbed Polyvinyl Chloride Pipe
CPEPDW	Corrugated Polyethylene Pipe Double Wall

(f) Joint Type Abbreviations:

T1	Type 1 Joint
T2	Type 2 Joint
T3	Type 3 Joint

(g) Quality Assurance for Pipe: Manufacturing plants will be periodically inspected for compliance with specified manufacturing methods, and material samples will be randomly obtained for laboratory testing for verification of manufacturing lots. Materials approved at the manufacturing plant will be subject to visual acceptance inspections at the jobsite or point of delivery.

701.03 EXCAVATION. For all pipe, when the sides of the trench are stable as evidenced by the sides of the trench being able to maintain a vertical cut face, the minimum trench width at the bottom of the excavation will be 18 inches (460mm) on either side of the outside diameter of the pipe. If the sides of the trench are unstable, the width of the trench at the bottom of the excavation, for plastic or metal pipe, shall be a minimum width of at least 18 inches (460mm) or one pipe diameter on each side of the outside diameter of the pipe, which ever is greater. Surplus material or excavated material that does not conform to the requirements of Subsection 203.06(a) shall be satisfactorily disposed of in accordance with Subsection 202.02. Moisture controls including backfill materials selection and dewatering using sumps, wells, well points or other approved processes may be necessary to control excess moisture during excavation, installation of bedding, over-excavated trench backfilling, pipe placement and pipe backfill.

(a) Over-excavation: When unsuitable soils as defined in Subsection 203.04 or a stable, non-yielding foundation cannot be obtained at the established pipe grade, or at the grade established for placement of the bedding, unstable or unsuitable soils below this grade shall be removed and replaced with granular material meeting the requirements of Subsection 1003.07,

bedding materials meeting the requirements of Subsection 1003.08 or Type A backfill. All granular, backfill materials placed below the established pipe or bedding grade shall be placed in lifts not exceeding 8 inches (200 mm) thick and sufficiently compacted by hand or a dynamic mechanical hand compaction device over the surface of each lift to form a stable, non-yielding foundation at the surface of the established bedding or pipe grade.

When rock is encountered, it shall be removed below grade and replaced with material complying with Subsection 1003.07, bedding materials meeting the requirements of Subsection 1003.08 or Type A backfill. The compacted earth cushion shall have a thickness under the pipe of at least 1/2 inch per foot (40 mm/m) of fill height over the top of the pipe with a minimum thickness of 8 inches (200 mm). All granular, backfill materials placed below the established pipe or bedding grade shall be placed in lifts not exceeding 8 inches (200 mm) thick and sufficiently compacted by hand or a dynamic mechanical hand operated compaction device over the surface of each lift to form a stable, non-yielding foundation at the surface of the established bedding or pipe grade.

Materials used to backfill in an over-excavated portion of a trench do not require encasement in a Geotextile Fabric.

Density of approved materials placed in over-excavated trenches will not be measured or determined.

701.04 FORMING PIPE BED. Bedding material, when specified, shall be constructed in accordance with Section 726. Materials allowed for bedding shall be as specified in Subsection 1003.08 or may be Type A backfill materials. When bedding materials are specified, additional excavation shall be performed below established pipe grade and the bedding material placed in lifts not exceeding 8 inches (200 mm) thick and lightly compacted by hand or a dynamic hand compaction device over the surface of each lift.

When the bottom of the pipe is not laid in a trench but is constructed above natural soils, a uniform bed shall be constructed as specified for the bottom of a trench.

Density of approved bedding materials will not be measured or determined.

701.05 LAYING PIPE. Pipe laying shall begin at the downstream end of the line. The pipe shall be in contact with the foundation throughout its length. Bell or groove ends of pipe and outside circumferential laps of riveted metal pipe shall be placed facing upstream. Riveted seam metal pipe shall be placed with longitudinal laps at sides. Pipes in each continuous line shall have the same wall thickness. Metal pipes provided with lifting lugs shall be handled only by these lugs.

After pipe has been laid and before backfill is placed, the engineer will inspect the pipe for alignment, grade, integrity of joints, and coating damage.

701.06 JOINING PIPE.

(a) Joint Usage:

(1) Type 1 (T1) joints shall be used for side drains under drives and similar installations.

(2) Type 2 (T2) joints shall be used for cross drains under roadways, including turnouts.

(3) Type 3 (T3) joints shall be used for closed storm drain systems, flumes and siphons.

(b) Concrete Pipe: Concrete pipe may be either bell and spigot, or tongue and groove. The method of joining pipe sections shall be such that ends are fully entered and inner surfaces are flush and even.

An approved mechanical pipe puller shall be used for joining pipes over 36 inches (900 mm) in diameter. For pipe 36 inches (900 mm) or less in diameter, any approved method for joining pipe may be used which does not damage the pipe.

Joints shall comply with Subsection 1006.05, and shall be sealed with gasket material installed in accordance with the manufacturer's recommendations.

(c) Metal Pipe: Metal pipe shall be firmly joined by coupling bands. Bands shall be centered over the joint.

For Type 1 joints, approved gasket material shall be placed in one corrugation recess on each side of the joint at the coupling band and on each band connection in such manner to prevent leakage.

When Type 2 or 3 joints are specified, joining of metal pipe sections shall conform to the following provisions:

(1) General: Band joints shall be sealed with gasket material. Gasket material shall be placed in accordance with the plan details.

(2) Circular Section: Connecting bands shall be of an approved design and shall be installed in accordance with plan details.

(3) Arch Section: Connecting bands shall be a minimum of 12 inches (300 mm) wide for pipe arch less than 36 inches (900 mm) round equivalent diameter, and a minimum of 21 inches (525 mm) wide for 36 inches (900 mm) round equivalent diameter pipe arch and greater. Bands shall be connected at the ends by approved angle or strap connections. Connecting bands used for 36 inches (900 mm) round equivalent diameter pipe arch and above shall be 2-piece bands.

(d) Plastic Pipe: Joints for plastic pipe shall be either bell and spigot or split coupling bands.

(1) Bell and Spigot Type Joint System: The method of joining pipe sections shall be such that ends are fully entered and inner surfaces are flush and even.

Any approved method for joining pipe may be used which does not damage the pipe.

Joints shall be approved and shall be sealed with a gasket system utilizing gasket material complying with Subsection 1006.06(a).

(2) Split Coupling Type Joint System: Split coupling bands shall comply with all dimensional and material requirements of Subsection 1006.07. The bands shall be centered over the joint. The split coupling band shall be secured to the pipe with a minimum of five stainless steel or other approved corrosion resistant bands.

Joints shall be approved and shall be sealed with gasket material. Gasket material shall be placed in the first two corrugation recesses on each side of the pipe connections. Gasket material shall also be placed on each band connection to prevent leakage. When flexible plastic gasket material is used it shall be a minimum of 1/2 inch (13 mm) in size. The bands shall be tightened to create overlap of the band and shall adequately compress the gasket material.

(e) Connections: Approved connections shall be used when joining new pipes to existing pipes. When concrete collars are required in order to extend the ends of existing pipes that have been damaged or to join different types or sizes of pipes, the concrete collars shall be constructed in accordance with plan details, the applicable requirements of Section 901, and as directed.

(f) Geotextile Fabric, Pipe Joints: For concrete, metal and plastic pipes, Types 2 and 3 joints shall be wrapped with geotextile fabric for a minimum of 12 inches (300 mm) on each side of joint for pipe 36 inches (900 mm) or less in diameter and a minimum of 18 inches (450 mm) on each side of the joint for pipe greater than 36 inches (900 mm) in diameter. Ends of the fabric shall be lapped at least 10 inches (250 mm). The edges and ends of fabric shall be suitably secured for the entire circumference of the pipe.

701.07 RELAYING PIPE. If specified or directed, existing pipes shall be removed and suitable sections relaid as specified for new pipes.

701.08 BACKFILLING.

(a) General: Prior to backfilling, pipes found to be damaged or out of alignment or grade shall be removed and reinstalled, or replaced.

Type A backfill material shall be stone, recycled portland cement concrete, flowable fill, or RAP.

Type B backfill materials are selected soils. Where Type B backfill materials are called for, Type A backfill materials may be substituted.

When corrugated metal pipe is used, the backfill material shall be tested and shall have a resistivity greater than 1500 ohm-cm and a pH greater than 5 when tested in accordance with DOTD TR 429 and DOTD TR 430 respectively.

When Type A backfill material is used, geotextile fabric surrounding this backfill shall be placed in accordance with Subsection 726.03 between the aggregate backfill material and all other natural or placed soils in the trench or embankment. Care shall be taken to prevent damage to geotextile fabric during placement of backfill material. For concrete pipe, the fabric shall enclose not only the initial backfill but shall be wrapped over the top of the pipe with at least 12 inches (300 mm) of overlap.

When a trench box or trench sheeting is used in unstable soils and/or for worker safety, and when moved during backfilling operations, filling and additional compaction of the disturbed zone of backfill must take place immediately and in a manner acceptable to the engineer.

Initial backfill is a structural backfill encasing the pipe from the bottom of the pipe to the springline for concrete pipe and to a point one foot (0.3 m) above the top of the pipe for both metal and plastic pipe. Final backfill is not a structural backfill and shall extend from the top of the initial backfill to the top of the natural ground or subgrade in cut areas or to the top of existing ground in fill areas. Any fill required above the final backfill is considered and treated as embankment.

(b) Backfill Applications: For projects using A+B+C bidding method where rigid and flexible pavement alternates are considered, backfill application (2) below, "Cross Drains Under Flexible Pavements", shall apply for either rigid or flexible pavements.

(1) Under Concrete Pavements: Type B backfill may be used as initial and final backfill for all pipes, culverts or drains under concrete pavements. Placement and compaction shall be as specified in Heading (d) below.

(2) Cross Drains Under Flexible Pavements: All reaches, exclusive of those portions of the pipe which are under shoulders, of cross drains and all other culverts, pipes or drains that cross the centerlines of the new roadway or centerlines of existing roadways, such as intersections and are under flexible pavements shall receive an initial backfill of Type A material. Type B backfill materials may be used as final backfill for all pipes. Placement and compaction shall be as specified in Heading (c) and (d) below. Where the subgrade is above existing ground, embankment material as specified for the remainder of the project shall be used from the top of the final backfill to the top of the established embankment grade.

(3) Other Drains Under Flexible Pavements: All reaches of all culverts, pipes or drains under flexible pavements that do not cross the centerlines of new roadway or centerlines of existing roadways, and exclusive of those portions of the pipe which are totally under shoulders, shall receive an initial and final backfill of Type B material. Placement and compaction shall be as specified in Heading (d) below. Where the subgrade is above existing ground, embankment material as specified for the remainder of the project shall be used from the top of the final backfill to the top of the established embankment grade.

(4) Other Areas: All culverts, pipes or drains in nonpaved areas or paved areas that serve as driveways or shoulders shall receive an initial and final backfill of Type B material. Placement and compaction shall be as specified in Heading (d) below.

(5) Pipes Subject to Construction Traffic; The embankment or pipe backfill shall be constructed to a minimum of 24 inches (600 mm) over the pipe before heavy construction equipment is allowed to cross the installation. Where practical, installations with less than 24 inches (600 mm) of cover over the top of the pipe shall be constructed after heavy hauling is completed over the pipe location. After completion of hauling operations, the contractor shall remove excess cover material. Pipe damaged by hauling and backfilling operations shall be removed and reinstalled, or replaced, at no direct pay.

(c) Placement and Compaction; Type A Backfill: For all pipes, culverts and conduits under paved and nonpaved areas, where Type A backfill material is used, the Type A backfill shall be thoroughly hand compacted under the pipe haunches and then dynamically compacted in layers not exceeding 8 inches (200 mm) compacted thickness. Compaction under the haunches of the pipe shall initially be by hand tamping or other acceptable means, until a level is reached that the dynamic tamping can commence. Each lift shall be compacted by applying at least eight

passes of a hand operated, dynamic mechanical compaction device over the surface of each lift. With approval of the engineer, layer thickness may be increased to 12 inches (300 mm) with verification of satisfactory installation and performance. If flowable fill is used it shall be furnished, placed and consolidated in accordance with Section 710. The contractor shall control placement operations during initial backfill operations so as not to damage protective coatings on metal pipes. The contractor shall repair damaged coatings at no additional pay.

(d) Placement and Compaction; Type B Backfill: For all pipes, culverts and conduits, where Type B backfill is allowed, the Type B material shall be placed in layers not exceeding 8 inches (200 mm) compacted thickness. Compaction shall be with suitable mechanical equipment. With approval of the engineer, layer thickness may be increased to 12 inches (300 mm) with verification of satisfactory installation and performance.

(e) Placement and Compaction; Trenchless or Partial Trench Condition: All pipes, culverts, drains and conduits placed with any portion of the pipe above existing ground must also comply with Subsections (a),(b) (c) and (d) above for the portion of the pipe within a trench and that portion of the pipe not constructed in a trench. The width of initial and final backfill of that portion above existing ground and not within a trench will be constructed to such a width that the requirements for placement, compaction and density are met.

(f) Density Requirements: The in place density of Type A backfill materials and bedding materials, will not be measured or determined. Type A backfill, exclusive of RAP and flowable fill, shall be placed at or near optimum moisture content determined in accordance with DOTD TR 415 or 418. RAP materials shall be placed and compacted in a slightly moist condition.

The maximum dry density of initial or final Type B backfill under all paved areas which are to be under traffic will be determined in accordance with DOTD TR 415 or TR 418 and in-place density determined in accordance with DOTD TR 401. Initial and final Type B backfill under all paved areas, under traffic, shall be placed at or near optimum moisture content determined in accordance with DOTD TR 415 or TR 418. Each layer shall be compacted by approved methods prior to the placement of a subsequent layer. The engineer will approve the compaction method based upon validation that such method, including moisture control, will achieve at least 95 percent of maximum dry density as determined in accordance with DOTD TR 401. With approval of the engineer, density testing may be waived on subsequent layers with backfill installation in accordance with approved compaction methods and continued satisfactory performance.

Initial and final backfill in unpaved areas or paved areas such as shoulders or driveways, shall be placed evenly and compacted along the length of the culvert, pipe or drain from the top of the initial backfill to the top of the subgrade. Layered backfill shall be compacted at least to the density of the adjoining existing soils or the compaction required of the laterally adjoining layers of soil immediately outside the trench for embankment elevations. Initial and final backfill shall be placed and compacted at or near optimum moisture content determined in accordance with DOTD TR 415 or TR 418.

701.09 INSPECTION OF PIPES. After completion of embankment and prior to roadway surfacing, the engineer shall inspect pipes for proper alignment and integrity of joints. Any misaligned pipe or defective joints shall be corrected by the contractor at no direct pay.

(a) Plastic Pipe: Installed plastic pipe shall be tested to ensure that vertical deflections do not exceed 5.0 percent. Maximum allowable deflections shall be governed by the mandrel requirements stated herein.

Deflection tests shall be performed no sooner than 30 calendar days after installation and compaction of backfill. The pipe shall be cleaned and inspected for offsets and obstructions prior to testing.

For pipe 36 inches (900 mm) and less in diameter, a mandrel shall be pulled through the pipe by hand to ensure that maximum allowable deflections have not been exceeded. The mandrel shall be approved by the engineer prior to use. Use of an unapproved mandrel or a mandrel altered or modified after approval will invalidate the test. If the mandrel fails to pass, the pipe is overdeflected.

Unless otherwise permitted, overdeflected pipe shall be uncovered and, if not damaged, reinstalled. Damaged pipe shall not be reinstalled, but shall be removed and replaced with new pipe. Any pipe subjected to any method or process other than removal, which attempts, even successfully, to reduce or cure any overdeflection, shall be removed and replaced with new pipe.

The mandrel shall be a rigid, nonadjustable, odd-numbered legged (minimum 9 legs) mandrel having a length not less than its nominal diameter or 24 inches (600 mm), whichever is less. The minimum diameter at any point shall be 5.0 percent less than the base inside diameter of the pipe being tested. The mandrel shall be fabricated of steel, aluminum or other approved material fitted with pulling rings at each end. The nominal pipe size and outside diameter of the mandrel shall be stamped or engraved on some segment other than a runner. A suitable carrying case shall be furnished.

For pipe larger than 36 inches (900 mm) in diameter, deflection shall be determined by a method approved by the engineer. If a mandrel is selected, the minimum diameter, length, and other requirements shall conform to the above requirements.

Mandrel testing shall be conducted by the contractor in the presence of the engineer. Mandrel testing shall be at no direct pay.

(b) Metal Pipe: If the inside diameter of metal pipe or rise dimension of metal pipe arch deflects more than 5.0 percent from original dimensions, they shall be removed and reinstalled, unless they do not rebound or are damaged. Pipe or pipe arch which are damaged or do not rebound shall be removed and replaced at no direct pay. Measurement of deflection will be made by the engineer away from rerolled ends.

701.10 CLEANING PIPES.

(a) Existing Pipes: Pipes designated to be cleaned shall be cleaned of soil, debris and other materials to the invert of the pipe. Designated pipes shall be cleaned by approved methods that will not damage the pipes. Any damage caused by the contractor's operations shall be satisfactorily repaired at no direct pay.

Removed soil, debris and other materials shall be disposed of in accordance with Subsection 202.02 or as otherwise approved in writing.

(b) Contractor Installed Pipes: Prior to final acceptance, pipes shall be cleaned of all debris and soil to the invert of the pipe at no direct pay.

Removed soil, debris and other materials shall be disposed of in accordance with Subsection 202.02 or as otherwise approved in writing.

701.11 STUBBING AND PLUGGING PIPES. When it is required that pipes be plugged, such plugs shall be constructed of Class R concrete complying with Section 901. Thickness of plug and method of construction shall be as directed.

When new pipes are to be stubbed into new or existing pipes or other structures, the connection shall be made with approved mortar complying with Subsection 702.02.

701.12 MEASUREMENT. Pipe, both new and relaid, will be measured in linear feet (lin m) as follows unless stated otherwise.

(a) Pipe not confined by fixed structures will be measured by the number of joints at the nominal length of each joint.

(b) Pipe confined by fixed structures will be measured along the pipe between the termini of pipe in structure walls.

(c) Pipe confined by a fixed structure on one end and unconfined at the other end will be measured along the pipe from the terminus of pipe in the structure wall to the unconfined end of pipe.

(d) Fabricating of pipe tees, elbows and other fittings will be measured per each fitting. The length of pipe in such fittings will be included in the pay length measurement of pipes of which they form a part.

(e) Excavation required for installation of pipes will not be measured for payment, except as otherwise specified in Subsection 203.14.

(f) Furnishing and placing backfill material below existing ground level for pipes will not be measured for payment. Backfill material needed to complete backfill above natural ground and around pipes that extend above natural ground will be measured and payment will be made under applicable earthwork items. When specified, flowable fill will be measured and paid for in accordance with Section 710.

(g) Plugging and stubbing of pipes will not be measured for payment.

(h) Cleaning existing pipes will be measured by the length of pipe cleaned and accepted.

(i) Concrete collars will be measured per each.

701.13 PAYMENT.

(a) Payment for pipe will be made at the contract unit price per linear foot (lin m) of the types and sizes specified.

When plastic pipe is specified on the plans or elected to be used by the contractor, payment will be made at the contract unit price per linear foot (lin m) of the types and sizes specified in accordance with the payment schedule of Table 701-1.

Table 701-1
Payment Schedule for Plastic Pipe

Percent Payment	Stage of Completeness
75	After placement and backfill has been completed
25	After the pipe has met vertical deflection requirements in accordance with Subsection 701.09(a)

(b) Payment for fabricating pipe tees, elbows and other fittings will be made at the contract unit price per each fitting.

(c) When unstable conditions are encountered, the additional excavation will not be measured for payment; however, the additional materials furnished and placed for the pipe foundation will be measured and paid for as follows:

(1) Granular Materials: Payment will be made under the embankment item. The net section volume of the materials will be multiplied by 3 to determine the pay volume. When the contract does not include a pay item for embankment, payment will be made in accordance with Subsection 104.02.

(2) Bedding Material: Measurement and payment will be made in accordance with Section 726. When the contract does not include a pay item for bedding material, payment will be made in accordance with Subsection 104.02.

(d) Payment for cleaning existing pipes will be made at the contract unit price per linear foot (lin m).

(e) Payment for concrete collars will be made at the contract unit price per each.

Payment will be made under:

Item No.	Pay Item	Pay Unit
701-01	Cross Drain Pipe (Size & Type)	Linear Foot (Lin m)
701-02	Cross Drain Pipe Arch (Size & Type)	Linear Foot (Lin m)
701-03	Storm Drain Pipe (Size & Type)	Linear Foot (Lin m)
701-04	Storm Drain Pipe Arch (Size & Type)	Linear Foot (Lin m)
701-05	Side Drain Pipe (Size)	Linear Foot (Lin m)
701-06	Side Drain Pipe Arch (Size)	Linear Foot (Lin m)
701-07	Yard Drain Pipe (Size)	Linear Foot (Lin m)
701-08	Relaying Pipe	Linear Foot (Lin m)
701-09	Fabricating Pipe Fittings	Each
701-10	Reinforced Concrete Pipe (Extension)	Linear Foot (Lin m)
701-11	Reinforced Concrete Pipe Arch (Extension)	Linear Foot (Lin m)
701-12	Corrugated Metal Pipe (Extension)	Linear Foot (Lin m)
701-13	Corrugated Metal Pipe Arch (Extension)	Linear Foot (Lin m)

701-14	Cleaning Existing Pipes	Linear Foot (Lin m)
701-15	Concrete Collar	Each
701-16	Plastic Pipe (Extension)	Linear Foot (Lin m)

SECTION 704 – GUARD RAIL:

Subsection 704.03 – General Construction Requirements (01/05), Pages 368 and 369.

Add the following to Heading (d), Guard Rail End Treatments.

All end treatments shall bear a label indicating the manufacturer and exact product name of the end treatment along with its assigned NCHRP 350 test level. This label shall resist weathering and shall be permanently affixed to the railing in such a way as to be readily visible.

SECTION 706 – CONCRETE WALKS, DRIVES AND INCIDENTAL PAVING:

All Subsections within Section 706 (04/08), Pages 375 – 377.

Delete Section 706, Concrete Walks, Drives and Incidental Paving and substitute the following.

SECTION 706
CONCRETE WALKS, DRIVES AND INCIDENTAL PAVING

706.01 DESCRIPTION. This work consists of furnishing and constructing portland cement concrete walks, handicapped curb ramps, drives and incidental paving slabs in accordance with these specifications and in conformity with lines, grades and dimensions shown on the plans or established.

706.02 MATERIALS. Materials shall comply with the following Section or Subsections.

Portland Cement Concrete (Class M)	901
Joint Filler	1005.01(c)
Reinforcing Steel	1009.01
Curing Materials	1011.01

706.03 CONSTRUCTION REQUIREMENTS.

(a) Excavation: Excavation shall be made to required depth and width. The top of the subgrade shall be shaped and compacted to a firm, even surface conforming to the section shown on the plans. Unsuitable material shall be removed and disposed of in accordance with Subsection 202.02 and replaced with approved material at no direct pay.

(b) Forms: Forms shall be of wood or metal and shall extend the full depth of concrete. Forms shall be straight, clean and of sufficient strength to resist the pressure of concrete. Bracing of forms shall be such that forms remain in horizontal and vertical alignment until their removal.

Concrete may be placed by slip-form methods. Slip-formed concrete shall be placed with an approved machine designed to spread, vibrate, consolidate and finish concrete in one pass of the machine in such manner that minimum hand finishing is necessary. Sliding forms shall be

rigidly held together to prevent spreading of forms. After the passing of the side forms there shall be no noticeable slumping of concrete.

(c) Subgrade: The subgrade shall be thoroughly moistened immediately prior to placing concrete.

(d) Placing and Finishing: Concrete shall be placed on the subgrade, struck off to required thickness and tamped sufficiently to bring the mortar to the surface. The surface shall be finished with a wood float or steel trowel followed by brushing to a slightly rough finish. Joints and edges shall be rounded with an edging tool having a 1/4-inch (6 mm) radius.

(e) Joints:

(1) Expansion Joints: Expansion joints shall be filled with 1/2 inch (13 mm) thick preformed expansion joint filler. Expansion joints shall be installed at maximum 100-foot (30 m) intervals, and between intersecting paving and any fixed structure such as a building, bridge or curbing, and between intersecting paving and the handicapped curb ramps. Expansion joint material shall extend for the full width and depth of paving.

(2) Weakened Plane: Weakened planes shall be formed by a jointing tool or other acceptable means. Weakened planes shall extend into concrete for at least 1/4 of the depth and shall be approximately 1/8 inch (3 mm) wide.

a. Walks: Spacing of weakened planes for walks shall be equal to the width of walk.

b. Drives: A longitudinal weakened plane shall be formed along the centerline of drives more than 16 feet (5 m) wide, and transverse weakened planes shall be formed at not more than 16-foot (5 m) intervals.

c. Incidental Paving: Weakened planes for incidental paving shall be formed at intervals not exceeding 30 times the thickness of the concrete in length or width. Incidental paving poured adjacent to jointed concrete shall be jointed to match existing joints, with intermediate joints formed as necessary not to exceed the maximum joint spacing.

(3) Construction Joints: Construction joints shall be formed around manholes, utility poles, etc., extending into paving and 1/4 inch (6 mm) thick preformed expansion joint filler shall be installed in these joints.

(4) Tie-ins: Tie-ins of existing concrete shall be made by full depth sawing at no direct pay.

(f) Curing: Concrete shall be cured in accordance with Subsection 601.10.

(g) Detectable Warning Surface for Handicap Ramps and At-Grade Sidewalk Intersections: Sidewalks, when intersecting with roadways, shall be equipped with a detectable warning surface system consisting of raised truncated domes as a transition between the sidewalk and the street as required by the Americans with Disabilities Act, 28 CFR Part 36, ADA Standards for Accessible Design.

Detectable warnings (truncated domes) shall be installed on the ramp surface over the full width of the ramp throat for a distance of 24 inches (600 mm) in the direction of travel from the back of the curb. Detectable warnings (truncated domes) shall also be installed on at-grade sidewalks intersecting with roadways for a distance of 36 inches (900 mm) in the direction of travel from the end of the sidewalk. Truncated domes shall be laid out on a square grid in order to allow enough space for wheelchairs to roll between the domes.

Light reflectance of the truncated domes and the underlying surface must meet the 70 percent contrast requirement of ADAAG.

706.04 MEASUREMENT. Quantities of concrete walks, drives and incidental paving slabs for payment will be the design quantities as specified on the plans and adjustments thereto. Design quantities will be adjusted if the engineer makes changes to adjust to field conditions, if design errors are proven or if design changes are made. Design areas are based on the horizontal dimensions shown on the plans. Excavation, backfill, reinforcing steel and joint materials will not be measured for payment.

Handicapped curb ramps, including the detectable surface warning system, will be measured per each.

Detectable surface warning systems for at-grade sidewalk intersection will not be measured for payment.

706.05 PAYMENT. Payment for concrete walks, drives and incidental paving will be made on a lot basis at the contract unit price per square yard (sq m), adjusted in accordance with the following provisions. Payment for each lot will be made in accordance with Table 901-6. Size, sampling, and testing of each concrete lot shall be in accordance with the Materials Sampling Manual.

Payment for handicapped curb ramps, including the detectable surface warning system, will be made by each and shall include, but not limited to, curb transitions, detectable warning system, gutter, landing and base.

Payment will be made under:

Item No.	Pay Item	Pay Unit
706-01	Concrete Walk (inch (mm) Thick)	Square Yard (Sq m)
706-02	Concrete Drive (inch (mm) Thick)	Square Yard (Sq m)
706-03	Incidental Concrete Paving (inch (mm) Thick	Square Yard (Sq m)
706-04	Handicapped Curb Ramps	Each

SECTION 713 – TEMPORARY TRAFFIC CONTROL:

Subsection 713.06 – Pavement Markings (08/06), Pages 400 – 403.

Delete Table 713-1, Temporary Pavement Markings and substitute the following.

Table 713-1
Temporary Pavement Markings[1,2]

		Two-lane Highways	Undivided Multilane Highways	Divided Multilane Highways
SHORT TERM	ADT<1500; or ADT>1500 and time<3 days	Lane lines 4-foot (1.2 m) tape on 40-foot (12 m) centers; with "Do Not Pass" and "Pass With Care" signs as required		
	ADT>1500; Time>3 days and<2 weeks	Lane lines 4-foot (1.2-m) tape on 40-foot (12-m) centers with no passing zone markings		
	All ADT's with time <2 weeks		Lane lines 4-foot (1.2m) tape on 40-foot (12 m) centers; double yellow centerline	Lane lines 4-foot (1.2 m) tape on 40-foot (12 m) centers
LONG TERM	All ADT's with time >2 weeks	Standard lane lines, no-passing zone markings, legends and symbols and when pavement width is 22 feet (6.7 m) or greater, edge lines	Standard lane lines, centerlines, edge lines, and legends and symbols	Standard lane lines, centerlines, edge lines, and legends and symbols.

[1]No-passing zones shall be delineated as indicated whenever a project is open to traffic.
[2]On all Asphaltic Surface Treatments that are open to traffic and used as a final wearing course or as an interlayer, temporary pavement markings (tabs) on 20-foot (6 m) centers shall be used, in lieu of the 4-foot (1.2 m) tape, on 40-foot (12 m) centers.

SECTION 729 – TRAFFIC SIGNS AND DEVICES:

Subsection 729.02 – Materials (04/08), Pages 456 and 457.

Delete the contents of Heading (a), Sign and Marker Sheeting, and substitute the following.

(a) Sign and Marker Sheeting: Sheeting material for sign panels, delineators, barricades and other markers shall comply with Section 1015. All permanent signs shall meet the requirements of ASTM D 4956, Type X.

Subsection 729.04, Fabrication of Sign Panels and Markers (04/08), Pages 458 – 460.

Delete the third paragraph of Heading (c), Sheeting Application and substitute the following.

ASTM D 4956 Type X reflective sheeting shall be applied with an orientation determined by the engineer to obtain the optimum entrance angle performance. Fabricated vertical splices in ASTM D 4956 Type X reflective sheeting will be allowed only when the horizontal dimension of the sign face or attached shield is in excess of the maximum manufactured width of the sheeting. Fabricated vertical splices in ASTM D 4956 Type X reflective sheeting will also be allowed when the specified orientation will create excessive sheeting waste.

SECTION 804 – DRIVEN PILES:

Subsection 804.08 – Construction Requirements (04/07), Pages548 – 554.

Delete the first sentence of Heading (a), Preboring and substitute the following.

Preboring by augering, wet-rotary drilling, or other methods used to facilitate pile driving will not be permitted unless specified in the plans or allowed by the engineer.

Delete the first sentence of Heading (b), Jetting and substitute the following.

Jetting will not be permitted unless allowed in the plans or allowed by the engineer.

SECTION 901 – PORTLAND CEMENT CONCRETE:

Subsection 901.06 – Quality Control of Concrete (08/06), Pages 726 – 731.

Add the following to the contents of Heading (b), Quality Control Tests.

The contractor shall be responsible for monitoring the components (cement, mineral and chemical admixtures, aggregates) in their mix to protect against any changes due to component variations. As component shipments arrive, the contractor shall verify slump, air content and set time by testing at ambient temperatures. The contractor shall make adjustments to the mix design to rectify any changes which would adversely affect constructability, concrete placement or the specifications. The contractor shall submit test results to the Department for review each day of paving. Testing to validate component consistency will be documented on the control logs. Conformance or variation in mix parameters (workability, set times, air content, etc.) shall be noted on the control logs. The contractor shall provide a copy of the proposed testing plan to the engineer for record. Acceptance of the plan does not relieve the contractor's responsibility for consistency.

Subsection 901.08 – Composition of Concrete (12/05), Pages 732 – 734.

Add the following to Heading (a).

The blended cement containing up to 50 percent of grade 100 or grade 120 ground granulated blast-furnace slag must be in compliance with Subsection 1001.04 for portland blast-furnace slag cement.

SECTION 1001 – HYDRAULIC CEMENT:

Subsection 1001.01 – Portland Cement (09/07). Page 749.

Delete the contents of this subsection and substitute the following.

1001.01 PORTLAND CEMENT. Portland cement shall be from an approved source listed in QPL 7 and shall comply with AASHTO M 85.

Alkali content calculated as sodium oxide equivalent shall not exceed 0.60 percent by weight for all types of cement.

SECTION 1003 – AGGREGATES:

Subsection 1003.02 – Aggregates for Portland Cement Concrete and Mortar (07/07), Pages 763 – 766.

Delete the contents of Heading (c), Aggregates for Types B and D Pavements, and substitute the following.

(c) Aggregates for Types B and D Pavements: For the combined aggregates for the proposed portland cement concrete pavement mix, the percent retained based on the dry weight (mass) of the total aggregates shall meet the requirements of Table 1003-1A for the type of pavement specified in the plans. Additionally, the sum of the percents retained on any two adjacent sieves so designated in the table shall be at least 12 percent of the total combined aggregates. The maximum amounts by weight (mass) of deleterious materials for the total aggregate shall be the same as shown in Subsection 1003.02(b).

Table 1003-1A
Aggregates for Types B and D Pavements

U.S. Sieve	Metric Sieve	Percent Retained of Total Combined Aggregates	
		Pavement Type	
		Type B	Type D
2 1/2 inch	63 mm	0	0
2 inch	50 mm	0	0-20
1 1/2 inch	37.5 mm	0-20	0-20
1 inch	25.0 mm	0-20	5-20
3/4 inch	19.0 mm	5-20	5-20
1/2 inch	12.5 mm	5-20	5-20
3/8 inch	9.5 mm	5-20	5-20
No. 4	4.75 mm	5-20	5-20
No. 8	2.36 mm	5-20	5-20
No. 16	1.18 mm	5-20	5-20
No. 30	600 µm	5-20	5-20
No. 50	300 µm	0-20	0-20
No. 100	150 µm	0-20	0-20
No. 200	75 µm	0-5	0-5
Note: For the sieves in the shaded areas, the sum of any two adjacent sieves shall be a minimum of 12 percent of the total combined aggregates.			

Each type of aggregate to be used in the proposed mixture shall be sampled and tested individually. The percent of total combined aggregates retained shall be determined mathematically based on the proportions of the combined aggregate blend. All gradation calculations shall be based on percent of dry weight (mass).

SECTION 1005 – JOINT MATERIALS FOR PAVEMENTS AND STRUCTURES:

Subsection 1005.04 – Combination Joint Former/Sealer (11/05), Pages 782 and 783.

Delete Heading (a) and substitute the following.

(a) Description: This joint former/sealer is intended for use in simultaneously forming and sealing a weakened plane in portland cement concrete pavements.

The material shall consist of an elastomeric strip permanently bonded either mechanically or chemically at the top of each of two rigid plastic side frames and covered with a removable plastic top cap. Side frames shall be of such configuration that when the sealer is inserted into plastic concrete and vibrated, a permanent bond forms between side frames and concrete.

Delete Heading (b)(1) and substitute the following.

(1) Elastomer: The elastomer strip portion of the material shall be manufactured from vulcanized elastomeric compound using polymerized chloroprene or thermoplastic vulcanizate as the base polymer, and shall comply with the following requirements:

Property	ASTM Test Method	Requirements	
		Polymerized Chloroprene	Thermoplastic Vulcanizate
Tensile Strength, kPa, Min.	D 412	12,400	7,400
Elongation at Break, % Min.	D 412	200	400
Hardness, Shore A	D 2240	65 ± 10	65 ± 10
Properties after Aging, 70 h @ 100°C	D 573		
Tensile Strength, % Loss, Max.		20	20
Elongation, % loss, Max.		25	25
Hardness, pts. increase, Max.		10	10
Ozone Resistance, 20% strain or bentloop, 300 pphm in air, 70 h @ 40°C	D 1149	no cracks	no cracks
Oil Swell, IRM 903, 70 h @ 100°C, wt change, % Max.	D 471	45	75

Delete Headings (b)(2) and (b)(3) and substitute the following:

(2) Bond of Elastomer to Plastic: The force required to shear the elastomer from the plastic shall be a minimum of 5.0 pounds per linear inch (90 g/mm) of sealer when tested in accordance with DOTD TR 636.

(3) Bond of Plastic to Cement Mortar: This bond will be evaluated and shall meet the following requirements:

The force required to separate the cement mortar from the plastic shall be a minimum of 5.0 pounds per linear inch (90 g/mm) of sealer when tested in accordance with DOTD TR 636.

SECTION 1006 – CONCRETE AND PLASTIC PIPE:

Subsection 1006.09 – Plastic Yard Drain Pipe (06/07), Page 789.

Delete the contents of Subheading (a)(3), Ribbed Polyvinyl Chloride Pipe (RPVCP) and substitute the following.

Ribbed Polyvinyl Chloride Pipe (RPVCP): Ribbed Polyvinyl Chloride Pipe shall comply with ASTM F 794, Series 46 or ASTM F 949 (46 psi).

SECTION 1013 – METALS:

Subsection 1013.09 – Steel Piles (08/06) Page 822.

Delete the title and references to "Steel Piles" in this subsection and substitute "Steel H Piles".

SECTION 1015 – SIGNS AND PAVEMENT MARKINGS:

Subsection 1015.04 – Sign Panels (05/07), Pages 832 and 833.

Delete the contents of Heading (a), Permanent Sign Panels and substitute the following.

(a) Permanent Sign Panels: Flat panels shall be aluminum sheets or plates complying with ASTM B 209, Alloy 6061-T6 or Alloy 5052-H38. Extruded aluminum panels shall comply with ASTM B 221 (ASTM B 221M), Alloy 6063-T6 and after fabrication, have a flatness equal to or less than 0.031 inch per foot of length and 0.004 inch per inch of width.

Subsection 1015.05 - Reflective Sheeting (04/08), Pages 833 – 838.

Delete the contents of this subsection and substitute the following.

1015.05 REFLECTIVE SHEETING.

(a) Permanent and Temporary Standard Sheeting: Reflective sheeting shall be one of the following standard types as specified on the plans and complying with ASTM D 4956 except as modified herein. Permanent warning, regulatory, guide and supplemental guide sign sheeting shall meet the requirements of ASTM D 4956 Type X. Reflective sheeting for temporary signs and devices shall meet the requirements of ASTM D 4956 Type III except as noted in Subsection 1015.05(f). Reflective sheeting shall be an approved product listed in QPL 13.

Type III - A high-intensity retroreflective sheeting that is typically encapsulated glass-bead retroreflective material.

Type VI - An elastomeric high-intensity retroreflective sheeting without adhesive. This sheeting is typically a vinyl microprismatic retroreflective material.

Type X - A super high-intensity retroreflective sheeting having highest retroreflectivity characteristics at medium distances. This sheeting is typically an unmetalized microprismatic retroreflective element material.

(b) Fluorescent Pink Retroreflective Sheeting: Signs for temporary control of traffic through incident management areas shall be Type VI fluorescent pink retroreflective sheeting and shall comply with the MUTCD. Temporary traffic control signs for incident management shall be placed to notify motorists of upcoming incidents on the roadway, and shall be removed from public view once the incident has been managed. Physical properties shall comply with ASTM D 4956. Photometric properties shall be as follows.

(1) Retroreflectivity: Minimum Coefficients of Retroreflection shall be as specified in Table 1015-1.

Table 1015-1
Coefficients of Retroreflection for Fluorescent Pink Sheeting[1]

Observation Angle, degrees	Entrance Angle, degrees	Fluorescent Pink
0.2	-4	100
0.2	+30	40
0.5	-4	40
0.5	+30	15

[1]Minimum Coefficient of Retroreflection (R_A) (cd $lx^{-1}m^{-2}$)

(2) Color and Daytime Luminance: Color Chromaticity Coordinates and Daytime Luminance Factors shall be as specified in Table 1015-2.

Table 1015-2
Fluorescent Pink Color Specifications Limits (Daytime)

Chromaticity Coordinates (corner points) [1]								Luminance Factor, min.
1		2		3		4		Y%
x	y	x	y	x	y	x	y	25
0.450	0.270	0.590	0.350	0.644	0.290	0.536	0.230	

[1]The four pairs of chromaticity coordinates measured with CIE 2° Standard Observer and 45/0 (0/45) geometry and CIE D65 Standard Illuminant.

(c) Adhesive Classes: The adhesive required for retroreflective sheeting shall be Class 1 (pressure sensitive) as specified in ASTM D 4956.

(d) Accelerated Weathering: Reflective sheeting, when processed, applied and cleaned in accordance with the manufacturer's recommendations shall perform in accordance with the accelerated weathering standards in Table 1015-3.

Table 1015-3
Accelerated Weathering Standards[1]

Type	Retroreflectivity[2]				Colorfastness[3]	
	Orange/ Fluorescent Orange		All colors, except orange/Fluorescent Orange		Orange/ Fluorescent Orange	All colors, except orange/Fluorescent Orange
III	1 year	80[4]	3 years	80[4]	1 year	3 years
III (for drums)	1 year	80[4]	1 year	80[4]	1 year	1 year
VI	1/2 year	50[5]	1/2 year	50[5]	1/2 year	1/2 year
X	1 year	80[6]	3 years	80[6]	1 year	3 years

[1]At an angle of 45° from the horizontal and facing south in accordance with ASTM G 7 at an approved test facility in Louisiana or South Florida.
[2]Percent retained retroreflectivity of referenced table after the outdoor test exposure time specified.
[3]Colors shall conform to the color specification limits of ASTM D 4956 after the outdoor test exposure time specified.
[4]ASTM D 4956, Table 8.
[5]ASTM D 4956, Table 13.
[6]ASTM D 4956, Table 4.

(e) Expected Sign Life Data and Performance: The sheeting manufacturer shall supply expected retroreflectivity service life curves for each of the following sign sheeting colors: white, green, blue, brown, red, and yellow. The service life curves shall be plots of the 95 percent expected life plotted on an x-y graph with life years on the x-axis and retroreflectivity on the y-axis. The expected life shall account for worst case installations, equivalent to an installation in South Louisiana with the sign facing to the South. The sheeting manufacturer shall also supply a table of expected life values taken from the service life curves for Revision Number 2 to the 2003 Edition of the MUTCD minimum reflectivity requirements published in the Federal Register on December 21, 2007. Reflective sheeting for signs, when processed, applied and cleaned in accordance with the manufacturer's recommendations shall perform outdoors in accordance with the performance standards in Table 1015-4.

Table 1015-4
Reflective Sheeting Performance Standards

Type	Retroreflectivity[1] -- Durability[2]				Colorfastness[3]
	Orange/ Fluorescent Orange		All colors, except orange/Fluorescent Orange		
III	3 years	80[4]	10 years	80[4]	3 years
X	3 years	80[5]	7years	80[5]	3 years

[1]Percent retained retroreflectivity of referenced table after installation and the field exposure time specified.
[2]All sheeting shall maintain its structural integrity, adhesion and functionality after installation and the field exposure time specified.
[3]All colors shall conform to the color specification limits of ASTM D 4956 after installation and the field exposure time specified.
[4]ASTM D4956, Table 8.
[5]ASTM D 4956, Table 4.

(f) Temporary Signs, Barricades, Channelizing Devices, Drums and Cones: Reflective sheeting for temporary signs, barricades and channelizing devices, shall meet the requirements of ASTM D 4956, Type III except that temporary warning construction signs used on the mainline of freeways and expressways shall be fluorescent orange and meet the requirements of ASTM D 4956, Type X.

Reflective sheeting for vertical panels shall meet the requirements of ASTM D 4956, Type III.

Reflective sheeting for drums shall be a minimum of 6 inches (150 mm) wide and shall meet the requirements of ASTM D 4956, Type III, and the Supplementary Requirement S2 for Reboundable Sheeting as specified in ASTM D 4956. Reflective sheeting for traffic cone collars shall meet the requirements of ASTM D 4956, Type III or Type VI.

(g) Sheeting Guaranty. The contractor shall provide the Department with a guaranty from the sheeting manufacturer stating that if the retroreflective sheeting fails to comply with the performance requirements of this subsection, the sheeting manufacturer shall do the following:

Table 1015-5
Manufacturer's Guaranty-Reflective Sheeting

Type	Manufacturer shall restore the sign face in its field location to its original effectiveness at no cost to the Department if failure occurs during the time period[1] as specified below		Manufacturer shall replace the sheeting required to restore the sign face to its original effectiveness at no cost to the Department if failure occurs during the time period[1] as specified below
	Orange/Fluorescent Orange	All colors, except orange/Fluorescent Orange	All colors, except orange/Fluorescent Orange
III	<3 years	<7 years	7-10 years
X	<3 years	<5 years	5-7 years

[1] From the date of sign installation.

Replacement sheeting for sign faces, material, and labor shall carry the unexpired guaranty of the sheeting for which it replaces.

The sign fabricator shall be responsible for dating all signs with the month and year of fabrication at the time of sign fabrication. This date shall constitute the start of the guaranty obligation period.

Subsection 1015.11 - Preformed Plastic Pavement Marking Tape (06/07), Pages 842 – 844.

Delete the contents of this subsection and substitute the following.

1015.11 PREFORMED PLASTIC PAVEMENT MARKING TAPE.

(a) General: Preformed plastic pavement marking tape shall be approved products listed on QPL 64 and shall comply with ASTM D4505 Retroreflectivity Level I or Level II, or DOTD Intersection Grade (as specified below), except as modified herein. The marking tape shall be Class 2 or 3. The type and color shall be in accordance with the plans and the MUTCD.

(b) Thickness: All preformed plastic pavement marking tape shall have a minimum overall thickness of 0.060 inches (1.5 mm) when tested without the adhesive.

(c) Friction Resistance: The surface of the Retroreflectivity Level II preformed plastic pavement marking tape shall provide a minimum frictional resistance value of 35 British Polish Number (BPN) when tested according to ASTM E303. The surface of the Retroreflectivity Level I and DOTD Intersection Grade preformed plastic pavement marking tape shall provide a minimum frictional resistance value of 45 BPN when tested according to ASTM E303. Values for the Retroreflectivity Level I material with a raised surface pattern as defined in ASTM D4505 are calculated by averaging values taken at downweb and at a 45 degrees angle from downweb.

(d) Retroreflective Requirements: The preformed plastic pavement marking tape shall have the minimum initial specific luminance values shown in Table 1015-7 when measured in accordance with ASTM D 4061.

Table 1015-7
Specific Luminance of Preformed Plastic Tape

Type	Observation Angle, degrees	Entrance Angle, degrees	Specific Luminance (mcd/sq m/lx)	
			White	Yellow
Retroreflectivity Level I	1.05	88.76	500	300
DOTD Intersection Grade	1.05	88.76	375	250
Retroreflectivity Level II	1.05	88.76	250	175

(e) Durability Requirements: The DOTD Intersection Grade preformed plastic pavement marking tape shall show no appreciable fading, lifting or shrinkage for a least 12 months after placement when placed in accordance with the manufacturer's recommended procedures on pavement surfaces having a daily traffic count not to exceed 15,000 ADT per lane.

The Retroreflectivity Level I preformed plastic pavement marking tape shall show no appreciable fading, lifting or shrinkage for a least 4 years after placement for longitudinal lines and at least 2 years after placement for symbols and legends.

The Retroreflectivity Level I preformed plastic pavement marking tape shall also retain the following reflectance values for the time period detailed in Table 1015-8.

Table 1015-8
Retained Specific Luminance for Retroreflectivity Level I
Preformed Plastic Pavement Marking Tape

Time	Observation Angle, degrees	Entrance Angle, degrees	Specific Luminance (mcd/sq m/lx)	
			White	Yellow
1 year	1.05	88.76	400	240
4 years (2 years for symbols and legend)	1.05	88.76	100	100

(f) Plastic Pavement Marking Tape Guaranty (DOTD Intersection Grade and Retroreflectivity Level I): If the plastic pavement marking tape fails to comply with the performance and durability requirements of this subsection within 12 months for DOTD Intersection Grade and 4 years for Retroreflectivity Level I, the manufacturer shall replace the plastic pavement marking material at no cost to the Department.

SECTION 1020 – TRAFFIC SIGNALS:

Subsection 1020.01 – Traffic Signal Heads (06/07), Pages 873 – 884.

Delete the contents of Heading (a), General Requirements and substitute the following.

(a) General Requirements: Traffic signal sections, beacon sections and pedestrian signal sections shall be of the adjustable type. Materials and construction of each section shall be the same.

Signals shall be constructed for either 8 or 12-inch (200 mm or 300 mm) lens in accordance with the plans. Signal sections shall have three to five sections per face and beacon sections have only one section per face. Signal sections and associated brackets shall be finished inside and out with two coats of high grade dark olive green enamel, color number 14056 according to Federal Standard No. 595b with each coat independently baked. Visors shall be coated green on the outside and black on the inside. Edges shall be deburred and smooth with no sharp edges.

Subsection 1020.04 – Poles for Traffic Signal Systems (06/07), Pages 890 – 894.

Delete the sixth paragraph of Heading (a), Pedestal Support Signal Poles, and substitute the following.

Pedestals shall be finished with at least one coat of rustproofing primer, applied to a clean surface and one coat of dark olive green enamel, color number 14056 according to Federal Standard No. 595.

LOUISIANA
DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT
SUPPLEMENTAL SPECIFICATIONS

SECTION 741
WATER DISTRIBUTION SYSTEM

The 2006 Standard Specifications are amended to include this Section 741.

741.01 DESCRIPTION: This work consists of furnishing the necessary materials and installing, relocating and adjusting water distribution systems in accordance with these specifications and in conformity with the lines and grades shown on the plans or established by the engineer.

741.02 MATERIALS: A certificate of compliance from the manufacturer showing the chemical and physical properties of the materials used and conformance with the specifications will be required for each item.

(a) Cast Iron and Ductile Iron Pipe:

(1) Cast Iron Pipe: Cast iron pipe shall be made of grey cast iron and shall conform to ANSI A 21.6 (centrifugally cast in metal molds) or A 21.8 (centrifugally cast in sand lined molds). Iron in the pipe shall have a bursting tensile strength of at least 21,000 psi (145 MPa) and the pipe shall have a ring modulus of rupture of at least 45,000 psi (310 MPa).

(2) Ductile Iron Pipe: Ductile iron pipe shall consist of ductile cast iron and shall conform to ANSI A 21.51 (centrifugally cast in metal or sand lined molds).

(3) Fittings: Fittings for cast iron or ductile iron pipe shall conform to ANSI A 21.10.

(4) Coating and Lining of Pipe: Cast iron and ductile iron pipe and fittings shall be asphalt or vinyl coated outside, as specified, and cement lined and seal coated inside in accordance with ANSI A 21.4.

(5) Joints: Pipe joints shall conform to ANSI A 21.11 with the following criteria used for joint selection.

a. Mechanical Joint (Type III) with alloy steel bolts and nuts.
b. Boltless single gasket push-on joint.
c. Submarine, flexible, ball and socket joint.
d. Flanged joint.

Pipe shall be installed with joint types (a) or (b) for mains under normal service conditions, joint type (c) for stream or canal crossings and when specified, joint type (d) for above ground installations such as pumps.

(b) Gate Valves and Valve Boxes:

(1) Valves shall be non-rising stem, iron body, bronze mounted, double-disk gate valves conforming to AWWA C 500. Valves shall have mechanical joint ends except that valves used with 2 inches (50 mm) or less diameter pipe, or galvanized iron pipe, shall have threaded ends. Valves shall open counterclockwise and shall be operated by nut method. Operating nuts shall conform to that used by the utility system.

(2) Valve boxes shall be approved cast iron, 2-piece, heavy roadway type. Valve boxes for 12 inches (300 mm) or larger valves shall be of the 3-piece type with oval base. The term "water" shall be cast on each valve box cover.

(c) Tapping Sleeves and Valves: Tapping sleeves shall be the split- sleeve, mechanical joint type. Gate valve connections shall be mechanical joint. Sleeves shall meet the requirements for cast iron fittings except the cement lining will not be required. Minimum working pressure shall be that specified for the system.

(d) Fire Hydrants: Fire hydrants shall conform to AWWA Designation: C 502 for 3-way type hydrants with working pressure of 150 psi (1.0 MPa). Hydrants shall be compression type and inlet connections shall be mechanical joint bell. Two 2 1/2 inches (65 mm) hose nozzles and one 4 1/2 inches (115 mm) pumper nozzle shall be provided; hose connections shall have National Standard threads. Hydrants shall have bronze seal rings, automatic drain openings and 0-ring seals. Minimum valve openings of 4 inches shall be provided. Hydrants shall contain a breakaway feature at ground level consisting of breakaway bolts or flange and breakaway coupling on the rod. Main valve and valve seat shall be replaceable without digging up the hydrant. The hydrant exterior shall be painted with approved enamel and shall be repainted after installation (color: yellow).

(e) Plastic Pipe: Plastic pipe and tubing shall be polyvinyl chloride or polyethlene pipe and tubing.

(1) Polyvinyl chloride (PVC) pipe shall conform to ASTM D 2241 and be pressure rated at 200 psi (1.3 MPa) minimum. The pipe shall be made from polyvinyl chloride compounds conforming to Class 12454B (Type 1, Grade 1), ASTM D 1784.

(2) Polyethylene (PE) pipe and tubing shall conform to ASTM D 2239 (pipe) and D 2737 (tubing). Pipe or tubing shall be rated for use with water at 73.4°F (23°C) at a hydrostatic design stress of 630 psi (4.3 MPa). Pipe or tubing shall be made from polyethylene plastics conforming to Type III, Grade 3, ASTM D 1248.

(3) When specified, Schedule 40 PVC shall be in accordance with ASTM D 1785, Schedule 40, PVC 1120.

(4) Plastic pipe and fittings must bear the seal or "NSF" mark of the National Sanitation Foundation or other approved marking indicating approval for use in transporting potable water.

(5) Welding Solvent and Solvent Thinner shall conform to ASTM D 2564.

(f) Galvanized Steel Pipe: These pipes and fittings shall be galvanized steel seamless pipe conforming to ASTM A 53 (A 53M), standard weight. Fittings shall be malleable iron conforming to ANSI B 16.3 except the nipples and couplings shall be the same material as the pipe. Fittings shall be galvanized in accordance with ASTM A 53 (A 53M).

(g) Copper Pipe or Tubing: This pipe shall conform to ASTM B 88, Type K. Copper fittings shall be of the cast pattern or wrought pattern. Fittings for rigid copper pipe shall be of the solder joint type. Fittings for conceded soft draw pipe may be the flared mechanical type. Unions shall be the ground joint type.

(h) Detection Wire for Plastic Pipe: An approved electrically conductive insulated wire or tape shall be installed directly over and on the center of the plastic pipe for its entire length within highway right-of-way to facilitate locating of line with an electronic pipe locator. Wire or tape must be connected to all fixtures and appurtenances.

741.03 CONSTRUCTION REQUIREMENTS:

(a) General:

(1) Handling: Pipe, fittings and other materials shall be carefully handled to prevent breakage or damage, especially to the cement mortar lining in pipe and fittings.

(2) Existing Underground Utilities and Obstructions: All water lines, gas lines, telephone conduits, drainage structures, etc. shall be located and protected by the contractor during construction.

(b) Trench Excavation:

(1) Excavation: Excavation shall conform to Subsections 701.03 and 701.04, and the following requirements.

a. Protection of Excavation: Sheeting, shoring and hand excavation shall be used as necessary for protection of the work. Sheeting shall be withdrawn as backfilling is being done, except where the engineer directs that the sheeting and shoring be left in place, or where the engineer permits the sheeting to be left in place. The contractor shall cut off any sheeting left in place at least 18 inches (450 mm) below finished grade. Sheeting and bracing will not be paid for directly.

b. Trench Depth: Minimum bury (depth from grade to top of pipe) under pavement or surfacing shall be 4 feet (1.2 m). Minimum bury under ditches and in other non-paved areas shall be 2 feet (0.6 m).

c. Bell Holes: Bell holes of ample depth and width shall be excavated in pipe trenches at each joint location to permit the joint to be properly made and the pipe barrel to rest firmly on the trench bottom.

(2) Under Pavement:

a. Removing Pavement: The contractor shall remove existing pavement as necessary for trench excavation. Pavement shall be cut back from the top edges of trenches at least 24 inches (0.6 m) on each side of the trench. The requirements of Sections 510 and 602 shall be followed for removing and replacing pavement except that no separate payment will be made for this work.

b. Jacking and Boring: The contractor may elect to jack or bore pipe under existing pavement where practical; however, separate payment for jacked or bored pipe will only be made when jacking or boring of pipe is specified. Jacked or bored pipe shall be installed in accordance with Section 728.

(c) Connection to Existing Mains: Connection to existing mains shall be made with appropriate fittings as shown on the plans or as directed. When it is necessary to make such connections under pressure (i.e., when normal water service must be maintained) a tapping sleeve and valve shall be used. The contractor shall furnish the valve tapping machine and other equipment required.

(1) Location: The contractor shall, before opening pipe line trenches, locate the points where connections are to be made to existing pipe lines and shall uncover as necessary for the engineer to prescribe the types of connections and fittings to be installed.

(2) Interruption of Service: Connections to existing pipe lines shall be made at such times and in such manner as will meet operating requirements. No cut shall be made in existing lines until permission has been obtained as to time and manner of making cuts and connections.

(d) Laying Water Mains and Appurtenances:

(1) Sequence of Work: Excavation, cleaning, laying, jointing and backfilling shall be kept up as closely as possible. Pipe shall not be left in the trench overnight without completely jointing and capping. The contractor shall backfill and compact the trench as soon as possible after laying, jointing and testing is complete. Each day at the close of work, and when laying is not in progress, the exposed end of the pipe line in the trench shall be closed with an approved barrier of wood or metal. If it is necessary to cover the end of an uncompleted pipe line with backfill, the end of the pipe shall be closed using a satisfactory cap or plug.

(2) Alignment and Gradient: Pipe line alignment and gradient shall be straight, or shall be deflected to follow true curves as nearly as practical. Deflection of pipe lines shall be within the allowable laying deflection angle, both horizontal and vertical.

(3) Installation:

a. Connections: Connections which are made inside roadway shoulders, or curbs and gutters, shall be made with flexible joints.

b. Cutting: Where pipe or special castings are required to be cut, cutting shall be done using pipe cutters.

c. Gate Valves: Gate valves shall be installed and jointed as specified above for water mains. Installation of gate valves shall include valve boxes, where required.

d. Fire hydrants: Hydrants shall be installed and jointed as specified above for water mains. Installation of hydrants shall include vertical extension sections if required, pipe straps, concrete blocking, aggregate drain and backfill.

e. Concrete Blocking: Concrete blocking shall be Class R concrete conforming to Section 901 and shall be formed and poured at the backs of fittings, including elbows, tees, pipe plugs, fire hydrants and other locations shown on the plans or directed by the engineer.

f. Backfilling: Backfilling shall conform to Subsection 701.08 and these requirements.

When testing for leaks in open trenches, backfilling shall not be done until testing has been completed and leaks eliminated.

Where adjacent pavements are to be retained, pavement removed for pipe line trenches shall be replaced in kind or when approved, with equal or better material. After backfilling, the contractor shall maintain a satisfactory riding surface until repaving is completed. No separate payment will be made for replaced pavement.

g. Testing and Disinfection:

1. Testing: When a section of pipe is approved for testing, the contractor shall furnish all materials, equipment and labor to properly carry out this operation. This shall include a test pump and means of accurate measurement of water necessary to maintain required pressure during testing. The contractor shall furnish, install and remove any temporary bulkheads, flanges, plugs and corporation stops at high points in pipe lines and at the test pump, as necessary.

A. Sequence of Testing: When conditions permit, pipe lines shall be tested before the trench is backfilled and before service lines are installed; however, if high pressure testing must be done after service lines are in place, they shall be shut off at the corporation stops.

After necessary joints, bulkheads, etc. have been installed, corporation stops, if no other means can be provided, shall be placed in the high points of the pipe line and at the pump as required, and the pipe blown free from air according to accepted procedure.

B. Test Pressure: Test pressure shall be 50 psi (0.3 MPa) higher than the designated class pressure of pipe and fittings. Leakage shall not exceed 15 gallons per inch (1.4 L/mm) of pipe diameter per mile (km) per 24 hours. The minimum test period shall be 2 hours. However, if additional testing is required the contractor shall perform the procedure at his expense. When service lines cannot be isolated (i.e., shut off from the section to be tested), or other conditions exist where pressure testing as described above may cause damage, the line may be tested under normal operating pressure when approved. This work shall be done in open trenches, where possible, and testing repeated until leaks are eliminated.

C. Leaks and Defective Materials or Workmanship: Joints which leak shall be remade. Cracked, broken or defective materials shall be replaced. Defective workmanship shall be corrected. After the above conditions have been corrected, the line shall be retested as described above until the line passes the requirements. The contractor shall receive no additional compensation for the corrections or retesting.

2. Disinfection: Pipe lines and appurtenances, both existing and new which are the responsibility of the contractor, shall be disinfected before being placed in service. The disinfection process may be done in conjunction with the pressure test and shall be in accordance with AWWA C 601 and these requirements.

A solution of calcium hypochlorite or sodium hypochlorite (such as HTH, Perchloron, Chlorox, etc.) liquid chlorine or other approved disinfectant shall be used to obtain a solution of at least 50 ppm of available chlorine throughout the pipe system. No chlorine shall be applied to pipe as lines are being laid.

For this work, the contractor shall furnish suitable corporation stops, plugs or caps for the pipe, injection pumps, pipe connections and other equipment, and all labor required, at no additional cost to the Department.

While disinfectant is being applied to any section of the system, the water shall be allowed to escape at all extremities of this section until an orthotolidine test shows a deep orange color. The disinfectant shall be allowed to remain in the pipe at least 6 hours and tests shall be made to determine that a chlorine residual of at least 5 ppm remains. If there is not sufficient residual chlorine, disinfection shall be repeated. After disinfection, lines shall be thoroughly flushed to remove the chlorine. If bacteriological tests indicate that the lines are not free of coliform organisms, the disinfection procedure shall be repeated on that part of the system until proven to be free of contamination.

Disinfection shall be made in the presence of the engineer. The contractor shall notify the engineer at least 48 hours prior to the time lines are to be disinfected. The contractor shall furnish taps, corporation stops, tubing and faucets, and furnish labor to obtain samples of water from disinfected lines. These shall be collected and submitted to a biological laboratory of the State Board of Health. Copies of laboratory reports shall be submitted to the engineer. Disinfection shall be considered acceptable when reports indicate lines to be free of contamination. Lines shall be disinfected as soon after completion of testing as possible.

When tests are completed, test risers shall be removed and corporation stops plugged with an approved brass plug.

(e) Laying Service Lines and Appurtenances: Except as modified below, construction and installation of service lines shall conform to the requirements for laying water mains. Service lines shall include complete installation of the new pipe from the water main to the final location of the meter, or to such points as directed to connect with existing or future service lines and abutting property. Installation of service line pipe shall include necessary connections, including unions, valves, fittings, corporation stops, goosenecks where permitted, and curb stops.

(1) Excavation and Backfill:

a. Excavation: Excavation shall be done as specified elsewhere herein.

b. Backfill: Backfilling shall be done as specified herein after leakage test has been made under normal operation pressure in open trenches and leaks eliminated.

(2) Laying and Jointing: Jointing of copper pipe, galvanized steel pipe and plastic pipe shall be in accordance with standard practice for jointing water pipe and approved installation methods. Plastic pipe shall be placed in the trench to allow at least 1 percent additional length of pipe for thermal connection, and selected backfill material shall be placed and compacted to 6 inches above pipe before proceeding with normal backfill operations.

(f) Relocations, Adjustments and Removals:

(1) Water Valves, including valve boxes and fire hydrants, shall be relocated, adjusted to grade or removed as shown on the plans or as designated. The contractor shall protect all parts during the removing and relocating operation and shall replace all items lost or damaged at his expense. All lead or composition joints shall be melted out and each joint disconnected before being removed from the trench.

Relocated gate valves or fire hydrants shall be installed as specified for new gate valves or fire hydrants. Concrete blocking will be required for fire hydrants. Leakage tests shall be performed as specified above. Backfilling shall be done as specified herein. Concrete blocking and any additional pipe required in resetting the gate valve or fire hydrant at its new location will be paid for separately. Valve boxes, when they exist, shall be considered to be a part of the valve assembly and shall be removed with the valve.

(2) Existing water meters and boxes shall be relocated as shown on the plans or as designated. Relocation shall include removing the existing meter, meter box, all required pipe, unions and appurtenances, storage, protection where necessary, and reinstalling the meter, meter box and curb stop in the existing service line as directed. The contractor, with the engineer, shall inspect each meter before its removal to determine its condition. If a meter is defective, the contractor will be furnished a replacement meter for the installation.

(3) Existing water service lines shall be adjusted to grade, by excavating for, and lowering or raising the existing service lines and backfilling at the same location, as shown on the plans or directed. Any new materials or fittings required for the adjustment shall be furnished by the contractor without additional compensation. He shall also make any required changes in the connection at the main which are the result of this work. All leaks and damage caused by the contractor's operations shall be repaired at his expense. If a water meter is to be retained at the same location in an existing service line that is to be adjusted, the meter and box shall also be adjusted to proper grade. No additional compensation will be allowed for this adjustment.

(4) Existing water meter and water valve boxes shall be lowered or raised to the grade established on the plans or by the engineer.

(5) Existing house connections shall be adjusted as required. New pipe and fittings required to adjust house connections shall be equal in quality to that of the existing installation and meet requirements of the utility and code.

741.04 MEASUREMENT:

(a) Water Mains: Water mains will be measured by the linear foot (lin m) along the center, parallel to the slope of the pipe, from end to end of each installation through all fittings.

(b) Fittings: Pipe fittings will be considered subsidiary to the water line in which they are used.

(c) Gate valves, including boxes when required, will be measured by the number of each size installed.

(d) Tapping sleeve and valve assembly will be measured by the number of each size installed.

(e) Fire hydrants will be measured by the number of each installed.

(f) Service Lines: Service lines will be measured by the linear foot (lin m) from end to end, and from center of lines to ends of branches, including valves and fittings.

(g) Relocating Fire Hydrants, Water Valves and Water Meters: Existing fire hydrants, water valves and water meters will be measured by the number of each relocated, including relocation of boxes for such valves and meters.

(h) Adjusting Meter Boxes and Valve Boxes: Existing meter boxes and valve boxes adjusted to grade in their original locations will be measured by the number adjusted.

(i) Removal of Water Valves and Fire Hydrants: Existing water valves, including boxes when necessary, and fire hydrants will be measured by the number of each removed.

(j) Excavation and Backfill: Excavation and backfill will not be measured for payment.

(k) Concrete Blocking: Concrete blocking will be measured by the cubic yard (cu m) of concrete used.

(l) Adjusting Water House Connections: This item will be measured by the number of house connections adjusted.

(m) Adjusting Service Lines to Grade: This item will be measured in linear feet (lin m) of service line pipe lowered or raised, including valves, fittings, meters, boxes and other appurtenances. Measurement will be made from end to end of adjusted service line.

(n) Incidentals: Pavement removed and replaced, including sawing, testing, disinfection and detection wire for plastic pipe, will not be measured for payment.

(o) Casing will be measured by the linear foot (lin m) along the center, parallel to the slope of the casing.

(p) Butterfly valves, including boxes when required, will be measured by the number of each installed.

(q) Double strap saddles will be measured by the number of each installed.

741.05 PAYMENT:

(a) Water main pipe will be paid for per linear foot (lin m) for each size of pipe installed, which includes fittings, excavation, backfilling, removal and replacement of pavement, testing, sterilizing, and laying pipe in casing when required.

(b) Gate valves will be paid for per each, which includes box if required, and joint connections.

(c) Tapping sleeve and valve assemblies will be paid for per each, which includes joint connections.

(d) Fire hydrants will be paid for per each, which includes vertical extensions, joint connections, pipe straps and stone drain.

(e) Service line pipe will be paid for per linear foot (lin m), which includes excavation, backfilling, removal and replacement of pavement, testing, sterilizing, corporation and curb stops, goosenecks where required, fittings, jointing, connecting to the main, and laying pipe in casing when required.

(f) Relocating fire hydrant will be paid for per each, which includes crushed stone drain.

(g) Relocating water valve including box will be paid for per each, which includes excavation and backfill.

(h) Relocating water meter including box will be paid for per each set, which includes excavation and backfill.

(i) Adjusting water house connections will be paid for per each, which includes necessary adjustment of service lines not exceeding 20 linear feet (6.1 lin m) per house connection, and required new pipe and fittings.

(j) Adjusting water service lines in excess of 20 linear feet (6.1 lin m) per house connection will be paid for per linear foot (lin m) of adjusted service line, which includes required new pipe and fittings.

(k) Adjusting meter boxes and valve boxes to grade will be paid for per each.

(l) Removal of water valves will be paid for per each, which includes valve box.

(m) Removal of fire hydrants will be paid for per each.

(n) Concrete blocking will be paid for per cubic yard (cu m).

(o) Casing will be paid for per linear foot (lin m), which includes excavation, backfilling, and removal and replacement of pavement.

(p) Butterfly valves will be paid for per each size, which includes box if required, and joint connections.

(q) Double strap saddles will be paid for per each, which includes joint connections.

(r) Payment will be made at the contract unit prices under:

Item No.	Pay Item	Pay Unit
741-01	Water Main (Size & Type)	Linear Foot (Lin m)
741-02	Gate Valve (Size)	Each
741-03	Tapping Sleeve and Valve Assembly (Size)	Each
741-04	Fire Hydrant	Each
741-05	Water Service Line (Size & Type)	Linear Foot (Lin m)
741-06	Relocating Fire Hydrant	Each
741-07	Relocating Water Valve	Each
741-08	Relocating Water Meter	Each
741-09	Adjusting Water House Connections	Each
741-10	Adjusting Water Service Lines	Linear Foot (Lin m)
741-11	Adjusting Water Valve and Meter Box	Each
741-12	Removing Water Valve Including Box	Each
741-13	Removing Fire Hydrant	Each
741-14	Concrete Blocking	Cubic Yard (Cu m)
741-15	Casing (Size & Type)	Linear Foot (Lin m)
741-16	Butterfly Valve (Size)	Each
741-17	Double Strap Saddle (Size)	Each

LOUISIANA
DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT
SUPPLEMENTAL SPECIFICATIONS

SECTION 742
SANITARY SEWER SYSTEMS

The 2006 Standard Specifications are amended to include this Section.

742.01 DESCRIPTION. This work consists of furnishing the necessary materials and installing, relocating and adjusting sanitary sewers and appurtenances in accordance with these specifications and in conformity with the lines and grades shown on the plans or established by the engineer.

Sewer manholes and junction boxes shall be constructed or reconstructed in accordance with the plans and Section 702.

The contractor shall coordinate his work activities with utility owners in accordance with Subsections 105.06 and 107.20 and shall observe all laws in accordance with Subsection 107.01.

742.02 MATERIALS. A certificate of compliance from the manufacturer showing the chemical and physical properties of the materials used and conformance with the specifications will be required in accordance with Subsection 106.04.

When the item "Sanitary Sewer Pipe" is included in the contract, the contractor has the option of furnishing any of the following materials unless otherwise specified.

(a) Cast Iron and Ductile Iron Pipe:

(1) Cast Iron Pipe: Cast iron pipe shall be made of gray cast iron and shall conform to ANSI A 21.6 (centrifugally cast in metal molds) or A 21.8 (centrifugally cast in sand lined molds). The iron in the pipe shall have a bursting tensile strength of at least 21,000 psi (145 MPa) and shall have a ring modulus of rupture of at least 45,000 psi (310 MPa). Pipe shall have thickness corresponding to Class 25 of A 21.6 or A 21.80.

(2) Ductile Iron Pipe: Ductile iron pipe shall consist of ductile cast iron and shall conform to ANSI A 21.51 (centrifugally cast in metal or sand lined molds). Pipe shall have thickness corresponding to Class 5 of A 21.51.

(3) Fittings: Fittings for cast iron or ductile iron pipe shall conform to ANSI A 21.10.

(4) Coating: The exterior and interior of pipe and fittings shall be covered with an approved bituminous coating in accordance with the above specifications.

(5) Joints: Pipe joints shall conform to ANSI A 21.11 and shall be the following types, as specified.

a. Mechanical Joint (Type III) with alloy steel bolts and nuts.
b. Boltless single gasket and push-on joint.
c. Submarine, flexible, ball and socket joint.
d. Flanged joint.

Flange bolts in contact with sewage or sludge shall be stainless steel or bronze.

(b) Clay Pipe: Vitrified clay sewer pipe and fittings shall conform to ASTM C 700 and shall have compression joints conforming to ASTM C 425. Pipe 6 inches (150 mm) and under shall be "Standard Strength Clay Pipe", and above 6 inches (150 mm) shall be "Extra Strength Clay Pipe".

(c) Plastic Pipe:

(1) Acrylonitrile-Butadiene-Styrene (ABS): Pipe and fittings shall conform to ASTM D 2680 for composite-wall pipe, and ASTM D 2751 (SDR 35) for solid-wall pipe.

(2) Polyvinyl Chloride (PVC): Pipe and fittings shall conform to ASTM D 3034, Type PSM (SDR 35).

(3) Detection Wire for Plastic Pipe: An approved electrically conductive insulated wire or tape shall be installed on the center of the plastic pipe for its entire length within highway right-of-way to facilitate location of line with an electronic pipe locator. Wire or tape must be connected to all fixtures and appurtenances.

(d) Concrete Sewer Pipe: Nonreinforced concrete sewer pipe shall conform to ASTM C 14 (C 14M), Class 2. Joints shall be Type 3 in accordance with Subsection 1006.05.

(e) Reinforced Concrete Sewer Pipe: Reinforced Concrete Sewer Pipe shall conform to Subsection 1006.03. Joints shall be Type 3 in accordance with Subsection 1006.05.

742.03 MAINTENANCE OF SEWAGE FLOW. The contractor shall maintain continuous flow of sewage during relocation operations. No diversion of sewage flow into open trenches or streams will be permitted.

742.04 CONSTRUCTION REQUIREMENTS.

(a) General: Underground water lines, gas lines, telephone conduits, drainage structures, etc. shall be located and protected by the contractor during construction.

(b) Trench Excavation:

(1) Excavation: The requirements of Subsections 701.03 and 701.04 and these additional requirements shall be met.

a. Protection of Excavation: Sheeting, shoring and hand excavation shall be used as necessary for protection of the work. Sheeting in excavation shall be withdrawn as backfilling is being done, except where the engineer directs that sheeting and shoring be left in place, or where the engineer permits sheeting to be left in place at the contractor's expense. The contractor shall cut off sheeting left in place at least 18 inches (450 mm) below finished grade. Sheeting and bracing will not be paid for directly unless there is a contract item for this work or unless sheeting and bracing were left in place by order of the engineer. The pipe grade and line shall not be disturbed.

b. Minimum Trench Depth (Bury): Minimum bury under pavement or surfacing shall be 4 feet (1.2 m). Minimum bury under ditches shall be 24 inches (0.6 m). Minimum bury for installations parallel to roadway shall be 24 inches (0.6 m).

c. Joints and Bell Holes: Bell holes of ample depth and width shall be excavated in pipe trenches at each joint location to permit the joint to be properly made and

the pipe barrel to rest firmly on the ditch bottom. The trench shall be dry when jointing and laying pipe.

(2) Under Pavement:

a. Removing Pavement: The contractor shall remove existing pavement as necessary for trench excavation. Pavement shall be cut back from top edges of trenches at least 24 inches (0.6 m) on each side of the trench. The requirements of Sections 510 and 602 shall be followed for removing and replacing pavement except that no separate payment will be made for this work unless a pay item for pavement patching is provided.

b. Jacking and Boring: The contractor may jack or bore pipe under existing pavement where practical, but payment in these instances will be made under the item for installation in an open trench. Separate payment for jacked or bored pipe will be made when the plans or specifications require that the pipe be installed in that manner and an item is included in the contract. Pipe that is jacked or bored shall be installed in accordance with Section 728.

(c) Connections: No pipe shall be cut for connections except as indicated on the plans or directed. The cost for making connections, including connections to existing facilities, shall be included in the contract price for sewer pipe.

(1) Manhole Connections: The contractor shall use care in connecting new sewer lines to existing manholes and connecting existing sewer lines to new manholes to avoid infiltration of foreign substances. Manholes shall be cleaned of fallen masonry or debris.

(2) Connections for Future Use: Connections for future use shall be capped and sealed in accordance with the requirements for sealing joints.

(3) House Connections: Wyes and tees installed in a common sewer for house connections shall be installed as shown on the plans or as directed.

(d) Adjusting Sanitary Sewer House Connections and Service Lines: New pipe and fittings required to adjust house connections shall be equal in quality to that of the existing installation and meet the requirements of the utility and code.

742.05 TESTS. Completed sewer lines shall be tested with reflected light and shall show an unobstructed view between manholes. Infiltration shall not exceed 10 gallons per day per inch (1.5 L/mm per day) diameter per 100 feet (30 m) of pipe. On lines where flow indicates infiltration in excess of this amount, a leakage test shall be conducted at the contractor's expense by a method satisfactory to the engineer. Sewer lines showing excessive leakage or undue deviation from line or grade shall be repaired or replaced by the contractor at his expense.

742.06 MEASUREMENT.

(a) Excavation and Backfill: Excavation, foundation preparation material and backfill will not be measured for payment, with the following exception. If an item for Bedding Material is included in the contract, this item will be paid for within the limits specified and in accordance with Section 726.

(b) Sanitary Sewer Pipe: Pipe will be measured in linear feet (lin m) along the centerline of the pipe.

(c) Wyes, Tees and Other Fittings: These items will not be measured separately but will be included in the overall measurement as indicated above.

(d) Manholes: Sanitary or combination sewer manholes will be measured in accordance with Section 702.

(e) Adjustment of Existing Manholes: Adjustment of existing sanitary or combination sewer manholes will be measured in accordance with Section 702.

(f) Concrete Blocking: Concrete blocking will not be measured for payment.

(g) Adjusting Sanitary Sewer House Connections and Service Lines: Adjusting sanitary sewer house connections will be measured per each connection. Adjusting sanitary sewer service lines will be measured by the linear foot (lin m) of adjusted line.

(h) Casings: Casings will be measured by the linear foot (lin m) along the centerline of casing.

(i) Incidentals: Pavement removed and replaced, including sawing, connections, testing and detection wire for plastic pipe, will not be measured for payment.

742.07 PAYMENT:

(a) Sewer pipe installations, sanitary or combination, will be paid for at the contract price per linear foot (lin m), which includes furnishing and hauling all materials; excavation and backfill; connections; capping and sealing connections for future use; and the maintenance of continuous flow of sewage in existing sewers during relocating operations.
When a pay item for Bedding Material is included in the contract, payment will be in accordance with Section 726.

(b) Manholes and manhole adjustments will be paid for in accordance with Section 702.

(c) Payment for adjusting house connections will include adjustment of service lines not exceeding 20 linear feet (6.1 lin m) per house connection. Payment for service line adjustments in excess of 20 linear feet (6.1 lin m) per house connection will be made by the linear foot (lin m) of adjusted service line. Payment for these items includes required new pipe and fittings, and excavation and backfill.

(d) Casings will be paid for at the contract unit price per linear foot (lin m).

(e) Payment will be made under:

Item No.	Pay Item	Pay Unit
742-01	Sanitary Sewer Pipe (Size)	Linear Foot (Lin m)
742-02	Adjusting Sanitary Sewer House Connections	Each
742-03	Adjusting Sanitary Sewer Service Lines	Linear Foot (Lin m)
742-04	Casing (Size & Type)	Linear Foot (Lin m)

LOUISIANA
DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT
SUPPLEMENTAL SPECIFICATIONS

FEMALE AND MINORITY PARTICIPATION IN CONSTRUCTION

The following notice shall be included in, and shall be a part of, all solicitations for offers and bids on all federal and federally assisted construction contracts or subcontracts in excess of $10,000 to be performed in geographical areas designated by the director of OFCCP. Execution of the contract by the successful bidder and any subsequent subcontracts will be considered the contractor's and subcontractor's commitment to the EEO provisions contained in this notice.

NOTICE OF REQUIREMENT FOR AFFIRMATIVE ACTION TO ENSURE EQUAL EMPLOYMENT OPPORTUNITY (EXECUTIVE ORDER 11246)

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 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:

AREA	PARISH OR COUNTY	GOAL (%)
	FEMALE PARTICIPATION	
-	All Covered Areas	6.9
	MINORITY PARTICIPATION (UNDER NEW ORLEANS PLAN)	
-	* See Note Below	20 to 23
	MINORITY PARTICIPATION (NOT UNDER NEW ORLEANS PLAN)	
1	Jefferson LA, Orleans LA, St. Bernard LA, St. Tammany LA	31.0
2	Assumption LA, Lafourche LA, Plaquemines LA, St. Charles LA, St. James LA, St. John the Baptist LA, Tangipahoa LA, Terrebonne LA, Washington LA, Forrest MS, Lamar MS, Marion MS, Pearl River MS, Perry MS, Pike MS, Walthall MS	27.7
3	Ascension LA, East Baton Rouge LA, Livingston LA, West Baton Rouge, LA	26.1
4	Concordia LA, East Feliciana LA, Iberville, LA, Pointe Coupee LA, St. Helena LA, West Feliciana LA, Adams MS, Amite MS, Wilkinson, MS	30.4
5	Lafayette LA	20.6
6	Acadia LA, Evangeline LA, Iberia LA, St. Landry LA, St. Martin LA, St. Mary LA, Vermillion LA	24.1
7	Calcasieu LA	19.3
8	Allen LA, Beauregard LA, Cameron LA, Jefferson Davis LA, Vernon LA	17.8
9	Grant LA, Rapides LA	25.7
10	Avoyelles LA, Bienville LA, Bossier LA, Caddo LA, Claiborne LA, DeSoto LA, Natchitoches LA, Red River LA, Sabine LA, Webster LA, Winn LA	29.3
11	Ouachita LA	22.8
12	Caldwell LA, Catahoula LA, East Carroll LA, Franklin LA, Jackson LA, LaSalle LA, Lincoln LA, Madison LA, Morehouse LA, Richland LA, Tensas LA, Union LA, West Carroll LA,	27.9

*These goals apply only to those contractors signatory to the New Orleans Plan and only with respect to those trades which have unions participating in said Plan. The New Orleans Plan Covered Area is as follows: The parishes of Orleans, Jefferson, St. Bernard, St. Tammany, St. Charles, St. John the Baptist, Plaquemines, Washington, Terrebonne, Tangipahoa (that area east of the Illinois Central Railroad), Livingston (that area southeast of the line from a point off the Livingston and Tangipahoa Parish line adjacent from New Orleans and Baton Rouge), St. James (that area southeast of a line drawn from the Town of Gramercy to the point of intersection of St. James, Lafourche and Assumption Parishes), and Lafourche.

These goals are applicable to all 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 is also 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 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 60-4.3(a), and its efforts to meet the goals established for the geographical area where the contract resulting from this solicitation is to be performed. 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 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 purpose of meeting the contractor's goals shall be a violation of the contract, the Executive Order and the regulations in 41 CFR 60-4. Compliance with the goals will be measured against the total work hours performed.

3. The contractor shall provide written notification to the Regional Administrator of the Office of Federal Contract Compliance Programs (555 Griffin Square Building, Dallas, TX 75202) within 10 working days of award of any construction subcontract in excess of $10,000 at any tier for construction work under the contract. The notification shall list the name, address and telephone number of the subcontractor; employer identification number; estimated dollar amount of the subcontract; estimated starting and completion dates of the subcontract; and geographical area in which the contract is to be performed.

4. As used in this Notice and in the contract, the "covered area" is that area shown in the foregoing table in which the project is located.

The following Standard Federal Equal Employment Opportunity Construction Contract Specifications (Executive Order 11246) shall be included in, and shall be a part of, all solicitations for offers and bids on all federal and federally assisted construction contracts or subcontracts in excess of $10,000. Execution of the contract by the successful bidder and any

subsequent subcontracts will be considered the contractor's and subcontractor's commitment to the EEO provisions contained in these Standard Federal Equal Employment Opportunity Construction Contract Specifications (Executive Order 11246).

STANDARD FEDERAL EQUAL EMPLOYMENT OPPORTUNITY CONSTRUCTION CONTRACT SPECIFICATIONS (EXECUTIVE ORDER 11246)

1. As used in these specifications:
   a. "Covered area" means the geographical area described in the solicitation from which this contract resulted;
   b. "Director" means Director, Office of Federal Contract Compliance Programs, United States Department of Labor, or any person to whom the Director delegates authority;
   c. "Employer identification number" means the Federal Social Security number used on the Employer's Quarterly Federal Tax Return, U. S. Treasury Department Form 941.
   d. "Minority" includes:
      (i) Black (all persons having origins in any of the Black African racial groups not of Hispanic origin);
      (ii) Hispanic (all persons of Mexican, Puerto Rican, Cuban, Central or South American or other Spanish Culture or origin, regardless of race);
      (iii) Asian and Pacific Islander (all persons having origins in any of the original peoples of the Far East, Southeast Asia, the Indian Subcontinent, or the Pacific Islands); and
      (iv) American Indian or Alaskan Native (all persons having origins in any of the original peoples of North America and maintaining identifiable tribal affiliations through membership and participation or community identification).

2. If the contractor, or any subcontractor at any tier, subcontracts a portion of the work involving any construction trade, he shall include in each subcontract in excess of $10,000 the provisions of these specifications and the Notice which contains the applicable goals for minority and female participation.

3. If the contractor is participating (pursuant to 41 CFR 60-4.5) in a Hometown Plan approved by the U.S. Department of Labor in the covered area either individually or through an association, its affirmative action obligations on all work in the Plan area (including goals and timetables) shall be in accordance with that Plan for those trades which have unions participating in the Plan. Contractors must be able to demonstrate their participation in and compliance with the provisions of any such Hometown Plan. Each contractor or subcontractor participating in an approved Plan is required to comply with his obligations under the EEO clause, and to make good faith effort to achieve each goal under the Plan in each trade in which it has employees. The overall good faith performance by other contractor or subcontractors toward a goal in an

approved Plan does not excuse any covered contractor's or subcontractor's failure to take good faith efforts to achieve the Plan goals.

4. The contractor shall implement the specific affirmative action standards provided in paragraphs 7a through 7p of these specifications. The goals set forth in the solicitation from which this contract resulted are expressed as percentages of the total hours of employment and training of minority and female utilization the contractor should reasonably be able to achieve in each construction trade in which it has employees in the covered area. Covered construction contractors performing construction work in geographical areas where they do not have a federal or federally assisted construction contract shall apply the minority and female goals established for the geographical area where the work is being performed. Goals are published periodically in the Federal Register in notice form, and such notices may be obtained from any OFCCP office or from federal procurement contracting officers. The contractor is expected to make substantially uniform progress in meeting its goals in each craft during the period specified.

5. Neither the provisions of any collective bargaining agreement, nor the failure by a union with whom the contractor has a collective bargaining agreement, to refer either minorities or women, shall excuse the contractor's obligations under these specifications, Executive Order 11246, or the regulations promulgated pursuant thereto.

6. In order for the nonworking training hours of apprentices and trainees to be counted in meeting the goals, such apprentices and trainees must be employed by the contractor during the training period, and the contractor must have made a commitment to employ the apprentices and trainees at the completion of their training, subject to the availability of employment opportunities. Trainees must be trained pursuant to training programs approved by the U. S. Department of Labor.

7. The contractor shall take specific affirmative actions to ensure equal employment opportunity. The evaluation of the contractor's compliance with these specifications will be based on his effort to achieve maximum results from its actions. The contractor shall document these efforts fully, and shall implement affirmative action steps at least as extensive as the following:

a. Ensure and maintain a working environment free of harassment, intimidation and coercion at all sites, and in all facilities at which the contractor's employees are assigned to work. The contractor, where possible, will assign 2 or more women to each construction project. The contractor shall ensure that all foremen, superintendents and other on-site supervisory personnel are aware of and carry out the contractor's obligation to maintain such a working environment with specific attention to minority or female individuals working at such sites or in such facilities.
b. Establish and maintain a current list of minority and female recruitment sources, provide written notification to minority and female recruitment sources and to

community organizations when the contractor or its unions have employment opportunities available, and maintain a record of the organizations' responses.

c. Maintain a current file of the names, addresses and telephone numbers of each minority and female off-the-street applicant and minority or female referral from a union, a recruitment source or community organization and of what action was taken with respect to each such individual. If such individual was sent to the union hiring hall for referral and was not referred back to the contractor by the union or, if referred, not employed by the contractor, this shall be documented in the file with the reason therefor, along with whatever additional actions the contractor has taken.

d. Provide immediate written notification to the Director when the union or unions with which the contractor has a collective bargaining agreement has not referred to the contractor a minority person or woman set by the contractor, or when the contractor has other information that the union referral process has impeded the contractor's efforts to meet its obligations.

e. Develop on-the-job training opportunities and/or participate in training programs for the area which include minorities and women, including upgrading programs and apprenticeship and trainee programs relevant to the contractor's employment needs, especially those programs funded or approved by the Department of Labor. The contractor shall provide notice of these programs to the sources compiled under 7b above.

f. Disseminate the contractor's EEO policy by providing notice of the policy to unions and training programs and requesting their cooperation in assisting the contractor in meeting his EEO obligations; by including it in any policy manual and collective bargaining agreement; by publicizing it in the company newspaper, annual report, etc.; by specific review of the policy with all management personnel and with all minority and female employees at least once a year; and by posting the company EEO policy on bulletin boards accessible to all employees at each location where construction work is performed.

g. Review, at least annually, the company's EEO policy and affirmative action obligations under these specifications with all employees having any responsibility for hiring, assignment, layoff, termination or other employment decisions including specific review of these items with on-site supervisory personnel such as superintendent, general foremen, etc., prior to the initiation of construction work at any job site. A written record shall be made and maintained identifying the time and place of these meetings, persons attending, subject matter discussed, and disposition of the subject matter.

h. Disseminate the contractor's EEO policy externally by including it in ny advertising in the news media, including minority and female news media, and providing written notification to and discussing the contractor's EEO policy with other contractors and subcontractors with whom the contractor does or anticipates doing business.

i. Direct its recruitment efforts, both oral and written, to minority, female and community organizations, to schools with minority and female students and to minority and female recruitment and training organizations serving the contractor's recruitment area and employment needs. Not later than 1 month prior to the date for the acceptance of

applications for apprenticeship or other training by any recruitment source, the contractor shall send written notification to organizations such as the above describing the openings, screening procedures and tests to be used in the selection process.

j. Encourage present minority and female employees to recruit other minority persons and women, and where reasonable, provide after school, summer and vacation employment to minority and female youth both on the site and in other areas of a contractor's workforce.

k. Validate all tests and other selection requirements where there is an obligation to do so under 41 CFR 60-3.

l. Conduct, at least annually, an inventory and evaluation of all minority and female personnel for promotional opportunities and encourage these employees to seek or to prepare for, through appropriate training, etc., such opportunities.

m. Ensure that seniority practices, job classifications, work assignments and other personnel practices, do not have a discriminatory effect by continually monitoring all personnel and employment related activities to ensure that the EEO policy and the contractor's obligations under these specifications are being carried out.

n. Ensure that all facilities and company activities are non-segregated except that separate or single-user toilet and necessary changing facilities shall be provided to assure privacy between the sexes.

o. Document and maintain a record of all solicitations of offers for subcontracts from minority and female construction contractors and suppliers, including circulation of solicitations to minority and female contractor associations and other business associations.

p. Conduct a review, at least annually, of all supervisors' adherence to and performance under the contractor's EEO policies and affirmative action obligations.

8. Contractors are encouraged to participate in voluntary associations which assist in fulfilling their affirmative action obligations (7a through p). The efforts of a contractor association, joint contractor-union, contractor-community, or other similar group of which the contractor is a member and participant, may be asserted as fulfilling its obligations under 7a through 7p of these specifications provided that the contractor actively participates in the group, makes every effort to assure that the group has a positive impact on the employment of minorities and women in the industry, ensures that the concrete benefits of the program are reflected in the contractor's minority and female workforce participation, makes a good faith effort to meet his goals and timetables and can provide access to documentation which demonstrates the effectiveness of actions taken on behalf of the contractor. The obligation to comply, however, is the contractor's and failure of such a group to fulfill an obligation shall not be a defense for the contractor's noncompliance.

9. A goal for minorities and a separate goal for women have been established. The contractor, however, is required to provide equal employment opportunity and to take affirmative action for all minority groups, both male and female, and all women, both minority and non-minority. Consequently, the contractor may be in violation of the Executive Order if a group is employed

in a substantially disparate manner (for example, even though the contractor has achieved its goals for women generally, the contractor may be in violation of the Executive Order if a minority group of women in underutilized).

10. The contractor shall not use the goals or affirmative action standards to discriminate against any person because of race, color, religion, sex or national origin.

11. The contractor shall not enter into a subcontract with any person or firm debarred from Government contracts pursuant to Executive Order 11246.

12. The contractor shall carry out such sanctions and penalties for violation of these specifications and of the Equal Opportunity Clause, including suspension, termination and cancellation of existing subcontracts as may be imposed or ordered pursuant to Executive Order 11246, as amended, and its implementing regulations, by the Office of Federal Contract Compliance Programs. Any contractor who fails to carry out such sanctions and penalties shall be in violation of these specifications and Executive Order 11246, as amended.

13. The contractor, in fulfilling his obligations under these specifications, shall implement specific affirmative actions steps, at least as extensive as the standards prescribed in paragraph 7 of these specifications, so as to achieve maximum results from its efforts to ensure equal employment opportunity. If the contractor fails to comply with the requirements of the Executive Order, the implementing regulations or these specifications, the Director shall proceed in accordance with 41 CFR 60-4.8.

14. The contractor shall designate a responsible official to monitor all employment related activity to ensure that the company EEO policy is being carried out, to submit reports relating to the provisions hereof as may be required by the Government and to keep records. Records shall at least include for each employee the name, address, telephone numbers, construction trade, union affiliation if any, employee identification number when assigned, social security number, race, sex, status (e.g., mechanic, apprentice, trainee helper, or laborer), dates of changes in status, hours worked per week in the indicated trade, rate of pay and locations at which the work was performed. Records shall be maintained in an easily understandable and retrievable form; however, to the degree that existing records satisfy this requirement, contractors will not be required to maintain separate records.

15. Nothing herein shall be construed as a limitation on the application of other laws which establish different standards of compliance or on the application of requirements for hiring of local or other area residents (e.g., those under the Pubic Works Employment Act of 1977 and the Community Development Block Grant Program).

16. In addition to the reporting requirements set forth elsewhere in this contract, the contractor and subcontractors holding subcontracts (not including material suppliers) in excess of $10,000

shall submit for every month of July during which work is performed, employment data as contained under Form FHWA-1391 in accordance with instructions included thereon.

LOUISIANA
DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT
SUPPLEMENTAL SPECIFICATIONS

NEW ORLEANS PLAN

Each bidder, contractor or subcontractor (hereinafter called the contractor) must fully comply with these bid conditions as to each construction trade intended to be used on this construction contract and all other construction work (both federal and nonfederal) in New Orleans Plan Area during the performance of this contract or subcontract. The contractor commits to the minority and female employment utilization goals set forth herein and all other requirements, terms and conditions expressed herein by submitting a properly signed bid.

The contractor shall appoint a company executive to assume the responsibility for implementation of the requirements, terms and conditions of these bid conditions.

These specifications implementing the New Orleans Plan for employment of minorities and females have been imposed by the U. S. Department of Labor by order on September 8, 1971, as amended, for all nonexempt federal and federally assisted construction contracts to be awarded in the area of jurisdiction of the Southeast Louisiana Building and Construction Trades Council in the City of New Orleans and Southeast Louisiana. This area consists of the parishes of Orleans, Jefferson, St. Bernard, St. Tammany, St. Charles, St. John the Baptist, Plaquemines, Washington, Terrebonne, Tangipahoa (that area east of the Illinois Central Railroad), Livingston (that area southeast of the line from a point off the Livingston and Tangipahoa Parish line adjacent from New Orleans and Baton Rouge), St. James (that area southeast of a line drawn from the Town of Gramercy to the point of intersection of St. James, Lafourche and Assumption Parishes), and Lafourche.

The provisions of these bid conditions apply to contractors which are party to collective bargaining agreements with labor organizations which together have agreed to the New Orleans Area Construction Program (hereinafter called the New Orleans Plan) for equal opportunity and have jointly made a commitment to goals of minority and female utilization. The New Orleans Plan is a voluntary agreement between (1) Southeast Louisiana Building and Construction Trades Council; (2) contractors and subcontractors who are signatory to the New Orleans Plan; (3) the Urban League of Greater New Orleans and representatives of the minority community; and (4) the City of New Orleans. The New Orleans Plan, together with all implementing agreements that have been and may hereafter be developed pursuant thereto, are incorporated herein by reference.

The requirements set forth herein shall constitute the specific affirmative action requirements for activities under this contract and supplement the equal employment opportunity requirements set forth in the Required Contract Provisions.

The contractor and all subcontractors holding contracts in excess of $10,000 shall comply with the following minimum requirement activities of equal employment opportunity. The contractor shall include these requirements in every subcontract in excess of $10,000 with such modification of language as necessary to make them binding on the subcontractor.

Each contractor and subcontractor shall submit a monthly employment utilization report, Standard Form 257, covering the contractor's entire work force employed on all contracts (both federal and nonfederal) held in the New Orleans Area. In addition, a list of the federal and nonfederal contracts which are covered by the report shall be furnished. The report shall be submitted to the engineer no later than the 10th day following the end of the month being reported. The report shall end on the next to the last Saturday in the month being reported and shall reflect all hours worked between this date and the close out date in the preceding month. Copies of all payrolls and personnel data shall be retained for 3 years after final acceptance of the project. These records and documents, or copies thereof, shall be made available at reasonable times and places for inspection by an authorized representative of the State or Federal Government and shall be submitted upon request with any other compliance information which such representative may require.

In addition to the reporting requirements set forth above, the contractor and the subcontractors holding subcontracts, not including material suppliers, in excess of $10,000 shall submit for every month of July during which work is performed, employment data as contained under Form FHWA-1391, and in accordance with the instructions included thereon.

A contractor may be in compliance with these bid conditions by its participation in the New Orleans Plan and applicable provisions contained in the "Notice of Requirement for Affirmative Action to Ensure Equal Employment Opportunity (Executive Order 11246)" and Standard Federal Equal Employment Opportunity Construction Contract Specifications (Executive Order 11246).

LOUISIANA
DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT

REQUIRED CONTRACT PROVISIONS
FEDERAL-AID CONSTRUCTION CONTRACTS

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ATTACHMENTS

A. Employment Preference for Appalachian Contracts (included in Appalachian contracts only)

I. GENERAL

1. These contract provisions shall apply to all work performed on the contract by the contractor's own organization and with the assistance of workers under the contractor's immediate superintendence and to all work performed on the contract by piecework, station work, or by subcontract.

2. Except as otherwise provided for in each section, the contractor shall insert in each subcontract all of the stipulations contained in these Required Contract Provisions, and further require their inclusion in any lower tier subcontract or purchase order that may in turn be made. The Required Contract Provisions shall not be incorporated by reference in any case. The prime contractor shall be responsible for compliance by any subcontractor or lower tier subcontractor with these Required Contract Provisions.

3. A breach of any of the stipulations contained in these Required Contract Provisions shall be sufficient grounds for termination of the contract.

4. A breach of the following clauses of the Required Contract Provisions may also be grounds for debarment as provided in 29 CFR 5.12:

Section I, paragraph 2;
Section IV, paragraphs 1, 2, 3, 4, and 7;
Section V, paragraphs 1 and 2a through 2g.

5. Disputes arising out of the labor standards provisions of Section IV (except paragraph 5) and Section V of these Required Contract Provisions shall not be subject to the general disputes clause of this contract. Such disputes shall be resolved in accordance with the procedures of the U.S. Department of Labor (DOL) as set forth in 29 CFR 5, 6, and 7. Disputes within the meaning of this clause include disputes between the contractor (or any of its subcontractors) and the contracting agency, the DOL, or the contractor's employees or their representatives.

6. **Selection of Labor:** During the performance of this contract, the contractor shall not:

a. discriminate against labor from any other State, possession, or territory of the United States (except for employment preference for Appalachian contracts, when applicable, as specified in Attachment A), or

b. employ convict labor for any purpose within the limits of the project unless it is labor performed by convicts who are on parole, supervised release, or probation.

II. NONDISCRIMINATION

(Applicable to all Federal-aid construction contracts and to all related subcontracts of $10,000 or more.)

1. **Equal Employment Opportunity:** Equal employment opportunity (EEO) requirements not to discriminate and to take affirmative action to assure equal opportunity as set forth under laws, executive orders, rules, regulations (28 CFR 35, 29 CFR 1630 and 41 CFR 60) and orders of the Secretary of Labor as modified by the provisions prescribed herein, and imposed pursuant to 23 U.S.C. 140 shall constitute the EEO and specific affirmative action standards for the contractor's project activities under this contract. The Equal Opportunity Construction Contract Specifications set forth under 41 CFR 60-4.3 and the provisions of the American Disabilities Act of 1990 (42 U.S.C. 12101 et seq.) set forth under 28 CFR 35 and 29 CFR 1630 are incorporated by reference in this contract. In the execution of this contract, the contractor agrees to comply with the following minimum specific requirement activities of EEO:

a. The contractor will work with the State highway agency (SHA) and the Federal Government in carrying out EEO obligations and in their review of his/her activities under the contract.

b. The contractor will accept as his operating policy the following statement:

"It is the policy of this Company to assure that applicants are employed, and that employees are treated during employment, without regard to their race, religion, sex, color, national origin, age or disability. Such action shall include: 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, preapprenticeship, and/or on-the-job training."

2. **EEO Officer:** The contractor will designate and make known to the SHA contracting officers an EEO Officer who will have the responsibility for and must be capable of effectively administering and promoting an active contractor program of EEO and who must be assigned adequate authority and responsibility to do so.

3. **Dissemination of Policy:** All members of the contractor's staff who are authorized to hire, supervise, promote, and discharge employees, or who recommend such action, or who are substantially involved in such action, will be made fully cognizant of, and will

implement, the contractor's EEO policy and contractual responsibilities to provide EEO in each grade and classification of employment. To ensure that the above agreement will be met, the following actions will be taken as a minimum:

a. Periodic meetings of supervisory and personnel office employees will be conducted before the start of work and then not less often than once every six months, at which time the contractor's EEO policy and its implementation will be reviewed and explained. The meetings will be conducted by the EEO Officer.

b. All new supervisory or personnel office employees will be given a thorough indoctrination by the EEO Officer, covering all major aspects of the contractor's EEO obligations within thirty days following their reporting for duty with the contractor.

c. All personnel who are engaged in direct recruitment for the project will be instructed by the EEO Officer in the contractor's procedures for locating and hiring minority group employees.

d. Notices and posters setting forth the contractor's EEO policy will be placed in areas readily accessible to employees, applicants for employment and potential employees.

e. The contractor's EEO policy and the procedures to implement such policy will be brought to the attention of employees by means of meetings, employee handbooks, or other appropriate means.

4. **Recruitment:** When advertising for employees, the contractor will include in all advertisements for employees the notation: "An Equal Opportunity Employer." All such advertisements will be placed in publications having a large circulation among minority groups in the area from which the project work force would normally be derived.

a. The contractor will, unless precluded by a valid bargaining agreement, conduct systematic and direct recruitment through public and private employee referral sources likely to yield qualified minority group applicants. To meet this requirement, the contractor will identify sources of potential minority group employees, and establish with such identified sources procedures whereby minority group applicants may be referred to the contractor for employment consideration.

b. In the event the contractor has a valid bargaining agreement providing for exclusive hiring hall referrals, he is expected to observe the provisions of that agreement to the extent that the system permits the contractor's compliance with EEO contract provisions. (The DOL has held that where implementation of such agreements have the effect of discriminating against minorities or women, or obligates the contractor to do the same, such implementation violates Executive Order 11246, as amended.)

c. The contractor will encourage his present employees to refer minority group applicants for employment. Information and procedures with regard to referring minority group applicants will be discussed with employees.

5. **Personnel Actions:** Wages, working conditions, and employee benefits shall be established and administered, and personnel actions of every type, including hiring, upgrading, promotion, transfer, demotion, layoff, and termination, shall be taken without regard to race, color, religion, sex, national origin, age or disability. The following procedures shall be followed:

a. The contractor will conduct periodic inspections of project sites to insure that working conditions and employee facilities do not indicate discriminatory treatment of project site personnel.

b. The contractor will periodically evaluate the spread of wages paid within each classification to determine any evidence of discriminatory wage practices.

c. The contractor will periodically review selected personnel actions in depth to determine whether there is evidence of discrimination. Where evidence is found, the contractor will promptly take corrective action. If the review indicates that the discrimination may extend beyond the actions reviewed, such corrective action shall include all affected persons.

d. The contractor will promptly investigate all complaints of alleged discrimination made to the contractor in connection with his obligations under this contract, will attempt to resolve such complaints, and will take appropriate corrective action within a reasonable time. If the investigation indicates that the discrimination may affect persons other than the complainant, such corrective action shall include such other persons. Upon completion of each investigation, the contractor will inform every complainant of all of his avenues of appeal.

6. **Training and Promotion:**

a. The contractor will assist in locating, qualifying, and increasing the skills of minority group and women employees, and applicants for employment.

b. Consistent with the contractor's work force requirements and as permissible under Federal and State regulations, the contractor shall make full use of training programs, i.e., apprenticeship, and on-the-job training programs for the geographical area of contract performance. Where feasible, 25 percent of apprentices or trainees in each occupation shall be in their first year of apprenticeship or training. In the event a special provision for training is provided under this contract, this subparagraph will be superseded as indicated in the special provision.

c. The contractor will advise employees and applicants for employment of available training programs and entrance requirements for each.

d. The contractor will periodically review the training and promotion potential of minority group and women employees and will encourage eligible employees to apply for such training and promotion.

7. **Unions:** If the contractor relies in whole or in part upon unions as a source of employees, the contractor will use his/her best efforts to obtain the cooperation of such unions to increase opportunities for minority groups and women within the unions, and to effect referrals by such unions of minority and female employees. Actions by the contractor either directly or through a contractor's association acting as agent will include the procedures set forth below:

a. The contractor will use best efforts to develop, in cooperation with the unions, joint training programs aimed toward qualifying more minority group members and women for membership in the unions and increasing the skills of minority group employees and women so that they may qualify for higher paying employment.

b. The contractor will use best efforts to incorporate an EEO clause into each union agreement to the end that such union will be contractually bound to refer applicants without regard to their race, color, religion, sex, national origin, age or disability.

c. The contractor is to obtain information as to the referral practices and policies of the labor union except that to the extent such information is within the exclusive possession of the labor union and such labor union refuses to furnish such information to the contractor, the contractor shall so certify to the SHA and shall set forth what efforts have been made to obtain such information.

d. In the event the union is unable to provide the contractor with a reasonable flow of minority and women referrals within the time limit set forth in the collective bargaining agreement, the contractor will, through independent recruitment efforts, fill the employment vacancies without regard to race, color, religion, sex, national origin, age or disability; making full efforts to obtain qualified and/or qualifiable minority group persons and women. (The DOL has held that it shall be no excuse that the union with which the contractor has a collective bargaining agreement providing for exclusive referral failed to refer minority employees.) In the event the union referral practice prevents the contractor from meeting the obligations pursuant to Executive Order 11246, as amended, and these special provisions, such contractor shall immediately notify the SHA.

8. **Selection of Subcontractors, Procurement of Materials and Leasing of Equipment:** The contractor shall not discriminate on the grounds of race, color, religion, sex, national origin, age or disability in the selection and retention of subcontractors, including procurement of materials and leases of equipment.

a. The contractor shall notify all potential subcontractors and suppliers of his/her EEO obligations under this contract.

b. Disadvantaged business enterprises (DBE), as defined in 49 CFR 23, shall have equal opportunity to compete for and perform subcontracts which the contractor enters into pursuant to this contract. The contractor will use his best efforts to solicit bids from and to utilize DBE subcontractors or subcontractors with meaningful minority group and female representation among their employees. Contractors shall obtain lists of DBE construction firms from SHA personnel.

c. The contractor will use his best efforts to ensure subcontractor compliance with their EEO obligations.

9. **Records and Reports:** The contractor shall keep such records as necessary to document compliance with the EEO requirements. Such records shall be retained for a period of three years following completion of the contract work and shall be available at reasonable times and places for inspection by authorized representatives of the SHA and the FHWA.

a. The records kept by the contractor shall document the following:

(1) The number of minority and non-minority group members and women employed in each work classification on the project;

(2) The progress and efforts being made in cooperation with unions, when applicable, to increase employment opportunities for minorities and women;

(3) The progress and efforts being made in locating, hiring, training, qualifying, and upgrading minority and female employees; and

(4) The progress and efforts being made in securing the services of DBE subcontractors or subcontractors with meaningful minority and female representation among their employees.

b. The contractors will submit an annual report to the SHA each July for the duration of the project, indicating the number of minority, women, and non-minority group employees currently engaged in each work classification required by the contract work. This information is to be reported on Form FHWA-1391. If on-the-job training is being required by special provision, the contractor will be required to collect and report training data.

III. NONSEGREGATED FACILITIES

(Applicable to all Federal-aid construction contracts and to all related subcontracts of $10,000 or more.)

a. By submission of this bid, the execution of this contract or subcontract, or the consummation of this material supply agreement or purchase order, as appropriate, the bidder, Federal-aid construction contractor, subcontractor, material supplier, or vendor, as appropriate, certifies that the firm does not maintain or provide for its employees any segregated facilities at any of its establishments, and that the firm does not permit its employees to perform their services at any location, under its control, where segregated facilities are maintained. The firm agrees that a breach of this certification is a violation of the EEO provisions of this contract. The firm further certifies that no employee will be denied access to adequate facilities on the basis of sex or disability.

b. As used in this certification, the term "segregated facilities" means any waiting rooms, work areas, restrooms and washrooms, restaurants and other eating areas, timeclocks, locker rooms, and other storage or dressing areas, parking lots, drinking fountains, recreation or entertainment areas, transportation, and housing facilities provided for employees which are segregated by explicit directive, or are, in fact, segregated on the basis of race, color, religion, national origin, age or disability, because of habit, local custom, or otherwise. The only exception will be for the disabled when the demands for accessibility override (e.g. disabled parking).

c. The contractor agrees that it has obtained or will obtain identical certification from proposed subcontractors or material suppliers prior to award of subcontracts or consummation of material supply agreements of $10,000 or more and that it will retain such certifications in its files.

IV. PAYMENT OF PREDETERMINED MINIMUM WAGE

(Applicable to all Federal-aid construction contracts exceeding $2,000 and to all related subcontracts, except for projects located on roadways classified as local roads or rural minor collectors, which are exempt.)

1. **General:**

a. All mechanics and laborers employed or working upon the site of the work will be paid unconditionally and not less often than once a week and without subsequent deduction or rebate on any

account [except such payroll deductions as are permitted by regulations (29 CFR 3) issued by the Secretary of Labor under the Copeland Act (40 U.S.C. 276c)] the full amounts of wages and bona fide fringe benefits (or cash equivalents thereof) due at time of payment. The payment shall be computed at wage rates not less than those contained in the wage determination of the Secretary of Labor (hereinafter "the wage determination") which is attached hereto and made a part hereof, regardless of any contractual relationship which may be alleged to exist between the contractor or its subcontractors and such laborers and mechanics. The wage determination (including any additional classifications and wage rates conformed under paragraph 2 of this Section IV and the DOL poster (WH-1321) or Form FHWA-1495) shall be posted at all times by the contractor and its subcontractors at the site of the work in a prominent and accessible place where it can be easily seen by the workers. For the purpose of this Section, contributions made or costs reasonably anticipated for bona fide fringe benefits under Section 1(b)(2) of the Davis-Bacon Act (40 U.S.C. 276a) on behalf of laborers or mechanics are considered wages paid to such laborers or mechanics, subject to the provisions of Section IV, paragraph 3b, hereof. Also, for the purpose of this Section, regular contributions made or costs incurred for more than a weekly period (but not less often than quarterly) under plans, funds, or programs, which cover the particular weekly period, are deemed to be constructively made or incurred during such weekly period. Such laborers and mechanics shall be paid the appropriate wage rate and fringe benefits on the wage determination for the classification of work actually performed, without regard to skill, except as provided in paragraphs 4 and 5 of this Section IV.

b. Laborers or mechanics performing work in more than one classification may be compensated at the rate specified for each classification for the time actually worked therein, provided, that the employer's payroll records accurately set forth the time spent in each classification in which work is performed.

c. All rulings and interpretations of the Davis-Bacon Act and related acts contained in 29 CFR 1, 3, and 5 are herein incorporated by reference in this contract.

2. **Classification:**

a. The SHA contracting officer shall require that any class of laborers or mechanics employed under the contract, which is not listed in the wage determination, shall be classified in conformance with the wage determination.

b. The contracting officer shall approve an additional classification, wage rate and fringe benefits only when the following criteria have been met:

(1) the work to be performed by the additional classification requested is not performed by a classification in the wage determination;

(2) the additional classification is utilized in the area by the construction industry;

(3) the proposed wage rate, including any bona fide fringe benefits, bears a reasonable relationship to the wage rates contained in the wage determination.

(4) with respect to helpers, when such a classification prevails in the area in which the work is performed.

c. If the contractor or subcontractors, as appropriate, the laborers and mechanics (if known) to be employed in the additional classification or their representatives, and the contracting officer agree on the classification and wage rate (including the amount designated for fringe benefits where appropriate), a report of the action taken shall be sent by the contracting officer to the DOL, Administrator of the Wage and Hour Division, Employment Standards Administration, Washington, D.C. 20210. The Wage and Hour Administrator, or an authorized representative, will approve, modify, or disapprove every additional classification action within 30 days of receipt and so advise the contracting officer or will notify the contracting officer within the 30-day period that additional time is necessary.

d. In the event the contractor or subcontractors, as appropriate, the laborers or mechanics to be employed in the additional classification or their representatives, and the contracting officer do not agree on the proposed classification and wage rate (including the amount designated for fringe benefits, where appropriate), the contracting officer shall refer the questions, including the views of all interested parties and the recommendation of the contracting officer, to the Wage and Hour Administrator for determination. Said Administrator, or an authorized representative, will issue a determination within 30 days of receipt and so advise the contracting officer or will notify the contracting officer within the 30-day period that additional time is necessary

e. The wage rate (including fringe benefits where appropriate) determined pursuant to paragraph 2c or 2d of this Section IV shall be paid to all workers performing work in the additional classification from the first day on which work is performed in the classification.

3. **Payment of Fringe Benefits:**

a. Whenever the minimum wage rate prescribed in the contract for a class of laborers or mechanics includes a fringe benefit which is not expressed as an hourly rate, the contractor or subcontractors, as appropriate, shall either pay the benefit as stated in the wage determination or shall pay another bona fide fringe benefit or an hourly case equivalent thereof.

b. If the contractor or subcontractor, as appropriate, does not make payments to a trustee or other third person, he/she may consider as a part of the wages of any laborer or mechanic the amount of any costs reasonably anticipated in providing bona fide fringe benefits under a plan or program, provided, that the Secretary of Labor has found, upon the written request of the contractor, that the applicable standards of the Davis-Bacon Act have been met. The Secretary of Labor may require the contractor to set aside in a separate account assets for the meeting of obligations under the plan or program.

4. **Apprentices and Trainees (Programs of the U.S. DOL) and Helpers:**

a. *Apprentices:*

(1) Apprentices will be permitted to work at less than the predetermined rate for the work they performed when they are employed pursuant to and individually registered in a bona fide apprenticeship program registered with the DOL, Employment and Training Administration, Bureau of Apprenticeship and Training, or with a State apprenticeship agency recognized by the Bureau, or if a person is employed in his/her first 90 days of probationary employment as an apprentice in such an apprenticeship program, who is not individually registered in the program, but who has been certified by the Bureau of Apprenticeship and Training or a State

apprenticeship agency (where appropriate) to be eligible for probationary employment as an apprentice.

(2) The allowable ratio of apprentices to journeyman-level employees on the job site in any craft classification shall not be greater than the ratio permitted to the contractor as to the entire work force under the registered program. Any employee listed on a payroll at an apprentice wage rate, who is not registered or otherwise employed as stated above, shall be paid not less than the applicable wage rate listed in the wage determination for the classification of work actually performed. In addition, any apprentice performing work on the job site in excess of the ratio permitted under the registered program shall be paid not less than the applicable wage rate on the wage determination for the work actually performed. Where a contractor or subcontractor is performing construction on a project in a locality other than that in which its program is registered, the ratios and wage rates (expressed in percentages of the journeyman-level hourly rate) specified in the contractor's or subcontractor's registered program shall be observed.

(3) Every apprentice must be paid at not less than the rate specified in the registered program for the apprentice's level of progress, expressed as a percentage of the journeyman-level hourly rate specified in the applicable wage determination. Apprentices shall be paid fringe benefits in accordance with the provisions of the apprenticeship program. If the apprenticeship program does not specify fringe benefits, apprentices must be paid the full amount of fringe benefits listed on the wage determination for the applicable classification. If the Administrator for the Wage and Hour Division determines that a different practice prevails for the applicable apprentice classification, fringes shall be paid in accordance with that determination.

(4) In the event the Bureau of Apprenticeship and Training, or a State apprenticeship agency recognized by the Bureau, withdraws approval of an apprenticeship program, the contractor or subcontractor will no longer be permitted to utilize apprentices at less than the applicable predetermined rate for the comparable work performed by regular employees until an acceptable program is approved.

b. *Trainees:*

(1) Except as provided in 29 CFR 5.16, trainees will not be permitted to work at less than the predetermined rate for the work performed unless they are employed pursuant to and individually registered in a program which has received prior approval, evidenced by formal certification by the DOL, Employment and Training Administration.

(2) The ratio of trainees to journeyman-level employees on the job site shall not be greater than permitted under the plan approved by the Employment and Training Administration. Any employee listed on the payroll at a trainee rate who is not registered and participating in a training plan approved by the Employment and Training Administration shall be paid not less than the applicable wage rate on the wage determination for the classification of work actually performed. In addition, any trainee performing work on the job site in excess of the ratio permitted under the registered program shall be paid not less than the applicable wage rate on the wage determination for the work actually performed.

(3) Every trainee must be paid at not less than the rate specified in the approved program for his/her level of progress, expressed as a percentage of the journeyman-level hourly rate specified in the applicable wage determination. Trainees shall be paid fringe benefits in accordance with the provisions of the trainee program. If the trainee program does not mention fringe benefits, trainees shall be paid the full amount of fringe benefits listed on the wage determination unless the Administrator of the Wage and Hour Division determines that there is an apprenticeship program associated with the corresponding journeyman-level wage rate on the wage determination which provides for less than full fringe benefits for apprentices, in which case such trainees shall receive the same fringe benefits as apprentices.

(4) In the event the Employment and Training Administration withdraws approval of a training program, the contractor or subcontractor will no longer be permitted to utilize trainees at less than the applicable predetermined rate for the work performed until an acceptable program is approved.

c. *Helpers*:

Helpers will be permitted to work on a project if the helper classification is specified and defined on the applicable wage determination or is approved pursuant to the conformance procedure set forth in Section IV.2. Any worker listed on a payroll at a helper wage rate, who is not a helper under a approved definition, shall be paid not less than the applicable wage rate on the wage determination for the classification of work actually performed.

5. **Apprentices and Trainees (Programs of the U.S. DOT):**

Apprentices and trainees working under apprenticeship and skill training programs which have been certified by the Secretary of Transportation as promoting EEO in connection with Federal-aid highway construction programs are not subject to the requirements of paragraph 4 of this Section IV. The straight time hourly wage rates for apprentices and trainees under such programs will be established by the particular programs. The ratio of apprentices and trainees to journeymen shall not be greater than permitted by the terms of the particular program.

6. **Withholding:**

The SHA shall upon its own action or upon written request of an authorized representative of the DOL withhold, or cause to be withheld, from the contractor or subcontractor under this contract or any other Federal contract with the same prime contractor, or any other Federally-assisted contract subject to Davis-Bacon prevailing wage requirements which is held by the same prime contractor, as much of the accrued payments or advances as may be considered necessary to pay laborers and mechanics, including apprentices, trainees, and helpers, employed by the contractor or any subcontractor the full amount of wages required by the contract. In the event of failure to pay any laborer or mechanic, including any apprentice, trainee, or helper employed or working on the site of the work, all or part of the wages required by the contract, the SHA contracting officer may, after written notice to the contractor, take such action as may be necessary to cause the suspension of any further payment, advance, or guarantee of funds until such violations have ceased.

7. **Overtime Requirements:**

No contractor or subcontractor contracting for any part of the contract work which may require or involve the employment of laborers, mechanics, watchmen, or guards (including apprentices, trainees, and helpers described in paragraphs 4 and 5 above) shall require or permit any laborer, mechanic, watchman, or guard in any workweek in which he/she is employed on such work, to work in excess of 40 hours in such workweek unless such laborer, mechanic, watchman, or guard receives compensation at a rate not less than

one-and-one-half times his/her basic rate of pay for all hours worked in excess of 40 hours in such workweek.

8. **Violation:**

Liability for Unpaid Wages; Liquidated Damages: In the event of any violation of the clause set forth in paragraph 7 above, the contractor and any subcontractor responsible thereof shall be liable to the affected employee for his/her 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, mechanic, watchman, or guard employed in violation of the clause set forth in paragraph 7, in the sum of $10 for each calendar day on which such employee was required or permitted to work in excess of the standard work week of 40 hours without payment of the overtime wages required by the clause set forth in paragraph 7.

9. **Withholding for Unpaid Wages and Liquidated Damages:**

The SHA shall upon its own action or upon written request of any authorized representative of the DOL withhold, or cause to be withheld, from any monies 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 8 above.

V. STATEMENTS AND PAYROLLS

(Applicable to all Federal-aid construction contracts exceeding $2,000 and to all related subcontracts, except for projects located on roadways classified as local roads or rural collectors, which are exempt.)

1. **Compliance with Copeland Regulations (29 CFR 3):**

The contractor shall comply with the Copeland Regulations of the Secretary of Labor which are herein incorporated by reference.

2. **Payrolls and Payroll Records:**

a. Payrolls and basic records relating thereto shall be maintained by the contractor and each subcontractor during the course of the work and preserved for a period of 3 years from the date of completion of the contract for all laborers, mechanics, apprentices, trainees, watchmen, helpers, and guards working at the site of the work.

b. The payroll records shall contain the name, social security number, and address of each such employee; his or her correct classification; hourly rates of wages paid (including rates of contributions or costs anticipated for bona fide fringe benefits or cash equivalent thereof the types described in Section 1(b)(2)(B) of the Davis Bacon Act); daily and weekly number of hours worked; deductions made; and actual wages paid. In addition, for Appalachian contracts, the payroll records shall contain a notation indicating whether the employee does, or does not, normally reside in the labor area as defined in Attachment A, paragraph 1. Whenever the Secretary of Labor, pursuant to Section IV, paragraph 3b, has found that the wages of any laborer or mechanic include the amount of any costs reasonably anticipated in providing benefits under a plan or program described in Section 1(b)(2)(B) of the Davis Bacon Act, the contractor and each subcontractor shall maintain records which show that the commitment to provide such benefits is enforceable, that the plan or program is financially responsible, that the plan or program has been communicated in writing to the laborers or mechanics affected, and show the cost anticipated or the actual cost incurred in providing benefits. Contractors or subcontractors employing apprentices or trainees under approved programs shall maintain written evidence of the registration of apprentices and trainees, and ratios and wage rates prescribed in the applicable programs.

c. Each contractor and subcontractor shall furnish, each week in which any contract work is performed, to the SHA resident engineer a payroll of wages paid each of its employees (including apprentices, trainees, and helpers described in Section IV, paragraphs 4 and 5, and watchmen and guards engaged on work during the preceding weekly payroll period). The payroll submitted shall set out accurately and completely all of the information required to be maintained under paragraph 2b of this Section V. This information may be submitted in any form desired. Optional Form WH-347 is available for this purpose and may be purchased from the Superintendent of Documents (Federal stock number 029-005-0014-1), U.S. Government Printing Office, Washington, D.C. 20402. The prime contractor is responsible for the submission of copies of payrolls by all subcontractors.

d. Each payroll submitted shall be accompanied by a "Statement of Compliance," signed by the contractor or subcontractor or his/her agent who pays or supervises the payment of the persons employed under the contract and shall certify the following:

(1) that the payroll for the payroll period contains the information required to be maintained under paragraph 2b of this Section V and that such information is correct and complete;

(2) that such laborer or mechanic (including each apprentice, trainee, and helper) employed on the contract during the payroll period has been paid the full weekly wages earned, without rebate, either directly or indirectly, and that no deductions have been made either directly or indirectly from the full wages earned, other than permissible deductions as set forth in the Regulations, 29 CFR 3;

(3) that each laborer or mechanic has been paid not less that the applicable wage rate and fringe benefits or cash equivalent for the classification of worked performed, as specified in the applicable wage determination incorporated into the contract.

e. The weekly submission of a properly executed certification set forth on the reverse side of Optional Form WH-347 shall satisfy the requirement for submission of the "Statement of Compliance" required by paragraph 2d of this Section V.

f. The falsification of any of the above certifications may subject the contractor to civil or criminal prosecution under 18 U.S.C. 1001 and 31 U.S.C. 231.

g. The contractor or subcontractor shall make the records required under paragraph 2b of this Section V available for inspection, copying, or transcription by authorized representatives of the SHA, the FHWA, or the DOL, and shall permit such representatives to interview employees during working hours on the job. If the contractor or subcontractor fails to submit the required records or to make them available, the SHA, the FHWA, the DOL, or all

may, after written notice to the contractor, sponsor, applicant, or owner, take such actions as may be necessary to cause the suspension of any further payment, advance, or guarantee of funds. Furthermore, failure to submit the required records upon request or to make such records available may be grounds for debarment action pursuant to 29 CFR 5.12.

VI. RECORD OF MATERIALS, SUPPLIES, AND LABOR

1. On all Federal-aid contracts on the National Highway System, except those which provide solely for the installation of protective devices at railroad grade crossings, those which are constructed on a force account or direct labor basis, highway beautification contracts, and contracts for which the total final construction cost for roadway and bridge is less than $1,000,000 (23 CFR 635) the contractor shall:

a. Become familiar with the list of specific materials and supplies contained in Form FHWA-47, "Statement of Materials and Labor Used by Contractor of Highway Construction Involving Federal Funds," prior to the commencement of work under this contract.

b. Maintain a record of the total cost of all materials and supplies purchased for and incorporated in the work, and also of the quantities of those specific materials and supplies listed on Form FHWA-47, and in the units shown on Form FHWA-47.

c. Furnish, upon the completion of the contract, to the SHA resident engineer on Form FHWA-47 together with the data required in paragraph 1b relative to materials and supplies, a final labor summary of all contract work indicating the total hours worked and the total amount earned.

2. At the prime contractor's option, either a single report covering all contract work or separate reports for the contractor and for each subcontract shall be submitted.

VII. SUBLETTING OR ASSIGNING THE CONTRACT

1. The contractor shall perform with its own organization contract work amounting to not less than 30 percent (or a greater percentage if specified elsewhere in the contract) of the total original contract price, excluding any specialty items designated by the State. Specialty items may be performed by subcontract and the amount of any such specialty items performed may be deducted from the total original contract price before computing the amount of work required to be performed by the contractor's own organization (23 CFR 635).

a. "Its own organization" shall be construed to include only workers employed and paid directly by the prime contractor and equipment owned or rented by the prime contractor, with or without operators. Such term does not include employees or equipment of a subcontractor, assignee, or agent of the prime contractor.

b. "Specialty Items" shall be construed to be limited to work that requires highly specialized knowledge, abilities, or equipment not ordinarily available in the type of contracting organizations qualified and expected to bid on the contract as a whole and in general are to be limited to minor components of the overall contract.

2. The contract amount upon which the requirements set forth in paragraph 1 of Section VII is computed includes the cost of material and manufactured products which are to be purchased or produced by the contractor under the contract provisions.

3. The contractor shall furnish (a) a competent superintendent or supervisor who is employed by the firm, has full authority to direct performance of the work in accordance with the contract requirements, and is in charge of all construction operations (regardless of who performs the work) and (b) such other of its own organizational resources (supervision, management, and engineering services) as the SHA contracting officer determines is necessary to assure the performance of the contract.

4. No portion of the contract shall be sublet, assigned or otherwise disposed of except with the written consent of the SHA contracting officer, or authorized representative, and such consent when given shall not be construed to relieve the contractor of any responsibility for the fulfillment of the contract. Written consent will be given only after the SHA has assured that each subcontract is evidenced in writing and that it contains all pertinent provisions and requirements of the prime contract.

VIII. SAFETY: ACCIDENT PREVENTION

1. In the performance of this contract the contractor shall comply with all applicable Federal, State, and local laws governing safety, health, and sanitation (23 CFR 635). The contractor shall provide all safeguards, safety devices and protective equipment and take any other needed actions as it determines, or as the SHA contracting officer may determine, to be reasonably necessary to protect the life and health of employees on the job and the safety of the public and to protect property in connection with the performance of the work covered by the contract.

2. It is a condition of this contract, and shall be made a condition of each subcontract, which the contractor enters into pursuant to this contract, that the contractor and any subcontractor shall not permit any employee, in performance of the contract, to work in surroundings or under conditions which are unsanitary, hazardous or dangerous to his/her health or safety, as determined under construction safety and health standards (29 CFR 1926) promulgated by the Secretary of Labor, in accordance with Section 107 of the Contract Work Hours and Safety Standards Act (40 U.S.C. 333).

3. Pursuant to 29 CFR 1926.3, it is a condition of this contract that the Secretary of Labor or authorized representative thereof, shall have right of entry to any site of contract performance to inspect or investigate the matter of compliance with the construction safety and health standards and to carry out the duties of the Secretary under Section 107 of the Contract Work Hours and Safety Standards Act (40 U.S.C. 333).

IX. FALSE STATEMENTS CONCERNING HIGHWAY PROJECTS

In order to assure high quality and durable construction in conformity with approved plans and specifications and a high degree of reliability on statements and representations made by engineers, contractors, suppliers, and workers on Federal-aid highway projects, it is essential that all persons concerned with the project perform their functions as carefully, thoroughly, and honestly as possible. Willful falsification, distortion, or misrepresentation with respect to any facts related to the project is a violation of Federal law. To prevent any misunderstanding regarding the seriousness of these and

similar acts, the following notice shall be posted on each Federal-aid highway project (23 CFR 635) in one or more places where it is readily available to all persons concerned with the project:

Notice to all Personnel engaged on Federal-Aid Highway Projects

18 U.S.C. 1020 reads as follows:

"Whoever, being an officer, agent, or employee of the United States, or of any State or Territory, or whoever, whether a person, association, firm, or corporation, knowingly makes any false statement, false representation, or false report as to the character, quality, quantity, or cost of the material used or to be used, or the quantity or quality of the work performed or to be performed, or the cost thereof in connection with the submission of plans, maps, specifications, contracts, or costs of construction on any highway or related project submitted for approval to the Secretary of Transportation; or

Whoever knowingly makes any false statement, false representation, false report or false claim with respect to the character, quality, quantity, or cost of any work performed or to be performed, or materials furnished or to be furnished, in connection with the construction of any highway or related project approved by the Secretary of Transportation; or

Whoever knowingly makes any false statement or false representation as to material fact in any statement, certificate, or report submitted pursuant to provisions of the Federal-aid Roads Act approved July 1, 1916, (39 Stat. 355), as amended and supplemented;

Shall be fined not more that $10,000 or imprisoned not more than 5 years or both."

X. IMPLEMENTATION OF CLEAN AIR ACT AND FEDERAL WATER POLLUTION CONTROL ACT

(Applicable to all Federal-aid construction contracts and to all related subcontracts of $100,000 or more.)

By submission of this bid or the execution of this contract, or subcontract, as appropriate, the bidder, Federal-aid construction contractor, or subcontractor, as appropriate, will be deemed to have stipulated as follows:

1. That any facility that is or will be utilized in the performance of this contract, unless such contract is exempt under the Clean Air Act, as amended (42 U.S.C. 1857 et seq., as amended by Pub.L. 92-604), and under the Federal Water Pollution Control Act, as amended (33 U.S.C. 1251 et seq., as amended by Pub.L. 92-500), Executive Order 11738, and regulations in implementation thereof (40 CFR 15) is not listed, on the date of contract award, on the U.S. Environmental Protection Agency (EPA) List of Violating Facilities pursuant to 40 CFR 15.20.

2. That the firm agrees to comply and remain in compliance with all the requirements of Section 114 of the Clean Air Act and Section 308 of the Federal Water Pollution Control Act and all regulations and guidelines listed thereunder.

3. That the firm shall promptly notify the SHA of the receipt of any communication from the Director, Office of Federal Activities, EPA, indicating that a facility that is or will be utilized for the contract is under consideration to be listed on the EPA List of Violating Facilities.

4. That the firm agrees to include or cause to be included the requirements of paragraph 1 through 4 of this Section X in every nonexempt subcontract, and further agrees to take such action as the government may direct as a means of enforcing such requirements.

XI. CERTIFICATION REGARDING DEBARMENT, SUSPENSION, INELIGIBILITY AND VOLUNTARY EXCLUSION

1. **Instructions for Certification - Primary Covered Transactions:** (Applicable to all Federal-aid contracts - 49 CFR 29)

a. By signing and submitting this proposal, the prospective primary participant is providing the certification set out below.

b. The inability of a person to provide the certification set out below will not necessarily result in denial of participation in this covered transaction. The prospective participant shall submit an explanation of why it cannot provide the certification set out below. The certification or explanation will be considered in connection with the department or agency's determination whether to enter into this transaction. However, failure of the prospective primary participant to furnish a certification or an explanation shall disqualify such a person from participation in this transaction.

c. The certification in this clause is a material representation of fact upon which reliance was placed when the department or agency determined to enter into this transaction. If it is later determined that the prospective primary participant knowingly rendered an erroneous certification, in addition to other remedies available to the Federal Government, the department or agency may terminate this transaction for cause of default.

d. The prospective primary participant shall provide immediate written notice to the department or agency to whom this proposal is submitted if any time the prospective primary participant learns that its certification was erroneous when submitted or has become erroneous by reason of changed circumstances.

e. The terms "covered transaction," "debarred," "suspended," "ineligible," "lower tier covered transaction," "participant," "person," "primary covered transaction," "principal," "proposal," and "voluntarily excluded," as used in this clause, have the meanings set out in the Definitions and Coverage sections of rules implementing Executive Order 12549. You may contact the department or agency to which this proposal is submitted for assistance in obtaining a copy of those regulations.

f. The prospective primary participant agrees by submitting this proposal that, should the proposed covered transaction be entered into, it shall not knowingly enter into any lower tier covered transaction with a person who is debarred, suspended, declared ineligible, or voluntarily excluded from participation in this covered transaction, unless authorized by the department or agency entering into this transaction.

g. The prospective primary participant further agrees by submitting this proposal that it will include the clause titled "Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion-Lower Tier Covered Transaction," provided by the department or agency entering into this covered transaction, without modification, in all lower tier covered transactions and in all solicitations for lower tier covered transactions.

h. A participant in a covered transaction may rely upon a certification of a prospective participant in a lower tier covered

transaction that is not debarred, suspended, ineligible, or voluntarily excluded from the covered transaction, unless it knows that the certification is erroneous. A participant may decide the method and frequency by which it determines the eligibility of its principals. Each participant may, but is not required to, check the nonprocurement portion of the "Lists of Parties Excluded From Federal Procurement or Nonprocurement Programs" (Nonprocurement List) which is compiled by the General Services Administration.

i. Nothing contained in the foregoing shall be construed to require establishment of a system of records in order to render in good faith the certification required by this clause. The knowledge and information of participant is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealings.

j. Except for transactions authorized under paragraph f of these instructions, if a participant in a covered transaction knowingly enters into a lower tier covered transaction with a person who is suspended, debarred, ineligible, or voluntarily excluded from participation in this transaction, in addition to other remedies available to the Federal Government, the department or agency may terminate this transaction for cause or default.

* * * * *

Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion--Primary Covered Transactions

1. The prospective primary participant certifies to the best of its knowledge and belief, that it and its principals:

a. Are not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from covered transactions by any Federal department or agency;

b. Have not within a 3-year period preceding this proposal been convicted of or had a civil judgement rendered against them for commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public (Federal, State or local) transaction or contract under a public transaction; violation of Federal or State antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements, or receiving stolen property;

c. Are not presently indicted for or otherwise criminally or civilly charged by a governmental entity (Federal, State or local) with commission of any of the offenses enumerated in paragraph 1b of this certification; and

d. Have not within a 3-year period preceding this application/proposal had one or more public transactions (Federal, State or local) terminated for cause or default.

2. Where the prospective primary participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

* * * * *

2. **Instructions for Certification - Lower Tier Covered Transactions:** (Applicable to all subcontracts, purchase orders and other lower tier transactions of $25,000 or more - 49 CFR 29)

a. By signing and submitting this proposal, the prospective lower tier is providing the certification set out below.

b. The certification in this clause is a material representation of fact upon which reliance was placed when this transaction was entered into. If it is later determined that the prospective lower tier participant knowingly rendered an erroneous certification, in addition to other remedies available to the Federal Government, the department, or agency with which this transaction originated may pursue available remedies, including suspension and/or debarment.

c. The prospective lower tier participant shall provide immediate written notice to the person to which this proposal is submitted if at any time the prospective lower tier participant learns that its certification was erroneous by reason of changed circumstances.

d. The terms "covered transaction," "debarred," "suspended," "ineligible," "primary covered transaction," "participant," "person," "principal," "proposal," and "voluntarily excluded," as used in this clause, have the meanings set out in the Definitions and Coverage sections of rules implementing Executive Order 12549. You may contact the person to which this proposal is submitted for assistance in obtaining a copy of those regulations.

e. The prospective lower tier participant agrees by submitting this proposal that, should the proposed covered transaction be entered into, it shall not knowingly enter into any lower tier covered transaction with a person who is debarred, suspended, declared ineligible, or voluntarily excluded from participation in this covered transaction, unless authorized by the department or agency with which this transaction originated.

f. The prospective lower tier participant further agrees by submitting this proposal that it will include this clause titled "Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion-Lower Tier Covered Transaction," without modification, in all lower tier covered transactions and in all solicitations for lower tier covered transactions.

g. A participant in a covered transaction may rely upon a certification of a prospective participant in a lower tier covered transaction that is not debarred, suspended, ineligible, or voluntarily excluded from the covered transaction, unless it knows that the certification is erroneous. A participant may decide the method and frequency by which it determines the eligibility of its principals. Each participant may, but is not required to, check the Nonprocurement List.

h. Nothing contained in the foregoing shall be construed to require establishment of a system of records in order to render in good faith the certification required by this clause. The knowledge and information of participant is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealings.

i. Except for transactions authorized under paragraph e of these instructions, if a participant in a covered transaction knowingly enters into a lower tier covered transaction with a person who is suspended, debarred, ineligible, or voluntarily excluded from participation in this transaction, in addition to other remedies available to the Federal Government, the department or agency with which this transaction originated may pursue available remedies, including suspension and/or debarment.

* * * * *

Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion--Lower Tier Covered Transactions:

1. The prospective lower tier participant certifies, by submission of this proposal, that neither it nor its principals is presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participation in this transaction by any Federal department or agency.

2. Where the prospective lower tier participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

* * * * *

XII. CERTIFICATION REGARDING USE OF CONTRACT FUNDS FOR LOBBYING

(Applicable to all Federal-aid construction contracts and to all related subcontracts which exceed $100,000 - 49 CFR 20)

1. The prospective participant certifies, by signing and submitting this bid or proposal, to the best of his or her knowledge and belief, that:

a. 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 any Federal 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.

b. 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 Federal 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.

2. 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 31 U.S.C. 1352. 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.

3. The prospective participant also agrees by submitting his or her bid or proposal that he or she shall require that the language of this certification be included in all lower tier subcontracts, which exceed $100,000 and that all such recipients shall certify and disclose accordingly.

LOUISIANA
DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT

REQUIRED CONTRACT PROVISIONS
AMERICAN RECOVERY AND REINVESTMENT ACT OF 2009
(ARRA) CONSTRUCTION CONTRACTS

As required by Section 902 of the *AMERICAN RECOVERY AND REINVESTMENT ACT OF 2009*, the following contract provisions shall apply to all ARRA funded contracts. All prime contracts, subcontracts, and other contracts for services for an ARRA funded project must comply with the following:

Required Contract Provision to Implement ARRA Section 902:

Section 902 of the American Recovery and Reinvestment Act (ARRA) of 2009 requires that each contract awarded using ARRA funds must include a provision that provides the U.S. Comptroller General and his representatives with the authority to:

"(1) to examine any records of the contractor or any of its subcontractors, or any State or local agency administering such contract, that directly pertain to, and involve transactions relating to, the contract or subcontract; and

(2) to interview any officer or employee of the contractor or any of its subcontractors, or of any State or local government agency administering the contract, regarding such transactions."

Accordingly, the Comptroller General and his representatives shall have the authority and rights as provided under Section 902 of the ARRA with respect to this contract, which is funded with funds made available under the ARRA. Section 902 further states that nothing in this section shall be interpreted to limit or restrict in any way any existing authority of the Comptroller General.

Additionally, please be advised that Section 1515(a) of the ARRA provides as follows:

'(a) ACCESS. --With respect to each contract or grant awarded using covered funds, any representative of an appropriate inspector general appointed under section 3 or 8G of the Inspector General Act of 1978 (5 U.S.C. App.), is authorized –

(1) to examine any records of the contractor or grantee, any of its subcontractors or subgrantees, or any State or local agency administering such contract, that pertain to, and involve transactions relating to, the contract, subcontract, grant, or subgrant; and

(2) to interview any officer or employee of the contactor, grantee, subgrantee, or agency regarding such transactions.'"

Suggested Notification of the Authority of the Inspector General

Section 1515(a) of the ARRA provides authority for any representatives of the Inspector General to examine any records or interview any employee or officers working on this contract. The contractor is advised that representatives of the inspector general have the authority to examine any record and interview any employee or officer of the contractor, its subcontractors or other firms working on this contract. Section 1515(b) further provides that nothing in this section shall be interpreted to limit or restrict in any way any existing authority of an inspector general.

THE AMERICAN RECOVERY AND REINVESTMENT ACT OF 2009
REPORTING REQUIREMENTS

Federal Highway Administration
U.S. Department of Transportation
March 23, 2009

Monthly Employment Report (Form: FHWA – 1589)

This form is a guide for the States in providing employment information on each ARRA project. Monthly employment information on each ARRA project is used by States for meeting the reporting requirements of Sections 1201 and 1512. In order for States to fulfill their reporting obligations, the States must collect and analyze certain employment data for each ARRA funded contract. The data requirement in ARRA extends beyond the number of workers at the work site and, therefore, FHWA has produced a form for guidance to the States. This data to be reported is identified below and will be used by the States in developing Form 1587, which is to be submitted to FHWA. Since States may not currently collect this data, the States should develop a new specification for each ARRA-funded contract in order to obtain this information from contractors and consultants. In doing so, the States should use the provided model form and require the reporting of this data from the prime contractor or consultant. The prime contractor or consultant shall complete a report for each month from the date of the Notice to Proceed until completion of the contract or September, 2012 whichever occurs sooner. This report is only required for contracts that use ARRA funds. States should require contractors and consultants to provide the required information for their own workforce as well as the workforce of all subcontractors that were active on their ARRA funded project(s) for the reporting month. It will be up to each State to determine when they obtain the necessary data from their contractors or consultants, keeping in mind that the summary form is due from the State to the FHWA Division no later than the 20th day of each month for the preceding month's data.

It is the State DOT's responsibility to report the number of jobs on projects managed by funding recipients, such as other state agencies or local governments. The State DOT must make arrangements with each ARRA funding recipient to assure each recipient reports the required data in a timely manner.

The States shall require the following data be provided by each contractor, consultant and funding recipient working on an ARRA project. The primary contractor or consultant for each project shall be responsible for reporting their firm as well as all sub-contractors data.

Format: The State, contractors, or consultant may use the FHWA provided model form, but the use of the model form is optional and at the discretion of the State.

Due date: As determined by the State, until September 2012.

Due to: To be sent by each ARRA funded project prime contractor or consultant to the designated office in each State DOT or Federal Lands Division Office.

Coding Instructions

BOX 1. **Report Month:** The month and year covered by the report, as mm/yyyy (e.g. "May 2009" would be coded as "05/2009").

BOX 2. **Contracting agency:** The name of the contracting agency. Enter "State" for State DOT projects. For non-State projects, enter the name of the contracting agency (other State agency, Federal agency, tribe, MPO, city, county, or other funding recipient).

BOX 3. **Federal-aid project number:** The State assigned federal-aid project number, consistent with the format reported in FMIS.

BOX 4. **State project number or identification number:** The project number or ID, as assigned by the State of its funding recipient, consistent with the format reported in FMIS.

BOX 5. **Project location:** State where project occurs. If the project performed for Federal Lands, provide the FLH Division or Federal Land Managing Agency (FLMA) region.

BOX 6. **Contractor name and address:** The name and address of the contracting or consulting firm shall include the name, street address, city, state, and zip code.

BOX 7. **Contractor DUNS number:** The unique nine-digit number issued by Dun & Bradstreet. Followed by the optional 4 digit DUNS Plus number. Reported as "999999999.9999".

BOX 8. **Employment data:** The prime contractor or consultant will report the direct, on-the-project jobs for their workforce and the workforce of their sub-contractors active during the reporting month. These jobs data include employees actively engaged in projects who work on the jobsite, in the project office, in the home office or telework from a home or other alternative office location. This also includes any engineering personnel, inspectors, sampling and testing technicians, and lab technicians performing work directly in support of the ARRA funded project. This does not include material suppliers such as steel, culverts, guardrail, and tool suppliers. States should include in their reports all direct labor associated with the ARRA project such as design, construction, and inspection. The States reports should include their own project labor, including permanent, temporary, and contract project staff. States are asked not to include estimated indirect labor, such as material testing, material production or estimated macro-economic impacts. FHWA will be estimating all indirect labor based on the information provided in this form along with other FHWA data. The form requests specifically:

a. **Subcontractor name:** The name of each subcontractor or sub-consultant that was active on the project for the reporting month.

b. **Employees:** The number of project employees on the contractor's or consultant's workforce that month, and the number of project employees for each of the active subcontractors for the reporting month. Do not include material suppliers. Total field at bottom will be automatically calculated and reported as a whole number.

c. **Hours:** The total hours on the specified project for all employees reported on the contractor's or consultant's project workforce that month, and the total hours for all project employees reported for each of the active subcontractors that month. Total field at bottom will be automatically calculated and reported as a whole number.

d. **Payroll:** The total dollar amount of wages paid by the contractor or consultant that month for employees on the specified project, and the total dollar amount of wages paid by each of the active subcontractors that month. Payroll only includes wages and does not included overhead or indirect costs. Total field at bottom will be automatically calculated and will be rounded to the nearest whole dollar and reported as a whole number.

BOX 9. **Prepared by:**

a. **Name:** Indicate the person responsible for preparation of the form. By completing the form the person certifies that they are knowledgeable of the hours worked and employment status for all the employees. Contractors, consultants, and their subs are responsible to maintain data to support the employment form and make it available to the State should they request supporting materials.

b. **Date:** The date that the contractor completed the employment form. Reported as "mm/dd/yyyy." (e.g. "May 1, 2009" would be coded as "05/01/2009").

Monthly Employment Report (Form: FHWA-1589)

MONTHLY EMPLOYMENT REPORT
AMERICAN RECOVERY AND REINVESTMENT ACT

1. Report Month: (mm/yyyy)	2. Contracting Agency	
3. Federal-Aid Project Number	4. State Project Number or ID Number	5. Project Location: State, County or Federal Region
6. CONTRACTOR NAME AND ADDRESS Name: Address: City: State: Zip:		
7. Contractor/Subcontractor DUNS Number:		

8. Employment Data

	EMPLOYEES	HOURS	PAYROLL
Prime Contractor Direct, On-Project Jobs (see guidance for definitions)			
Subcontractor Direct, On-Project Jobs			
Subcontractor Name			
Prime and Subcontractor Totals	0	0	0.00

9. PREPARED BY CEO or Payroll Official:	DATE:
Name: Title:	

Form FHWA-1589

LOUISIANA
DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT

REQUIRED CONTRACT PROVISIONS FOR DBE PARTICIPATION IN FEDERAL AID CONSTRUCTION CONTRACTS (DBE GOAL PROJECT)

A. AUTHORITY AND DIRECTIVE: The Code of Federal Regulations, Title 49, Part 26 (49 CFR Part 26) as amended and the Louisiana Department of Transportation and Development's (DOTD) Disadvantaged Business Enterprise (DBE) Program are hereby made a part of and incorporated by this reference into this contract. Copies of these documents are available, upon request, from DOTD Compliance Programs Office, P. O. Box 94245, Baton Rouge, LA 70804-9245.

B. POLICY: It is the policy of the DOTD that it shall not discriminate on the basis of race, color, national origin, or sex in the award of any United States Department of Transportation (US DOT) financially assisted contracts or in the administration of its DBE program or the requirements of 49 CFR Part 26. The DOTD shall take all necessary and reasonable steps under 49 CFR Part 26 to ensure nondiscrimination in the award and administration of US DOT assisted contracts. The DBE program, as required by 49 CFR Part 26 and as approved by US DOT, is incorporated by reference in this agreement. Implementation of this program is a legal obligation and failure to carry out its terms shall be treated as a violation of this agreement. Upon notification of failure to carry out the approved DBE program, the US DOT may impose sanctions as provided for under 49 CFR Part 26 and may in appropriate cases, refer the matter for enforcement under 18 U.S.C. 1001 and/or the Program Fraud Civil Remedies Act of 1986 (31 U.S.C.3801 et seq.).

C. DBE OBLIGATION: The contractor, subrecipient 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 in the award and administration of US DOT assisted contracts. Failure by the 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 DOTD deems appropriate.

The preceding policy and DBE obligation shall apply to this contract and shall be included in the requirements of any subcontract. Failure to carry out the requirements set forth therein shall constitute a breach of contract and, after notification by DOTD, may result in termination of the contract, a deduction from the contract funds due or to become due the contractor or other such remedy as DOTD deems appropriate. The contractor is encouraged to use the services offered by banks in the community which are owned and controlled by minorities or women when feasible and beneficial. The term DBE is inclusive of women business enterprises (WBE) and all obligations applicable to DBE shall apply to firms certified and listed as WBE.

D. FAILURE TO COMPLY WITH DBE REQUIREMENTS: All contractors and subcontractors are hereby advised that failure to carry out the requirements set forth above shall constitute a breach of contract and, after notification by DOTD may result in rejection of the bid; termination of the contract; a deduction from the contract funds due or to become due the contractor; or other such remedy as DOTD deems appropriate. Failure to comply with the DBE requirements shall include but not be limited to failure to meet the established goal and/or failure to submit documentation of good faith efforts; failure to exert a reasonable good faith effort (as determined by DOTD) to meet established goals; and failure to realize the DBE participation set forth on approved Form CS-6AAA and attachments. Failure to submit Form CS-6AAA and attachments and/or reasonable good faith efforts' documentation within the specified time requirements will result in the Department taking the actions specified in Heading G(6) below. The utilization of DBE is in addition to all other equal opportunity requirements of the contract. The contractor shall include the provisions in Sections B, C and D of these provisions in subcontracts so that such provisions will be binding upon each subcontractor, regular dealer, manufacturer, consultant, or service agency.

E. ELIGIBILITY OF DBE: The DOTD has included as part of the solicitation of bids a current list containing the names of firms that have been certified as eligible to participate as DBE on US DOT assisted contracts. This list is not an endorsement of the quality of performance of the firm but is simply an acknowledgment of the firm's

eligibility as a DBE. This list indicates the project numbers and letting date for which this list is effective. Only DBE listed on this list may be utilized to meet the established DBE goal for these projects.

F. COUNTING DBE PARTICIPATION TOWARD DBE GOALS: DBE participation toward attainment of the goal will be credited on the basis of total subcontract prices agreed to between the contractor and subcontractors for the contract items or portions of items being sublet as reflected on Form CS-6AAA and attachments, in accordance with the DOTD DBE Program, and the following criteria.

(1) Credit will only be given for use of DBE that are certified by the Louisiana Unified Certification Program. Certification of DBE by other agencies is not recognized.

(2) The total value of subcontracts awarded for construction and services to an eligible DBE is counted toward the DBE goal provided the DBE performs a commercially useful function. The contractor is responsible for ensuring that the goal is met using DBE that perform a commercially useful function.

The contractor shall operate in a manner consistent with the guidelines set forth in the DOTD DBE Program. A commercially useful function is performed when a DBE is responsible for the execution of a distinct element of work by actually managing, supervising, and performing the work in accordance with standard industry practices except when such practices are inconsistent with 49 CFR Part 26 as amended, and the DOTD DBE Program, and when the DBE receives due compensation as agreed upon for the work performed. To determine whether a DBE is performing a commercially useful function, the DOTD shall evaluate the work subcontracted in accordance with the DOTD DBE Program, industry practices and other relevant factors. When an arrangement between the contractor and the DBE represents standard industry practice, if such arrangement erodes the ownership, control or independence of the DBE, or fails to meet the commercially useful function requirement, the contractor will not receive credit toward the goal.

(3) A DBE prime contractor may count only the contract amount toward DBE participation for work he/she actually performs and for which he/she is paid. Any subcontract amounts awarded to certified DBE by a DBE prime will also be credited toward DBE participation provided the DBE subcontractor performs a commercially useful function.

(4) A contractor may count toward the DBE goal 100 percent of verified delivery fees paid to a DBE trucker. The DBE trucker must manage and supervise the trucking operations with its own employees and use equipment owned by the DBE trucker. No credit will be counted for the purchase or sale of material hauled unless the DBE trucker is also a DOTD certified DBE supplier. No credit will be counted unless the DBE trucker is an approved subcontractor.

(5) A contractor may count toward the DBE goal that portion of the dollar value with a joint venture equal to the percentage of the ownership and control of the DBE partner in the joint venture. Such crediting is subject to a favorable DOTD review of the joint venture agreement to be furnished by the apparent low bidder before award of the contract. The joint venture agreement shall include a detailed breakdown of the following:

a. Contract responsibility of the DBE for specific items of work.

b. Capital participation by the DBE.

c. Specific equipment to be provided to the joint venture by the DBE.

d. Specific responsibilities of the DBE in the control of the joint venture.

e. Specific manpower and skills to be provided to the joint venture by the DBE.

f. Percentage distribution to the DBE of the projected profit or loss incurred by the joint venture.

(6) A contractor may count toward the DBE goal only expenditures for materials and supplies obtained from DBE suppliers and manufacturers in accordance with the following:

a. The DBE supplier assumes actual and contractual responsibility for the provision of materials and supplies.

b. The contractor may count 100 percent of expenditures made to a DBE manufacturer provided the DBE manufacturer operates or maintains a factory or establishment that produces on the premises the materials or supplies obtained by the contractor.

c. The contractor may count 60 percent of the expenditures to DBE suppliers who are regular dealers but not manufacturers, provided the DBE supplier performs a commercially useful function in the supply process including buying the materials or supplies, maintaining an inventory, and selling materials regularly to the public. Dealers in bulk items such as steel, cement, aggregates and petroleum products are not required to maintain items in stock, but they must own or operate distribution equipment. The DBE supplier shall be certified as such by DOTD.

d. A DBE may not assign or lease portions of its supply, manufactured product, or service agreement without the written approval of the DOTD.

(7) A contractor may count toward the DBE goal reasonable expenditures to DBE firms including fees and commissions charged for providing a bona fide service; fees charged for hauling materials unless the delivery service is provided by the manufacturer or regular dealer as defined above; and fees and commissions for providing any bonds or insurance specifically required for the performance of the contract.

(8) The contractor will not receive credit if the contractor makes direct payment to the material supplier. However, it may be permissible for a material supplier to invoice the contractor and DBE jointly and be paid by the contractor making remittance to the DBE firm and material supplier jointly. Prior approval by DOTD is required.

(9) The contractor will not receive credit toward the DBE goal for any subcontracting arrangement contrived to artificially inflate the DBE participation.

G. AWARD DOCUMENTATION AND PROCEDURE: This project has specific DBE goal requirements set forth in the Special Provision for DBE Participation in Federal Aid Construction Contracts. The bidder by signing this bid certifies that:

(1) The goal for DBE participation prescribed in the special provisions shall be met or exceeded and arrangements have been made with certified DBE or good faith efforts made to meet the goal will be demonstrated.

(2) Affirmative actions have been taken to seek out and consider DBE as potential subcontractors. Bidders shall contact DBE to solicit their interest, capability, and prices in sufficient time to allow them to respond effectively, and shall retain, on file, proper documentation to substantiate their good faith efforts.

(3) Form CS-6AAA and "Attachment to Form CS-6AAA" and, if necessary, documentation of good faith efforts shall be submitted within 10 business days following the opening of bids to the DOTD Compliance Programs Office. Submittals shall be personally delivered and date and time stamped into the DOTD Compliance Programs Office by the close of business, 10 business days after opening of bids; or mailed to the DOTD Compliance Programs Office by certified mail, return receipt requested and post marked by the 10th business day after the opening of bids. A business day is defined as a normal working day of DOTD.

Should a bidder protest or appeal any matter regarding the bidding or award of a contract in accordance with Subsection 102.13 of the 2006 Standard Specifications (Subsection 102.13 of the 2000 Louisiana Standard Specifications) after the scheduled time of bid opening, the Compliance Programs Section will immediately suspend the ten day requirement for submission of the CS-6AAA and Attachments until further notice and will notify all parties involved of the suspension. Once the protest has been resolved the

Compliance Programs Section will notify the low bidder and issue a date for submission of the CS-6AAA and Attachments.

All attachments to Form CS-6AAA shall include:

a. The names of DBE subcontractors that will actually participate in meeting the contract goal; and

b. A complete description of the work to be performed by the DBE including the specific items or portions of items of work, quantities, and unit price(s) of each item; and

c. The total dollar value of each item that can be credited toward the contract goal; and

d. Any assistance to be provided to the DBE; and

e. The original signature of each DBE and the contractor attesting that negotiations are in progress and that it is the intention of the parties to enter into a subcontract within 60 calendar days from the time the contract is finalized between the contractor and DOTD.

It shall be the bidder's responsibility to ascertain the certification status of designated DBEs. An extension of time for submittal of Form CS-6AAA and Attachments will not be granted beyond the stated time. Questionable technical points will be cleared with the DOTD Compliance Programs Office within the time period allowed. If the documentation required is not provided in the time and manner specified, DOTD will take the actions specified in Heading (6) below.

(4) If the apparent low bidder is not able to meet the DBE goal, the DBE firms that can meet a portion of the goal shall be listed on the form CS-6AAA. Form CS-6AAA and attachments shall be completed and submitted in accordance with Heading (3) above 10 business days after opening of bids. Form CS-6AAA shall indicate the DBE participation which has been secured along with documentation of good faith efforts. The apparent low bidder shall document and submit justification stating why the goal could not be met and demonstrate the good faith efforts as shown in Section J.

The DOTD's evaluation of good faith efforts in the pre-award stage will focus only on efforts made prior to submittal of the bid. For consideration, good faith efforts shall include the requirements listed in these provisions as well as other data the contractor feels is relevant.

(5) Form CS-6AAA and attachments, and documentation of good faith efforts, when appropriate, will be evaluated by DOTD in the selection of the lowest responsible bidder. The information provided shall be accurate and complete. The apparent low bidder's proposed attainment of the DBE goal and/or demonstration of good faith efforts will be considered in the award of the contract.

(6) An apparent low bidder's failure, neglect, or refusal to submit Form CS-6AAA and attachments committing to meet or exceed the DBE goal and/or documentation of good faith efforts, shall constitute just cause for forfeiture of the proposal guarantee and the DOTD rejecting the bid, pursuing award to the next lowest bidder, or re-advertising the project. The original apparent low bidder will not be allowed to bid on the project should readvertisement occur.

The apparent low bidder shall forfeit the proposal guarantee unless the bidder can show that the reason for not meeting the requirements given in these DBE Provisions was beyond the bidder's control. The DOTD DBE Oversight Committee will review the bidder's reasons for not meeting these DBE Provisions and will decide if the reasons are sufficient to allow return of the proposal guarantee.

(7) The bidder has the right to appeal the DOTD's findings and rulings to the DOTD Chief Engineer. The bidder may present information to clarify the previously submitted documentation. The decision rendered by the DOTD Chief Engineer will be administratively final. There shall be no appeal to the US DOT. If the DOTD Chief Engineer does not rule in favor of the original apparent low bidder, the new apparent low bidder shall submit, in detail, its subsequent proposed DBE participation within 14 calendar days after notification.

(8) Agreements between the bidder and the DBE, whereby the DBE agrees not to provide subcontracting quotations to other bidders, are prohibited.

H. POST AWARD COMPLIANCE

(1) If the contract is awarded on less than full DBE goal participation, such award will not relieve the contractor of the responsibility to continue exerting good faith efforts. The contractor shall submit documentation of good faith efforts with requests to sublet prior to approval of subcontracting work being performed on the project.

(2) The contractor shall establish a program which will effectively promote increased participation by DBE in the performance of contracts and subcontracts. The contractor shall also designate and make known to the DOTD a liaison officer who will be responsible for the administration of the contractor's DBE program.

(3) The contractor shall enter into subcontracts or written agreements with the DBE identified on Form CS-6AAA and attachments for the kind and amount of work specified. The subcontracting requirements of the contract will apply. The contractor shall submit copies of subcontracts or agreements with DBE to DOTD upon request.

(4) The contractor shall keep each DBE informed of the construction progress schedule and allow each DBE adequate time to schedule work, stockpile materials, and otherwise prepare for the subcontract work.

(5) At any point during the project when it appears that the scheduled amount of DBE participation may not be achieved, the contractor shall provide evidence demonstrating how the goal will be met.

(6) If the contractor is unable to demonstrate to the DOTD's satisfaction that it failed to achieve the scheduled DBE participation due to reasons other than quantitative underruns or elimination of items contracted to DBE and that good faith efforts have been used to obtain the scheduled contract participation, the DOTD may withhold an amount equal to the difference between the DBE goal and the actual DBE participation achieved as damages.

(7) When the DOTD has reason to believe the contractor, subcontractor, or DBE may not be operating in compliance with the terms of these DBE provisions, to include, but not be limited to the encouragement of fronting, brokering, or not providing a commercially useful function, the DOTD will conduct an investigation of such activities with the cooperation of the parties involved. If the DOTD finds that any person or entity is not in compliance, the DOTD will notify such person or entity in writing as to the specific instances or matters found to be in noncompliance.

At the option of the DOTD, the person or entity may be allowed a specified time to correct the deficiencies noted and to achieve compliance. In the event that the person or entity cannot achieve compliance, or fails or refuses to do so, the DOTD reserves the right to initiate administrative action against the contractor which may include but not be limited to terminating the contract; withholding a percentage of the contractor's next partial payment equal to the shortfall amount until corrective action is taken; or other action the DOTD deems appropriate. The contractor has the right to appeal the DOTD's finding and rulings to the DOTD Chief Engineer.

The contractor may present additional information to clarify that previously submitted. Any new information not included in the original submittal will not be used in the final determination. The decision rendered by the DOTD Chief Engineer will be administratively final.

(8) To ensure that the obligations under subcontracts awarded to subcontractors are met, the DOTD will review the contractor's efforts to promptly pay subcontractors for work performed in accordance with the executed subcontracts. The contractor shall promptly pay subcontractors and suppliers, including DBE, their respective subcontract amount within 14 calendar days after the contractor receives payment from DOTD for the items satisfactorily performed by the subcontractors in accordance with Louisiana Revised Statute 9:2784. The contractor shall provide the DBE with a full accounting to include quantities paid and

deductions made from the DBE's partial payment at the time the check is delivered. Retainage may not be held by the contractor. Delay or postponement of payment to the subcontractor may be imposed by the contractor only when there is evidence that the subcontractor has failed to pay its labor force and suppliers for materials received and used on the project. Delay or postponement of payment must have written approval by the Project Engineer. Failure to promptly pay subcontractors or to release subcontractors' retainage shall constitute a breach of contract and after notification by the DOTD may result in (1) a deduction from the contract funds due or to become due the contractor, (2) disqualification of a contractor as non-responsive, or (3) any other such remedy under the contract as DOTD deems appropriate. All subcontracting agreements made by the contractor shall include the current payment to subcontractors provisions as incorporate in the contract. All disputes between contractors and subcontractors relating to payment of completed work or retainage shall be referred to the DBE Oversight Committee. Members of the DBE Oversight Committee are: the Deputy Chief Engineer,; the DOTD Compliance Programs Director; and a FHWA Division Representative.

(9) The contractor shall meet the requirements of Subsection 108.01 Subletting of Contract, and shall submit DOTD Forms OMF-1A, Request to Sublet and OMF-2A, Subcontractor's EEO Certification. These forms shall be approved by DOTD before any subcontract work is performed.

(10) DOTD reserves the right to withhold any partial payment from the contractor when it is determined that a DBE is not performing a commercially useful function or that achievement of the goal is in jeopardy. Payment may be withheld in the amount of the DBE goal that is in jeopardy until either the contractor submits to DOTD a revised plan for achieving the contract goal and the plan is approved, or the DBE goal amount in question has been met.

(11) The DOTD will monitor the contractor's DBE involvement during the contract, the level of effort by the contractor in meeting or exceeding the goal requirements in the contract, the contractor's attempts to do so, and the efforts in soliciting such involvement. If, at the completion of the project, the contractor has failed to meet the DBE goal and has not demonstrated good faith efforts or obtained a waiver or reduction of the goal, DOTD will withhold an amount equal to the difference between the DBE goal and the actual DBE participation achieved as damages.

I. SUBSTITUTIONS OF DBE FIRMS AFTER AWARD

(1) The contractor shall conform to the scheduled amount of DBE participation.

(2) Contract items designated to be performed by the DBE on Form CS-6AAA and attachments shall be performed by the designated DBE or DOTD approved substitute. Substitutions of named DBE shall be approved in writing by the DOTD Compliance Programs Section. Substituted DBE shall not commence work until the contractor is able to demonstrate that the listed DBE is unable to perform because of default, overextension on other jobs, or other acceptable justification. It is not intended that a contractor's ability to negotiate a more advantageous contract with another subcontractor be considered a valid basis for change. Substitution of DBE will be allowed only when the DBE is unable to perform due to default, overextension on other jobs, or other similar justification. Evidence of good faith efforts exerted by the contractor shall be submitted to DOTD for approval. Pay items of work eliminated from the project will not diminish the contractor's DBE participation.

(3) Under no circumstances will a contractor perform work originally designated to be performed by a DBE without prior written approval from the DOTD Compliance Programs Section.

(4) When a listed DBE is unwilling or unable to perform the items of work specified in the Form CS-6AAA and attachments, the contractor shall immediately notify the DOTD Compliance Programs Section.

When a contractor's request to be relieved of the obligation to use the named DBE results in a DBE Goal shortfall, the contractor shall immediately take steps to obtain another certified DBE to perform an equal amount of allowable credit work or make documented good faith efforts to do so. The new DBE's name and designated work shall be submitted to the DOTD for approval using Form OMF-1A, Request to Sublet, prior to proceeding with the work.

If the contractor is unable to replace a defaulting DBE with another DBE for the applicable item, a good faith effort shall be made to subcontract other items to DBE for the purpose of meeting the goal. The DOTD Compliance Programs Section will determine if the contractor made an acceptable good faith effort in awarding work to DBE firms. Any disputes concerning good faith efforts will be referred to the DBE Oversight Committee. The DOTD Compliance Programs Section may allow a waiver or adjustment of the goal as may be appropriate, depending on individual project circumstances.

J. GOOD FAITH EFFORTS: Good faith efforts are required by the contractor when the DBE goals established for a contract are not met, or at anytime during the contract when achievement of the DBE goal is in jeopardy. It is the contractor's responsibility to provide sufficient evidence for DOTD to ascertain the efforts made. The contractor shall demonstrate good faith efforts to maximize participation by DBE prior to award and during the life of the contract. Good faith efforts include personal contacts, follow-ups and earnest negotiations with DBE. DOTD will consider, at a minimum, the following efforts as relevant, although this listing is not exclusive or exhaustive and other factors and types of efforts may be relevant:

(1) Efforts made to select portions of the work to be performed by DBE in order to increase the likelihood of achieving the stated goal. It is the contractor's responsibility to make a sufficient portion of the work available to subcontractors and suppliers and to select those portions of work or materials consistent with the availability of DBE subcontractors and suppliers to assure meeting the goal for DBE participation. Selection of portions of work are required to at least equal the DBE goal in the contract.

(2) Written notification at least 14 calendar days prior to bid opening which solicits a reasonable number of DBE interested in participation in the contract as a subcontractor, regular dealer, manufacturer, or consultant for specific items of work. The contractor shall provide notice to a reasonable number of DBE that their interest in the contract is being solicited, with sufficient time to allow the DBE to participate effectively. The contractor shall seek DBE in the same geographic area from which it generally seeks subcontractors for a given project. If the contractor cannot meet the goal using DBE from the normal area, the contractor shall expand its search to a wider geographic area.

(3) Demonstrated efforts made to negotiate in good faith with interested DBE for specific items of work include:

a. The names, addresses and telephone numbers of DBE contacted. The dates of initial contact and whether initial solicitations of interest were followed-up personally, by mail, or by phone to determine the DBE interest.

b. A description of the information provided to DBE regarding the nature of the work, the plans and specifications and estimated quantities for portions of the work to be performed.

c. A statement of why additional agreements with DBE were not reached.

d. Documentation of each DBE contacted but rejected and the reasons for rejection. All bids and quotations received from DBE subcontractors whether verbal or written, and the contractor's efforts to negotiate a reasonable price shall be submitted. Rejecting a DBE's bid because it was not the lowest quotation received will not be satisfactory reason without an acceptable explanation of how it was determined to be unreasonable. A statement that the DBE's quotation was more than the contractor's bid price for an item or items will not be acceptable.

e. Copies of all bids and quotations received from DBE subcontractors and an explanation of why they were not used.

f. Scheduling meetings to discuss proposed work or to walk the job-site with DBE.

g. Informing DBE of any pre-bid conferences scheduled by the DOTD.

h. Assisting DBE in obtaining bonding, insurance, or lines of credit required by the contractor.

i. Evidence of DBE contacted but rejected as unqualified, accompanied by reason for rejection based on a thorough investigation of the DBEs capabilities.

j. Any additional information not included above which would aid the DOTD in evaluation of the contractor's good faith efforts.

(4) The following are examples of actions that will not be accepted as justification by the contractor for failure to meet DBE contract goals:

a. Failure to contract with a DBE solely because the DBE was unable to provide performance and/or payment bonds.

b. Rejection of a DBE bid or quotation based on price alone.

c. Failure to contract with a DBE because the DBE will not agree to perform items of work at the unit price bid.

d. Failure to contract with a DBE because the contractor normally would perform all or most of the work in the contract.

e. Rejection of a DBE as unqualified without sound reasons based on a thorough investigation of their capabilities.

f. Failure to make more than mail solicitations.

K. RECORD KEEPING REQUIREMENTS: The contractor shall keep such records as are necessary for the DOTD to determine compliance with the DBE contract obligations. These records shall include the names of subcontractors, including DBE; copies of subcontracts; the type of work being performed; documentation such as canceled checks and paid invoices verifying payment for work, services, and procurement; and documentation of correspondence, verbal contacts, telephone calls, and other efforts to obtain services of DBE. When requested, the contractor shall submit all subcontracts and other financial transactions executed with DBE in such form, manner and content as prescribed by DOTD. The DOTD reserves the right to investigate, monitor and/or review actions, statements, and documents submitted by any contractor, subcontractor, or DBE.

L. REPORTING REQUIREMENTS: The contractor shall submit monthly reports on DBE involvement. At the conclusion of each estimate period the contractor shall submit the Form CP-1A, CONTRACTORS MONTHLY DBE PARTICIPATION, to the project engineer to verify actual payments to DBE for the previous month's reporting period. These reports will be required until all DBE subcontracting activity is complete or the DBE Goal has been achieved. Reports are required regardless of whether or not DBE activity has occurred in the monthly reporting period.

Upon completion of all DBE participation, the contractor shall submit the Form CP-2A, DBE FINAL REPORT, to the DOTD Compliance Programs Section with a copy to the project engineer detailing all DBE subcontract payments. When the actual amount paid to DBE is less than the award amount, a complete explanation of the difference is required. If the DBE goal is not met, documentation supporting good faith efforts shall be submitted. Failure to submit the required reports will result in the withholding of partial payments to the contractor until the reports are submitted. All payments due subcontractors which affect DBE goal attainment, including retainage, shall be paid by the contractor before the DOTD releases the payment/performance/retainage bond.

The DOTD reserves the right to conduct an audit of DBE participation prior to processing the final estimate and at any time during the work.

M. APPLICABILITY OF PROVISIONS TO DBE BIDDERS: These provisions are applicable to all bidders including DBE bidders. The DBE bidder is required to perform at least 50 percent of the work of the contract with its own work force in accordance with the terms of the contract, normal industry practices, and the DOTD DBE Program. If the DBE bidder sublets any portion of the contract, the DBE bidder shall comply with provisions regarding contractor and subcontractor relationships. A DBE prime contractor may count only the contract amount toward DBE participation for work that he/she actually performs and any amounts awarded to other certified DBE subcontractors that perform a commercially useful function.

FORM CS-6AAA
BIDDERS ASSURANCE OF DBE PARTICIPATION

S.P.#	Contract Amount: $
F.A.P.#	DBE Goal Percentage
Letting Date:	DBE Goal Dollar Value: $

By its signature affixed hereto, the contractor assures the DOTD that one of the following situations exists (check only one box):

☐ The project goal will be met or exceeded.
☐ A portion of the project goal can be met, as indicated below. Good faith effort documentation is attached. DBE Goal Participation Amount_____ % $_____.

The contractor certifies that each firm listed is currently on the DBE list as maintained by DOTD and is certified for the items of work shown on the attachment(s). The contractor having assured that the goal for DBE participation prescribed in the special provisions will be met or exceeded, or that the portion of the DBE goal will be met or exceeded, attests that negotiations are in progress or complete and that a subcontract(s) will be executed with the firm(s) listed below within 60 calendar days after award of contract.

NAME OF DBE FIRM(S)	INTENDED SUBCONTRACT PRICE[1]

[1]For supplier list only the value of the subcontract that can be credited toward the DBE goal. This amount shall be equal to the amount shown for the supplier on the Attachment to Form CS-6AAA. Details are listed on the attachment(s) to Form CS-6AAA.

The contractor assessed the capability and availability of named firm(s) and sees no impediment to prevent award of subcontract(s) as described on the attachments.

The contractor shall evaluate the subcontract work or services actually performed by the DBE to ensure that a commercially useful function is being served in accordance with the Required Contract Provisions for DBE Participation in Federal Aid Construction Contracts. The contractor understands that no credit toward the DBE goal will be allowed for DBE that do not perform a commercially useful function. The contractor has a current copy of the DOTD DBE Program Implementation Guide which details the methods of operation that are acceptable on projects containing DBE goals. Copies of this guide may be obtained by calling the DOTD Compliance Programs Section at (225) 379-1382.

NAME OF CONTRACTOR	
AUTHORIZED SIGNATURE	
TYPED OR PRINTED NAME	
TITLE	
CONTRACTOR'S DBE LIAISON OFFICER (typed or printed name)	
PHONE NUMBER	
DATE	TAX ID#

06/08

ATTACHMENT TO FORM CS-6AAA

Contractor shall submit a separate attachment for each DBE listed on Form CS-6AAA.

S.P.#	F.A.P.#
NAME OF DBE	
PHONE #	CONTACT PERSON:

Fully describe the work to be performed (furnish materials and install, labor only, supply only, manufacture, hauling, etc.), quantity, unit price, and dollar value for each item to be subcontracted to the DBE listed below.

ITEM NO.	QUANTITY/UNIT PRICE/DESCRIPTION OF WORK TO BE PERFORMED	$ VALUE

Describe the types of assistance, if any, the contractor will provide to any DBE on this project.

The contractor and DBE subcontractor attest that a subcontract will be executed for the items of work listed above. The contractor acknowledges that it will only receive credit toward the DB goal if the subcontractor performs a commercially useful function. The DBE understands that it is responsible for performing a commercially useful function.

DBE CONTRACTOR'S SIGNATURE	
TYPED OR PRINTED NAME	
TITLE	
DATE	TAX ID#
PRIME CONTRACTOR'S SIGNATURE	
TYPED OR PRINTED NAME	
TITLE	
DATE	

06/08

FORM CP-1A
LOUISIANA DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT
CONTRACTOR'S MONTHLY DBE PARTICIPATION

STATE PROJECT NO.	CONTRACTOR:
FEDERAL AID PROJECT NO.	
ESTIMATE NO.	REPORT PERIOD: _____ TO _____

DOTD CERTIFIED DBE SUBCONTRACTOR OR SUPPLIER	ITEMS PERFORMED AND PAID THIS ESTIMATE PERIOD	AMOUNT PAID THIS MONTH[1]	TOTAL PAID TO DATE[1]

[1]For suppliers, list total amount paid and the 60 percent value counted toward the goal.

This report covers the previous estimate period and shall be submitted to the Project Engineer with the current month's pay estimate. Estimates will be withheld until required form is submitted. Questions should be directed to the DOTD Compliance Programs Section at (225) 379-1382.

The Contractor certifies that the above amounts <u>were paid</u> to the listed DBEs and that documentation of these payments is available for inspection.

Project Engineer has reviewed this form. _____ (Signature of Project Engineer).

Authorized Signature	
Typed or Printed Name	
Title	
Phone No.	
Date	

06/08

FORM CP-2A
LOUISIANA DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT
DBE FINAL REPORT

STATE PROJECT NO.	DBE GOAL AMOUNT: $	CONTRACTOR:
FEDERAL PROJECT NO.	CONTRACT AMOUNT: $	
PARISH(ES)	LETTING DATE:	

DOTD CERTIFIED DBE SUBCONTRACTOR OR SUPPLIER	ITEMS PERFORMED AND PAID	TOTAL DOLLAR AMOUNT PAID TO SUB OR SUPPLIER (60%)

This is to certify that $_____ has been paid to Disadvantaged Business Enterprise Subcontractors/Suppliers listed above.

Authorized Signature	
Typed or Printed Name	
Title	
Date	

Parish or County _____ State of _____

Subscribed and sworn to, before me, this _____ day of _____, A.D. 20_____

Notary Public _____

My commission expires: _____

06/08

General Decision Number: LA080014 03/13/2009 LA14

Superseded General Decision Number: LA20070040

State: Louisiana

Construction Type: Highway

Counties: Jefferson, Orleans, Plaquemines, St Bernard, St Charles, St James, St John the Baptist and St Tammany Counties in Louisiana.

HIGHWAY CONSTRUCTION PROJECTS (Does not include building structures in rest area projects)

Modification Number	Publication Date
0	02/08/2008
1	05/09/2008
2	06/20/2008
3	07/18/2008
4	09/05/2008
5	01/16/2009
6	02/13/2009
7	03/13/2009

CARP1098-005 02/01/2006

ST. JAMES PARISH (North of the Mississippi River)

	Rates	Fringes
PILEDRIVERMAN	$ 19.92	5.65

CARP1846-002 02/01/2006

JEFFERSON, ORLEANS, PLAQUEMINES, ST. BERNARD, ST. CHARLES, ST. JAMES (South of the Mississippi River), ST. JOHN THE BAPTIST, AND ST. TAMMANY PARISHES

	Rates	Fringes
PILEDRIVERMAN	$ 19.92	5.00

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* ELEC0130-010 12/01/2008

JEFFERSON, ORLEANS, PLAQUEMINES, ST. BERNARD, ST. CHARLES, ST. JAMES, AND ST. JOHN THE BAPTIST PARISHES

	Rates	Fringes
ELECTRICIAN (including traffic signal wiring and installation)	$ 25.00	8.33

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* ELEC1077-007 03/01/2009

ST. TAMMANY PARISH

	Rates	Fringes
ELECTRICIAN (including traffic signal wiring and installation)	$ 21.50	6.26

ENGI0406-015 07/01/2008

	Rates	Fringes
POWER EQUIPMENT OPERATOR		
Asphalt/Aggregate Spreader	$ 20.76	5.70

IRON0058-004 06/01/2008

	Rates	Fringes
IRONWORKER, STRUCTURAL	$ 19.40	6.82

SULA2004-014 07/30/2004

	Rates	Fringes
CARPENTER (including formbuilding/formsetting)	$ 13.42	3.04
Cement Mason/Concrete Finisher	$ 13.24	1.68
IRONWORKER, REINFORCING	$ 15.84	3.47
Laborers		
Asphalt Raker	$ 10.13	0.18
General	$ 9.26	1.14
Guardrail	$ 8.81	1.80
Mason Tender	$ 8.51	1.20
Pipelayer	$ 9.99	1.20
Striping/Pavement Marker includes paint striping and attachment of reflector buttons	$ 8.24	1.20
Traffic Control including flagger, sign placement, barricades, and cones	$ 8.39	1.80
Painter, Brush, Spray and Roller	$ 14.16	2.03
Power Equipment Operators		
Asphalt Paving Machine	$ 14.38	0.18
Asphalt Screed	$ 13.76	2.20
Backhoe/Excavator	$ 13.93	3.00
Broom/Sweeper	$ 12.78	2.92

Bulldozer	$ 13.58	0.00
Crane	$ 17.20	3.30
Front End Loader	$ 13.31	0.00
Mechanic	$ 13.53	2.92
Milling/Cold Planing Machine includes Rotomill and CMI Cutter	$ 15.50	0.00
Motor Grader/Blade	$ 14.42	3.02
Oiler	$ 13.91	2.37
Post Driver	$ 13.73	0.00
Roller	$ 13.11	3.30
Trackhoe	$ 11.00	0.00
Trenching/Boring Machine	$ 12.51	0.00
Truck drivers		
Dump (all types)	$ 10.64	0.18
Flatbed	$ 10.87	0.00
Lowboy	$ 13.24	0.00
Pickup	$ 10.60	0.00
Water	$ 12.00	0.00

WELDERS - Receive rate prescribed for craft performing operation to which welding is incidental.

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Unlisted classifications needed for work not included within the scope of the classifications listed may be added after award only as provided in the labor standards contract clauses (29CFR 5.5 (a) (1) (ii)).

In the listing above, the "SU" designation means that rates listed under the identifier do not reflect collectively bargained wage and fringe benefit rates. Other designations indicate unions whose rates have been determined to be prevailing.

WAGE DETERMINATION APPEALS PROCESS

1.) Has there been an initial decision in the matter? This can be:

* an existing published wage determination
* a survey underlying a wage determination
* a Wage and Hour Division letter setting forth a position on a wage determination matter
* a conformance (additional classification and rate) ruling

On survey related matters, initial contact, including requests for summaries of surveys, should be with the Wage and Hour Regional Office for the area in which the survey was conducted because those Regional Offices have responsibility for the Davis-Bacon survey program. If the response from this initial

contact is not satisfactory, then the process described in 2.) and 3.) should be followed.

With regard to any other matter not yet ripe for the formal process described here, initial contact should be with the Branch of Construction Wage Determinations. Write to:

Branch of Construction Wage Determinations
Wage and Hour Division
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

2.) If the answer to the question in 1.) is yes, then an interested party (those affected by the action) can request review and reconsideration from the Wage and Hour Administrator (See 29 CFR Part 1.8 and 29 CFR Part 7). Write to:

Wage and Hour Administrator
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

The request should be accompanied by a full statement of the interested party's position and by any information (wage payment data, project description, area practice material, etc.) that the requestor considers relevant to the issue.

3.) If the decision of the Administrator is not favorable, an interested party may appeal directly to the Administrative Review Board (formerly the Wage Appeals Board). Write to:

Administrative Review Board
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

4.) All decisions by the Administrative Review Board are final.

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END OF GENERAL DECISION

FINAL PLANS

$DATE$ $TIME$

INDEX TO SHEETS

SHEET NO.	DESCRIPTION
1 – 1a	TITLE SHEET
1b – 1d	GENERAL CONSTRUCTION NOTES
2 – 2cc	TYPICAL SECTIONS
3 – 3sss	SUMMARY OF ESTIMATED QUANTITIES
4 – 6	PLAN SHEETS – LEON C. SIMON
7	GEOMETRIC LAYOUT – LEON C. SIMON
8	SUGGESTED SEQUENCE OF CONSTRUCTION – LEON C. SIMON
9 – 11	STRIPING LAYOUT – LEON C. SIMON
12 – 17	PLAN SHEETS – MIRABEAU
18	GEOMETRIC LAYOUT – MIRABEAU
19	SUGGESTED SEQUENCE OF CONSTRUCTION – MIRABEAU
20 – 25	STRIPING LAYOUT – MIRABEAU
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32	GEOMETRIC LAYOUT – FILMORE
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1-1	SPECIAL DETAILS
93	TC-00
94	TC-01
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103	SIDEWALK DETAILS
104 – 105	BICYCLE ROUTE SIGNAGE AND PAVEMENT MARKING DETAILS

STATE OF LOUISIANA
DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT

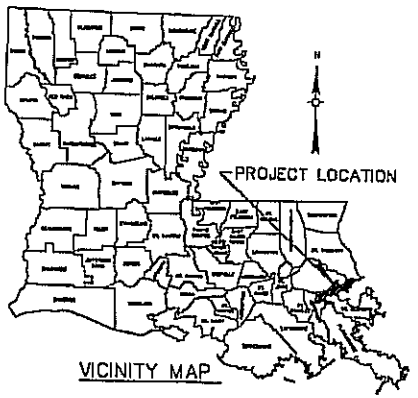
SUBMERGED ROADS PROGRAM

STATE PROJECT NUMBERS 704-36-0032, 704-36-0034, 704-36-0035,
704-36-0036, 704-36-0037, 704-36-0038

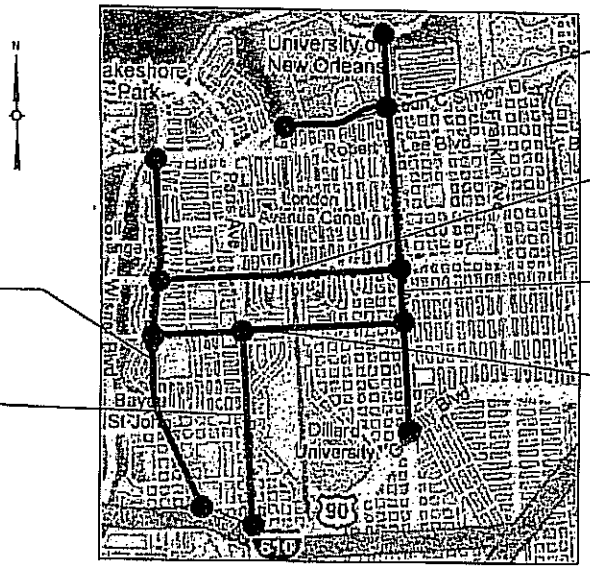
FEDERAL PROJECT NUMBERS ER-ERP1(048), ER-ERP1(050),
ER-ERP1(051), ER-ERP1(052), ER-ERP1(053), ER-ERP1(054)

PERMANENT REPAIR TO FEDERAL AID ELIGIBLE ROADS

LEON C. SIMON, MIRABEAU, FILMORE, ST. BERNARD, PARIS, ELYSIAN FIELDS
ORLEANS PARISH



VICINITY MAP



LAYOUT MAP
SCALE: N.T.S.

LEON C. SIMON DR.
STA. 104+68.57
BEGIN S.P. 704-36-0032
STA. 130+04.39
END S.P. 704-36-0032

FILMORE AVE.
STA. 100+78.92
BEGIN S.P. 704-36-0035
STA. 169+49.82
END S.P. 704-36-0035

ELYSIAN FIELDS AVE
STA. 102+75.86
BEGIN S.P. 704-36-0038
STA. 213+25.57
END S.P. 704-36-0038

MIRABEAU AVE.
STA. 9+72.03
BEGIN S.P. 704-36-0034
STA. 80+33.57
END S.P. 704-36-0034

ST. BERNARD AVE.
STA. 136+34.12
BEGIN S.P. 704-36-0036
STA. 205+37.96
END S.P. 704-36-0036

PARIS AVE.
STA. 102+07.94
BEGIN S.P. 704-36-0037
STA. 157+76.50
END S.P. 704-36-0037

RECOMMENDED FOR APPROVAL BY:
STANLEY CONSULTANTS, INC. 5/13/09

APPROVED:
DIRECTOR
DEPARTMENT OF PUBLIC WORKS 5/13/09

APPROVED:
CHIEF ENGINEER
LOUISIANA DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT 5/29/09

STATE OF LOUISIANA
Blake S. Roussel
REG. No. 33279
REGISTERED
PROFESSIONAL ENGINEER
CIVIL ENGINEERING
5/7/09

DATE	REVISION	DATE	RECOMMENDED	DATE	APPROVED

SCHEDULE OF REVISIONS

SUBMERGED ROADS PROGRAM

TOTAL SHEETS = 237

TYPE OF CONSTRUCTION:
COLD PLANE ASPHALTIC CONCRETE, ASPHALTIC CONCRETE PATCHING, CONCRETE PATCHING, ASPHALTIC CONCRETE OVERLAY, STRIPING, CONCRETE ADA RAMPS, SIDEWALK REPAIR, BICYCLE LANES, LANDSCAPE ENHANCEMENTS

NOTE:
CONTRACTOR SHALL OBTAIN AND VERIFY THE LATEST EDITION OF N.O. DPW AND N.O. S&WB STANDARD PLANS AND SPECIFICATIONS ARE USED DURING CONSTRUCTION.

NOTE:
THE 2006 EDITION OF THE LOUISIANA DOTD STANDARD SPECIFICATIONS FOR ROADS AND BRIDGES, AS AMENDED BY THE PROJECT SPECIFICATIONS, SHALL GOVERN ON THIS PROJECT.

Stanley Consultants, Inc.

DOTD

LEON C. SIMON
MIRABEAU
FILMORE

ST. BERNARD
PARIS
ELYSIAN FIELDS

TITLE SHEET

DESIGNED	BSR
CHECKED	JRS
DETAILED	BAS
CHECKED	JRS
DATE	APR 2009
PARISH	ORLEANS
FEDERAL PROJECT	ER-ERP1(048)–LEON C. SIMON DR, ER-ERP1(050)–ST. BERNARD AVE. ER-ERP1(051)–MIRABEAU AVE. ER-ERP1(052)–PARIS AVE. ER-ERP1(053)–FILMORE AVE. ER-ERP1(054)–ELYSIAN FIELDS AVE.
STATE	704-36-0032–LEON C. SIMON DR, 704-36-0034–ST. BERNARD AVE.
SHEET NUMBER	1

FINAL PLANS

$DATE$ $TIME$

STANDARD PLANS

201	STD-1 (N.O. DPW)	04-04-1997
202	STD-2 (N.O. DPW)	04-04-1997
203	STD-4 (N.O. DPW)	04-04-1997
204	STD-5 (N.O. DPW)	04-04-1997
205	STD-6 (N.O. DPW)	04-04-1997
206	STD-8 (N.O. DPW)	04-04-1997
207	STD-10 (N.O. DPW)	04-04-1997
208	STD-11 (N.O. DPW)	04-04-1997
209	STD-12 (N.O. DPW)	04-04-1997
210 - 210a	EC-01 (DOTD)	10-01-2008
211	BUS PAD DETAIL	
212	D-870 (N.O. S & WB)	03-09-2007
213	D-871 (N.O. S & WB)	03-09-2007
214	D-873 (N.O. S & WB)	03-09-2007
215	D-873A (N.O. S & WB)	03-09-2007
216	3143-E-1 (N.O. S & WB)	03-09-2007
217	D-3264 (N.O. S & WB)	03-09-2007
218	D-3431-A (N.O. S & WB)	03-09-2007
219	D-3809 (N.O. S & WB)	03-09-2007
220	6178-B-6 (N.O. S & WB)	03-09-2007
221	6178-B-6A (N.O. S & WB)	03-09-2007
222	8180-SD (N.O. S & WB)	03-09-2007
223	8292-D (N.O. S & WB)	03-09-2007

LOCATION DESCRIPTION

LEON C. SIMON DR.:
STATE PROJECT NUMBER 704-36-0032 IN ORLEANS PARISH BEGINNING AT THE LONDON CANAL STA 104+68.57 THEN PROCEEDS TO ELYSIAN FIELDS, STA 130+04.39.

MIRABEAU AVE.:
STATE PROJECT NUMBER 704-36-0034 IN ORLEANS PARISH BEGINNING AT ST. BERNARD, STA 9+72.03 THEN PROCEEDS TO ELYSIAN FIELDS, STA 80+33.57.

FILMORE AVE.:
STATE PROJECT NUMBER 704-36-0035 IN ORLEANS PARISH BEGINNING AT ST BERNARD STA 100+78.92 THEN PROCEEDS TO ELYSIAN FIELDS, STA 169+49.82.

ST. BERNARD AVE.:
STATE PROJECT NUMBER 704-36-0036 IN ORLEANS PARISH BEGINNING AT ROBERT E. LEE STA 100+81.60 THEN PROCEEDS TO I-610, STA 205+37.96 (PROGRAMMED LIMITS); WORKING LIMITS FROM STA. 136+34.12 TO STA. 205+37.96.

PARIS AVE.:
STATE PROJECT NUMBER 704-36-0037 IN ORLEANS PARISH BEGINNING AT I-610, STA 102+07.94 THEN PROCEEDS TO MIRABEAU, STA 157+76.50.

ELYSIAN FIELDS AVE.:
STATE PROJECT NUMBER 704-36-0038 IN ORLEANS PARISH BEGINNING AT US 90, STA 102+75.86 THEN PROCEEDS TO LAKESHORE DRIVE, STA 213+25.57.

SCOPE OF PROJECT

THE SCOPE OF THE PROJECT SHALL INCLUDE COLD PLANING THE EXISTING ROADWAY, CONCRETE PAVEMENT, ASPHALT PAVEMENT REPAIR, OVERLAY WITH ASPHALTIC CONCRETE, APPLY NEW STRIPING, MARKERS, ADA RAMPS, SIDEWALK REPAIR, BICYCLE LANES, AND LANDSCAPE ENHANCEMENTS..

LENGTH OF PROJECT

DESCRIPTION			ALGEBRAIC SUM OF EQUATIONS	GROSS LENGTH	EXCEPTION	BRIDGE LENGTH		ROADWAY LENGTH	
PROPOSED STREET	STA	STA	FEET	FEET	FEET	FEET	MILES	FEET	MILES
LEON C. SIMON DR.	104+68.57	130+04.39	0	2535.82				2535.82	0.480
MIRABEAU AVE.	9+72.03	80+33.57	0	7061.54		140	0.026	6921.54	1.310
FILMORE AVE.	100+78.92	169+49.82	0	6870.90		150	0.028	6720.90	1.272
ST. BERNARD AVE.	136+34.12	205+37.96	0	6903.84				6903.84	1.307
PARIS AVE.	102+07.94	157+76.50	0	5568.56				5568.56	1.054
ELYSIAN FIELDS AVE.	102+75.86	213+25.57	0	11049.71				11049.71	2.092
TOTAL LENGTH OF BRIDGES = 290 FEET									
TOTAL LENGTH OF ROADWAYS = 39700.37 FEET									
TOTAL MILES = 7.519 MILES									

STATE OF LOUISIANA
Blake S. Roussel
REG. No. 33279
REGISTERED
PROFESSIONAL ENGINEER
CIVIL ENGINEERING
5/7/09

Stanley Consultants, Inc.

LEON C. SIMON
MIRABEAU
FILMORE
ST. BERNARD
PARIS
ELYSIAN FIELDS

TITLE SHEET

DESIGNED	BSR	PARISH	ORLEANS
CHECKED	JRS		
DETAILED	BAS	FEDERAL PROJECT	
CHECKED	JRS		
DATE	MAR 2009	STATE	

SHEET NUMBER 01

FINAL PLANS

$DATE$ $TIME$

1.0 GENERAL NOTES

1.1 THE CONTRACTOR SHALL PROVIDE FOR AND MAINTAIN THROUGH AND LOCAL TRAFFIC AT ALL TIMES AND SHALL CONDUCT OPERATIONS IN SUCH A MANNER AS TO CAUSE THE LEAST POSSIBLE INTERFERENCE WITH TRAFFIC AND BUSINESS. ALL COST OF MAINTAINING TRAFFIC SHALL BE INCLUDED IN THE PRICE FOR ITEM 713-01.

1.2 CONTRACTOR SHALL MAINTAIN DRAINAGE AT ALL TIMES AND MAY BE REQUIRED TO CUT TEMPORARY DRAINAGE TRENCHES IN SHOULDER AS DIRECTED BY THE PROJECT ENGINEER. ANY MATERIAL DEPOSITED IN ANY DRAINAGE FEATURE (DITCHES, CROSS DRAINS, ETC.) DURING CONSTRUCTION SHALL BE CLEANED OUT BEFORE FINAL ACCEPTANCE BY THE CONTRACTOR (NO DIRECT PAYMENT).

1.3 CONTRACTOR SHALL BE RESPONSIBLE FOR CONSTRUCTION LAYOUT ITEM 740-01.

1.4 PROJECT CENTERLINE LAYOUT REFERENCE POINTS WILL BE FURNISHED TO THE CONTRACTOR.

1.5 EXISTING RAISED PAVEMENT MARKERS SHALL BE REMOVED AS DIRECTED BY THE PROJECT ENGINEER. COST SHALL BE INCLUDED IN THE PRICE BID FOR ITEM 731-02.

1.6 THE CONTRACTOR SHALL BE RESPONSIBLE FOR LAYING OUT THE WORK AND VERIFYING ALL MEASUREMENTS AND GRADES PRIOR TO BEGINNING OF CONSTRUCTION. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ESTABLISH THE PROJECT CENTERLINE AND ADDITIONAL TEMPORARY BENCH MARKS FOR CONSTRUCTION PURPOSES BEFORE DESTROYING EXISTING MONUMENTS/NAILS/CROSS CUTS, ETC.

1.7 THE LINES AND GRADES ON THE PLANS MAY BE VARIED SLIGHTLY BY THE ENGINEER IN THE FIELD IF CONDITIONS JUSTIFY SUCH A VARIATION. THE CONTRACTOR SHALL NOT BE ENTITLED TO AN EXTRA PAYMENT OTHER THAN WHATEVER INCREASE IN CONTRACT QUANTITIES IS INVOLVED

1.8 THE CONTRACTOR SHALL BE RESPONSIBLE TO ESTABLISH GRADES FOR SIDE ROADS TO ASCERTAIN POSITIVE DRAINAGE TO THE NEAREST CATCH BASINS OR DROP INLETS WITHOUT WATER IN ROADWAYS.

1.9 THE GENERAL CONTRACTOR SHALL NOTIFY ALL RESIDENTS IN WRITING OF THE SCHEDULED CONSTRUCTION ACTIVITIES AN PRIOR TO ANY DISRUPTION IN SERVICE. THE NOTICES MUST HAVE THE GENERAL CONTRACTORS PHONE NUMBER AND THE NAME OF A CONTACT PERSON, AND EMERGENCY PHONE NUMBER FOR AFTER HOUR CALLS. NOTICES SHALL NOT BE LEFT IN MAILBOXES UNLESS PROPERLY SENT THRU THE U.S. POST OFFICE.

2.0 ROADWAYS

2.1 WORK SHALL BE DONE IN ACCORDANCE WITH LA DOTD STANDARD SPECIFICATIONS EXCEPT WHEN SPECIFIED IN THE PLANS AND SPECIFICATIONS. THE REMAINING ROADWAY CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH THE CITY OF NEW ORLEANS GENERAL SPECIFICATIONS FOR STREET PAVING, CURRENT EDITION, AND THE CITY STANDARD DRAWINGS.

2.2 ROADWAY RADII ARE MEASURED TO THE FACE OF CURB.

2.3 ASPHALT TRANSITION SHALL BE DONE PER DIRECTION OF THE FIELD ENGINEER AND PAID FOR AT THE CONTRACT UNIT PRICE. (502-01-A).

2.4 WHENEVER NEW PAVING INTERSECTS OR MEETS EXISTING PAVING THAT IS TO REMAIN, THE GRADES OF THE NEW PAVING SURFACE SHALL MATCH THE GRADE OF THE EXISTING PAVING.

2.5 WHEN REMOVAL OF EXISTING PAVEMENT SURFACING IS REQUIRED IN CONJUNCTION WITH PROPOSED PROFILE GRADE LINE SHOWN ON THE DRAWINGS, THE EXISTING ASPHALT CONCRETE PAVEMENT IMMEDIATELY ADJACENT TO THE EDGE OF THE CONCRETE GUTTER SHALL BE MILLED TO A MINIMUM DEPTH OF ONE (1") TO OBTAIN A SMOOTH TIE-- IN BETWEEN EXISTING AND PROPOSED CONSTRUCTION.

2.6 WHEN ADDITIONAL PAVEMENT SURFACING MATERIAL IS REQUIRED, THE ADJACENT CONCRETE GUTTER BOTTOM WILL NOT BE COVERED WITH ASPHALT SURFACING IF THE PROPOSED PROFILE GRADE LINE SHOWN ON THE DRAWINGS IS WITHIN ON (1") INCH. IN AREAS WHERE THE PROPOSED PROFILE GRADE LINE IS HIGHER THAN THE EXISTING GUTTER BOTTOM BY MORE THEN ONE (1") INCH THE SURFACE OF THE EXISTING GUTTER BOTTOM OR ROLLING STRIP SHALL BE OVERLAID WITH ASPHALT SURFACING TO THE FACE OF THE CURB.

2.7 ALL SALVAGEABLE ROADWAY MATERIALS, AS DIRECTED BY THE ENGINEER SHALL BE DELIVERED TO THE APPROPRIATE LOCATION AS SHOWN BELOW. ALL OTHER MATERIALS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. (NO DIRECT PAYMENT)

a) STONE CURB, COBBLESTONE, ETC. TO THE PUBLIC WORKS/ROCK PLANT ON FLORIDA AVE. NEAR ELYSIAN FIELDS.
b) STREET SIGNS, TRAFFIC CONTROL DEVICES (SIGNS AND SIGNALS) TO THE DPW SIGN SHOP AT 2832 LAFITTE STREET.
c) CONTRACTOR SHALL RETAIN 100% OF RAP MATERIAL

2.8 AFTER COMPLETIONS OF THE MILLING OPERATIONS, PROOF ROLLING OF THE ROADWAY SURFACE MAY BE REQUIRED AT THE DISCRETION OF THE ENGINEER TO LOCATE UNSTABLE AREAS. (NO DIRECT PAY)

2.9 THE TYPE, SIZE, AND LOADING OF EQUIPMENT USED DURING THE MILLING AND OVERLAY OPERATIONS MAY BE LIMITED AT THE DISCRETION OF THE PROJECT ENGINEER.

2.10 THE REMOVAL AND RE-INSTALLATION OF SMALL SIGNS FOR ADA RAMPS MAY BE REQUIRED AT THE DISCRETION OF THE PROJECT ENGINEER. (NO DIRECT PAY)

2.11 EXPOSED BUS PADS SHALL NOT BE OVERLAID WITH ASPHALTIC CONCRETE. THEY SHALL REMAIN AS EXPOSED PCCP.

2.12 FOR FULL DEPTH AC PATCHING, DAILY (CONSTRUCTION) WORK AREAS, ALL PAVEMENT REPAIRS SHALL BE COMPLETED AND OPENED TO TRAFFIC AT THE END OF THE DAY.

3.0 DRIVEWAYS AND SIDEWALKS

3.1 ALL DRIVEWAYS REMOVED SHALL BE REPLACED IN KIND UNLESS OTHERWISE NOTED.

3.2 THE EXACT LIMITS OF REMOVAL AND REPLACEMENT OF DRIVEWAYS (CONCRETE, ASPHALT, BRICK, STONE, SLATE, ETC.) SHALL BE DETERMINED BY THE ENGINEER. THE CONTRACTOR SHALL NOT REMOVE ANY DRIVEWAY WITHOUT PRIOR APPROVAL OF THE ENGINEER.

3.3 THE CONTRACTOR IS REQUIRED TO SAW CUT (FULL DEPTH) SIDEWALKS, DRIVEWAYS, CONCRETE AND ASPHALT PAVEMENT OR OTHER CONSTRUCTION AREAS TO INSURE A STRAIGHT LINE BETWEEN OLD AND NEW WORK.

3.4 ALL SIDEWALK AND DRIVEWAYS (CONCRETE, BRICK, STONE, SLATE, ETC.) DAMAGED BY THE CONTRACTOR DURING CONSTRUCTION, WHICH IN THE OPINION OF THE ENGINEER ARE OUTSIDE THE LIMITS OF THE ROADWAY CONSTRUCTION, SHALL BE REPLACED BY THE CONTRACTOR AT HIS OWN EXPENSE.

3.5 THE CONTRACTOR SHALL ADJUST THE ELEVATIONS OF THE NEW SIDEWALKS SO AS TO ALLOW DRAINAGE AWAY FROM THE PROPERTY AT ALL TIMES. SIDEWALK ELEVATIONS MAY BE ADJUSTED TO ALLOW DRAINAGE THROUGH DRIVEWAYS WITH DEPRESSED CURBS.

LEGEND:

—T—T—T—	MULTI TELEPHONE
	UNDERGROUND TELEPHONE
—OHP—OHP—	OVER HEAD POWER
—X—X—	EXISTING FENCE
	TREE/TREE CLUSTER/BUSH
	EDGE OF PAVEMENT
	MISCELLANEOUS PAVEMENT
—UE—UE—UE—	UNDERGROUND ELECTRIC
—T—T—T—T—	UNDERGROUND CABLE
—W—W—W—	WATER
—S—S—S—	SEWER
—GAS—GAS—	GAS LINE
	CENTERLINE ROAD
	TREE DRIP LINE
	POWERPOLE DEADMAN
	POWER POLE
	POWER DROP
	TELEVISION MANHOLE TOP
	FIRE HYDRANT
	TELEPHONE PRESSURE BOX
	WATER VALVE
	TRAFFIC LIGHT PEDESTAL
	MAILBOX
	TRAFFIC SIGNAL SUPPORT POLE
	GAS VALVE
	SIGN
	LIGHT POLE
	DRAINAGE MANHOLE
	CURB/DROP INLET
	TRAFFIC LIGHT POWER VAULT
	POST
	TRAFFIC CONTROL BOX
	TELEPHONE MANHOLE TOP
	SEWER MANHOLE
	ELECTRIC MANHOLE TOP
	ENTERGY ELECTRIC HAND HOLE
	POWER JUNCTION BOX
	PIPE BOLLARD
	POWER VAULT
	WATER METER
	GAS MANHOLE
	TRAFFIC MANHOLE
	WATER MANHOLE
	BENCHMARK MANHOLE
P.E.L.P.M.	POLYETHYLENE LOW PRESSURE MAIN
S.P.P.M.	STEEL HIGH PRESSURE MAIN
V.C.	VITRIFIED CLAY
A.C.	ASBESTOS CONCRETE
M.H.	MANHOLE
RECONST.	RECONSTRUCTION
CONC.	CONCRETE
REQ'D.	REQUIRED
C.B.	CATCH BASIN

STATE OF LOUISIANA
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Blake S. Roussel
3/4/09
CIVIL ENGINEERING

Stanley Consultants, Inc.

DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT — DOTD

LEON C. SIMON MIRABEAU FILMORE
ST. BERNARD PARIS ELYSIAN FIELDS

GENERAL CONSTRUCTION NOTES

DESIGNED / CHECKED	BSR / JRS
DETAILED / CHECKED	BAS / JRS
DATE	DEC 2008
PARISH	ORLEANS
FEDERAL PROJECT	DB-DRP(314)-LEON C. SIMON DR. DB-DRP(353)-ST. BERNARD AVE. DB-DRP(350)-MIRABEAU AVE. DB-DRP(351)-PARIS AVE. DB-DRP(352)-FILMORE AVE. DB-DRP(354)-ELYSIAN FIELDS AVE.
STATE	704-36-0033-LEON C. SIMON DR. 704-36-0036-ST. BERNARD AVE.

SHEET NUMBER 6

$DATE$ $TIME$

4.0 HORTICULTURE REQUIREMENTS

4.1 THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF PARKWAYS & PARKS PRIOR TO REPLACING ANY UTILITY LINES LOCATED NEAR TREES. IF NECESSARY THE CONTRACTOR SHALL SHORE THE AREA NEAR TREES, USE ROOT GUARDS, AND OTHER PRECAUTIONS NECESSARY TO PROTECT THE TREES.

4.2 THE CONTRACTOR SHALL COMPLY WITH ALL "HORTICULTURE REQUIREMENTS" SPECIFIED IN THE SPECIAL PROVISIONS.

4.3 ALL TREE REMOVAL, BRANCH PRUINING OR ROOT CUTTING SHALL BE PERFORMED BY A LOUISIANA LICENSED ARBORIST, APPROVED BY THE PARK AND PARKWAYS COMMISSION. AN URBAN FORESTER PERMIT SHALL BE OBTAINED THROUGH N.O. PARKS AND PARKWAYS.

4.4 THE CONTRACTOR SHALL NOTIFY PROPERTY OWNERS PRIOR TO TRIMMING ANY TREES LOCATED ON PRIVATE PROPERTY.

4.5 ALL EXISTING TREES, SHRUBS, AND VEGETATION DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE REPLACED IN KIND AT NO DIRECT PAY.

4.6 IN ADDITION TO THE NOTIFICATION OF "DEPARTMENT'S LANDSCAPE ARCHITECT", THE "CITY'S DEPARTMENT OF PARKS AND PARKWAYS LANDSCAPE ARCHITECT" WILL BE CONTACTED CONCURRENTLY FOR THE FOLLOWING ITEMS OF WORK:
- -QUALITY AND EXTENT OF WORK
- -PLANT MATERIALS/DELIVERY AND RECEIPT OF PLANT MATERIALS
- -PRUNING
- -LOCATION OF PLANTS
- -PERIOD OF ESTABLISHMENT
- -REPLACEMENT
- -SEMIFINAL INSPECTION

TOP DRESSING MULCH WILL BE PINE STRAW (GRADE A) FREE OF STICKS, ROCKS, AND OTHER EXTRANEOUS MATERIALS IS THE ONLY ACCEPTABLE MULCH.

STATE OF LOUISIANA
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5.0 TRAFFIC CONTROL

5.1 PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT TO THE CITY TRAFFIC ENGINEER FOR REVIEW AND APPROVAL OF A COMPLETE CONSTRUCTION SIGNAGE, TRAFFIC MAINTENANCE AND PUBLIC SAFETY PLAN, PER SECTION C129 OF THE CITY OF N.O. DPW GENERAL SPECIFICATIONS, WHICH AT A MINIMUM INCLUDE THE FOLLOWING:

1. A SIGN INVENTORY – A LIST OF ALL EXISTING TRAFFIC CONTROL DEVICES (SIGNS, SIGNALS, RAISED MARKERS, PAVEMENT MARKINGS, ETC.) ACCURATELY LOCATED ON THE PLANS (NO DIRECT PAY).
2. A PLAN FOR THE PROPOSED ROUTE ON WHICH CONSTRUCTION MATERIALS AND EQUIPMENT ARE TO TRANSPORTED TO OR FROM THE CONSTRUCTION SITE.
3. A DETOUR PLAN SHOWING PROPOSED ROUTES FOR LOCAL AND TRANSIENT TRAFFIC ON WHICH LOCATIONS OF DETOUR TRAFFIC CONTROL DEVICES AND CONSTRUCTION ZONE OR WORK ZONE TRAFFIC CONTROL DEVICES ARE SHOWN. TRAFFIC CONTROL DEVICE APPLICATIONS AND METHODS SHALL BE IN COMPLIANCE WITH PART 6 OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

5.2 THESE PLANS SHALL INCLUDE THE NAME AND THE TELEPHONE OF THE RESPONSIBLE PERSON IN CHARGE OF THE PROJECT.

5.3 THE CONTRACTOR SHALL SEEK APPROVAL OF THE CITY TRAFFIC ENGINEER FOR ANY TRAFFIC RELATED PLAN CHANGE, INCLUDING REMOVAL, RELOCATION, OR ADDITION OF TRAFFIC CONTROL DEVICES BEFORE OR DURING THE COURSE OF CONSTRUCTION.

5.4 ALL EXISTING TRAFFIC CONTROL DEVICES THAT ARE IN CONFLICT WITH THE CONSTRUCTION OR WORK ZONE TRAFFIC CONTROL PLAN SHALL BE COVERED OR REMOVED BY THE CONTRACTOR, AND THE REMOVED DEVICES RETURNED TO THE CITY SIGNAL SHOP AT 2832 LAFITTE STREET. ALL EXISTING DEVICES LEFT IN THE CONSTRUCTION OR WORK ZONE SHALL BE MAINTAINED IN GOOD CONDITION BY THE CONTRACTOR DURING THE COURSE OF CONSTRUCTION.

5.5 ALL REMOVED TRAFFIC CONTROL DEVICES SHALL BE RESTORED TO THEIR ORIGINAL POSITION AND ORIENTATION BY THE CONTRACTOR PRIOR TO THE TIME OF FINAL INSPECTION.

5.6 ALL TRAFFIC CONTROL DEVICES AND ASSOCIATED HARDWARE (SIGNS, SIGNALS, CONDUITS, CABLES, MARKINGS, ETC.) REMOVED OR DAMAGED DURING THE EXECUTION OF THIS CONTRACT, OTHER THAN PROVIDED FOR IN THIS CONTRACT SHALL BE REPLACED AT NO COST TO THE CITY.

5.7 ANY DAMAGE CAUSED BY THE CONTRACTOR'S WORK SHALL BE IMMEDIATELY REPORTED BY THE CONTRACTOR TO THE PROJECT ENGINEER. REPAIRS SHALL BE PERFORMED BY THE CONTRACTOR OR BY CITY FORCES, AT THE DISCRETION OF THE CITY TRAFFIC ENGINEER, WITH ALL ASSOCIATED COSTS BEING PAID BY THE CONTRACTOR.

5.8 THE CONTRACTOR SHALL MAINTAIN ROADWAY ACCESSIBLE TO LOCAL TRAFFIC AT ALL TIMES OR PROVIDE A TEMPORARY ROADWAY ACCEPTABLE TO THE DEPARTMENT OF PUBLIC WORKS.

FINAL PLANS

$DATE$ $TIME$

6.0 GENERAL

6.1 NOISE CONTROL – CONTRACTOR SHALL TAKE REASONABLE MEASURES TO AVOID UNNECESSARY NOISE APPROPRIATE FOR THE AMBIENT SOUND LEVELS ON THE AREA DURING WORKING HOURS. ALL CONSTRUCTION MACHINERY & VEHICLES SHALL BE EQUIPPED WITH PRACTICAL SOUND MUFFLING DEVICES, AND OPERATED IN A MANNER TO CAUSE THE LEAST NOISE, CONSISTENT WITH EFFICIENT PERFORMANCE OF THE WORK (NO DIRECT PAYMENT).

6.2 DUST CONTROL – CONTRACTOR SHALL TAKE REASONABLE MEASURES TO PREVENT UNNECESSARY DUST. SURFACES SUBJECT TO CREATING DUST SHALL BE KEPT MOIST WITH WATER OR BY APPLICATION OF CHEMICAL DUST SUPPRESSANT. DUSTY MATERIALS IN PILES OR IN TRANSIT SHALL BE COVERED TO PREVENT BLOWING (NO DIRECT PAYMENT).

6.3 CONTRACTOR SHALL CONTACT THE FOLLOWING AT LEAST THREE (3) WORKING DAYS PRIOR TO CONSTRUCTION AROUND THE RESPECTIVE UTILITIES:

DEPARTMENT NAME	AREA CODE	PHONE NUMBER	EXTENSION	CONTACT NAME		
S&WB 24 HOUR EMERGENCY	504	52-WATER (529-2837)				
MONTGOMERY WATSON HARZA (S&WB REP.)	504	581-6900		GERRY PREAU, KEVIN CRUICE		
DEPT. OF PUBLIC WORKS, MAINTENANCE DIVISION	504	658-8150		MICHAEL NOLAN		
DEPT. OF PUBLIC WORKS, TRAFFIC DIVISION	504	658-8052	x8001	ALLEN YRLE		
DEPT. OF PUBLIC WORKS, ENGINEERING	504	658-8052	x8044	NGUYEN PHAN		
DEPT. OF PUBLIC WORKS, UTILITIES	504	658-8052	x8001			
ENTERGY GAS DISPATCH CENTER (24 HOURS)	504	670-3544				
ENTERGY (GAS DEPT.)	504	595-3877		KEN SCHINDLER		
ENTERGY ELECTRIC DISPATCH CENTER (24 HOURS)	504	ENTERGY (368-3749)				
ENTERGY (ELECTRIC DEPT.)	504	595-3701		ERICK ARTEAGA		
ENTERGY (THERMAL)	504	952-8773		ERICK KELLY		
AT&T		1-800-272-3020		LOUISIANA 1 CALL		
PARK & PARKWAYS DEPT.	504	658-3200		ROBERT RICHARDS		
COX COMMUNICATION CONSTRUCTION DIV.	504	304-8093		ED HERRERA		
COX COMMUNICATION	504	304-8091		MITZI MANCUSO		
LOUISIANA 1 CALL		1-800-272-3020				

STATE OF LOUISIANA
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1/28/09
ENGINEERING

7.0 NEW ORLEANS SEWERAGE AND WATER BOARD AND DEPARTMENT OF PUBLIC WORKS

7.1 ANY REPAIRS OR ADJUSTMENTS MADE TO SANITARY SEWER MANHOLES, DRAIN MANHOLES, CATCH BASINS, SHALL BE MADE IN ACCORDANCE WITH N.O. S&WB AND DPW STANDARDS AND GENERAL SPECIFICATIONS. OWNERSHIP OF THE FACILITY/STRUCTURE BEING REPAIRED SHALL TAKE PRECEDENCE TO DETERMINE SPECIFICATIONS AND STANDARDS FOLLOWED.

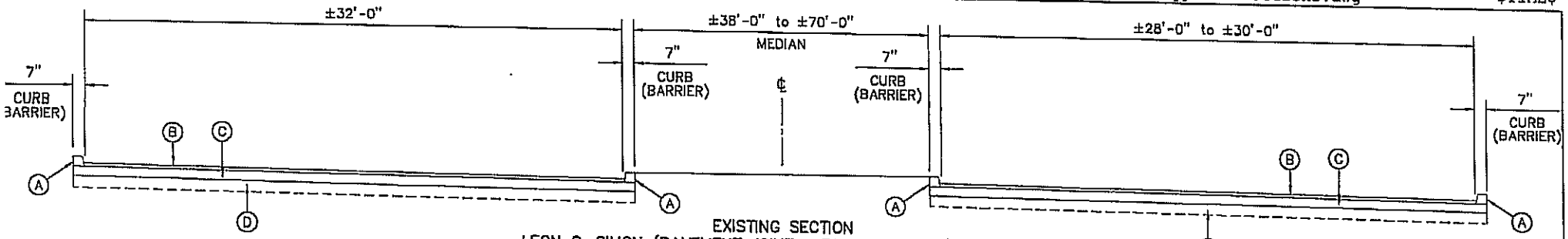
7.2 CONTRACTOR SHALL OBTAIN LATEST EDITION OF STANDARDS AND/OR SPECIFICATIONS GOVERNING STRUCTURE OR FACILITY.

7.3 CONTRACTOR SHALL NOTIFY THE NO SEWERAGE AND WATER BOARD AND PROJECT ENGINEER 10 (TEN) DAYS IN ADVANCE OF THE BEGINNING OF WORK ON ASSETS OF 36 INCHES AND LARGER FOR INSPECTION.

7.4 THE LOCATION OF EXISTING UTILITIES SHOWN ARE APPROXIMATE. THE CONTRACTOR SHALL VERIFY THE UTILITY LINES IN SERVICE AND SHALL TAKE NECESSARY PRECAUTIONS TO PROTECT THEM.

FINAL PLANS

:\PROJECTS\08-4626 New Orleans Roads Grp 6\Drawings\Revised ARRA 042809\Leon C Simon\08-4626 Leon Simon Replacement Typical Sections.dwg $TIME$



EXISTING SECTION

LEON C. SIMON (PAVEMENT JOINT - FOUNDERS RD./WALDO DR.)

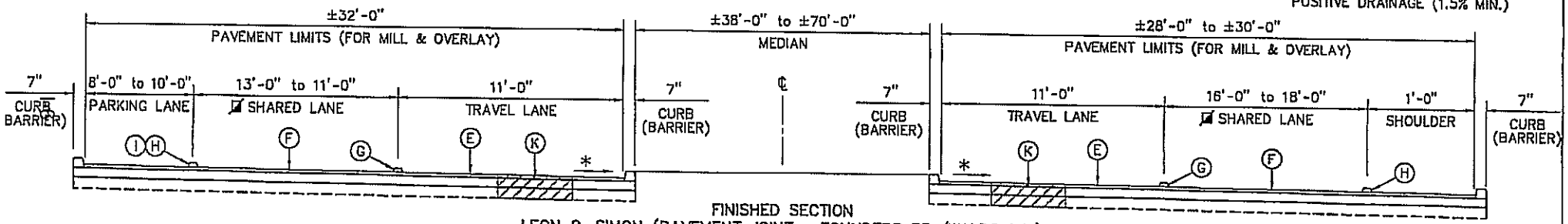
STA. 104+68.57 - STA. 106+62.28 (WESTBOUND)
STA. 104+83.89 - STA. 106+62.28 (EASTBOUND)

REFER TO SHEET 2d FOR TYPICAL SECTION NOTES
REFER TO TABLES B9-1 AND B9-2 ON SHEET 2e FOR BORING DETAILS

◪ SEE SHEET 3hhh FOR STRIPING AND SIGNAGE DETAILS.

Δ ESTABLISHES "NO PARKING" ZONE AT CURB RADIUS RETURN.

* MATCH EXISTING CROSS SLOPE. ADJUST AS NECESSARY TO ENSURE POSITIVE DRAINAGE (1.5% MIN.)



FINISHED SECTION

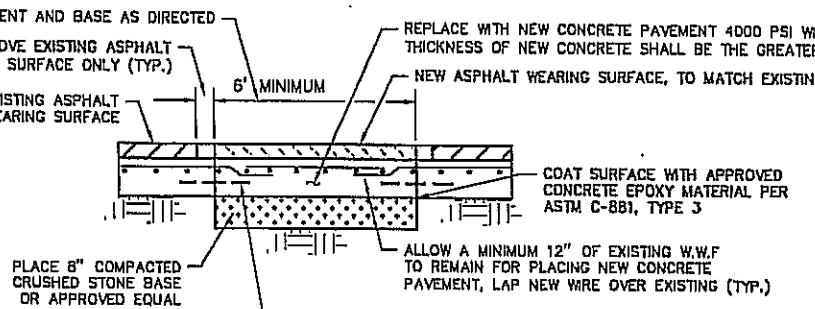
LEON C. SIMON (PAVEMENT JOINT - FOUNDERS RD./WALDO DR.)

STA. 104+68.57 - STA. 106+62.28 (WESTBOUND)
STA. 104+83.89 - STA. 106+62.28 (EASTBOUND)

REFER TO SHEET 2d FOR TYPICAL SECTION NOTES

LEGEND - TYPICAL SECTION

- (A) EXISTING INTEGRAL CONCRETE CURB (BARRIER)
- (B) EXISTING ASPHALTIC CONCRETE
- (C) EXISTING PORTLAND CEMENT CONCRETE
- (D) EXISTING SUBGRADE LAYER (BROWN/DARK BROWN ORGANIC CLAY)(GRAY ORGANIC SANDY CLAY)
- (E) COLD PLANING ASPHALTIC CONCRETE (2" AVG. DEPTH)
- (F) 2" AVG. DEPTH SUPERPAVE ASPHALTIC CONCRETE WEARING COURSE, LEVEL 1
- (G) 4" BROKEN WHITE LINE PER N.O. DPW STD 10 (732-03-01000) W/ REFLECTORIZED RAISED PAVEMENT MARKERS (731-02-00100)
- (H) 4" SOLID WHITE LINE PER N.O. DPW STD 10 (732-02-01000)
- (I) 6" SOLID YELLOW LINE PER N.O. DPW STD 10 (732-01-04020)
- (J) 8" SOLID WHITE LINE PER N.O. DPW STD 10 (732-01-04040) W/ REFLECTORIZED RAISED PAVEMENT MARKERS (731-02-00100)
- (K) CONCRETE REPAIR



CONCRETE PAVEMENT REPAIR DETAIL

N.T.S.

STATE OF LOUISIANA
NICHOLAS J. OLIVIER
License No. 33351
PROFESSIONAL ENGINEER
CIVIL ENGINEER
5/6/09

CIVIL DESIGN & CONSTRUCTION INC.

DOTD

LEON C SIMON BLVD.

TYPICAL SECTIONS

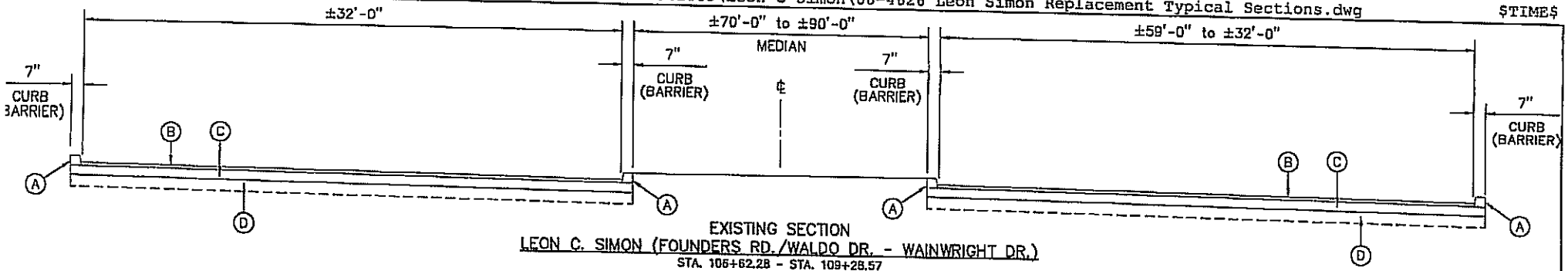
NO.	DATE	REVISION DESCRIPTION	BY

DESIGNED / CHECKED	NJO / KEW	PARISH	ORLEANS
DETAILED / CHECKED	CMR / NJO	FEDERAL PROJECT	ER-ERP1(048)
DATE / SHEET	FEB. 2009 / 1 OF 6	STATE PROJECT	704-36-0032

SHEET NUMBER 2

FINAL PLANS

:\PROJECTS\08-4626 New Orleans Roads Grp 6\Drawings\Revised ARRA 042809\Leon C Simon\08-4626 Leon Simon Replacement Typical Sections.dwg $TIME$



EXISTING SECTION

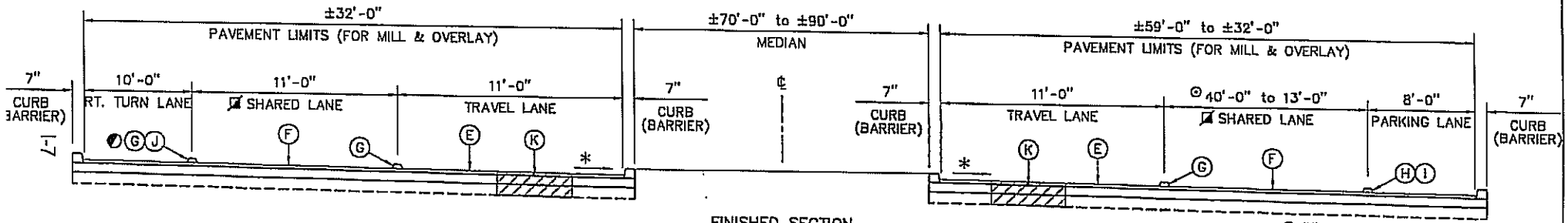
LEON C. SIMON (FOUNDERS RD./WALDO DR. - WAINWRIGHT DR.)

STA. 106+62.28 - STA. 109+28.57

REFER TO SHEET 2d FOR TYPICAL SECTION NOTES

REFER TO TABLE B9-2 ON SHEET 2e FOR BORING DETAILS

◪ SEE SHEET 3hhh FOR STRIPING AND SIGNAGE DETAILS.



FINISHED SECTION

LEON C. SIMON (FOUNDERS RD./WALDO DR. - WAINWRIGHT DR.)

STA. 106+62.28 - STA. 109+28.57

REFER TO SHEET 2d FOR TYPICAL SECTION NOTES

⊙ INTERSECTION WITH NEW YORK ST.

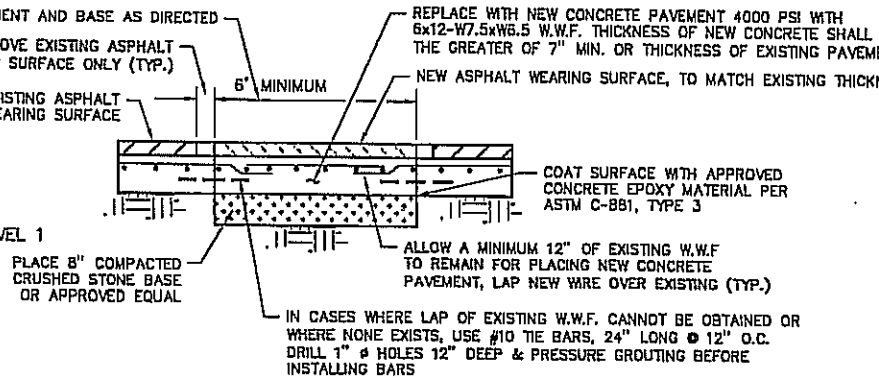
Δ ESTABLISHES "NO PARKING" ZONE AT CURB RADIUS RETURN.

◐ 8" SOLID LINE W/ PAVEMENT MARKERS USED TO ESTABLISH STORAGE LANE AT INTERSECTION OF FOUNDERS RD/LEON C SIMON DR. BROKEN LINE CONTINUES THEREAFTER.

* MATCH EXISTING CROSS SLOPE. ADJUST AS NECESSARY TO ENSURE POSITIVE DRAINAGE (1.5% MIN.)

LEGEND - TYPICAL SECTION

- (A) EXISTING INTEGRAL CONCRETE CURB (BARRIER)
- (B) EXISTING ASPHALTIC CONCRETE
- (C) EXISTING PORTLAND CEMENT CONCRETE
- (D) EXISTING SUBGRADE LAYER (BROWN/DARK BROWN ORGANIC CLAY)(GRAY ORGANIC SANDY CLAY)
- (E) COLD PLANING ASPHALTIC CONCRETE (2" AVG. DEPTH)
- (F) 2" AVG. DEPTH SUPERPAVE ASPHALTIC CONCRETE WEARING COURSE, LEVEL 1
- (G) 4" BROKEN WHITE LINE PER N.O. DPW STD 10 (732-03-01000) W/ REFLECTORIZED RAISED PAVEMENT MARKERS (731-02-00100)
- (H) 4" SOLID WHITE LINE PER N.O. DPW STD 10 (732-02-01000)
- (I) 6" SOLID YELLOW LINE PER N.O. DPW STD 10 (732-01-04020)
- (J) 8" SOLID WHITE LINE PER N.O. DPW STD 10 (732-01-04040) W/ REFLECTORIZED RAISED PAVEMENT MARKERS (731-02-00100)
- (K) CONCRETE REPAIR



CONCRETE PAVEMENT REPAIR DETAIL

N.T.S.

STATE OF LOUISIANA
NICHOLAS J. OLIVIER
License No. 33351
PROFESSIONAL ENGINEER
CIVIL ENGINEERING
4/09

CIVIL DESIGN & CONSTRUCTION

DOTD TRANSPORTATION AND DEVELOPMENT

LEON C SIMON BLVD.

TYPICAL SECTIONS

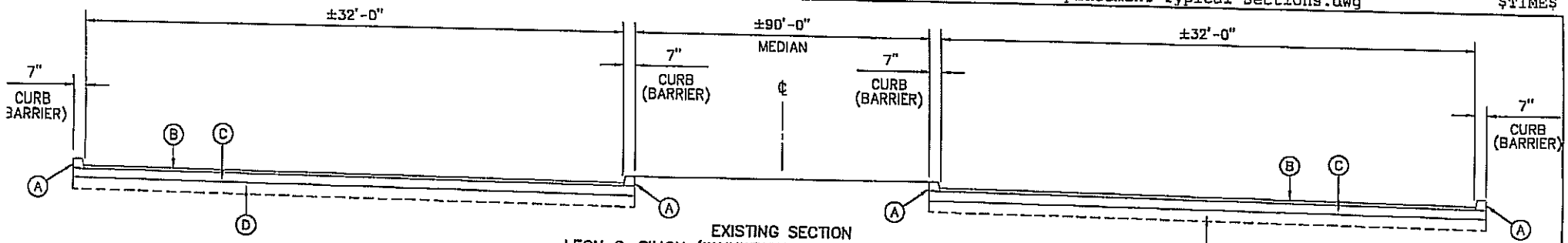
NO.	DATE	REVISION DESCRIPTION	BY

DESIGNED / CHECKED	NJO / KEW	PARISH	ORLEANS
DETAILED / CHECKED	CMR / NJO	FEDERAL PROJECT	ER-ERP1(048)
DATE / SHEET	FEB. 2009 / 2 OF 6	STATE PROJECT	704-36-0032

SHEET NUMBER 2a

FINAL PLANS

:\PROJECTS\08-4626 New Orleans Roads Grp 6\Drawings\Revised ARRA 042809\Leon C Simon\08-4626 Leon Simon Replacement Typical Sections.dwg $TIMES$

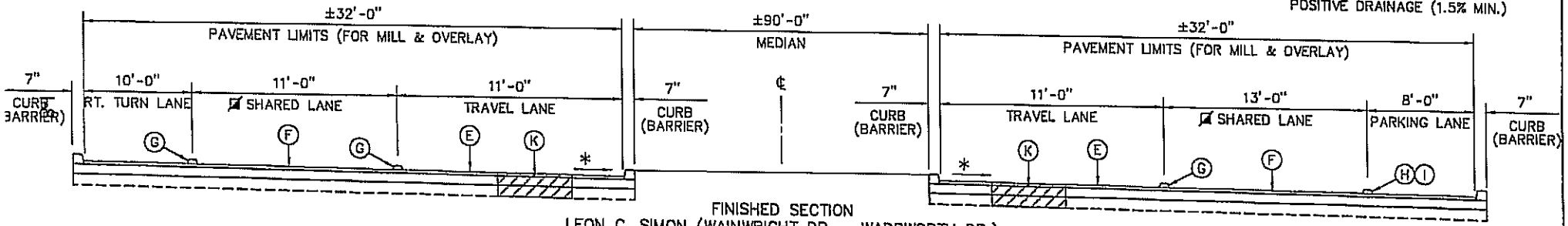


EXISTING SECTION
LEON C. SIMON (WAINWRIGHT DR. - WADSWORTH DR.)
STA. 109+28.57 - STA. 111+95.35
REFER TO SHEET 2d FOR TYPICAL SECTION NOTES
REFER TO TABLE B9-2 ON SHEET 2e FOR BORING DETAILS

SEE SHEET 3hhh FOR STRIPING AND SIGNAGE DETAILS.

Δ ESTABLISHES "NO PARKING" ZONE AT CURB RADIUS RETURN.

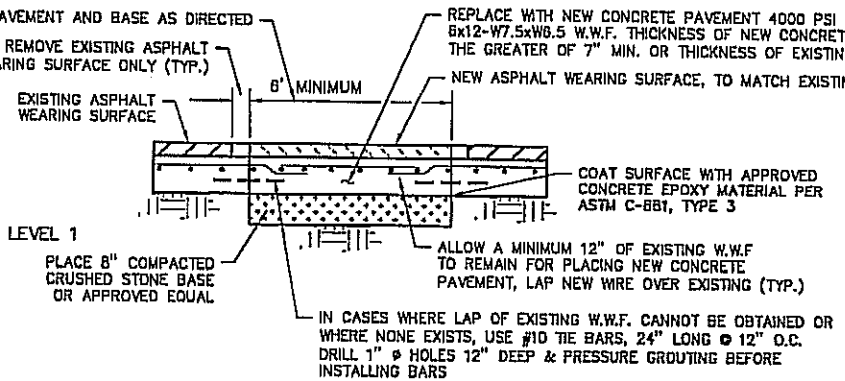
* MATCH EXISTING CROSS SLOPE. ADJUST AS NECESSARY TO ENSURE POSITIVE DRAINAGE (1.5% MIN.)



FINISHED SECTION
LEON C. SIMON (WAINWRIGHT DR. - WADSWORTH DR.)
STA. 109+28.57 - STA. 111+95.35
REFER TO SHEET 2d FOR TYPICAL SECTION NOTES

LEGEND - TYPICAL SECTION

- (A) EXISTING INTEGRAL CONCRETE CURB (BARRIER)
- (B) EXISTING ASPHALTIC CONCRETE
- (C) EXISTING PORTLAND CEMENT CONCRETE
- (D) EXISTING SUBGRADE LAYER (BROWN/DARK BROWN ORGANIC CLAY)(GRAY ORGANIC SANDY CLAY)
- (E) COLD PLANING ASPHALTIC CONCRETE (2" AVG. DEPTH)
- (F) 2" AVG. DEPTH SUPERPAVE ASPHALTIC CONCRETE WEARING COURSE, LEVEL 1
- (G) 4" BROKEN WHITE LINE PER N.O. DPW STD 10 (732-03-01000) W/ REFLECTORIZED RAISED PAVEMENT MARKERS (731-02-00100)
- (H) 4" SOLID WHITE LINE PER N.O. DPW STD 10 (732-02-01000)
- (I) 6" SOLID YELLOW LINE PER N.O. DPW STD 10 (732-01-04020)
- (J) 8" SOLID WHITE LINE PER N.O. DPW STD 10 (732-01-04040) W/ REFLECTORIZED RAISED PAVEMENT MARKERS (731-02-00100)
- (K) CONCRETE REPAIR



CONCRETE PAVEMENT REPAIR DETAIL
N.T.S.

STATE OF LOUISIANA
NICHOLAS J. OLIVIER
License No. 33351
PROFESSIONAL ENGINEER
CIVIL ENGINEERING
5/6/09

CIVIL DESIGN & CONSTRUCTION INC.

DOTD

LEON C SIMON BLVD.

TYPICAL SECTIONS

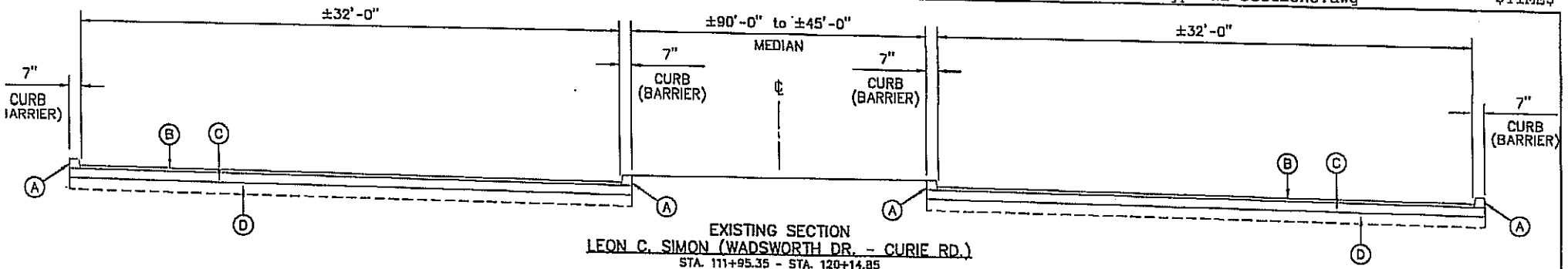
NO.	DATE	REVISION DESCRIPTION	BY

DESIGNED / CHECKED	NJO / KEW	PARISH	ORLEANS
DETAILED / CHECKED	CMR / NJO	FEDERAL PROJECT	ER-ERP1(048)
DATE / SHEET	FEB. 2009 / 3 OF 6	STATE PROJECT	704-36-0032

SHEET NUMBER 2b

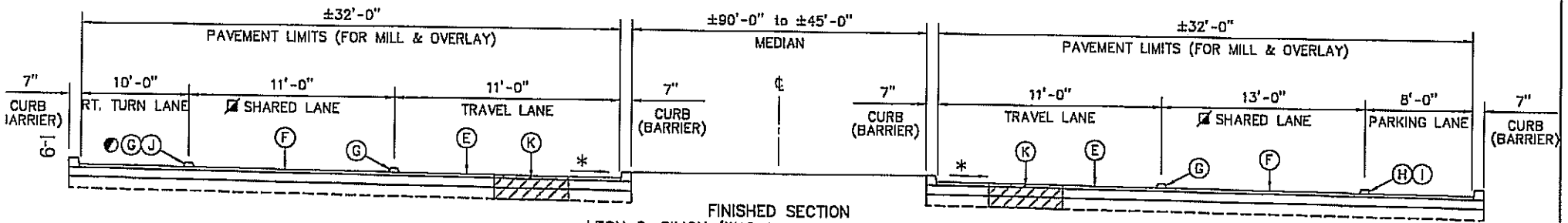
FINAL PLANS

\PROJECTS\08-4626 New Orleans Roads Grp 6\Drawings\Revised ARRA 042809\Leon C Simon\08-4626 Leon Simon Replacement Typical Sections.dwg $TIME$



EXISTING SECTION
LEON C. SIMON (WADSWORTH DR. - CURIE RD.)
STA. 111+95.35 - STA. 120+14.85
REFER TO SHEET 2d FOR TYPICAL SECTION NOTES
REFER TO TABLE B9-2 ON SHEET 2e FOR BORING DETAILS

SEE SHEET 3hhh FOR STRIPING AND SIGNAGE DETAILS.



FINISHED SECTION
LEON C. SIMON (WADSWORTH DR. - CURIE RD.)
STA. 111+95.35 - STA. 120+14.85
REFER TO SHEET 2d FOR TYPICAL SECTION NOTES

⊙ INTERSECTION WITH NEW YORK ST.

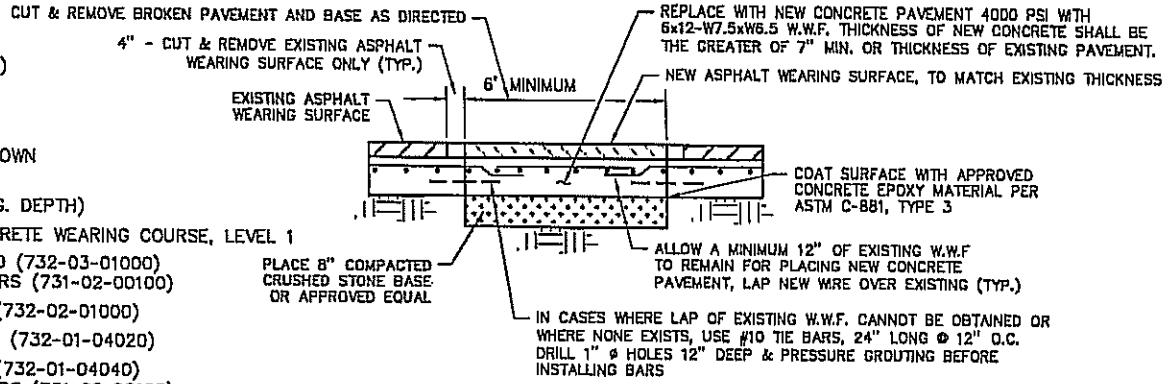
Δ ESTABLISHES "NO PARKING" ZONE AT CURB RADIUS RETURN.

◐ 8" SOLID LINE W/ PAVEMENT MARKERS USED TO ESTABLISH STORAGE LANE AT INTERSECTION OF FOUNDERS RD/LEON C SIMON DR. BROKEN LINE CONTINUES THEREAFTER.

* MATCH EXISTING CROSS SLOPE. ADJUST AS NECESSARY TO ENSURE POSITIVE DRAINAGE (1.5% MIN.)

LEGEND - TYPICAL SECTION

- Ⓐ EXISTING INTEGRAL CONCRETE CURB (BARRIER)
- Ⓑ EXISTING ASPHALTIC CONCRETE
- Ⓒ EXISTING PORTLAND CEMENT CONCRETE
- Ⓓ EXISTING SUBGRADE LAYER (BROWN/DARK BROWN ORGANIC CLAY)(GRAY ORGANIC SANDY CLAY)
- Ⓔ COLD PLANING ASPHALTIC CONCRETE (2" AVG. DEPTH)
- Ⓕ 2" AVG. DEPTH SUPERPAVE ASPHALTIC CONCRETE WEARING COURSE, LEVEL 1
- Ⓖ 4" BROKEN WHITE LINE PER N.O. DPW STD 10 (732-03-01000) W/ REFLECTORIZED RAISED PAVEMENT MARKERS (731-02-00100)
- Ⓗ 4" SOLID WHITE LINE PER N.O. DPW STD 10 (732-02-01000)
- Ⓘ 6" SOLID YELLOW LINE PER N.O. DPW STD 10 (732-01-04020)
- Ⓙ 8" SOLID WHITE LINE PER N.O. DPW STD 10 (732-01-04040) W/ REFLECTORIZED RAISED PAVEMENT MARKERS (731-02-00100)
- Ⓚ CONCRETE REPAIR



CONCRETE PAVEMENT REPAIR DETAIL
N.T.S.

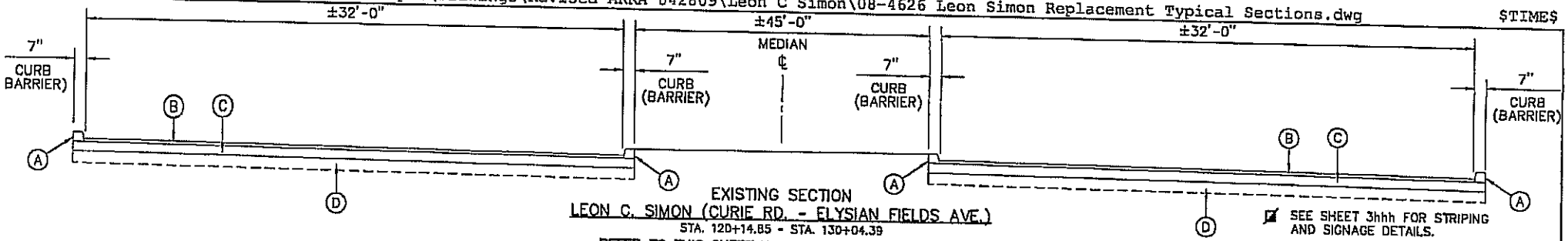
STATE OF LOUISIANA
NICHOLAS J. OLIVIER
License No. 33351
PROFESSIONAL ENGINEER
CIVIL ENGINEERING
4/6/09

CIVIL DESIGN & CONSTRUCTION	LEON C SIMON BLVD.	DESIGNED NJO / CHECKED KEW	PARISH ORLEANS
DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT DOTD	TYPICAL SECTIONS	DETAILED CMR / CHECKED NJO	FEDERAL PROJECT ER-ERP1(048)
STATE OF LOUISIANA DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT		DATE FEB. 2009	STATE PROJECT 704-36-0032

SHEET NUMBER 2c

FINAL PLANS

:\PROJECTS\08-4626 New Orleans Roads Grp 6\Drawings\Revised ARRA 042809\Leon C Simon\08-4626 Leon Simon Replacement Typical Sections.dwg $TIME$



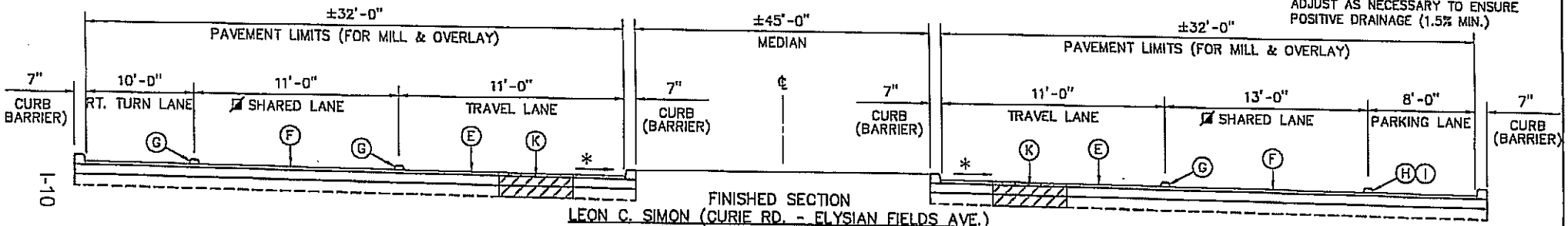
EXISTING SECTION
LEON C. SIMON (CURIE RD. - ELYSIAN FIELDS AVE.)
STA. 120+14.85 - STA. 130+04.39

REFER TO THIS SHEET FOR TYPICAL SECTION NOTES
REFER TO TABLE B9-3 ON SHEET 2e FOR BORING DETAILS

SEE SHEET 3hhh FOR STRIPING AND SIGNAGE DETAILS.

Δ ESTABLISHES "NO PARKING" ZONE AT CURB RADIUS RETURN.

* MATCH EXISTING CROSS SLOPE. ADJUST AS NECESSARY TO ENSURE POSITIVE DRAINAGE (1.5% MIN.)

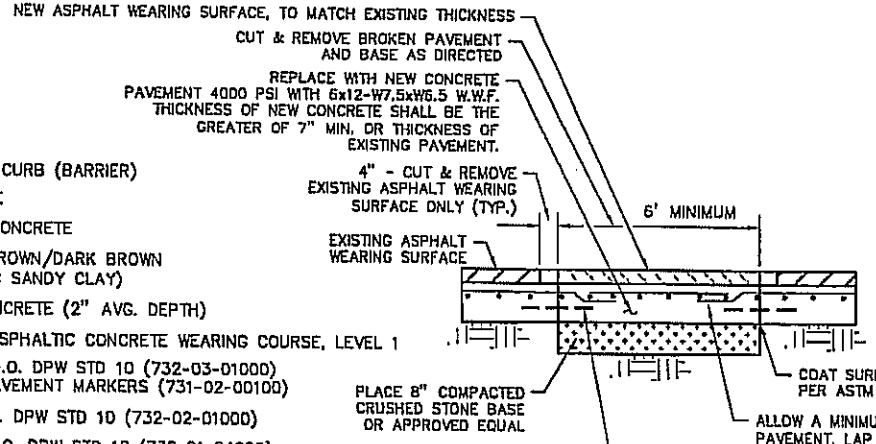


FINISHED SECTION
LEON C. SIMON (CURIE RD. - ELYSIAN FIELDS AVE.)
STA. 120+14.85 - STA. 130+04.39

REFER TO THIS SHEET FOR TYPICAL SECTION NOTES

LEGEND - TYPICAL SECTION

- (A) EXISTING INTEGRAL CONCRETE CURB (BARRIER)
- (B) EXISTING ASPHALTIC CONCRETE
- (C) EXISTING PORTLAND CEMENT CONCRETE
- (D) EXISTING SUBGRADE LAYER (BROWN/DARK BROWN ORGANIC CLAY)(GRAY ORGANIC SANDY CLAY)
- (E) COLD PLANING ASPHALTIC CONCRETE (2" AVG. DEPTH)
- (F) 2" AVG. DEPTH SUPERPAVE ASPHALTIC CONCRETE WEARING COURSE, LEVEL 1
- (G) 4" BROKEN WHITE LINE PER N.O. DPW STD 10 (732-03-01000) W/ REFLECTORIZED RAISED PAVEMENT MARKERS (731-02-00100)
- (H) 4" SOLID WHITE LINE PER N.O. DPW STD 10 (732-02-01000)
- (I) 6" SOLID YELLOW LINE PER N.O. DPW STD 10 (732-01-04020)
- (J) 8" SOLID WHITE LINE PER N.O. DPW STD 10 (732-01-04040) W/ REFLECTORIZED RAISED PAVEMENT MARKERS (731-02-00100)
- (K) CONCRETE REPAIR



CONCRETE PAVEMENT REPAIR DETAIL
N.T.S.

NOTES-TYPICAL SECTIONS:

1. USE MIN. SLOPE OF 1.5% IN AREAS OF PAVEMENT FAILURES. MAINTAIN EXISTING GRADE OF OUTER EDGE OF PAVEMENT TO ESTABLISH SLOPE. LEVELING MAY BE REQUIRED TO ACHIEVE SLOPE (502-01-00100).
2. REFER TO PLAN SHEETS FOR LOCATION AND DIMENSIONS OF CONCRETE REPAIR AND CONCRETE CURB REPAIR.
3. CONTRACTOR SHALL PATCH ROADWAY PRIOR TO OVERLAY WITH FULL DEPTH CONCRETE PATCH AT LOCATIONS DETERMINED IN THE FIELD AND/OR AS DIRECTED BY THE PROJECT ENGINEER. THE PROJECTENGINEER SHALL IDENTIFY LOCATIONS FROM LONDON CANAL TO ELYSIAN FILEDS AVENUE REQUIRING JOINT SEALANT. PAVEMENT PATCHING AND JOINT SEALING SHALL BE CONSTRUCTED IN CONSTRUCTED IN ACCORDANCE WITH N.O. DPW STD. 2, 4-6.
4. 100% OF RAP MATERIAL TO BE RETAINED BY THE CONTRACTOR. THE DEPARTMENT DOES NOT GUARANTEE IN ANY WAY THE QUALITY OF THE RAP MATERIAL.
5. **UPON COMPLETION OF COLD PLANING, THE PROJECT ENGINEER MAY REQUIRE ADDITIONAL ASPHALT REMOVAL SHOULD THE REMAINING THICKNESS BE LESS THAN ONE INCH (1").**
6. REFER TO TITLE SHEET FOR APPLICABLE STANDARD PLANS AND DETAILS USED FOR THIS PROJECT.

STATE OF LOUISIANA
NICHOLAS J. OLIVIER
License No. 33351
PROFESSIONAL ENGINEER
CIVIL ENGINEERING
4/6/09

CIVIL DESIGN & CONSTRUCTION INC.

LEON C SIMON BLVD.

TYPICAL SECTIONS

DESIGNED / CHECKED	NJD / KEW	PARISH	ORLEANS
DETAILED / CHECKED	CMR / NJO	FEDERAL PROJECT	ER-ERP1(048)
DATE	FEB. 2009	STATE	704-36-0032

SHEET NUMBER 2d

BORE#: B9-1 (EB - 500' E OF LONDON CANAL.)	
LAYER TYPE	LAYER THICKNESS (INCHES)
AC	3.50
PCC	7.50
SUBGRADE	-

BORE#: B9-2 (EB - 125' E OF ST. ANTHONY AVE.)	
LAYER TYPE	LAYER THICKNESS (INCHES)
AC	2.50
PCC	8.00
SUBGRADE	-

BORE#: B9-3 (WB - 1000' W OF ELYSIAN FIELDS)	
LAYER TYPE	LAYER THICKNESS (INCHES)
AC	2.50
PCC	7.50
SUBGRADE	-

STATE OF LOUISIANA
NICHOLAS J. OLIVIER
License No. 33351
PROFESSIONAL ENGINEER
IN
CIVIL ENGINEERING
4/6/09

CIVIL DESIGN & CONSTRUCTION INSP.

LEON C SIMON BLVD.

TYPICAL SECTIONS

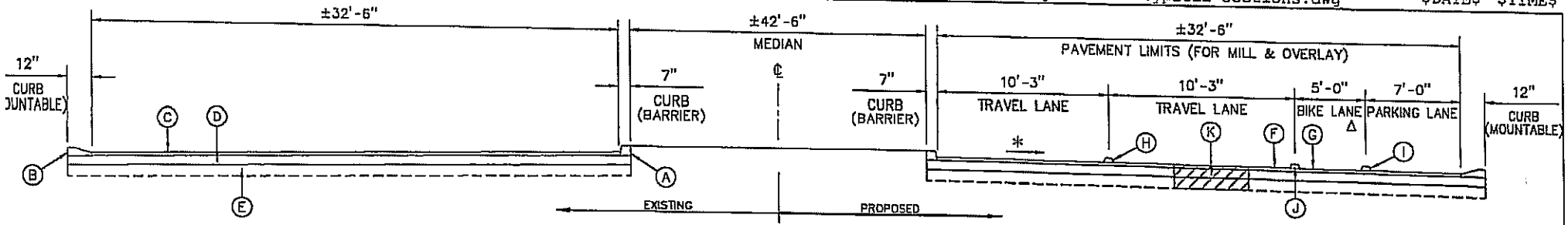
NO.	DATE	REVISION DESCRIPTION	

DESIGNED / CHECKED	NJO / KEW	PARISH	ORLEANS
DETAILED / CHECKED	CMR / NJO	FEDERAL PROJECT	ER-ERP1(048)
DATE / SHEET	FEB. 2009 / 6 OF 6	STATE PROJECT	704-36-0032

SHEET NUMBER 2e

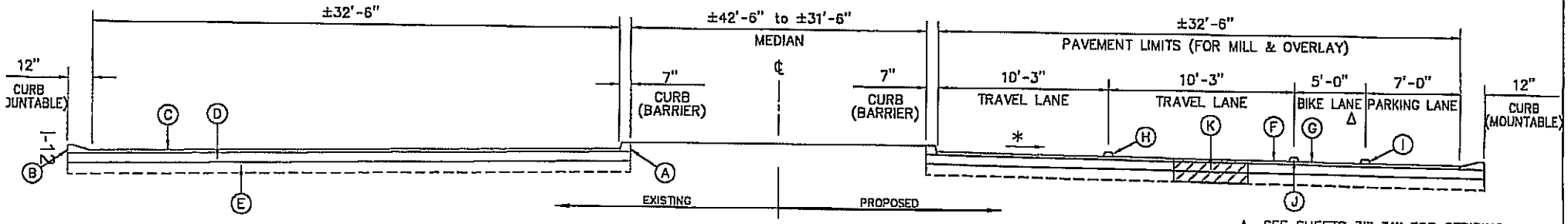
FINAL PLANS

\PROJECTS\08-4626 New Orleans Roads Grp 6\Drawings\Revised ARRA 042809\Mirabeau Ave\08-4626 Mirabeau Replacement Typical Sections.dwg $DATE$ $TIME$



HALF SECTION
MIRABEAU AVENUE (ST. BERNARD AVE. - PARIS AVE.)
STA. 9+72.03 - STA. 35+25.21

REFER TO SHEET 2J FOR TYPICAL SECTION NOTES
REFER TO TABLES B10-1, B10-2 AND B10-6 ON SHEET 2k FOR BORING DETAILS



HALF SECTION
MIRABEAU AVENUE (PARIS AVE. - CROSSOVER)
STA. 35+25.21 - STA. 37+86.06

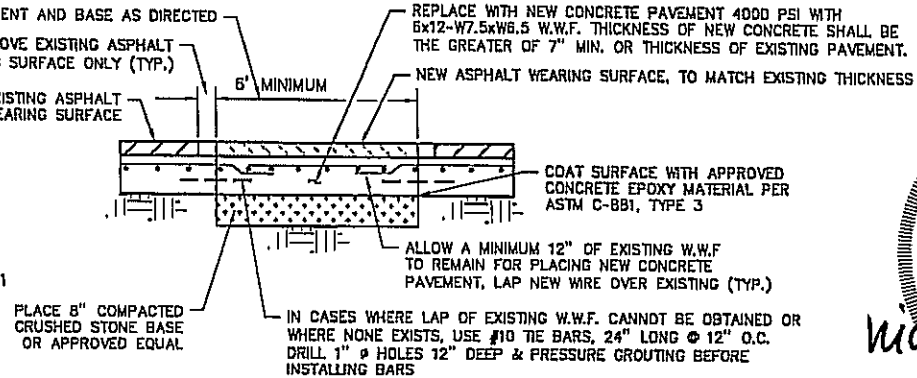
REFER TO SHEET 2J FOR TYPICAL SECTION NOTES
REFER TO TABLES B10-1, B10-2 AND B10-6 ON SHEET 2k FOR BORING DETAILS

Δ SEE SHEETS 3iii-3jjj FOR STRIPING AND SIGNAGE DETAILS.

* MATCH EXISTING CROSS SLOPE. ADJUST AS NECESSARY TO ENSURE POSITIVE DRAINAGE (1.5% MIN.)

LEGEND - TYPICAL SECTION

- (A) EXISTING INTEGRAL CONCRETE CURB (BARRIER)
- (B) EXISTING INTEGRAL CONCRETE CURB (MOUNTABLE)
- (C) EXISTING ASPHALTIC CONCRETE
- (D) EXISTING PORTLAND CEMENT CONCRETE
- (E) EXISTING SUBGRADE LAYER (DARK GRAY SANDY CLAY) (GRAY SANDY CLAY ROOTS SHELL FRAGMENT) (GRAY CLAY)(GRAY SANDY CLAY W/ ROOTS) (GRAY CLAY W/ IRON NODULES, ROOTS, ORGANICS AND SAND POCKETS)
- (F) COLD PLANING ASPHALTIC CONCRETE (2" AVG. DEPTH)
- (G) 2" AVG. DEPTH SUPERPAVE ASPHALTIC CONCRETE WEARING COURSE, LEVEL 1
- (H) 4" BROKEN WHITE LINE PER N.O. DPW STD 10 (732-03-01000) W/ REFLECTORIZED RAISED PAVEMENT MARKERS (731-02-00100)
- (I) 4" SOLID WHITE LINE PER N.O. DPW STD 10 (732-02-01000)
- (J) 6" SOLID WHITE LINE PER N.O. DPW STD 10 (732-02-01000)
- (K) CONCRETE REPAIR



CONCRETE PAVEMENT REPAIR DETAIL
N.T.S.

STATE OF LOUISIANA
NICHOLAS J. OLIVIER
License No. 33351
PROFESSIONAL ENGINEER
5/6/09

CIVIL DESIGN & CONSTRUCTION

DOTD TRANSPORTATION AND DEVELOPMENT

MIRABEAU AVENUE

TYPICAL SECTIONS

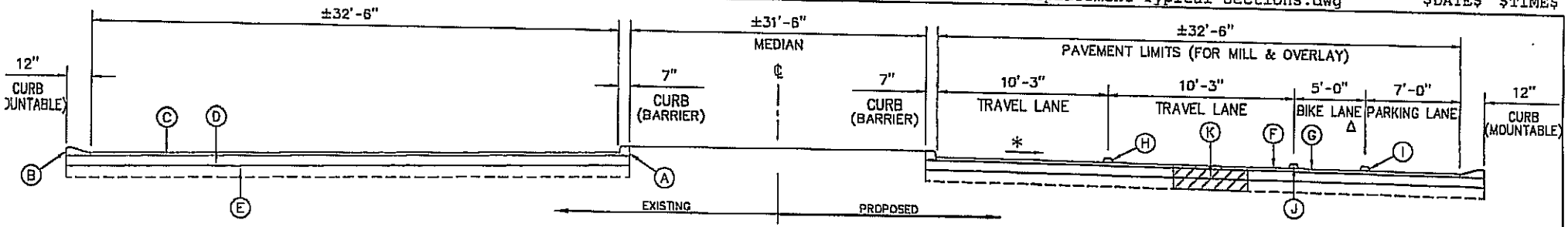
NO.	DATE	REVISION DESCRIPTION	BY

DESIGNED / CHECKED	NJO / KEW	PARISH	ORLEANS
DETAILED / CHECKED	CMR / NJO	FEDERAL PROJECT	ER-ERP1(050)
DATE / SHEET	FEB. 2009 / 1 OF 6	STATE PROJECT	704-36-0034

SHEET NUMBER 2f

FINAL PLANS

\PROJECTS\08-4626 New Orleans Roads Grp 6\Drawings\Revised ARRA 042809\Mirabeau Ave\08-4626 Mirabeau Replacement Typical Sections.dwg $DATE$ $TIME$



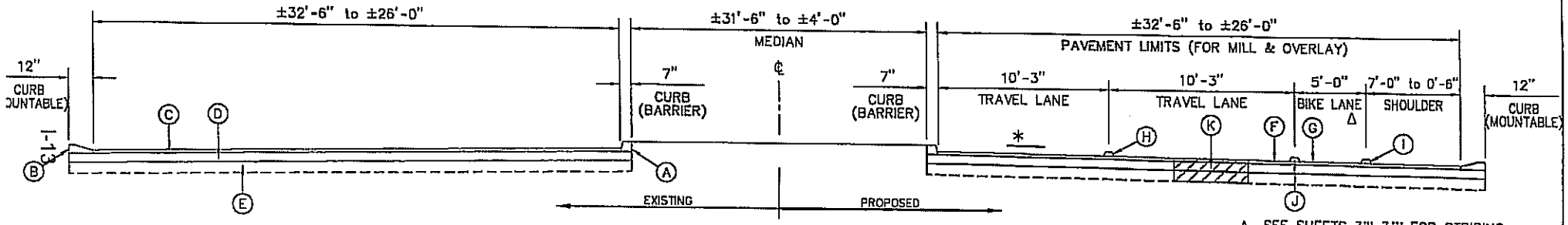
HALF SECTION

MIRABEAU AVENUE (CROSSOVER - PRATT DR.)

STA. 37+66.06 - STA. 47+60.36

REFER TO SHEET 2J FOR TYPICAL SECTION NOTES

REFER TO TABLES B10-5 AND B10-7 ON SHEET 2k FOR BORING DETAILS



HALF SECTION

MIRABEAU AVENUE (PRATT DR. - BEGIN BRIDGE APPROACH SLAB)

STA. 47+60.36 - STA. 49+45.00

REFER TO SHEET 2J FOR TYPICAL SECTION NOTES

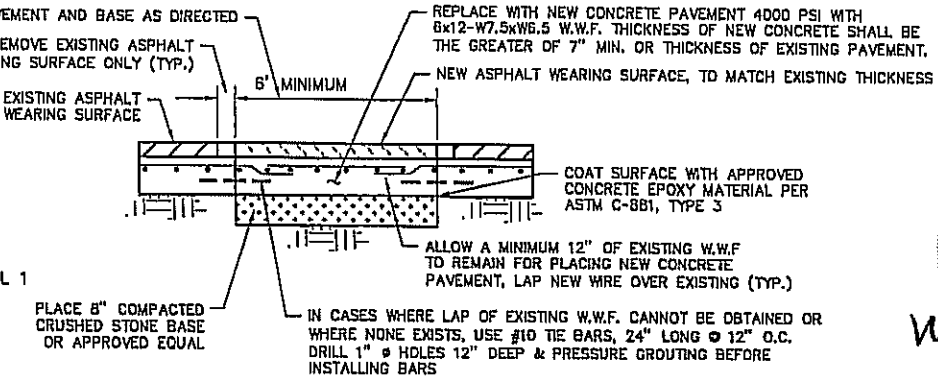
REFER TO TABLES B10-5 AND B10-7 ON SHEET 2k FOR BORING DETAILS

Δ SEE SHEETS 3iii-3jjj FOR STRIPING AND SIGNAGE DETAILS.

* MATCH EXISTING CROSS SLOPE. ADJUST AS NECESSARY TO ENSURE POSITIVE DRAINAGE (1.5% MIN.)

LEGEND - TYPICAL SECTION

- (A) EXISTING INTEGRAL CONCRETE CURB (BARRIER)
- (B) EXISTING INTEGRAL CONCRETE CURB (MOUNTABLE)
- (C) EXISTING ASPHALTIC CONCRETE
- (D) EXISTING PORTLAND CEMENT CONCRETE
- (E) EXISTING SUBGRADE LAYER (DARK GRAY SANDY CLAY) (GRAY SANDY CLAY ROOTS SHELL FRAGMENT) (GRAY CLAY)(GRAY SANDY CLAY W/ ROOTS) (GRAY CLAY W/ IRON NODULES, ROOTS, ORGANICS AND SAND POCKETS)
- (F) COLD PLANING ASPHALTIC CONCRETE (2" AVG. DEPTH)
- (G) 2" AVG. DEPTH SUPERPAVE ASPHALTIC CONCRETE WEARING COURSE, LEVEL 1
- (H) 4" BROKEN WHITE LINE PER N.O. DPW STD 10 (732-03-01000) W/ REFLECTORIZED RAISED PAVEMENT MARKERS (731-02-00100)
- (I) 4" SOLID WHITE LINE PER N.O. DPW STD 10 (732-02-01000)
- (J) 6" SOLID WHITE LINE PER N.O. DPW STD 10 (732-02-01000)
- (K) CONCRETE REPAIR



CONCRETE PAVEMENT REPAIR DETAIL

N.T.S.

STATE OF LOUISIANA
NICHOLAS J. OLIVIER
License No. 33351
PROFESSIONAL ENGINEER
5/6/09

CIVIL DESIGN & CONSTRUCTION

DOTD TRANSPORTATION AND DEVELOPMENT

MIRABEAU AVENUE

TYPICAL SECTIONS

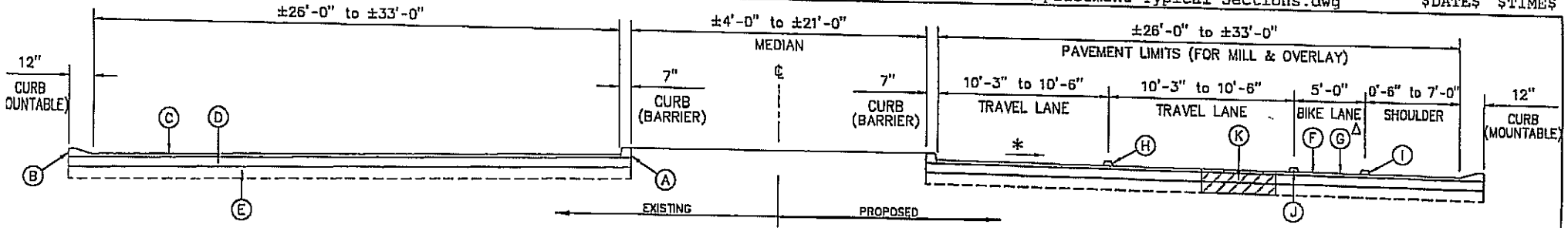
NO.	DATE	REVISION DESCRIPTION	BY

DESIGNED / CHECKED	NJO / KEW	PARISH	ORLEANS
DETAILED / CHECKED	CMR / NJO	FEDERAL PROJECT	ER-ERP1(050)
DATE / SHEET	FEB. 2009 / 2 OF 6	STATE PROJECT	704-36-0034

SHEET NUMBER 2g

FINAL PLANS

:\PROJECTS\08-4626 New Orleans Roads Grp 6\Drawings\Revised ARRA 042809\Mirabeau Ave\08-4626 Mirabeau Replacement Typical Sections.dwg $DATE$ $TIME$



HALF SECTION

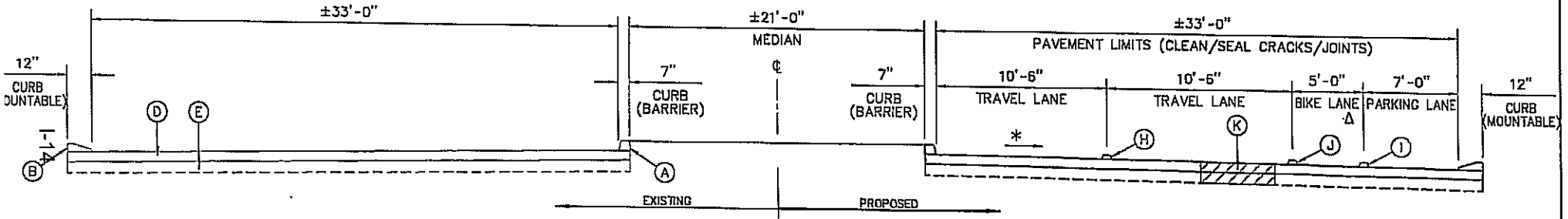
MIRABEAU AVENUE (END BRIDGE APPROACH SLAB - WARRINGTON ST.)

STA. 51+65.00 - STA. 53+66.06

[BRIDGE: STA. 49+85 – STA. 51+25]

REFER TO SHEET 2J FOR TYPICAL SECTION NOTES

REFER TO TABLE B10-3 ON SHEET 2k FOR BORING DETAILS



HALF SECTION

MIRABEAU AVENUE (WARRINGTON ST. - ANNETTE ST.)

STA. 53+66.06 - STA. 62+28.05

REFER TO SHEET 2J FOR TYPICAL SECTION NOTES

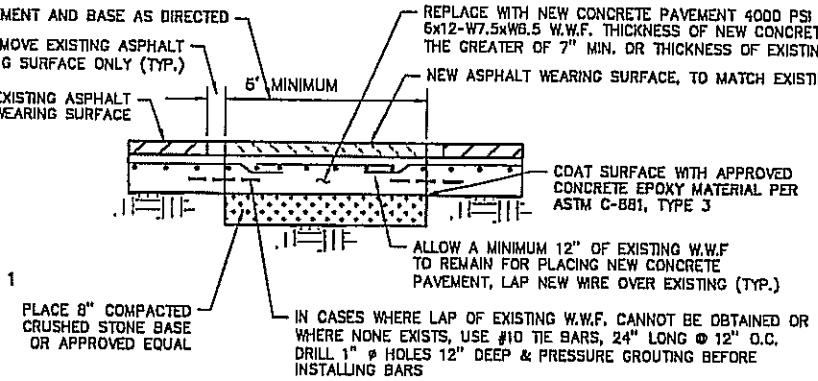
REFER TO TABLE B10-3 ON SHEET 2k FOR BORING DETAILS

Δ SEE SHEETS 3iii-3jjj FOR STRIPING AND SIGNAGE DETAILS.

* MATCH EXISTING CROSS SLOPE. ADJUST AS NECESSARY TO ENSURE POSITIVE DRAINAGE (1.5% MIN.)

LEGEND - TYPICAL SECTION

- (A) EXISTING INTEGRAL CONCRETE CURB (BARRIER)
- (B) EXISTING INTEGRAL CONCRETE CURB (MOUNTABLE)
- (C) EXISTING ASPHALTIC CONCRETE
- (D) EXISTING PORTLAND CEMENT CONCRETE
- (E) EXISTING SUBGRADE LAYER (DARK GRAY SANDY CLAY) (GRAY SANDY CLAY ROOTS SHELL FRAGMENT) (GRAY CLAY)(GRAY SANDY CLAY W/ ROOTS) (GRAY CLAY W/ IRON NODULES, ROOTS, ORGANICS AND SAND POCKETS)
- (F) COLD PLANING ASPHALTIC CONCRETE (2" AVG. DEPTH)
- (G) 2" AVG. DEPTH SUPERPAVE ASPHALTIC CONCRETE WEARING COURSE, LEVEL 1
- (H) 4" BROKEN WHITE LINE PER N.O. DPW STD 10 (732-03-01000) W/ REFLECTORIZED RAISED PAVEMENT MARKERS (731-02-00100)
- (I) 4" SOLID WHITE LINE PER N.O. DPW STD 10 (732-02-01000)
- (J) 6" SOLID WHITE LINE PER N.O. DPW STD 10 (732-02-01000)
- (K) CONCRETE REPAIR



CONCRETE PAVEMENT REPAIR DETAIL

N.T.S.

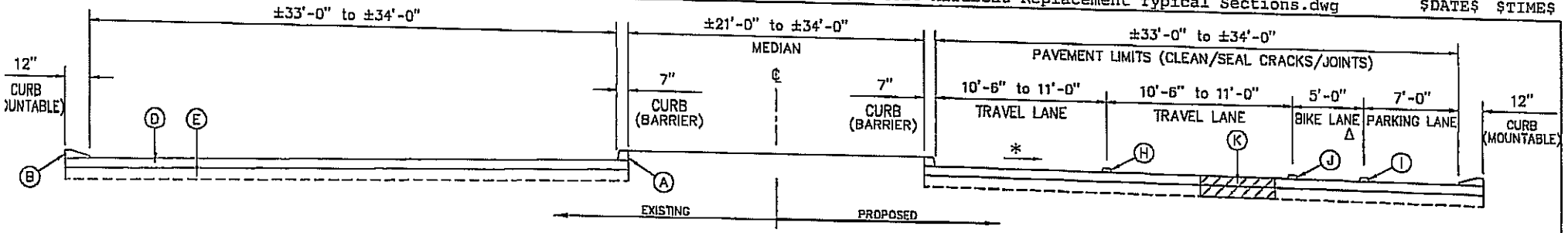
STATE OF LOUISIANA
NICHOLAS J. OLIVIER
License No. 33351
PROFESSIONAL ENGINEER
CIVIL ENGINEERING
5/6/09

CIVIL DESIGN & CONSTRUCTION	MIRABEAU AVENUE	DESIGNED NJO / CHECKED KEW	PARISH ORLEANS
DOTD	TYPICAL SECTIONS	DETAILED CMR / CHECKED NJO	FEDERAL PROJECT ER-ERP1(050)
		DATE FEB. 2009	STATE PROJECT 704-36-0034

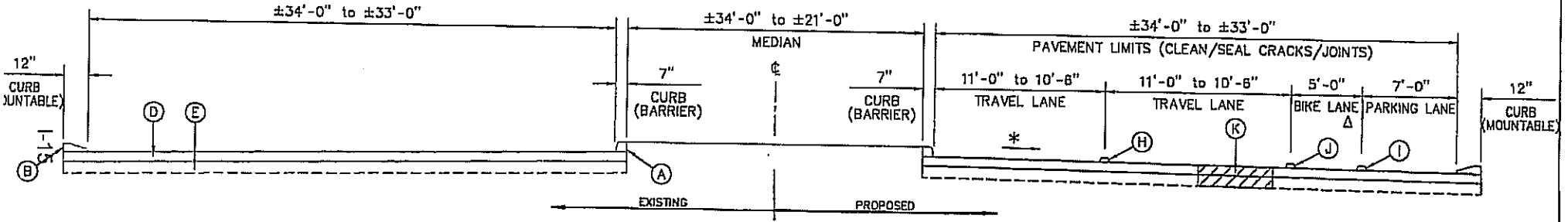
SHEET NUMBER 2h

FINAL PLANS

\PROJECTS\08-4626 New Orleans Roads Grp 6\Drawings\Revised ARRA 042809\Mirabeau Ave\08-4626 Mirabeau Replacement Typical Sections.dwg $DATE$ $TIME$



HALF SECTION
MIRABEAU AVENUE (ANNETTE ST. - ST. ANTHONY AVE.)
STA. 62+28.05 - STA. 65+99.28
REFER TO SHEET 2j FOR TYPICAL SECTION NOTES
REFER TO TABLE B10-3 ON SHEET 2k FOR CORING CORING DETAILS



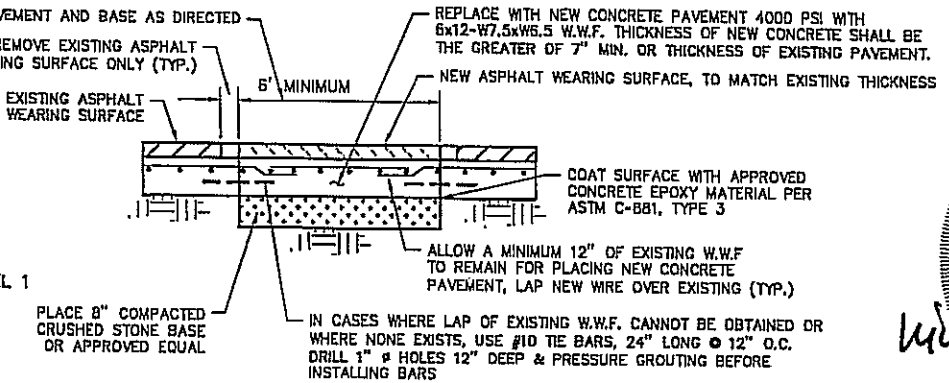
HALF SECTION
MIRABEAU AVENUE (ST. ANTHONY AVE. - PAUGER AVE.)
STA. 65+99.28 - STA. 69+58.45
REFER TO SHEET 2j FOR TYPICAL SECTION NOTES
REFER TO TABLE B10-3 ON SHEET 2k FOR BORING DETAILS

Δ SEE SHEETS 3iii-3jjj FOR STRIPING AND SIGNAGE DETAILS.

* MATCH EXISTING CROSS SLOPE. ADJUST AS NECESSARY TO ENSURE POSITIVE DRAINAGE (1.5% MIN.)

LEGEND - TYPICAL SECTION

- (A) EXISTING INTEGRAL CONCRETE CURB (BARRIER)
- (B) EXISTING INTEGRAL CONCRETE CURB (MOUNTABLE)
- (C) EXISTING ASPHALTIC CONCRETE
- (D) EXISTING PORTLAND CEMENT CONCRETE
- (E) EXISTING SUBGRADE LAYER (DARK GRAY SANDY CLAY) (GRAY SANDY CLAY ROOTS SHELL FRAGMENT) (GRAY CLAY)(GRAY SANDY CLAY W/ ROOTS) (GRAY CLAY W/ IRON NODULES, ROOTS, ORGANICS AND SAND POCKETS)
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- (J) 4" SOLID WHITE LINE PER N.O. DPW STD 10 (732-02-01000)
- (J) 6" SOLID WHITE LINE PER N.O. DPW STD 10 (732-02-01000)
- (K) CONCRETE REPAIR



CONCRETE PAVEMENT REPAIR DETAIL
N.T.S.

STATE OF LOUISIANA
NICHOLAS J. OLIVIER
License No. 33351
PROFESSIONAL ENGINEER
IN
ENGINEERING
4/6/09

CIVIL DESIGN & CONSTRUCTION

DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT — DOTD

MIRABEAU AVENUE

TYPICAL SECTIONS

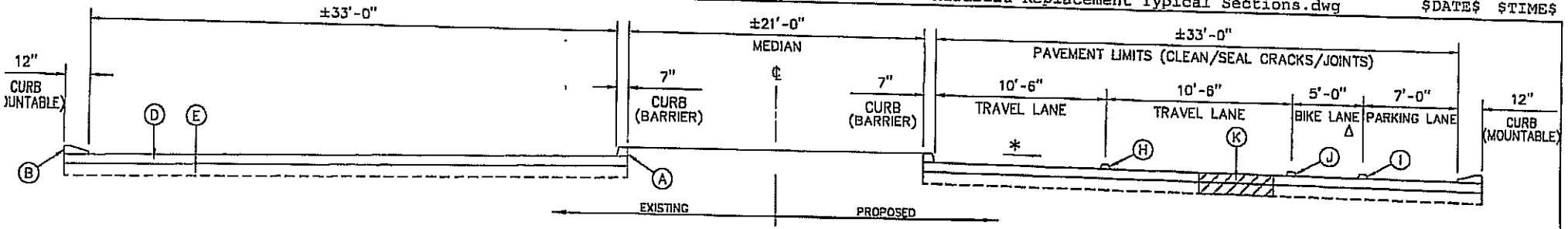
STATE OF LOUISIANA — DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT — CERTIFIED

NO.	DATE	REVISION DESCRIPTION

DESIGNED	NJO	PARISH	ORLEANS
CHECKED	KEW		
DETAILED	CMR	FEDERAL PROJECT	ER-ERP1(050)
CHECKED	NJO		
DATE	FEB. 2009	STATE PROJECT	704-36-0034
SHEET	4 OF 6		

SHEET NUMBER 21

\PROJECTS\08-4626 New Orleans Roads Grp 6\Drawings\Revised ARRA 042809\Mirabeau Ave\08-4626 Mirabeau Replacement Typical Sections.dwg $DATE$ $TIME$

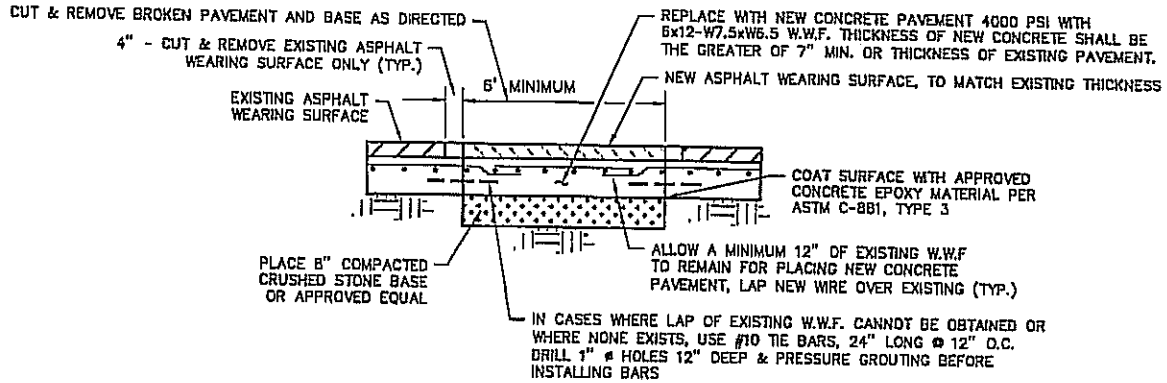


HALF SECTION
MIRABEAU AVENUE (PAUGER AVE. - ELYSIAN FIELDS AVE)
STA. 69+58.45 - STA. 80+33.57

REFER TO THIS SHEET FOR TYPICAL SECTION NOTES
REFER TO TABLES B10-4 AND B10-8 ON SHEET 2k FOR BORING DETAILS

Δ SEE SHEETS 3iii-3jjj FOR STRIPING AND SIGNAGE DETAILS.

* MATCH EXISTING CROSS SLOPE. ADJUST AS NECESSARY TO ENSURE POSITIVE DRAINAGE (1.5% MIN.)



CONCRETE PAVEMENT REPAIR DETAIL
N.T.S.

STATE OF LOUISIANA
NICHOLAS J. OLIVIER
License No. 33351
PROFESSIONAL ENGINEER
CIVIL ENGINEERING
4/6/09

LEGEND - TYPICAL SECTION

(A) EXISTING INTEGRAL CONCRETE CURB (BARRIER)
(B) EXISTING INTEGRAL CONCRETE CURB (MOUNTABLE)
(C) EXISTING ASPHALTIC CONCRETE
(D) EXISTING PORTLAND CEMENT CONCRETE
(E) EXISTING SUBGRADE LAYER (DARK GRAY SANDY CLAY) (GRAY SANDY CLAY ROOTS SHELL FRAGMENT) (GRAY CLAY)(GRAY SANDY CLAY W/ ROOTS) (GRAY CLAY W/ IRON NODULES, ROOTS, ORGANICS AND SAND POCKETS)
(F) COLD PLANING ASPHALTIC CONCRETE (2" AVG. DEPTH)
(G) 2" AVG. DEPTH SUPERPAVE ASPHALTIC CONCRETE WEARING COURSE, LEVEL 1
(H) 4" BROKEN WHITE LINE PER N.O. DPW STD 10 (732-03-01000) W/ REFLECTORIZED RAISED PAVEMENT MARKERS (731-02-00100)
(I) 4" SOLID WHITE LINE PER N.O. DPW STD 10 (732-02-01000)
(J) 6" SOLID WHITE LINE PER N.O. DPW STD 10 (732-02-01000)
(K) CONCRETE REPAIR

NOTES-TYPICAL SECTIONS:

1. USE MIN. SLOPE OF 1.5% IN AREAS OF PAVEMENT FAILURES. MAINTAIN EXISTING GRADE OF OUTER EDGE OF PAVEMENT TO ESTABLISH SLOPE. LEVELING MAY BE REQUIRED TO ACHIEVE SLOPE (502-01-00100).
2. REFER TO PLAN SHEETS FOR LOCATION AND DIMENSIONS OF CONCRETE REPAIR AND CONCRETE CURB REPAIR.
3. CONTRACTOR SHALL PATCH ROADWAY PRIOR TO OVERLAY WITH FULL DEPTH CONCRETE PATCH AT LOCATIONS DETERMINED IN THE FIELD AND/OR AS DIRECTED BY THE PROJECT ENGINEER. THE PROJECT ENGINEER SHALL IDENTIFY LOCATIONS FROM ST. BERNARD AVENUE TO ELYSIAN FIELDS AVENUE REQUIRING JOINT SEALANT. PAVEMENT PATCHING AND JOINT SEALING SHALL BE CONSTRUCTED IN ACCORDANCE WITH N.O. SPW STD. 2, 4-6.
4. 100% OF RAP MATERIAL TO BE RETAINED BY THE CONTRACTOR. THE DEPARTMENT DOES NOT GUARANTEE IN any WAY THE QUALITY OF THE RAP MATERIAL.
5. **UPON COMPLETION OF COLD PLANING, THE PROJECT ENGINEER MAY REQUIRE ADDITIONAL ASPHALT REMOVAL SHOULD THE REMAINING THICKNESS BE LESS THAN ONE INCH (1").**
6. REFER TO TITLE SHEET FOR APPLICABLE STANDARD PLANS AND DETAILS USED FOR THIS PROJECT.

I-16

CIVIL DESIGN & CONSTRUCTION

MIRABEAU AVENUE

TYPICAL SECTIONS

DESIGNED	NJO	PARISH	ORLEANS
CHECKED	KEW		
DETAILED	CMR	FEDERAL PROJECT	ER-ERP1(050)
CHECKED	NJO		
DATE	FEB. 2009	STATE	704-36-0074

SHEET NUMBER 21

BORE#: B10-1 (WB LANE - 600' W OF ST. BERNARD)	
LAYER TYPE	LAYER THICKNESS (INCHES)
AC	1.75
PCC	10.75
AC	2.00
SUBGRADE	-

BORE#: B10-2 (WB LANE - 950' W OF PRATT DR.)	
LAYER TYPE	LAYER THICKNESS (INCHES)
AC	3.50
PCC	7.75
SUBGRADE	-

BORE#: B10-3 (WB LANE - 100' W OF ST. ANTHONY)	
LAYER TYPE	LAYER THICKNESS (INCHES)
PCC	6.25
SUBGRADE	-

BORE#: B10-4 (WB LANE - 250' W OF FRENCHMAN ST.)	
LAYER TYPE	LAYER THICKNESS (INCHES)
PCC	7.25
SUBGRADE	-

BORE#: B10-5 (WB LANE - 450' W OF WARRINGTON DR.)	
LAYER TYPE	LAYER THICKNESS (INCHES)
AC	2.25
AC	2.50
AC	1.25
AC	3.75
SUBGRADE	-

BORE#: B10-6 (EB LANE - 200' E OF CARTIER AVE.)	
LAYER TYPE	LAYER THICKNESS (INCHES)
AC	4.00
SUBGRADE	-

BORE#: B10-7 (EB LANE - 1100' E OF PARIS AVE.)	
LAYER TYPE	LAYER THICKNESS (INCHES)
AC	3.25
PCC	8.50
SUBGRADE	-

BORE#: B10-8 (EB LANE - 150' E OF CAMERON BLVD.)	
LAYER TYPE	LAYER THICKNESS (INCHES)
PCC	7.25
SUBGRADE	-

STATE OF LOUISIANA
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CIVIL DESIGN & CONSTRUCTION

DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT DOTD

MIRABEAU AVENUE

TYPICAL SECTIONS

STATE OF LOUISIANA

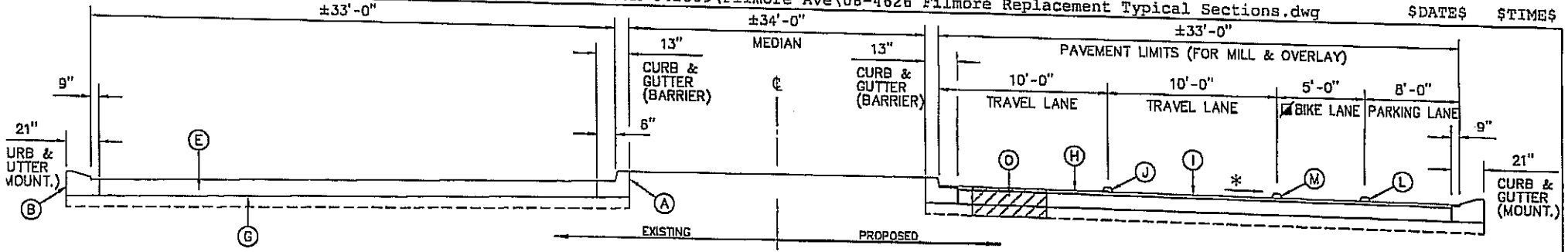
NO.	DATE	REVISION DESCRIPTION

DESIGNED	NJO	PARISH	ORLEANS
CHECKED	KEW		
DETAILED	CMR	FEDERAL PROJECT	ER-ERP1(050)
CHECKED	NJO		
DATE	FEB. 2009	STATE PROJECT	704-36-0034

SHEET NUMBER 2k

FINAL PLANS

\PROJECTS\08-4626 New Orleans Roads Grp 6\Drawings\Revised ARRA 042809\Filmore Ave\08-4626 Filmore Replacement Typical Sections.dwg $DATE$ $TIME$



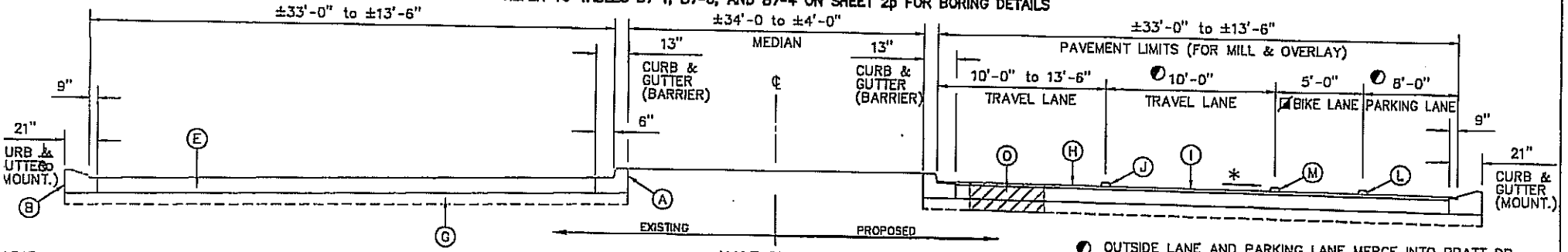
HALF SECTION

FILMORE AVENUE (ST. BERNARD AVE. - CHARLOTTE DR.)

STA. 100+78.92 - STA. 133+79.71

REFER TO SHEET 2o FOR TYPICAL SECTION NOTES

REFER TO TABLES B7-1, B7-3, AND B7-4 ON SHEET 2p FOR BORING DETAILS



HALF SECTION

FILMORE AVENUE (CHARLOTTE DR. - BEGIN BRIDGE)

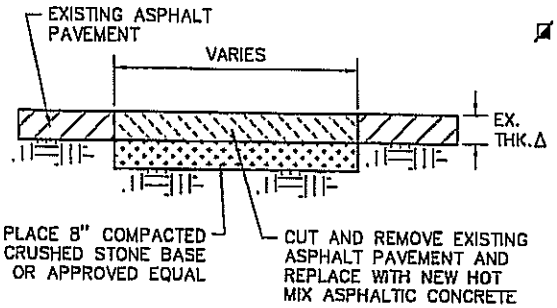
STA. 133+79.71 - STA. 138+52.00

REFER TO SHEET 2o FOR TYPICAL SECTION NOTES

REFER TO TABLES B7-1, B7-3, AND B7-4 ON SHEET 2p FOR BORING DETAILS

LEGEND - TYPICAL SECTION

- (A) EXISTING CONCRETE CURB & GUTTER (BARRIER)
- (B) EXISTING CONCRETE CURB & GUTTER (MOUNTABLE)
- (C) EXISTING INTEGRAL CONCRETE CURB (BARRIER)
- (D) EXISTING INTEGRAL CONCRETE CURB (MOUNTABLE)
- (E) EXISTING ASPHALTIC CONCRETE
- (F) EXISTING PORTLAND CEMENT CONCRETE
- (G) EXISTING SUBGRADE LAYER (DARK BROWN SILTY CLAY W/ ORGANICS, SHELL FRAGMENTS AND GRAVEL) (GRAY SILTY CLAY)
- (H) COLD PLANING ASPHALTIC CONCRETE (2" AVG. DEPTH)
- (I) 2" AVG. DEPTH SUPERPAVE ASPHALTIC CONCRETE WEARING COURSE, LEVEL 1
- (J) 4" BROKEN WHITE LINE PER N.O. DPW STD 10 (732-03-01000) W/ REFLECTORIZED RAISED PAVEMENT MARKERS (731-02-0010D)
- (K) 4" SOLID YELLOW LINE PER N.O. DPW STD 10 (732-02-01000)
- (L) 4" SOLID WHITE LINE PER N.O. DPW STD 10 (732-02-01000)
- (M) 6" SOLID WHITE LINE PER N.O. DPW STD 10 (732-02-01000)
- (N) CONCRETE REPAIR
- (O) ASPHALT PATCHING



ASPHALT PATCHING DETAIL

N.T.S.

Δ THICKNESS OF NEW PAVEMENT TO MATCH THE EXISTING (13" MIN.)

◐ OUTSIDE LANE AND PARKING LANE MERGE INTO PRATT DR. AND DO NOT CONTINUE THROUGH BRIDGE CROSSING AND DO NOT CONTRIBUTE TO THE 13'-6" PAVEMENT LIMIT DIMENSION.

* MATCH EXISTING CROSS SLOPE, ADJUST AS NECESSARY TO ENSURE POSITIVE DRAINAGE (1.5% MIN.)

SEE SHEETS 3kkk-3lll FOR STRIPING AND SIGNAGE DETAILS.

STATE OF LOUISIANA
NICHOLAS J. OLIVIER
License No. 33351
PROFESSIONAL ENGINEER
CIVIL ENGINEERING
5/6/09

CIVIL DESIGN & CONSTRUCTION

DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT DOTD

FILMORE AVENUE

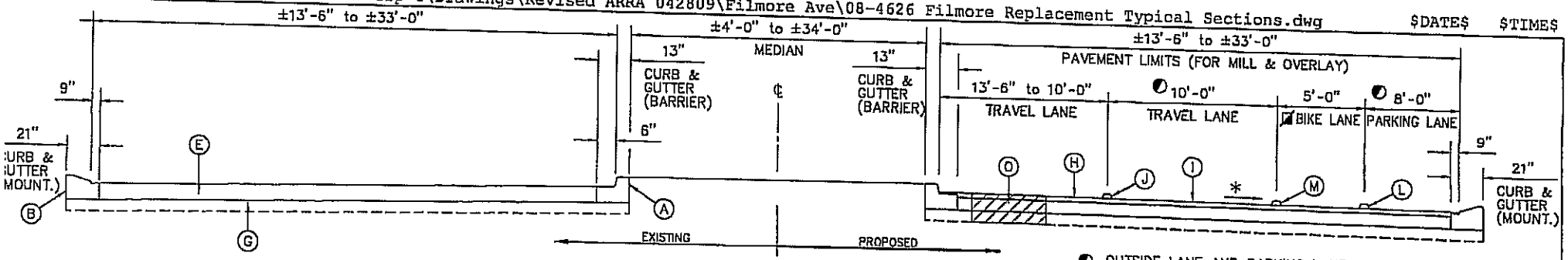
TYPICAL SECTIONS

NO.	DATE	REVISION DESCRIPTION	BY

DESIGNED / CHECKED	NJO / KEW	PARISH	ORLEANS
DETAILED / CHECKED	CMR / NJO	FEDERAL PROJECT	ER--ERP1(051)
DATE / SHEET	FEB. 2009 / 1 OF 5	STATE PROJECT	704-36-0035

SHEET NUMBER 21

:\PROJECTS\08-4626 New Orleans Roads Grp 6\Drawings\Revised ARRA 042809\Filmore Ave\08-4626 Filmore Replacement Typical Sections.dwg $DATE$ $TIME$



HALF SECTION
FILMORE AVENUE (END OF BRIDGE - WICKFIELD DR.)
STA. 140+82.00 - 145+79.87

REFER TO SHEET 2o FOR TYPICAL SECTION NOTES
REFER TO TABLE B7-2 ON SHEET 2p FOR BORING DETAILS

◐ OUTSIDE LANE AND PARKING LANE MERGE INTO PRATT DR. AND DO NOT CONTINUE THROUGH BRIDGE CROSSING AND DO NOT CONTRIBUTE TO THE 13'-6" PAVEMENT LIMIT DIMENSION.

* MATCH EXISTING CROSS SLOPE. ADJUST AS NECESSARY TO ENSURE POSITIVE DRAINAGE (1.5% MIN.)

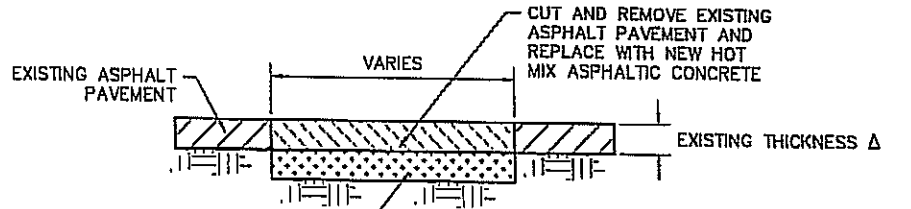
SEE SHEETS 3kkk-3lll FOR STRIPING AND SIGNAGE DETAILS.

I-19

LEGEND - TYPICAL SECTION

- (A) EXISTING CONCRETE CURB & GUTTER (BARRIER)
- (B) EXISTING CONCRETE CURB & GUTTER (MOUNTABLE)
- (C) EXISTING INTEGRAL CONCRETE CURB (BARRIER)
- (D) EXISTING INTEGRAL CONCRETE CURB (MOUNTABLE)
- (E) EXISTING ASPHALTIC CONCRETE
- (F) EXISTING PORTLAND CEMENT CONCRETE
- (G) EXISTING SUBGRADE LAYER (DARK BROWN SILTY CLAY W/ ORGANICS, SHELL FRAGMENTS AND GRAVEL) (GRAY SILTY CLAY)
- (H) COLD PLANING ASPHALTIC CONCRETE (2" AVG. DEPTH)
- (I) 2" AVG. DEPTH SUPERPAVE ASPHALTIC CONCRETE WEARING COURSE, LEVEL 1
- (J) 4" BROKEN WHITE LINE PER N.O. DPW STD 10 (732-03-01000) W/ REFLECTORIZED RAISED PAVEMENT MARKERS (731-02-00100)
- (K) 4" SOLID YELLOW LINE PER N.O. DPW STD 10 (732-02-01000)
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- (N) CONCRETE REPAIR
- (O) ASPHALT PATCHING

STATE OF LOUISIANA
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PROFESSIONAL ENGINEER
CIVIL ENGINEER
5/6/09



ASPHALT PATCHING DETAIL
N.T.S.

CIVIL DESIGN & CONSTRUCTION

DOTD TRANSPORTATION AND DEVELOPMENT

FILMORE AVENUE

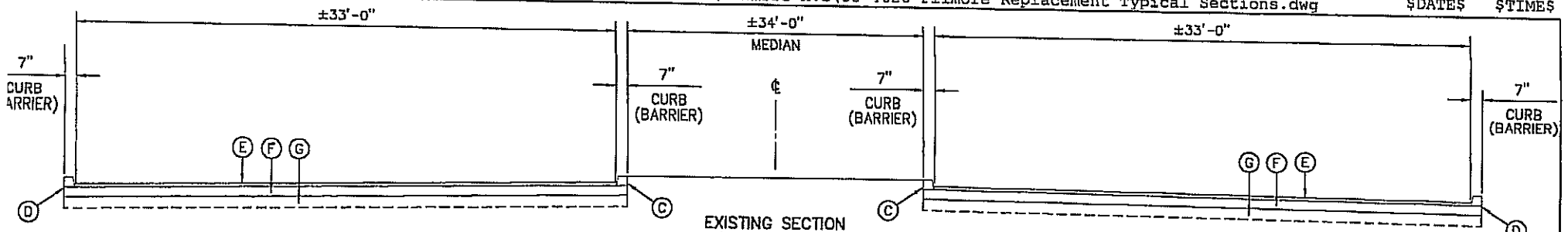
TYPICAL SECTIONS

NO.	DATE	REVISION DESCRIPTION

DESIGNED / CHECKED	NJO / KEW	PARISH	ORLEANS
DETAILED / CHECKED	CMR / NJO	FEDERAL PROJECT	ER-ERP1(051)
DATE	FEB. 2009	STATE PROJECT	704-36-0035

SHEET NUMBER 21

\PROJECTS\08-4626 New Orleans Roads Grp 6\Drawings\Revised ARRA 042809\Filmore Ave\08-4626 Filmore Replacement Typical Sections.dwg $DATE$ $TIME$



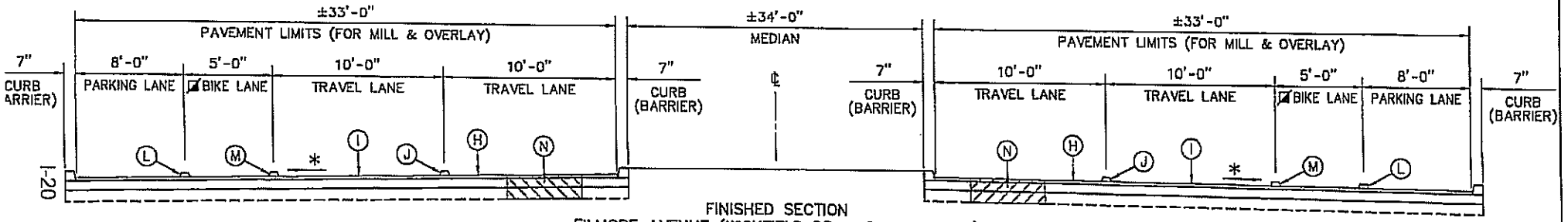
EXISTING SECTION

FILMORE AVENUE (WICKFIELD DR. - PASTEUR DR.)

STA. 145+79.87 - STA. 162+52.66

REFER TO SHEET 2o FOR TYPICAL SECTION NOTES

REFER TO TABLES B7-2 AND B7-5 ON SHEET 2p FOR BORING DETAILS



FINISHED SECTION

FILMORE AVENUE (WICKFIELD DR. - PASTEUR DR.)

STA. 145+79.87 - STA. 162+52.66

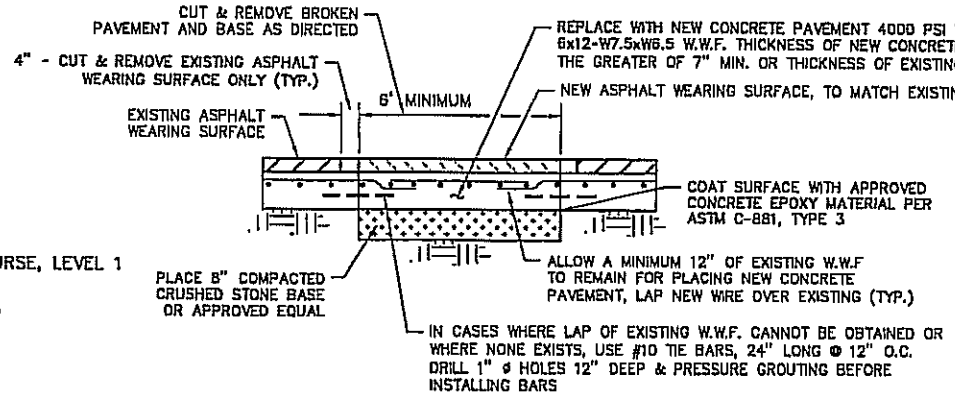
REFER TO SHEET 2o FOR TYPICAL SECTION NOTES

* MATCH EXISTING CROSS SLOPE. ADJUST AS NECESSARY TO ENSURE POSITIVE DRAINAGE (1.5% MIN.)

☑ SEE SHEETS 3kkk-3lll FOR STRIPING AND SIGNAGE DETAILS.

LEGEND - TYPICAL SECTION

- (A) EXISTING CONCRETE CURB & GUTTER (BARRIER)
- (B) EXISTING CONCRETE CURB & GUTTER (MOUNTABLE)
- (C) EXISTING INTEGRAL CONCRETE CURB (BARRIER)
- (D) EXISTING INTEGRAL CONCRETE CURB (MOUNTABLE)
- (E) EXISTING ASPHALTIC CONCRETE
- (F) EXISTING PORTLAND CEMENT CONCRETE
- (G) EXISTING SUBGRADE LAYER (DARK BROWN SILTY CLAY W/ ORGANICS, SHELL FRAGMENTS AND GRAVEL) (GRAY SILTY CLAY)
- (H) COLD PLANING ASPHALTIC CONCRETE (2" AVG. DEPTH)
- (I) 2" AVG. DEPTH SUPERPAVE ASPHALTIC CONCRETE WEARING COURSE, LEVEL 1
- (J) 4" BROKEN WHITE LINE PER N.O. DPW STD 10 (732-03-01000) W/ REFLECTORIZED RAISED PAVEMENT MARKERS (731-02-00100)
- (K) 4" SOLID YELLOW LINE PER N.O. DPW STD 10 (732-02-01000)
- (L) 4" SOLID WHITE LINE PER N.O. DPW STD 10 (732-02-01000)
- (M) 6" SOLID WHITE LINE PER N.O. DPW STD 10 (732-02-01000)
- (N) CONCRETE REPAIR
- (O) ASPHALT PATCHING



CONCRETE PAVEMENT REPAIR DETAIL

N.T.S.

STATE OF LOUISIANA
NICHOLAS J. OLIVIER
License No. 33351
PROFESSIONAL ENGINEER
5/6/09

CIVIL DESIGN & CONSTRUCTION

DOTD TRANSPORTATION AND DEVELOPMENT

FILMORE AVENUE

TYPICAL SECTIONS

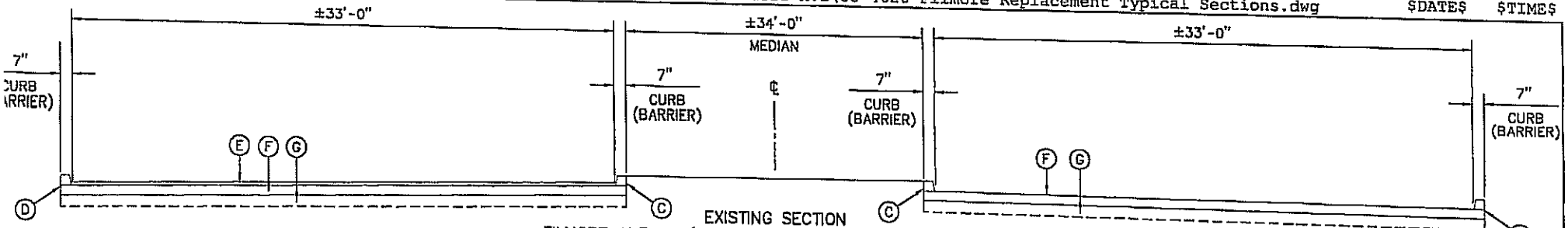
NO.	DATE	REVISION DESCRIPTION	BY

DESIGNED / CHECKED	NJO / KEW	PARISH	ORLEANS
DETAILED / CHECKED	CMR / NJO	FEDERAL PROJECT	ER-ERP1(051)
DATE / SHEET	FEB. 2009 / 3 OF 5	STATE PROJECT	704-36-0035

SHEET NUMBER 2n

FINAL PLANS

\PROJECTS\08-4626 New Orleans Roads Grp 6\Drawings\Revised ARRA 042809\Filmore Ave\08-4626 Filmore Replacement Typical Sections.dwg $DATE$ $TIME$



EXISTING SECTION

FILMORE AVENUE (PASTEUR DR. - ELYSIAN FIELDS AVE.)

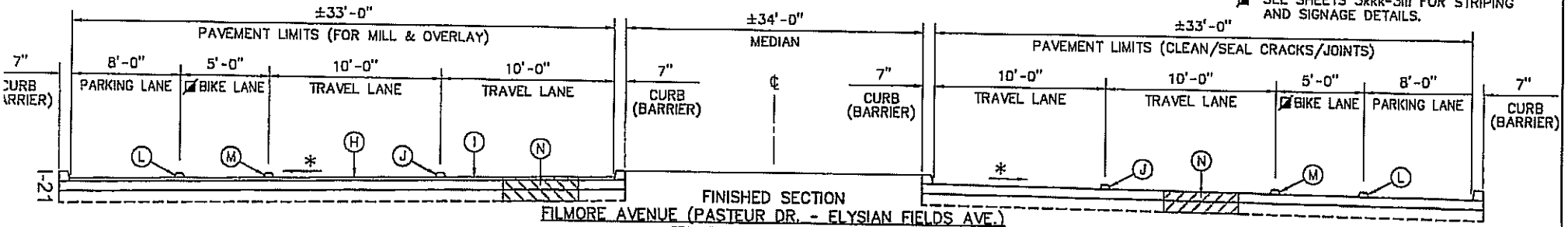
STA. 162+52.66 - STA. 169+49.82

REFER THIS SHEET FOR TYPICAL SECTION NOTES

REFER TO TABLE B7-5 ON SHEET 2p FOR BORING DETAILS

* MATCH EXISTING CROSS SLOPE. ADJUST AS NECESSARY TO ENSURE POSITIVE DRAINAGE (1.5% MIN.)

SEE SHEETS 3kkk-3lll FOR STRIPING AND SIGNAGE DETAILS.



FINISHED SECTION

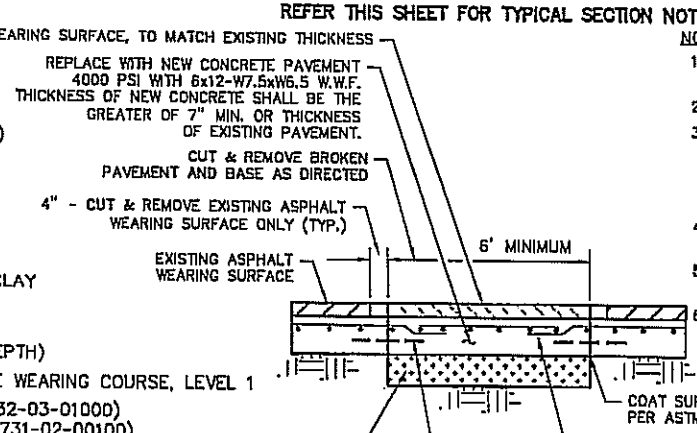
FILMORE AVENUE (PASTEUR DR. - ELYSIAN FIELDS AVE.)

STA. 162+52.66 - STA. 169+49.82

REFER THIS SHEET FOR TYPICAL SECTION NOTES

LEGEND - TYPICAL SECTION

- D EXISTING CONCRETE CURB & GUTTER (BARRIER)
- B EXISTING CONCRETE CURB & GUTTER (MOUNTABLE)
- E EXISTING INTEGRAL CONCRETE CURB (BARRIER)
- D EXISTING INTEGRAL CONCRETE CURB (MOUNTABLE)
- C EXISTING ASPHALTIC CONCRETE
- C EXISTING PORTLAND CEMENT CONCRETE
- B EXISTING SUBGRADE LAYER (DARK BROWN SILTY CLAY W/ ORGANICS, SHELL FRAGMENTS AND GRAVEL) (GRAY SILTY CLAY)
- F COLD PLANING ASPHALTIC CONCRETE (2" AVG. DEPTH)
- D 2" AVG. DEPTH SUPERPAVE ASPHALTIC CONCRETE WEARING COURSE, LEVEL 1
- D 4" BROKEN WHITE LINE PER N.O. DPW STD 10 (732-03-01000) W/ REFLECTORIZED RAISED PAVEMENT MARKERS (731-02-00100)
- D 4" SOLID YELLOW LINE PER N.O. DPW STD 10 (732-02-01000)
- D 4" SOLID WHITE LINE PER N.O. DPW STD 10 (732-02-01000)
- A 6" SOLID WHITE LINE PER N.O. DPW STD 10 (732-02-01000)
- G CONCRETE REPAIR
- G ASPHALT PATCHING



CONCRETE PAVEMENT REPAIR DETAIL

N.T.S.

NOTES-TYPICAL SECTIONS:

1. USE MIN. SLOPE OF 1.5% IN AREAS OF PAVEMENT FAILURES. MAINTAIN EXISTING GRADE OF OUTER EDGE OF PAVEMENT TO ESTABLISH SLOPE. LEVELING MAY BE REQUIRED TO ACHIEVE SLOPE (502-01-00100).
2. REFER TO PLAN SHEETS FOR LOCATION AND DIMENSIONS OF CONCRETE REPAIR AND CONCRETE CURB REPAIR.
3. CONTRACTOR SHALL PATCH ROADWAY PRIOR TO OVERLAY WITH FULL DEPTH CONCRETE OR ASPHALT PATCH AT LOCATIONS DETERMINED IN THE FIELD AND/OR AS DIRECTED BY THE PROJECT ENGINEER. THE PROJECT ENGINEER SHALL IDENTIFY LOCATIONS FROM ST. BERNARD AVENUE TO ELYSIAN FIELDS AVENUE REQUIRING JOINT SEALANT. PAVEMENT PATCHING AND JOINT SEALING SHALL BE CONSTRUCTED IN ACCORDANCE WITH N.O. DPW STD. 2, 4-6.
4. 100% OF RAP MATERIAL TO BE RETAINED BY THE CONTRACTOR. THE DEPARTMENT DOES NOT GUARANTEE IN ANY WAY THE QUALITY OF THE RAP MATERIAL.
5. **UPON COMPLETION OF COLD PLANING, THE PROJECT ENGINEER MAY REQUIRE ADDITIONAL ASPHALT REMOVAL SHOULD THE REMAINING THICKNESS BE LESS THAN ONE INCH (1").**
6. REFER TO TITLE SHEET FOR APPLICABLE STANDARD PLANS AND DETAILS USED FOR THIS PROJECT.

STATE OF LOUISIANA
NICHOLAS J. OLIVIER
License No. 33351
PROFESSIONAL ENGINEER
CIVIL ENGINEER
5/6/09

CIVIL DESIGN & CONSTRUCTION

DOTD

FILMORE AVENUE

TYPICAL SECTIONS

NO.	DATE	REVISION DESCRIPTION

DESIGNED / CHECKED	NJO / KEW	PARISH	ORLEANS
DETAILED / CHECKED	CMR / NJD	FEDERAL PROJECT	ER-ERP1(051)
DATE / SHEET	FEB. 2009 / 4 OF 5	STATE PROJECT	704-36-0035

SHEET NUMBER 2o

BORE#: B7-1 (EB LANE - 90' E OF CHAMBERLAIN DR.)	
LAYER TYPE	LAYER THICKNESS (INCHES)
AC	6.00
SUBGRADE	-

BORE#: B7-2 (EB LANE - 150' E OF WICKFIELD)	
LAYER TYPE	LAYER THICKNESS (INCHES)
AC	2.25
PCC	6.50
SUBGRADE	-

BORE#: B7-3 (WB LANE - 500' W OF CARTIER)	
LAYER TYPE	LAYER THICKNESS (INCHES)
AC	4.00
SUBGRADE	-

BORE#: B7-4 (WB LANE - 150' W OF CHARLOTTE)	
LAYER TYPE	LAYER THICKNESS (INCHES)
AC	6.00
SUBGRADE	-

BORE#: B7-5 (WB LANE - 150' W OF CAMERON)	
LAYER TYPE	LAYER THICKNESS (INCHES)
AC	2.00
PCC	8.75
SUBGRADE	-

STATE OF LOUISIANA
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PROFESSIONAL ENGINEER
CIVIL ENGINEERING
5/6/09

CIVIL DESIGN & CONSTRUCTION

FILMORE AVENUE

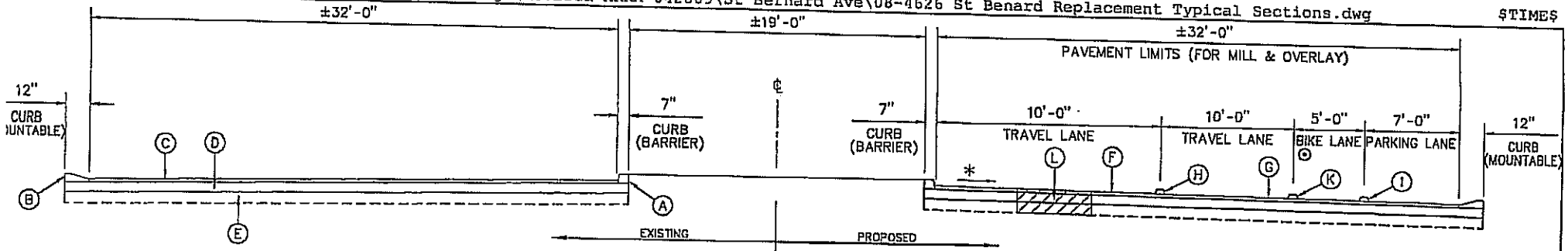
TYPICAL SECTIONS

NO.	DATE	REVISION DESCRIPTION	BY

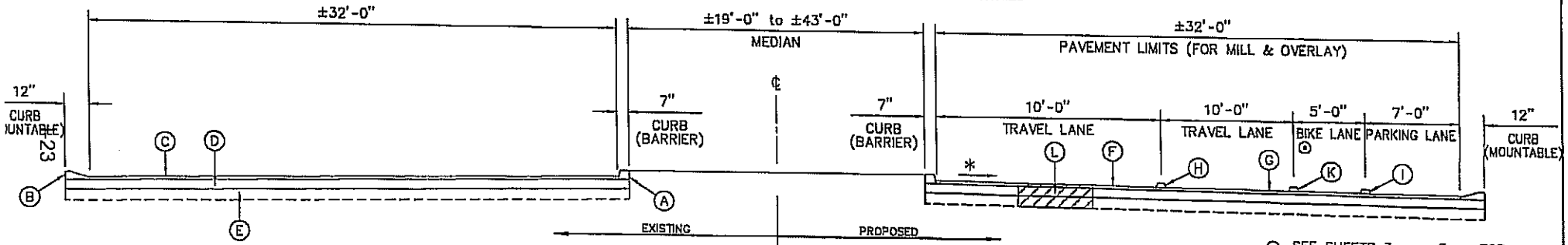
DESIGNED / CHECKED	NJO / KEW	PARISH	ORLEANS
DETAILED / CHECKED	CMR / NJD	FEDERAL PROJECT	ER-ERP1(051)
DATE / SHEET	FEB. 2009 / 5 OF 5	STATE PROJECT	704-36-0035

SHEET NUMBER 2p

\PROJECTS\08-4626 New Orleans Roads Grp 6\Drawings\Revised ARRA 042809\St Bernard Ave\08-4626 St Benard Replacement Typical Sections.dwg $TIME$



HALF SECTION
ST. BERNARD AVENUE (FILMORE AVE. - OWENS BLVD.)
STA. 136+34.12 - STA. 165+51.80
REFER TO SHEET 2u FOR TYPICAL SECTION NOTES
REFER TO TABLES B8-5 AND B8-6 ON SHEET 2u FOR BORING DETAILS



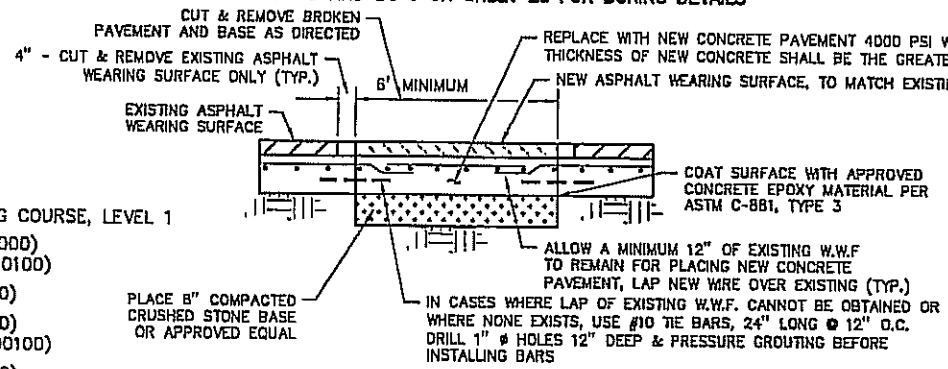
HALF SECTION
ST. BERNARD AVENUE (OWENS BLVD. - PARK ISLAND DR.)
STA. 165+51.80 - STA. 175+56.40
REFER TO SHEET 2u FOR TYPICAL SECTION NOTES
REFER TO TABLES B8-5 AND B8-6 ON SHEET 2u FOR BORING DETAILS

⊙ SEE SHEETS 3mmm-3nnn FOR STRIPING AND SIGNAGE DETAILS.

* MATCH EXISTING CROSS SLOPE. ADJUST AS NECESSARY TO ENSURE POSITIVE DRAINAGE (1.5% MIN.)

EGEND - TYPICAL SECTION

-) EXISTING INTEGRAL CONCRETE CURB (BARRIER)
-) EXISTING INTEGRAL CONCRETE CURB (MOUNTABLE)
-) EXISTING ASPHALTIC CONCRETE
-) EXISTING PORTLAND CEMENT CONCRETE
-) EXISTING SUBGRADE LAYER (GRAY/DARK GRAY CLAY/SILTY CLAY W/ ROOTS, ORGANICS AND WOOD) (BROWN/DARK BROWN SANDY/SILTY CLAY W/ ROOTS AND ORGANICS)(DARK BROWN ORGANIC CLAY W/ WOOD AND ROOTS)
-) COLD PLANING ASPHALTIC CONCRETE (2" AVG. DEPTH)
-) 2" AVG. DEPTH SUPERPAVE ASPHALTIC CONCRETE WEARING COURSE, LEVEL 1
-) 4" BROKEN WHITE LINE PER N.O. DPW STD 10 (732-03-01000) W/ REFLECTORIZED RAISED PAVEMENT MARKERS (731-02-00100)
-) 4" SOLID WHITE LINE PER N.O. DPW STD 10 (732-02-01000)
-) 8" SOLID WHITE LINE PER N.O. DPW STD 10 (732-02-01000) W/ REFLECTORIZED RAISED PAVEMENT MARKERS (731-02-00100)
-) 6" SOLID WHITE LINE PER N.O. DPW STD 10 (732-02-01000)
-) CONCRETE REPAIR



CONCRETE PAVEMENT REPAIR DETAIL
N.T.S.

STATE OF LOUISIANA
NICHOLAS J. OLIVIER
License No. 33351
PROFESSIONAL ENGINEER
5/6/09

CIVIL DESIGN & CONSTRUCTION

DOTD TRANSPORTATION AND DEVELOPMENT

ST. BERNARD AVENUE

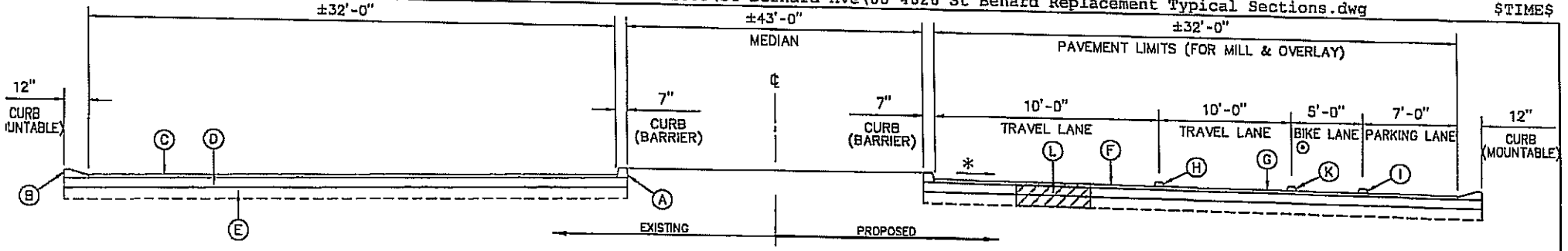
TYPICAL SECTIONS

DESIGNED / CHECKED	NJO / KEW	PARISH	ORLEANS
DETAILED / CHECKED	CMR / NJO	FEDERAL PROJECT	ER-ERP1(052)
DATE	FEB. 2009	STATE	704-36-0036

SHEET NUMBER 2q

FINAL PLANS

\PROJECTS\08-4626 New Orleans Roads Grp 6\Drawings\Revised ARRA 042809\St Bernard Ave\08-4626 St Benard Replacement Typical Sections.dwg $TIME$



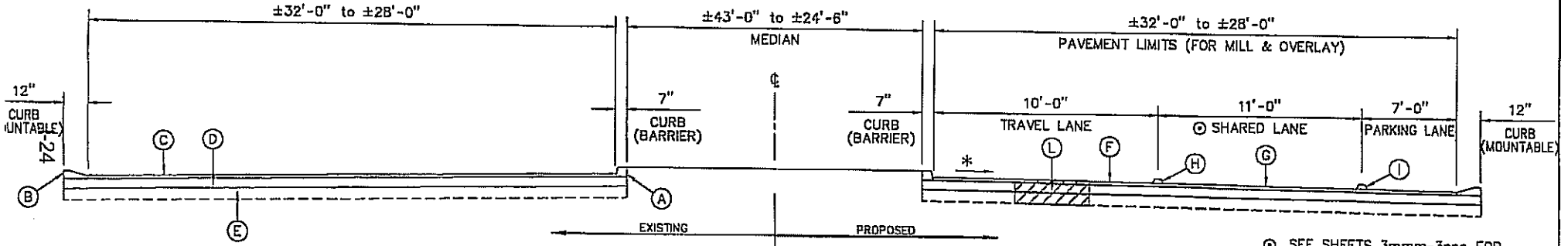
HALF SECTION

ST. BERNARD AVENUE (PARK ISLAND DR. - HARRISON AVE.)

STA. 175+56.40 - STA. 180+62.08

REFER TO SHEET 2u FOR TYPICAL SECTION NOTES

REFER TO TABLES B8-1 AND B8-2 ON SHEET 2u FOR BORING DETAILS



HALF SECTION

ST. BERNARD AVENUE (HARRISON AVE. - SENATE ST.)

STA. 180+62.08 - STA. 183+53.10

REFER TO SHEET 2u FOR TYPICAL SECTION NOTES

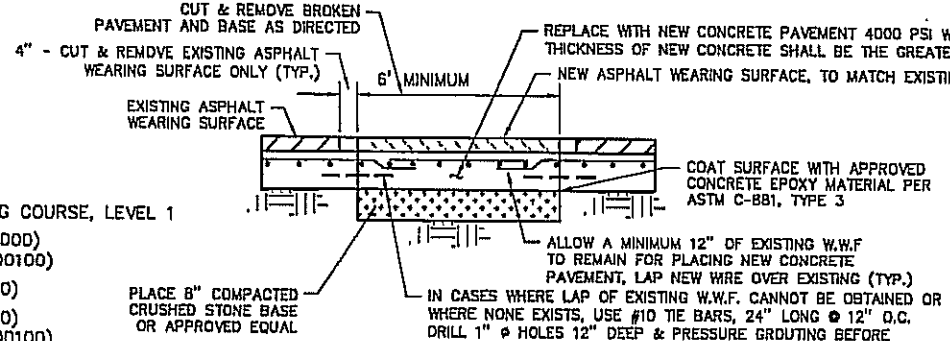
REFER TO TABLES B8-1 AND B8-2 ON SHEET 2u FOR BORING DETAILS

⊙ SEE SHEETS 3mmm-3nnn FOR STRIPING AND SIGNAGE DETAILS.

* MATCH EXISTING CROSS SLOPE. ADJUST AS NECESSARY TO ENSURE POSITIVE DRAINAGE (1.5% MIN.)

LEGEND - TYPICAL SECTION

A) EXISTING INTEGRAL CONCRETE CURB (BARRIER)
B) EXISTING INTEGRAL CONCRETE CURB (MOUNTABLE)
C) EXISTING ASPHALTIC CONCRETE
D) EXISTING PORTLAND CEMENT CONCRETE
E) EXISTING SUBGRADE LAYER (GRAY/DARK GRAY CLAY/SILTY CLAY W/ ROOTS, ORGANICS AND WOOD) (BROWN/DARK BROWN SANDY/SILTY CLAY W/ ROOTS AND ORGANICS)(DARK BROWN ORGANIC CLAY W/ WOOD AND ROOTS)
F) COLD PLANING ASPHALTIC CONCRETE (2" AVG. DEPTH)
G) 2" AVG. DEPTH SUPERPAVE ASPHALTIC CONCRETE WEARING COURSE, LEVEL 1
H) 4" BROKEN WHITE LINE PER N.O. DPW STD 10 (732-03-01000) W/ REFLECTORIZED RAISED PAVEMENT MARKERS (731-02-00100)
I) 4" SOLID WHITE LINE PER N.O. DPW STD 10 (732-02-01000)
J) 8" SOLID WHITE LINE PER N.O. DPW STD 10 (732-02-01000) W/ REFLECTORIZED RAISED PAVEMENT MARKERS (731-02-00100)
K) 6" SOLID WHITE LINE PER N.O. DPW STD 10 (732-02-01000)
L) CONCRETE REPAIR



CONCRETE PAVEMENT REPAIR DETAIL

N.T.S.

STATE OF LOUISIANA
NICHOLAS J. OLIVIER
License No. 33351
PROFESSIONAL ENGINEER
5/6/09

CIVIL DESIGN & CONSTRUCTION

DOTD

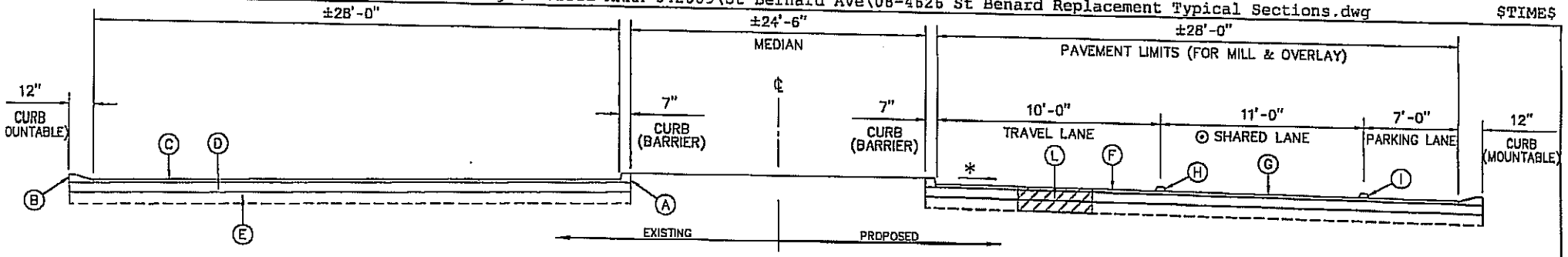
ST. BERNARD AVENUE

TYPICAL SECTIONS

NO.	DATE	REVISION DESCRIPTION	BY

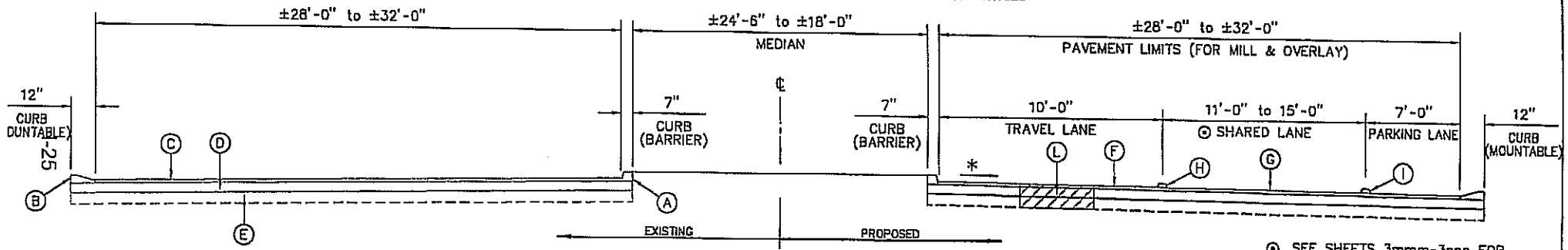
DESIGNED / CHECKED	NJO / KEW	PARISH	ORLEANS
DETAILED / CHECKED	CMR / NJO	FEDERAL PROJECT	ER-ERP1(052)
DATE / SHEET	FEB. 2009 / 2 OF 5	STATE PROJECT	704-36-0036

SHEET NUMBER 2r



HALF SECTION
ST. BERNARD AVENUE (SENATE ST. - MILTON ST.)
STA. 183+53.10 - STA. 195+53.84

REFER TO SHEET 2u FOR TYPICAL SECTION NOTES
REFER TO TABLES B8-1 AND B8-2 ON SHEET 2u FOR BORING DETAILS



HALF SECTION
ST. BERNARD AVENUE (MILTON ST. - ST. DENIS ST.)
STA. 195+53.84 - STA. 199+34.32

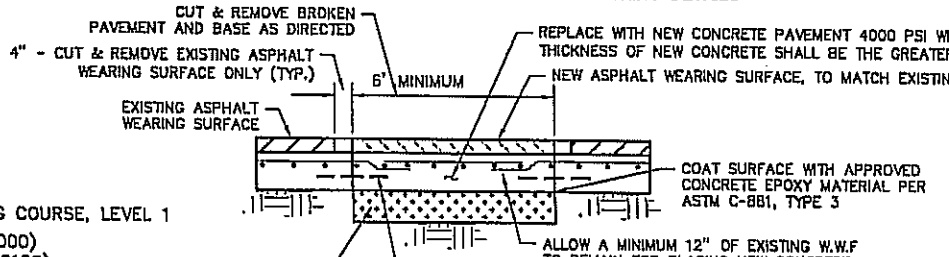
REFER TO SHEET 2u FOR TYPICAL SECTION NOTES
REFER TO TABLES B8-1 AND B8-2 ON SHEET 2u FOR BORING DETAILS

⊙ SEE SHEETS 3mmm-3nnn FOR STRIPING AND SIGNAGE DETAILS.

* MATCH EXISTING CROSS SLOPE. ADJUST AS NECESSARY TO ENSURE POSITIVE DRAINAGE (1.5% MIN.)

LEGEND - TYPICAL SECTION

- (A) EXISTING INTEGRAL CONCRETE CURB (BARRIER)
- (B) EXISTING INTEGRAL CONCRETE CURB (MOUNTABLE)
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- (D) EXISTING PORTLAND CEMENT CONCRETE
- (E) EXISTING SUBGRADE LAYER (GRAY/DARK GRAY CLAY/SILTY CLAY W/ ROOTS, ORGANICS AND WOOD) (BROWN/DARK BROWN SANDY/SILTY CLAY W/ ROOTS AND ORGANICS)(DARK BROWN ORGANIC CLAY W/ WOOD AND ROOTS)
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- (J) 8" SOLID WHITE LINE PER N.O. DPW STD 10 (732-02-01000) W/ REFLECTORIZED RAISED PAVEMENT MARKERS (731-02-00100)
- (K) 6" SOLID WHITE LINE PER N.O. DPW STD 10 (732-02-01000)
- (L) CONCRETE REPAIR



CONCRETE PAVEMENT REPAIR DETAIL
N.T.S.

STATE OF LOUISIANA
NICHOLAS J. OLIVIER
License No. 33351
PROFESSIONAL ENGINEER
5/6/09

CIVIL DESIGN & CONSTRUCTION

ST. BERNARD AVENUE

TYPICAL SECTIONS

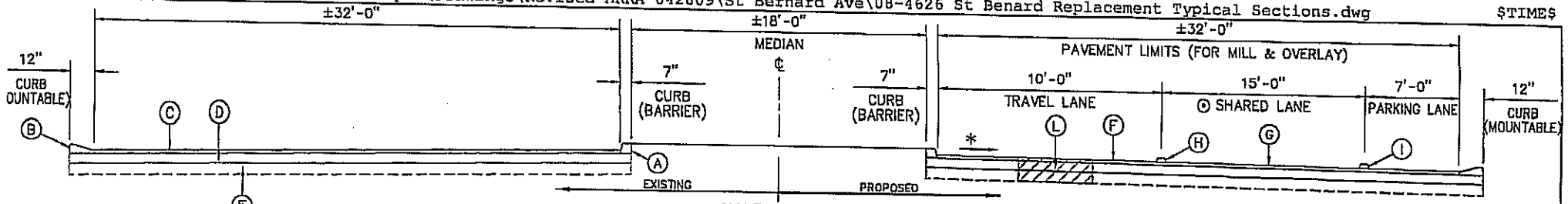
NO.	DATE	REVISION DESCRIPTION	BY

DESIGNED / CHECKED	NJO / KEW	PARISH	ORLEANS
DETAILED / CHECKED	CMR / NJO	FEDERAL PROJECT	ER-ERP1(052)
DATE / SHEET	FEB. 2009 / 3 OF 5	STATE PROJECT	704-36-0036

SHEET NUMBER 25

FINAL PLANS

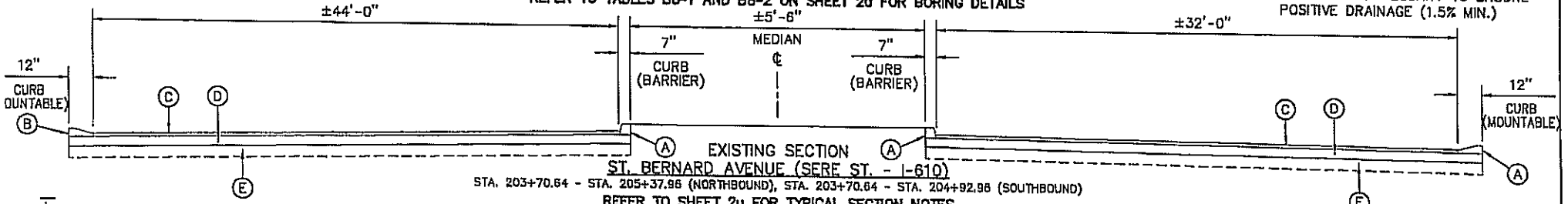
:\PROJECTS\08-4626 New Orleans Roads Grp 6\Drawings\Revised ARRA 042809\St Bernard Ave\08-4626 St Benard Replacement Typical Sections.dwg $TIME$



HALF SECTION
ST. BERNARD AVENUE (ST. DENIS ST. - SERE ST.)
STA. 199+34.32 - STA. 203+70.64
REFER TO SHEET 2u FOR TYPICAL SECTION NOTES
REFER TO TABLES B8-1 AND B8-2 ON SHEET 2u FOR BORING DETAILS

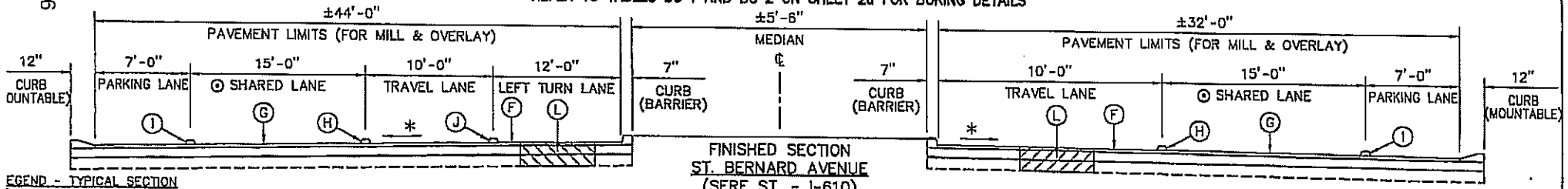
⊙ SEE SHEETS 3mmm-3nnn FOR STRIPING AND SIGNAGE DETAILS.

* MATCH EXISTING CROSS SLOPE. ADJUST AS NECESSARY TO ENSURE POSITIVE DRAINAGE (1.5% MIN.)



EXISTING SECTION
ST. BERNARD AVENUE (SERE ST. - I-610)
STA. 203+70.64 - STA. 205+37.96 (NORTHBOUND), STA. 203+70.64 - STA. 204+92.96 (SOUTHBOUND)
REFER TO SHEET 2u FOR TYPICAL SECTION NOTES
REFER TO TABLES B8-1 AND B8-2 ON SHEET 2u FOR BORING DETAILS

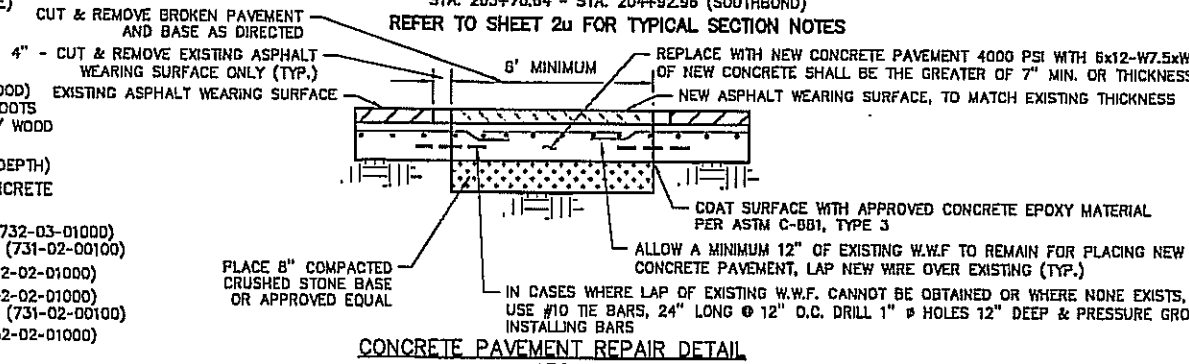
I-26



FINISHED SECTION
ST. BERNARD AVENUE
(SERE ST. - I-610)
STA. 203+70.64 - STA. 205+37.96 (NORTHBOUND)
STA. 203+70.64 - STA. 204+92.96 (SOUTHBOUND)
REFER TO SHEET 2u FOR TYPICAL SECTION NOTES

LEGEND - TYPICAL SECTION

1) EXISTING INTEGRAL CONCRETE CURB (BARRIER)
2) EXISTING INTEGRAL CONCRETE CURB (MOUNTABLE)
3) EXISTING ASPHALTIC CONCRETE
4) EXISTING PORTLAND CEMENT CONCRETE
5) EXISTING SUBGRADE LAYER (GRAY/DARK GRAY CLAY/SILTY CLAY W/ ROOTS, ORGANICS AND WOOD) (BROWN/DARK BROWN SANDY/SILTY CLAY W/ ROOTS AND ORGANICS)(DARK BROWN ORGANIC CLAY W/ WOOD AND ROOTS)
6) COLD PLANING ASPHALTIC CONCRETE (2" AVG. DEPTH)
7) 2" AVG. DEPTH SUPERPAVE ASPHALTIC CONCRETE WEARING COURSE, LEVEL 1
8) 4" BROKEN WHITE LINE PER N.O. DPW STD 10 (732-03-01000) W/ REFLECTORIZED RAISED PAVEMENT MARKERS (731-02-00100)
9) 4" SOLID WHITE LINE PER N.O. DPW STD 10 (732-02-01000)
10) 8" SOLID WHITE LINE PER N.O. DPW STD 10 (732-02-01000) W/ REFLECTORIZED RAISED PAVEMENT MARKERS (731-02-00100)
11) 6" SOLID WHITE LINE PER N.O. DPW STD 10 (732-02-01000)
12) CONCRETE REPAIR



CONCRETE PAVEMENT REPAIR DETAIL
N.T.S.

STATE OF LOUISIANA
NICHOLAS J. OLIVIER
License No. 33351
PROFESSIONAL ENGINEER
ENGINEER
5/4/09

CIVIL DESIGN & CONSTRUCTION

DOTD

ST. BERNARD AVENUE

TYPICAL SECTIONS

NO.	DATE	REVISION DESCRIPTION

DESIGNED / CHECKED	NJO / KEW	PARISH	ORLEANS
DETAILED / CHECKED	CMR / NJO	FEDERAL PROJECT	ER-ERP1(052)
DATE / SHEET	FEB. 2009 / 4 OF 5	STATE PROJECT	704-36-0036

SHEET NUMBER 2t

\PROJECTS\08-4626 New Orleans Roads Grp 6\Drawings\Revised ARRA 042809\St Bernard Ave\08-4626 St Benard Replacement Typical Sections.dwg $TIME$

NOTES-TYPICAL SECTIONS:

1. USE MIN. SLOPE OF 1.5% IN AREAS OF PAVEMENT FAILURES. MAINTAIN EXISTING GRADE OF OUTER EDGE OF PAVEMENT TO ESTABLISH SLOPE. LEVELING MAY BE REQUIRED TO ACHIEVE SLOPE (502-01-00100).
2. REFER TO PLAN SHEETS FOR LOCATION AND DIMENSIONS OF CONCRETE REPAIR AND CONCRETE CURB REPAIR.
3. CONTRACTOR SHALL PATCH ROADWAY PRIOR TO OVERLAY WITH FULL DEPTH CONCRETE PATCH AT LOCATIONS DETERMINED IN THE FIELD AND/OR AS DIRECTED BY THE PROJECT ENGINEER. THE PROJECT ENGINEER SHALL IDENTIFY LOCATIONS FROM ROBERT E. LEE BLVD. TO I-610 REQUIRING JOINT SEALANT. PAVEMENT PATCHING AND JOINT SEALING SHALL BE CONSTRUCTED IN ACCORDANCE WITH N.O. DPW STD. 2, 4-6.
4. 100% OF RAP MATERIAL TO BE RETAINED BY THE CONTRACTOR. THE DEPARTMENT DOES NOT GUARANTEE IN ANY WAY THE QUALITY OF THE RAP MATERIAL.
5. **UPON COMPLETION OF COLD PLANING, THE PROJECT ENGINEER MAY REQUIRE ADDITIONAL ASPHALT REMOVAL SHOULD THE REMAINING THICKNESS BE LESS THAN ONE INCH (1").**
6. REFER TO TITLE SHEET FOR APPLICABLE STANDARD PLANS AND DETAILS USED FOR THIS PROJECT.

I-27

BORE#: B8-1 BORE#: B8-2 (NB LANE - 100' N OF HARRISON)	
LAYER TYPE	LAYER THICKNESS (INCHES)
AC	2.50
PCC	8.50
SUBGRADE	-

BORE#: B8-5 (LOCATION UNDETERMINED)	
LAYER TYPE	LAYER THICKNESS (INCHES)
AC	2.50
AC	2.00
PCC	7.50
SUBGRADE	-

BORE#: B8-6 (SB LANE - 100' S OF FILMORE)	
LAYER TYPE	LAYER THICKNESS (INCHES)
AC	2.25
AC	2.00
PCC	5.00
SUBGRADE	-

STATE OF LOUISIANA
NICHOLAS J. OLIVIER
License No. 33351
PROFESSIONAL ENGINEER
CIVIL ENGINEERING
4/6/09

CIVIL DESIGN & CONSTRUCTION

DOTD

ST. BERNARD AVENUE

TYPICAL SECTIONS

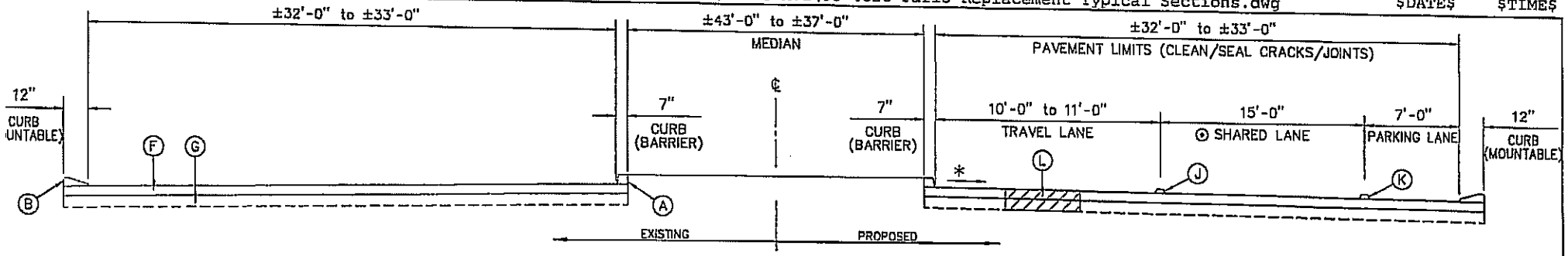
NO	DATE	REVISION DESCRIPTION

DESIGNED	NJO	PARISH	ORLEANS
CHECKED	KEW		
DETAILED	CMR	FEDERAL PROJECT	ER-ERP1(052)
CHECKED	NJO		
DATE	FEB. 2009	STATE PROJECT	704-36-0036

SHEET NUMBER 20

FINAL PLANS

\PROJECTS\08-4626 New Orleans Roads Grp 6\Drawings\Revised ARRA 042809\Paris Ave\08-4626 Paris Replacement Typical Sections.dwg $DATE$ $TIME$

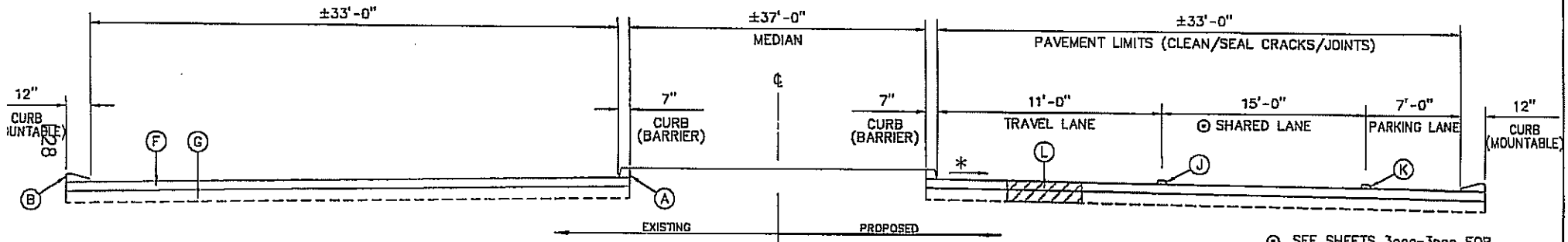


HALF SECTION

PARIS AVENUE (I-610 - LAFRENIERE ST.)

STA. 102+07.94 - STA. 106+15.62

REFER TO SHEET 2w FOR TYPICAL SECTION NOTES
REFER TO TABLE B11-1 ON SHEET 2x FOR BORING DETAILS



HALF SECTION

PARIS AVENUE (LAFRENIERE ST. - MANDOLIN ST.)

STA. 106+15.62 - STA. 135+70.69

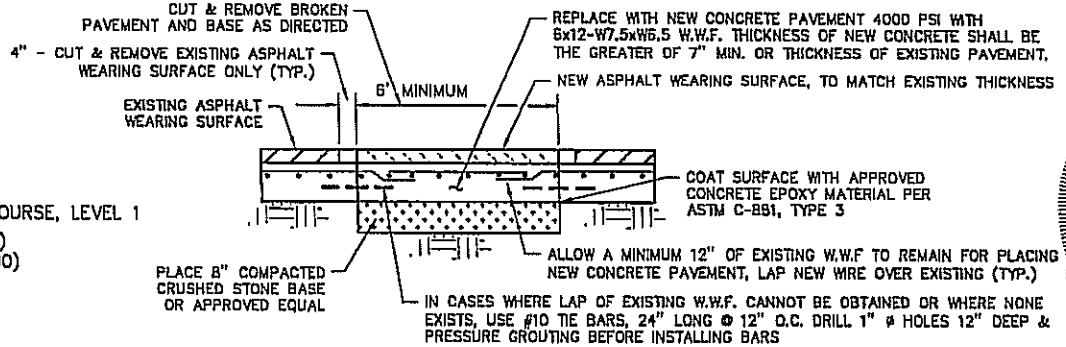
REFER TO SHEET 2w FOR TYPICAL SECTION NOTES
REFER TO TABLE B11-1 ON SHEET 2x FOR BORING DETAILS

⊙ SEE SHEETS 3ooo-3ppp FOR STRIPING AND SIGNAGE DETAILS.

* MATCH EXISTING CROSS SLOPE. ADJUST AS NECESSARY TO ENSURE POSITIVE DRAINAGE (1.5% MIN.)

LEGEND - TYPICAL SECTION

- (A) EXISTING INTEGRAL CONCRETE CURB (BARRIER)
- (B) EXISTING INTEGRAL CONCRETE CURB (MOUNTABLE)
- (C) EXISTING CONCRETE CURB & GUTTER (BARRIER)
- (D) EXISTING CONCRETE CURB & GUTTER (MOUNTABLE)
- (E) EXISTING ASPHALTIC CONCRETE
- (F) EXISTING PORTLAND CEMENT CONCRETE
- (G) EXISTING SUBGRADE LAYER (BROWN SANDY CLAY ORGANICS W/ NODULES, ROOTS AND SAND POCKETS)
- (H) EXISTING SUBGRADE LAYER (GRAY CLAY W/ NODULES, ROOTS AND SAND POCKETS)
- (I) 2" AVG. DEPTH SUPERPAVE ASPHALTIC CONCRETE WEARING COURSE, LEVEL 1
- (J) 4" BROKEN WHITE LINE PER N.O. DPW STD 10 (732-03-01000) W/ REFLECTORIZED RAISED PAVEMENT MARKERS (731-02-00100)
- (K) 4" SOLID WHITE LINE PER N.O. DPW STD 10 (732-02-01000)
- (L) CONCRETE REPAIR
- (M) ASPHALT PATCHING
- (N) SPOT COLD PLANING ASPHALTIC CONCRETE



CONCRETE PAVEMENT REPAIR DETAIL

N.T.S.

STATE OF LOUISIANA
NICHOLAS J. OLIVIER
License No. 33351
PROFESSIONAL ENGINEER
PE ENGINEER
7/6/09

CIVIL DESIGN & CONSTRUCTION

PARIS AVENUE

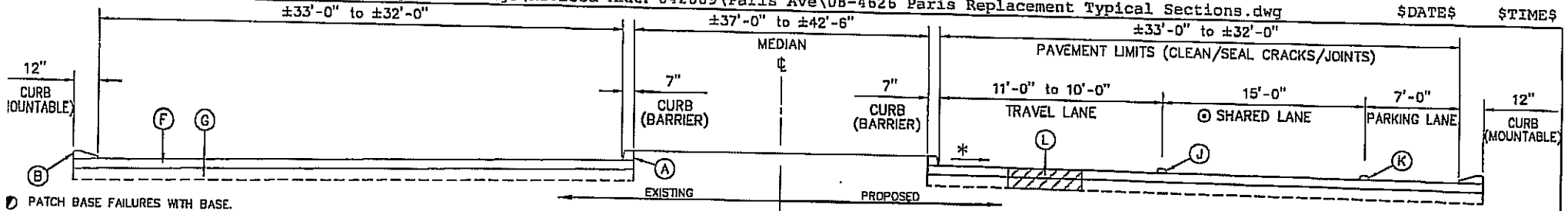
TYPICAL SECTIONS

DESIGNED / CHECKED	NJD / KEW	PARISH	ORLEANS
DETAILED / CHECKED	CMR / NJD	FEDERAL PROJECT	ER-ERP1(053)
DATE / SHEET	FEB. 2009 / 1 OF 3	STATE PROJECT	704-36-0037

SHEET NUMBER 2v

FINAL PLANS

:\PROJECTS\08-4626 New Orleans Roads Grp 6\Drawings\Revised ARRA 042809\Paris Ave\08-4626 Paris Replacement Typical Sections.dwg $DATE$ $TIME$



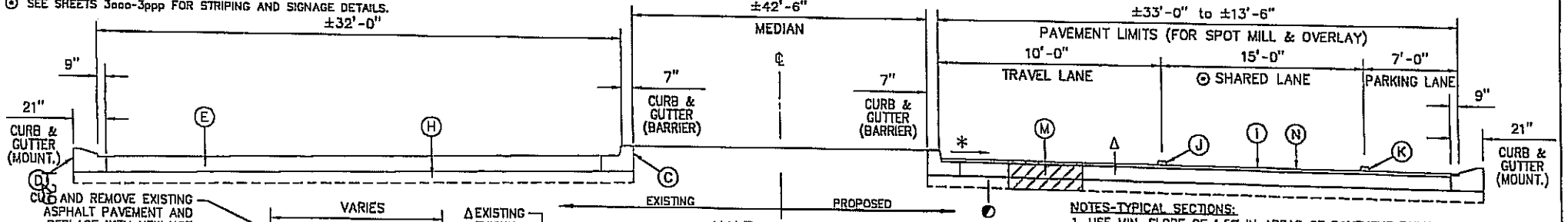
HALF SECTION

PARIS AVENUE (MANDOLIN ST. - PRATT DR.)

STA. 135+70.69 - STA. 139+55.51

REFER TO SHEET 2w FOR TYPICAL SECTION NOTES

REFER TO TABLES B11-2, B11-3, AND B11-4 ON SHEET 2x FOR BORING DETAILS



HALF SECTION

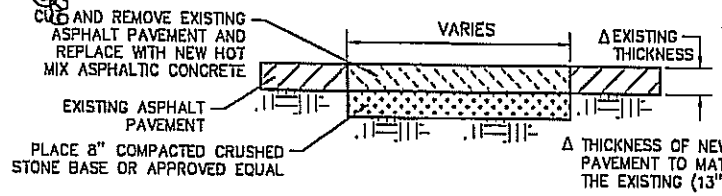
PARIS AVENUE (PRATT DR. - MIRABEAU AVE.)

STA. 139+55.51 - STA. 157+76.50

REFER TO THIS SHEET FOR TYPICAL SECTION NOTES

REFER TO TABLES B11-2, B11-3, AND B11-4 ON SHEET 2x FOR BORING DETAILS

- ⓓ PATCH BASE FAILURES WITH BASE.
- Δ THE PROJECT ENGINEER MAY REQUIRE ADDITIONAL TACK COAT TO ENSURE ADEQUATE BONDING IN AREAS THAT DO NOT REQUIRE COLD PLANING AND IN AREAS OF CRACK SEALING.
- * MATCH EXISTING CROSS SLOPE. ADJUST AS NECESSARY TO ENSURE POSITIVE DRAINAGE (1.5% MIN.)
- ⊙ SEE SHEETS 3aaa-3ppp FOR STRIPING AND SIGNAGE DETAILS.

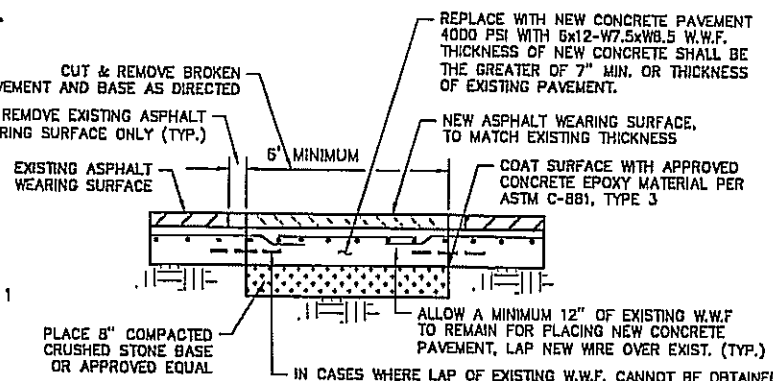


ASPHALT PATCHING DETAIL

N.T.S.

LEGEND - TYPICAL SECTION

- Ⓐ EXISTING INTEGRAL CONCRETE CURB (BARRIER)
- Ⓑ EXISTING INTEGRAL CONCRETE CURB (MOUNTABLE)
- Ⓒ EXISTING CONCRETE CURB & GUTTER (BARRIER)
- Ⓓ EXISTING CONCRETE CURB & GUTTER (MOUNTABLE)
- Ⓔ EXISTING ASPHALTIC CONCRETE
- Ⓕ EXISTING PORTLAND CEMENT CONCRETE
- Ⓖ EXISTING SUBGRADE LAYER (BROWN SANDY CLAY ORGANICS W/ NODULES, ROOTS AND SAND POCKETS)
- Ⓗ EXISTING SUBGRADE LAYER (GRAY CLAY W/ NODULES, ROOTS AND SAND POCKETS)
- Ⓙ 2" AVG. DEPTH SUPERPAVE ASPHALTIC CONCRETE WEARING COURSE, LEVEL 1
- Ⓙ 4" BROKEN WHITE LINE PER N.O. DPW STD 10 (732-03-01000) W/ REFLECTORIZED RAISED PAVEMENT MARKERS (731-02-00100)
- Ⓚ 4" SOLID WHITE LINE PER N.O. DPW STD 10 (732-02-01000)
- Ⓛ CONCRETE REPAIR
- Ⓜ ASPHALT PATCHING
- Ⓝ SPOT COLD PLANING ASPHALTIC CONCRETE



CONCRETE PAVEMENT REPAIR DETAIL

N.T.S.

NOTES-TYPICAL SECTIONS:

1. USE MIN. SLOPE OF 1.5% IN AREAS OF PAVEMENT FAILURES. MAINTAIN EXISTING GRADE OF OUTER EDGE OF PAVEMENT TO ESTABLISH SLOPE. LEVELING MAY BE REQUIRED TO ACHIEVE SLOPE (502-01-00100).
2. REFER TO PLAN SHEETS FOR LOCATION AND DIMENSIONS OF CONCRETE REPAIR AND CONCRETE CURB REPAIR.
3. CONTRACTOR SHALL PATCH ROADWAY PRIOR TO OVERLAY WITH FULL DEPTH CONCRETE OR ASPHALT PATCH AT LOCATIONS DETERMINED IN THE FIELD AND/OR AS DIRECTED BY THE PROJECT ENGINEER. THE PROJECT ENGINEER SHALL IDENTIFY LOCATIONS FROM I-610 TO MIRABEAU AVENUE REQUIRING JOINT SEALANT. PAVEMENT PATCHING AND JOINT SEALING SHALL BE CONSTRUCTED IN ACCORDANCE WITH N.O. DPW STD. 2, 4-5.
4. 100% OF RAP MATERIAL TO BE RETAINED BY THE CONTRACTOR. THE DEPARTMENT DOES NOT GUARANTEE IN ANY WAY THE QUALITY OF THE RAP MATERIAL.
5. **UPON COMPLETION OF COLD PLANING, THE PROJECT ENGINEER MAY REQUIRE ADDITIONAL ASPHALT REMOVAL SHOULD THE REMAINING THICKNESS BE LESS THAN ONE INCH (1").**
6. REFER TO TITLE SHEET FOR APPLICABLE STANDARD PLANS AND DETAILS USED FOR THIS PROJECT.
7. SPOT MILLING MAY BE NEEDED AS DIRECTED BY THE PROJECT ENGINEER.

STATE OF LOUISIANA
NICHOLAS J. OLIVIER
License No. 33351
PROFESSIONAL ENGINEER
ENGINEERING
4-09

CIVIL DESIGN & CONSTRUCTION

DOTD TRANSPORTATION AND DEVELOPMENT

PARIS AVENUE

TYPICAL SECTIONS

STATE OF LOUISIANA

NO.	DATE	REVISION DESCRIPTION

DESIGNED	NJO	PARISH	ORLEANS
CHECKED	KEW		
DETAILED	CMR	FEDERAL PROJECT	ER-ERP1(053)
CHECKED	NJO		
DATE	FEB. 2009	STATE PROJECT	704-36-0037
SHEET	2 OF 3		

SHEET NUMBER 2w

BORE#: B11-1 (NB LANE - 1200' N OF I-610)	
LAYER TYPE	LAYER THICKNESS (INCHES)
PCC	8.00
SUBGRADE	-

BORE#: B11-2 (NB LANE - 100' N OF OWENS BLVD.)	
LAYER TYPE	LAYER THICKNESS (INCHES)
AC	1.25
SUBGRADE	-

BORE#: B11-3 (SB LANE - 3800' N OF I-610)	
LAYER TYPE	LAYER THICKNESS (INCHES)
AC	0.38
PCC	8.25
SUBGRADE	-

BORE#: B11-4 (SB LANE - 150' S OF WAKEFIELD)	
LAYER TYPE	LAYER THICKNESS (INCHES)
AC	2.50
SUBGRADE	-

I-30

STATE OF LOUISIANA
NICHOLAS J. OLIVIER
License No. 33351
PROFESSIONAL ENGINEER
CIVIL ENGINEERING
5/4/09

CIVIL DESIGN & CONSTRUCTION

PARIS AVENUE

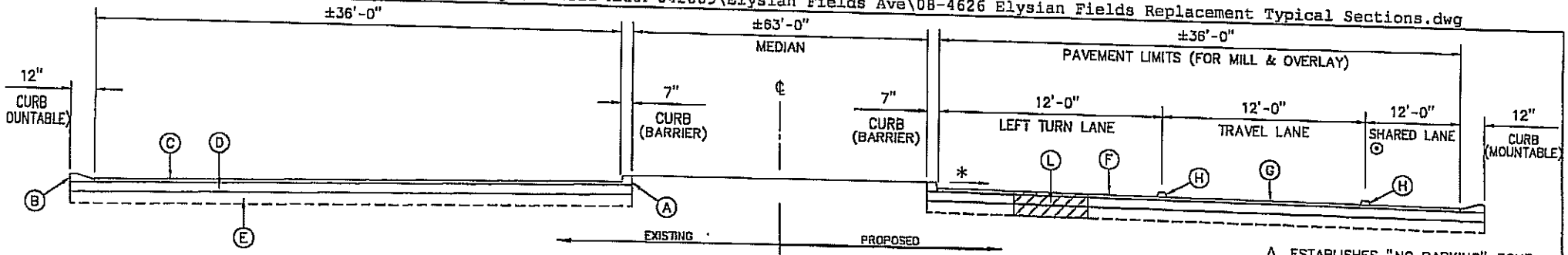
TYPICAL SECTIONS

DESIGNED	NJO	PARISH ORLEANS
CHECKED	KEW	
DETAILED	CMR	FEDERAL PROJECT ER-ERP1(053)
CHECKED	NJO	
DATE	FEB. 2009	STATE PROJECT 704-36-0037
SHEET	3 OF 3	

SHEET NUMBER 2x

FINAL PLANS

:\PROJECTS\08-4626 New Orleans Roads Grp 6\Drawings\Revised ARRA 042809\Elysian Fields Ave\08-4626 Elysian Fields Replacement Typical Sections.dwg

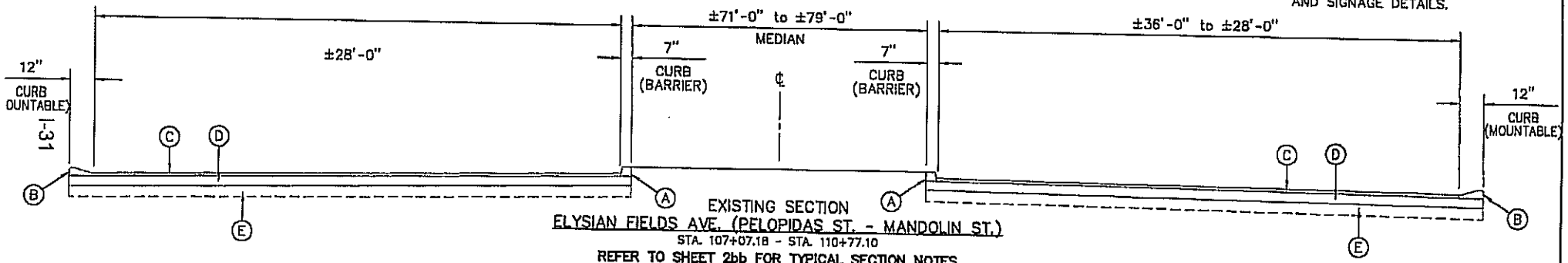


HALF SECTION
ELYSIAN FIELDS AVE. (GENTILLY - PELOPIDAS ST.)
STA. 102+75.88 - STA. 107+07.18
REFER TO SHEET 2bb FOR TYPICAL SECTION NOTES
REFER TO TABLE B13-5 ON SHEET 2cc FOR BORING DETAILS

Δ ESTABLISHES "NO PARKING" ZONE AT CURB RADIUS RETURN

* MATCH EXISTING CROSS SLOPE. ADJUST AS NECESSARY TO ENSURE POSITIVE DRAINAGE (1.5% MIN.)

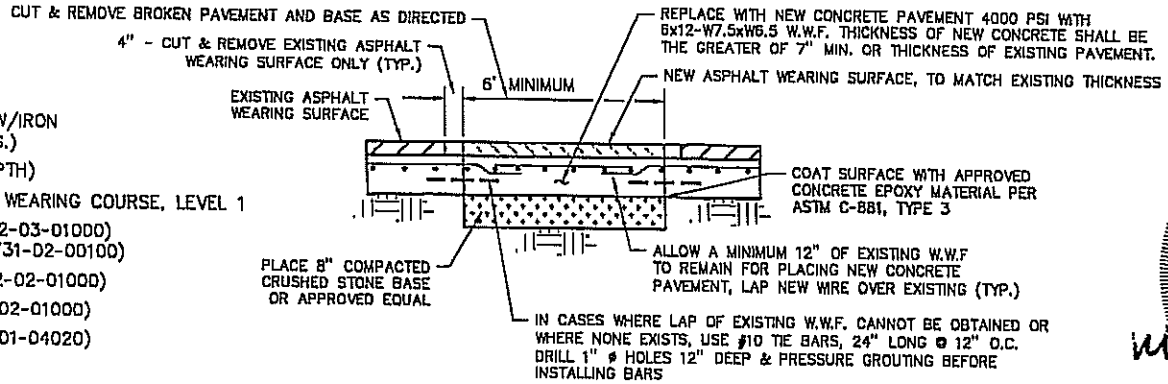
⊙ SEE SHEETS 3qqq-3sss FOR STRIPING AND SIGNAGE DETAILS.



EXISTING SECTION
ELYSIAN FIELDS AVE. (PELOPIDAS ST. - MANDOLIN ST.)
STA. 107+07.18 - STA. 110+77.10
REFER TO SHEET 2bb FOR TYPICAL SECTION NOTES
REFER TO TABLE B13-5 ON SHEET 2cc FOR BORING DETAILS

LEGEND - TYPICAL SECTION

- (A) EXISTING INTEGRAL CONCRETE CURB (BARRIER)
- (B) EXISTING INTEGRAL CONCRETE CURB (MOUNTABLE)
- (C) EXISTING ASPHALTIC CONCRETE
- (D) EXISTING PORTLAND CEMENT CONCRETE
- (E) EXISTING SUBGRADE LAYER (BROWN STICKY CLAY W/IRON NODULES & ORGANICS)(GRAY CLAY W/WOOD ROOTS.)
- (F) COLD PLANING ASPHALTIC CONCRETE (2" AVG. DEPTH)
- (G) 2" AVG. DEPTH SUPERPAVE ASPHALTIC CONCRETE WEARING COURSE, LEVEL 1
- (H) 4" BROKEN WHITE LINE PER N.O. DPW STD 10 (732-03-01000) W/ REFLECTORIZED RAISED PAVEMENT MARKERS (731-02-00100)
- (I) 4" SOLID YELLOW LINE PER N.O. DPW STD 10 (732-02-01000)
- (J) 4" SOLID WHITE LINE PER N.O. DPW STD 10 (732-02-01000)
- (K) 6" SOLID WHITE LINE PER N.O. DPW STD 10 (732-01-04020)
- (L) CONCRETE REPAIR



CONCRETE PAVEMENT REPAIR DETAIL
N.T.S.

STATE OF LOUISIANA
NICHOLAS J. OLIVIER
License No. 33351
PROFESSIONAL ENGINEER
CIVIL ENGINEER
5/26/09

CIVIL DESIGN & CONSTRUCTION

DOTD

ELYSIAN FIELDS AVENUE

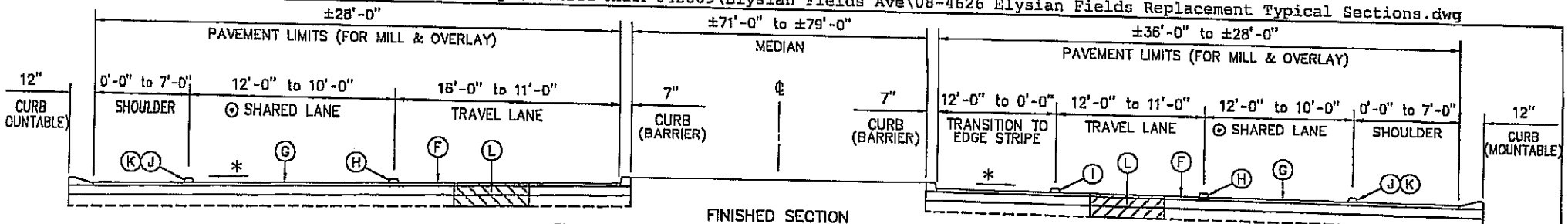
TYPICAL SECTIONS

DESIGNED / CHECKED	NJO / KEW	PARISH	ORLEANS
DETAILED / CHECKED	CMR / NJO	FEDERAL PROJECT	ER-ERP1(054)
DATE	FEB. 2009	STATE	704-36-0038

SHEET NUMBER 2y

FINAL PLANS

:\PROJECTS\08-4626 New Orleans Roads Grp 6\Drawings\Revised ARRA 042809\Elysian Fields Ave\08-4626 Elysian Fields Replacement Typical Sections.dwg



FINISHED SECTION

ELYSIAN FIELDS AVE. (PELOPIDAS ST. - MANDOLIN ST.)

STA. 107+07.18 - STA. 110+77.10

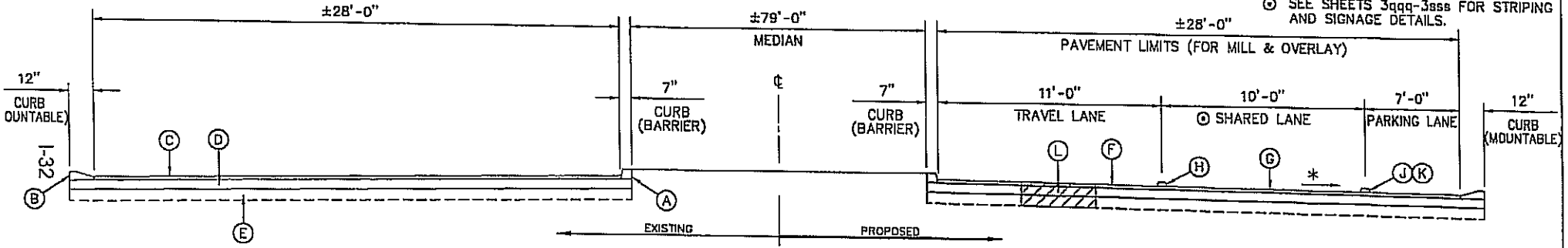
REFER TO SHEET 2bb FOR TYPICAL SECTION NOTES

REFER TO TABLE B13-10 AND B13-11 ON SHEET 2cc FOR BORING DETAILS

Δ ESTABLISHES "NO PARKING" ZONE AT CURB RADIUS RETURN

* MATCH EXISTING CROSS SLOPE, ADJUST AS NECESSARY TO ENSURE POSITIVE DRAINAGE (1.5% MIN.)

⊙ SEE SHEETS 3qqq-3sss FOR STRIPING AND SIGNAGE DETAILS.



HALF SECTION

ELYSIAN FIELDS AVE. (MANDOLIN ST. - FILMORE AVE.)

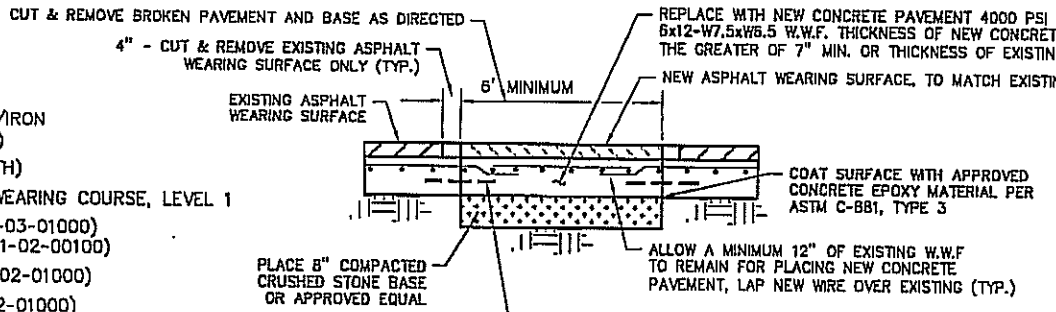
STA. 110+77.10 - STA. 148+89.01

REFER TO SHEET 2bb FOR TYPICAL SECTION NOTES

REFER TO TABLE B13-10 AND B13-11 ON SHEET 2cc FOR BORING DETAILS

LEGEND - TYPICAL SECTION

- Ⓐ EXISTING INTEGRAL CONCRETE CURB (BARRIER)
- Ⓑ EXISTING INTEGRAL CONCRETE CURB (MOUNTABLE)
- Ⓒ EXISTING ASPHALTIC CONCRETE
- Ⓓ EXISTING PORTLAND CEMENT CONCRETE
- Ⓔ EXISTING SUBGRADE LAYER (BROWN STICKY CLAY W/IRON NODULES & ORGANICS)(GRAY CLAY W/WOOD ROOTS.)
- Ⓕ COLD PLANING ASPHALTIC CONCRETE (2" AVG. DEPTH)
- Ⓖ 2" AVG. DEPTH SUPERPAVE ASPHALTIC CONCRETE WEARING COURSE, LEVEL 1
- Ⓗ 4" BROKEN WHITE LINE PER N.O. DPW STD 10 (732-03-01000) W/ REFLECTORIZED RAISED PAVEMENT MARKERS (731-02-00100)
- Ⓘ 4" SOLID YELLOW LINE PER N.O. DPW STD 10 (732-02-01000)
- Ⓙ 4" SOLID WHITE LINE PER N.O. DPW STD 10 (732-02-01000)
- Δⓚ 6" SOLID WHITE LINE PER N.O. DPW STD 10 (732-01-04020)
- Ⓛ CONCRETE REPAIR



CONCRETE PAVEMENT REPAIR DETAIL

N.T.S.

STATE OF LOUISIANA
NICHOLAS J. OLIVIER
License No. 33351
PROFESSIONAL ENGINEER
CIVIL ENGINEERING
5/6/09

CIVIL DESIGN & CONSTRUCTION INF.

DOTD TRANSPORTATION AND DEVELOPMENT

ELYSIAN FIELDS AVENUE

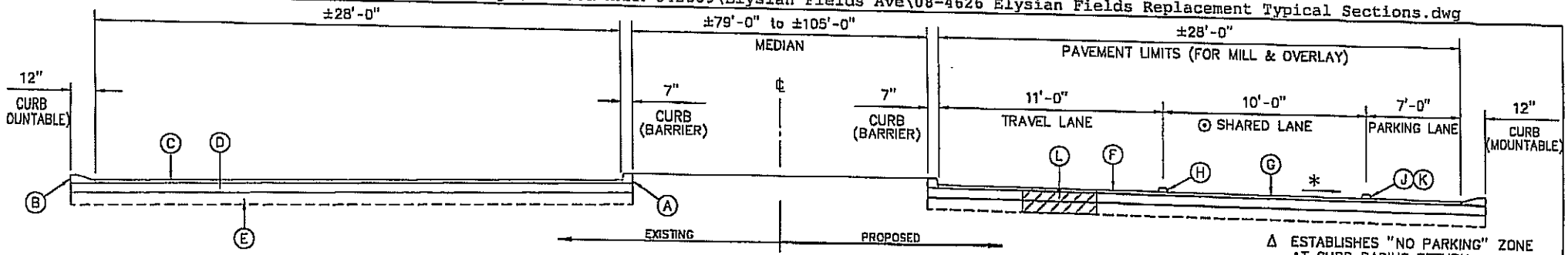
TYPICAL SECTIONS

DESIGNED / CHECKED	NJD / KEW	PARISH	ORLEANS
DETAILED / CHECKED	CMR / NJO	FEDERAL PROJECT	ER-ERP1(054)
DATE / SHEET	FEB. 2009 / 2 OF 5	STATE PROJECT	704-36-0038

SHEET NUMBER 2z

FINAL PLANS

:\PROJECTS\08-4626 New Orleans Roads Grp 6\Drawings\Revised ARRA 042809\Elysian Fields Ave\08-4626 Elysian Fields Replacement Typical Sections.dwg



HALF SECTION

ELYSIAN FIELDS AVE. (FILMORE AVE. - RAPIDES DR./ODIN ST.)

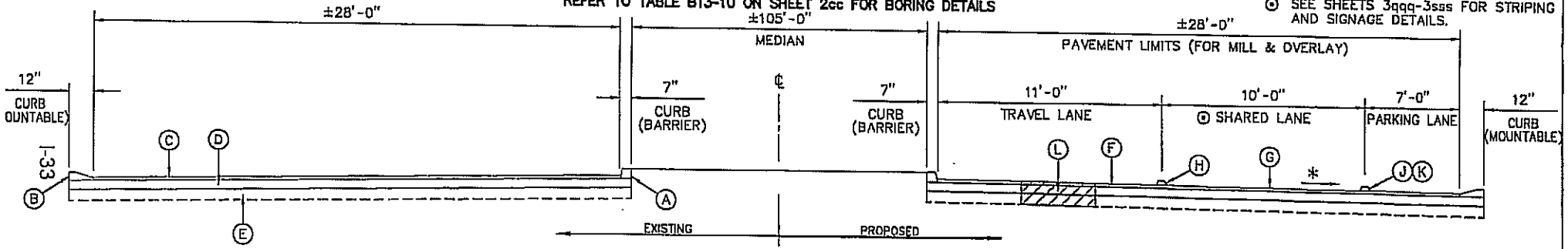
STA. 148+89.01 - STA. 156+89.56

REFER TO SHEET 2bb FOR TYPICAL SECTION NOTES
REFER TO TABLE B13-10 ON SHEET 2cc FOR BORING DETAILS

Δ ESTABLISHES "NO PARKING" ZONE AT CURB RADIUS RETURN

* MATCH EXISTING CROSS SLOPE. ADJUST AS NECESSARY TO ENSURE POSITIVE DRAINAGE (1.5% MIN.)

⊙ SEE SHEETS 3qqq-3sss FOR STRIPING AND SIGNAGE DETAILS.



HALF SECTION

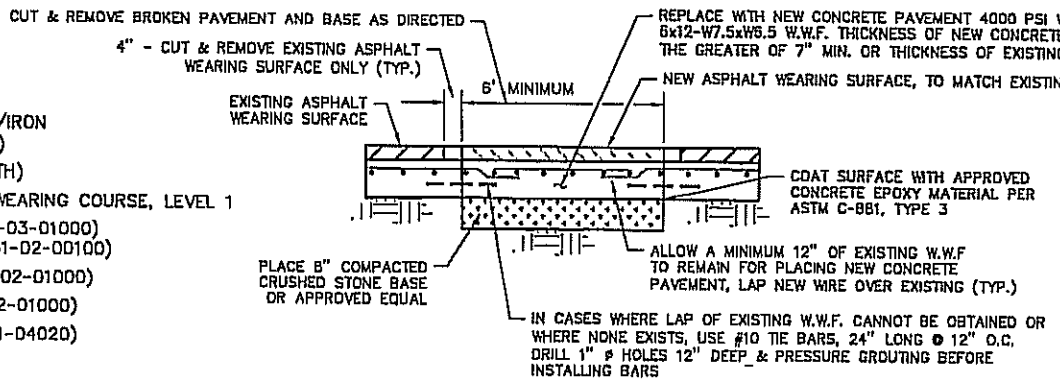
ELYSIAN FIELDS AVE. (RAPIDES DR./ODIN ST. - NEW YORK ST.)

STA. 156+89.56 - STA. 191+56.35

REFER TO SHEET 2bb FOR TYPICAL SECTION NOTES
REFER TO TABLE B13-10 ON SHEET 2cc FOR BORING DETAILS

LEGEND - TYPICAL SECTION

- Ⓐ EXISTING INTEGRAL CONCRETE CURB (BARRIER)
- Ⓑ EXISTING INTEGRAL CONCRETE CURB (MOUNTABLE)
- Ⓒ EXISTING ASPHALTIC CONCRETE
- Ⓓ EXISTING PORTLAND CEMENT CONCRETE
- Ⓔ EXISTING SUBGRADE LAYER (BROWN STICKY CLAY W/IRON NODULES & ORGANICS)(GRAY CLAY W/WOOD ROOTS.)
- Ⓕ COLD PLANING ASPHALTIC CONCRETE (2" AVG. DEPTH)
- Ⓖ 2" AVG. DEPTH SUPERPAVE ASPHALTIC CONCRETE WEARING COURSE, LEVEL 1
- Ⓗ 4" BROKEN WHITE LINE PER N.O. DPW STD 10 (732-03-01000) W/ REFLECTORIZED RAISED PAVEMENT MARKERS (731-02-00100)
- Ⓘ 4" SOLID YELLOW LINE PER N.O. DPW STD 10 (732-02-01000)
- Ⓙ 4" SOLID WHITE LINE PER N.O. DPW STD 10 (732-02-01000)
- Ⓚ 6" SOLID WHITE LINE PER N.O. DPW STD 10 (732-01-04020)
- Ⓛ CONCRETE REPAIR



CONCRETE PAVEMENT REPAIR DETAIL

N.T.S.

STATE OF LOUISIANA
NICHOLAS J. OLIVIER
License No. 33351
PROFESSIONAL ENGINEER
CIVIL ENGINEERING
6/09

CIVIL DESIGN & CONSTRUCTION

DOTD

ELYSIAN FIELDS AVENUE

TYPICAL SECTIONS

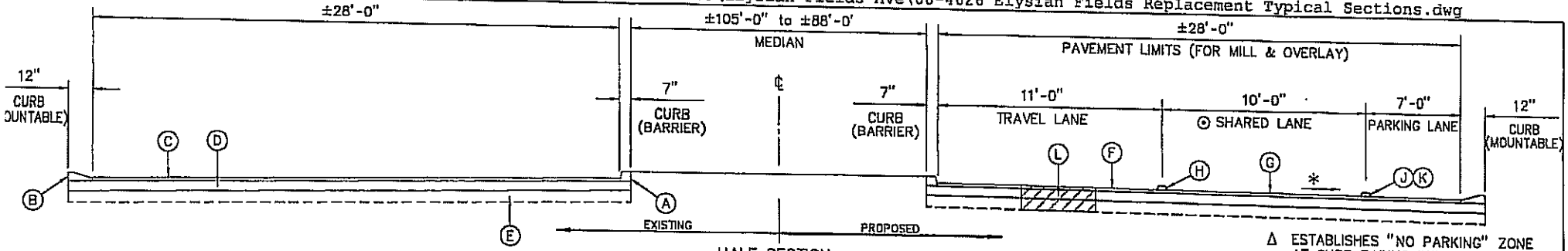
NO.	DATE	REVISION DESCRIPTION	BY

DESIGNED / CHECKED	NJO / KEW	PARISH	ORLEANS
DETAILED / CHECKED	CMR / NJO	FEDERAL PROJECT	ER-ERP1(054)
DATE / SHEET	FEB. 2009 / 3 OF 5	STATE PROJECT	704-36-0038

SHEET NUMBER 2aa

FINAL PLANS

:\PROJECTS\08-4626 New Orleans Roads Grp 6\Drawings\Revised ARRA 042809\Elysian Fields Ave\08-4626 Elysian Fields Replacement Typical Sections.dwg

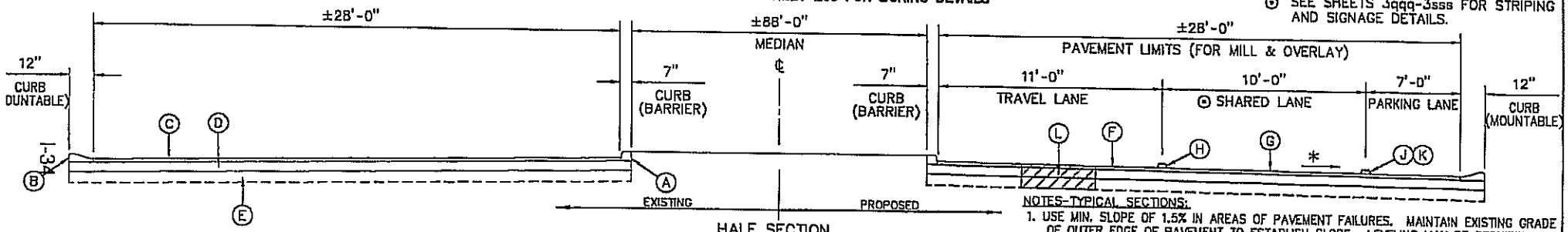


HALF SECTION
ELYSIAN FIELDS AVE. (NEW YORK ST. - LEON C. SIMON DR.)
STA. 191+56.35 - STA. 195+10.18
REFER TO THIS SHEET FOR TYPICAL SECTION NOTES
REFER TO TABLE B13-10 ON SHEET 2cc FOR BORING DETAILS

Δ ESTABLISHES "NO PARKING" ZONE AT CURB RADIUS RETURN

* MATCH EXISTING CROSS SLOPE. ADJUST AS NECESSARY TO ENSURE POSITIVE DRAINAGE (1.5% MIN.)

⊙ SEE SHEETS 3qqq-3sss FOR STRIPING AND SIGNAGE DETAILS.



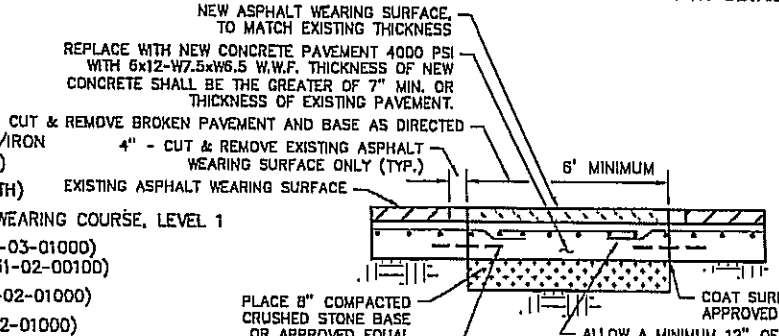
HALF SECTION
ELYSIAN FIELDS AVE. (LEON C. SIMON DR. - LAKESHORE DR.)
STA. 195+10.18 - STA. 213+00.46 (NORTHBOUND)
STA. 195+10.18 - STA. 213+25.57 (SOUTHBOUND)
REFER TO THIS SHEET FOR TYPICAL SECTION NOTES
REFER TO TABLE B13-10 ON SHEET 2cc FOR BORING DETAILS

NOTES-TYPICAL SECTIONS:

1. USE MIN. SLOPE OF 1.5% IN AREAS OF PAVEMENT FAILURES. MAINTAIN EXISTING GRADE OF OUTER EDGE OF PAVEMENT TO ESTABLISH SLOPE. LEVELING MAY BE REQUIRED TO ACHIEVE SLOPE (502-01-00100).
2. REFER TO PLAN SHEETS FOR LOCATION AND DIMENSIONS OF CONCRETE REPAIR AND CONCRETE CURB REPAIR.
3. CONTRACTOR SHALL PATCH ROADWAY PRIOR TO OVERLAY WITH FULL DEPTH CONCRETE PATCH AT LOCATIONS DETERMINED IN THE FIELD AND/OR AS DIRECTED BY THE PROJECT ENGINEER. THE PROJECT ENGINEER SHALL IDENTIFY LOCATIONS FROM US 90 TO LAKESHORE DRIVE REQUIRING JOINT SEALANT, PAVEMENT PATCHING AND JOINT SEALING SHALL BE CONSTRUCTED IN ACCORDANCE WITH N.O. DPW STD. 2, 4-6.
4. 100% OF RAP MATERIAL TO BE RETAINED BY THE CONTRACTOR. THE DEPARTMENT DOES NOT GUARANTEE IN ANY WAY THE QUALITY OF THE RAP MATERIAL.
5. **UPON COMPLETION OF COLD PLANING, THE PROJECT ENGINEER MAY REQUIRE ADDITIONAL ASPHALT REMOVAL SHOULD THE REMAINING THICKNESS BE LESS THAN ONE INCH (1").**
6. REFER TO TITLE SHEET FOR APPLICABLE STANDARD PLANS AND DETAILS USED FOR THIS PROJECT.
7. JOINT FILLER TO BE USED ALONG LONGITUDINAL JOINT OF ELYSIAN FIELDS AVENUE IN ACCORDANCE WITH SPECIAL ITEM NS-XXX AS DIRECTED BY THE PROJECT ENGINEER.

LEGEND - TYPICAL SECTION

- (A) EXISTING INTEGRAL CONCRETE CURB (BARRIER)
- (B) EXISTING INTEGRAL CONCRETE CURB (MOUNTABLE)
- (C) EXISTING ASPHALTIC CONCRETE
- (D) EXISTING PORTLAND CEMENT CONCRETE
- (E) EXISTING SUBGRADE LAYER (BROWN STICKY CLAY W/IRON NODULES & ORGANICS)(GRAY CLAY W/WOOD ROOTS.)
- (F) COLD PLANING ASPHALTIC CONCRETE (2" AVG. DEPTH)
- (G) 2" AVG. DEPTH SUPERPAVE ASPHALTIC CONCRETE WEARING COURSE, LEVEL 1
- (H) 4" BROKEN WHITE LINE PER N.O. DPW STD 10 (732-03-01000) W/ REFLECTORIZED RAISED PAVEMENT MARKERS (731-02-00100)
- (J) 4" SOLID YELLOW LINE PER N.O. DPW STD 10 (732-02-01000)
- (J) 4" SOLID WHITE LINE PER N.O. DPW STD 10 (732-02-01000)
- (K) 6" SOLID WHITE LINE PER N.O. DPW STD 10 (732-01-04020)
- (L) CONCRETE REPAIR



CONCRETE PAVEMENT REPAIR DETAIL
N.T.S.

STATE OF LOUISIANA
NICHOLAS J. OLIVIER
License No. 33351
PROFESSIONAL ENGINEER
CIVIL ENGINEERING
5/09

CIVIL DESIGN & CONSTRUCTION

DOTD DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT

ELYSIAN FIELDS AVENUE

TYPICAL SECTIONS

NO.	DATE	REVISION DESCRIPTION	BY

DESIGNED / CHECKED	NJO / KEW	PARISH	ORLEANS
DETAILED / CHECKED	CMR / NJO	FEDERAL PROJECT	ER-ERP1(054)
DATE / SHEET	FEB. 2009 / 4 OF 5	STATE PROJECT	704-36-0038

SHEET NUMBER 25b

BORE#: B13-5 (SB - 125' E OF MANDOLIN ST.)	
LAYER TYPE	LAYER THICKNESS (INCHES)
AC	2.00
PCC	8.25
SUBGRADE	-

BORE#: B13-10 (NB - 210' N OF SELMA ST.)	
LAYER TYPE	LAYER THICKNESS (INCHES)
AC	1.75
PCC	9.25
SUBGRADE	-

BORE#: B13-11 (NB - 100' N OF LOMBARD ST.)	
LAYER TYPE	LAYER THICKNESS (INCHES)
AC	1.75
PCC	8.25
SUBGRADE	-

I-35

STATE OF LOUISIANA
NICHOLAS J. OLIVIER
License No. 33351
PROFESSIONAL ENGINEER
4/6/09

CIVIL DESIGN & CONSTRUCTION INC.

DOTD TRANSPORTATION AND DEVELOPMENT

ELYSIAN FIELDS AVENUE

TYPICAL SECTIONS

NO	DATE	REVISION DESCRIPTION

DESIGNED	NJO	PARISH	ORLEANS
CHECKED	KEW		
DETAILED	CMR	FEDERAL PROJECT	ER-ERP1(054)
CHECKED	NJO		
DATE	FEB. 2009	STATE PROJECT	704-36-0038
SHEET	5 OF 5		

SHEET NUMBER 2cc

Summary Of Estimated Quantities

Proposal ID: 704-36-0032 **State Project Number:** 704-36-0032
Federal Project Number: ER-ERP1(048)

Proposal Description: Permanent Repair to Federal Aid Eligible Roads

Item No.	Description	Supplemental Description	Alternate Set	Alternate Member	Quantity	Units
		General Items				
202-02-06100	Removal of Concrete Walks and Drives				28,235.000	SQYD
204-06-00100	Temporary Silt Fencing				10,498.000	LNFT
402-01-00100	Traffic Maintenance Aggregate (Vehicular Measurement)				3,000.000	CUYD
502-01-00100	Superpave Asphaltic Concrete				34,630.300	TON
502-01-00200	Superpave Asphaltic Concrete, Drives, Turnouts and Miscellaneous				4,743.700	TON
509-01-00100	Cold Planing Asphaltic Pavement				241,792.900	SQYD
510-01-00200	Pavement Patching (12" Minimum Thickness)				6,073.100	SQYD
602-02-00100	Cleaning and Resealing Existing Longitudinal and Transverse Pavement Joints				399,019.000	LNFT
701-03-01020	Storm Drain Pipe (18" RCP/PP)				36.000	LNFT
701-03-01040	Storm Drain Pipe (24" RCP/PP)				40.000	LNFT
706-01-00100	Concrete Walk (4" Thick)				26,024.100	SQYD
706-01-00300	Concrete Walk (6" Thick)				2,216.600	SQYD
706-02-00200	Concrete Drive (6" Thick)				575.000	SQYD
713-01-00100	Temporary Signs and Barricades				1.000	LUMP

Notes:

Summary Of Estimated Quantities

Proposal ID: 704-36-0032 **State Project Number:** 704-36-0032
Federal Project Number: ER-ERP1(048)

Proposal Description: Permanent Repair to Federal Aid Eligible Roads

Item No.	Description	Supplemental Description	Alternate Set	Alternate Member	Quantity	Units
713-02-00100	Temporary Pavement Markings (4" Width)				60,173.000	LNFT
713-02-00200	Temporary Pavement Markings (6" Width)				6,268.000	LNFT
713-02-00300	Temporary Pavement Markings (8" Width)				300.000	LNFT
713-02-00400	Temporary Pavement Markings (12" Width)				3,585.000	LNFT
717-01-00100	Seeding				1,000.000	LB
718-01-00100	Fertilizer				12,000.000	LB
719-01-02020	Plants (Tree) (Container) (1 1/2" diameter)	(Chionanthus virginicus)(1 1/2" min. caliper; 1" min. d.b.h.; 10' tall min.; straight trunk; 5' min. crotch height)			140.000	EACH
719-01-02020	Plants (Tree) (Container) (1 1/2" diameter)	(Pistacia chinensis)(1 1/2" min. caliper; 1" min. d.b.h.; 10' tall min.; straight trunk; 5' min. crotch height)			86.000	EACH
719-01-02020	Plants (Tree) (Container) (1 1/2" diameter)	(Magnolia grandiflora "Little Gem")(1 1/2" min. caliper; 1" min. d.b.h.; 10' tall min.; straight trunk; 5' min. crotch height)			92.000	EACH
719-01-02020	Plants (Tree) (Container) (1 1/2" diameter)	(Magnolia virginiana "Alken")(1 1/2" min. caliper; 1" min. d.b.h.; 10' tall min.; straight trunk; 5' min. crotch height)			104.000	EACH
719-01-02020	Plants (Tree) (Container) (1 1/2" diameter)	(Ilex x attenuata "Savannah")(1 1/2" min. caliper; 1" min. d.b.h.; 10' tall min.; straight trunk; 5' min. crotch height)			90.000	EACH
719-01-02020	Plants (Tree) (Container) (1 1/2" diameter)	(Halesia diptera magniflora))(1 1/2" min. caliper; 1" min. d.b.h.; 10' tall min.; straight trunk; 5' min. crotch height)			58.000	EACH

Notes:

Summary Of Estimated Quantities

Proposal ID: 704-36-0032 **State Project Number:** 704-36-0032
Federal Project Number: ER-ERP1(048)

Proposal Description: Permanent Repair to Federal Aid Eligible Roads

Item No.	Description	Supplemental Description	Alternate Set	Alternate Member	Quantity	Units
719-01-02060	Plants (Tree) (Container) (2 1/2" diameter)	(Magnolia grandiflora "Samuel Sommer")(2 1/2" min. caliper; 2" min. d.b.h.; 10' tall min.; straight trunk; 5' min. crotch height)			30.000	EACH
719-01-02060	Plants (Tree) (Container) (2 1/2" diameter)	(Quercus nuttallii)(2 1/2" min. caliper; 2" min. d.b.h.; 10' tall min.; straight trunk; 5' min. crotch height)			48.000	EACH
719-01-02060	Plants (Tree) (Container) (2 1/2" diameter)	(Pinus taeda)(2 1/2" min. caliper; 2" min. d.b.h.; 10' tall min.; straight trunk; 5' min. crotch height)			10.000	EACH
719-01-02060	Plants (Tree) (Container) (2 1/2" diameter)	(Quercus virginiana)(2 1/2" min. caliper; 2" min. d.b.h.; 10' tall min.; straight trunk; 5' min. crotch height)			238.000	EACH
719-01-02060	Plants (Tree) (Container) (2 1/2" diameter)	(Magnolia grandiflora "DD Blanchard")(2 1/2" min. caliper; 2" min. d.b.h.; 10' tall min.; straight trunk; 5' min. crotch height)			157.000	EACH
719-01-02060	Plants (Tree) (Container) (2 1/2" diameter)	(Taxodium distichum)(2 1/2" min. caliper; 2" min. d.b.h.; 10' tall min.; straight trunk; 5' min. crotch height)			37.000	EACH
719-01-07000	Plants (Palm) (Balled & Burlapped) (Minimum 3' Trunk Height)	(Phoenix canariensis) (3' min. clear trunk)			40.000	EACH
723-02-00100	Granular Material (Vehicular Measurement)				950.000	CUYD
727-01-00100	Mobilization				1.000	LUMP
729-01-00100	Sign (Type A)				1,064.000	SQFT
729-21-00100	U-Channel Post				240.000	EACH
731-02-00100	Reflectorized Raised Pavement Markers				2,327.000	EACH

Notes:

Summary Of Estimated Quantities

Proposal ID: 704-36-0032 **State Project Number:** 704-36-0032
Federal Project Number: ER-ERP1(048)

Proposal Description: Permanent Repair to Federal Aid Eligible Roads

Item No.	Description	Supplemental Description	Alternate Set	Alternate Member	Quantity	Units
732-01-01000	Plastic Pavement Striping (4" Width) (Thermoplastic 90 mil)				1,360.000	LNFT
732-01-01020	Plastic Pavement Striping (6" Width) (Thermoplastic 90 mil)				68,694.000	LNFT
732-01-01040	Plastic Pavement Striping (8" Width) (Thermoplastic 90 mil)				1,197.000	LNFT
732-01-01060	Plastic Pavement Striping (12" Width) (Thermoplastic 90 mil)				3,585.000	LNFT
732-02-02000	Plastic Pavement Striping (Solid Line) (4" Width) (Thermoplastic 90 mil)				12.002	MILE
732-03-02000	Plastic Pavement Striping (Broken Line) (4" Width) (Thermoplastic 90 mil)				11.394	MILE
732-04-01020	Plastic Pavement Legends and Symbols (Arrow - Straight)				106.000	EACH
732-04-01080	Plastic Pavement Legends and Symbols (Arrow - Left Turn)				3.000	EACH
732-04-01100	Plastic Pavement Legends and Symbols (Arrow - Right Turn)				9.000	EACH
732-04-02000	Plastic Pavement Legends and Symbols (Bicycle)				240.000	EACH
732-04-15020	Plastic Pavement Legends and Symbols (ONLY)				11.000	EACH
732-04-19020	Plastic Pavement Legends and Symbols (SCHOOL ZONE)				14.000	EACH

Notes:

Summary Of Estimated Quantities

Proposal ID: 704-36-0032 **State Project Number:** 704-36-0032
Federal Project Number: ER-ERP1(048)

Proposal Description: Permanent Repair to Federal Aid Eligible Roads

Item No.	Description	Supplemental Description	Alternate Set	Alternate Member	Quantity	Units
736-09-00100	Loop Detector				1,563.000	LNFT
740-01-00100	Construction Layout				1.000	LUMP
741-11-00100	Adjusting Water Valve				61.000	EACH
NS-SRP-00001	ADA Ramps (Type A)				221.000	EACH
NS-SRP-00002	ADA Ramps (Type B)				361.000	EACH
NS-SRP-00004	Adjust (Manhole)				113.000	EACH
NS-SRP-00005	Adjust Catch Basin (Type A)				67.000	EACH
NS-SRP-00012	Concrete Pavement Repair (18.0 sq. yd. and Under)				558.100	SQYD
NS-SRP-00013	Concrete Pavement Repair (18.1 sq. yd. to 48.0 sq. yd.)				5,436.600	SQYD
NS-SRP-00014	Concrete Pavement Repair (48.1 sq. yd. and Over)				37,213.600	SQYD
NS-SRP-00016	Doweled Barrier				5,850.000	LNFT
NS-SRP-00017	Doweled Mountable Curb				792.000	LNFT
NS-SRP-00018	Drilled and Doweled Barrier				6,148.000	LNFT
NS-SRP-00019	Drilled and Doweled Mountable Curb				1,258.000	LNFT
NS-SRP-00023	Pipe (Storm Drain) (21 inch)				372.000	LNFT

Notes:

Summary Of Estimated Quantities

Proposal ID: 704-36-0032 **State Project Number:** 704-36-0032
Federal Project Number: ER-ERP1(048)

Proposal Description: Permanent Repair to Federal Aid Eligible Roads

Item No.	Description	Supplemental Description	Alternate Set	Alternate Member	Quantity	Units
NS-SRP-00026	Pipe Lining (Cured In-Place) (18 inch)				356.000	LNFT
NS-SRP-00027	Pipe Lining (Cured In-Place) (21 inch)				240.000	LNFT
NS-SRP-00028	Pipe Lining (Cured In-Place) (24 inch)				385.000	LNFT
NS-SRP-00029	Project Signs (SRP)				12.000	EACH
NS-SRP-00030	Reconstruct Barrier Curb and Gutter				688.000	LNFT
NS-SRP-00031	Reconstruct Mountable Curb and Gutter				344.000	LNFT
NS-SRP-00032	Rehabilitate Catch Basins				21.000	EACH
NS-SRP-00033	Rehabilitate Manholes				10.000	EACH
NS-SRP-00037	Replace Frame and Cover (Manhole Drain)				7.000	EACH
NS-SRP-00038	Replace Frame and Cover (Catch Basin)				33.000	EACH
NS-SRP-00040	Replace Frame and Cover (Sanitary Sewer)				7.000	EACH
NS-SRP-00044	Tree Protection				1.000	LUMP
NS-SRP-00045	Tree Trimming				1.000	LUMP
NS-SRP-00046	Root Pruning and Trenching				1.000	LUMP
NS-SRP-00048	Gravel Bed and Filter Cloth Over Tree Roots				369.000	SQYD
NS-SRP-00053	Crack Filler (Sand AC)				22,100.000	LNFT

Notes:

Summary Of Estimated Quantities

Proposal ID: 704-36-0032 **State Project Number:** 704-36-0032
Federal Project Number: ER-ERP1(048)

Proposal Description: Permanent Repair to Federal Aid Eligible Roads

Item No.	Description	Supplemental Description	Alternate Set	Alternate Member	Quantity	Units
NS-SRP-00054	Pipe (Storm Drain) [12 inch (300 mm)]				6.000	LNFT

Notes:

LEON C SIMON BLVD. PAVING QUANTITES

STATION	STATION	DESCRIPTION	EXCEPTION (FEET)	LENGTH (FEET)	AVG. WIDTH (FEET)	502-01-00100 SUPERPAVE ASPHALTIC CONCRETE (2" AVG.)		502-01-00200 SUPERPAVE AC DRIVES, TURNOUTS & MISC. (2" AVG.)		509-01-00100 COLD PLANING ASPHALTIC CONCRETE (2" AVG. DEPTH)
						*SQ. YD.	*TONS	*SQ. YD.	*TONS	*SQ. YD.
104+68.57	106+62.28	BEGIN CONST TO FOUNDERS RD./WALDO DR. (WB)	–	193.71	VARIES	698.0	76.8	82.6	9.1	780.6
104+83.89	106+62.28	BEGIN CONST. TO FOUNDERS RD./WALDO DR. (EB)	–	178.39	VARIES	606.0	66.7	221.3	24.3	827.3
106+62.28	109+28.57	FOUNDERS RD./WALDO DR. – WAINWRIGHT DR. (WB)	–	266.29	VARIES	970.7	106.8	155.2	17.1	1125.9
106+62.28	109+28.57	FOUNDERS RD./WALDO DR. – WAINWRIGHT DR. (EB)	–	266.29	VARIES	1231.2	135.4	192.0	21.1	1423.2
109+28.57	111+95.35	WAINWRIGHT DR. – WADSWORTH DR. (WB)	–	266.78	VARIES	984.5	108.3	162.3	17.9	1146.8
109+28.57	111+95.35	WAINWRIGHT DR. – WADSWORTH DR. (EB)	–	266.78	VARIES	984.7	108.3	210.0	23.1	1194.7
111+95.35	120+14.85	WADSWORTH DR. – CURIE RD. (WB)	–	819.50	VARIES	2945.6	324.0	722.2	79.4	3667.8
111+95.35	120+14.85	WADSWORTH DR. – CURIE RD. (EB)	–	819.50	VARIES	3258.5	358.4	645.2	71.0	3903.7
120+14.85	130+04.39	CURIE RD. – ELYSIAN FIELDS AVE. (WB)	–	989.54	VARIES	3721.9	409.4	336.7	37.0	4058.6
120+14.85	130+04.39	CURIE RD. – ELYSIAN FIELDS AVE. (EB)	–	989.54	VARIES	3629.9	399.3	240.1	26.4	3870.0
SUBTOTAL							2093.4		326.4	21998.6
ADDITIONAL 40% ESTIMATED FOR LEVELING							837.4		130.6	
TOTAL							2930.8		457.0	21998.6

* QUANTITIES BASED ON ACTUALS, WIDTH VARIES PER TYPICAL SECTIONS.

STATE OF LOUISIANA
NICHOLAS J. OLIVIER
License No. 33351
PROFESSIONAL ENGINEER
1/28/09

CIVIL DESIGN & CONSTRUCTION INC.

LEON C SIMON BLVD.

PAVING QUANTITY SUMMARY TABLE

NO.	DATE	REVISION DESCRIPTION	BY

DESIGNED / CHECKED	NJO / KEW
DETAILED / CHECKED	CMR / NJO
DATE / SHEET	JAN. 2009 / 4 of 43
PARISH	ORLEANS
FEDERAL PROJECT	ER-ERP1(048)
STATE PROJECT	704-38-0032
SHEET NUMBER	3c

LEON C SIMON BLVD. ADA RAMP				
STATION	SIDE OF ℄	OFFSET (FEET)	TYPE	
			A	B
105+79.21	LT	72.0		1
106+05.85	LT	76.5		1
106+38.33	LT	40.0		1
106+41.80	LT	78.0		1
106+43.45	RT	23.5		1
106+48.93	RT	84.5		1
106+82.45	LT	42.0		1
106+83.30	RT	84.0	1	
106+86.26	RT	29.5		1
106+91.91	LT	100.0	1	
111+76.95	RT	84.0		1
112+11.80	RT	84.5	1	
114+46.47	RT	42.0		1
114+48.46	RT	80.5		1
114+50.54	LT	39.5		1
114+56.71	LT	75.0	1	
115+07.45	LT	77.5		1
115+34.76	LT	75.5		1
115+44.90	RT	74.5	1	
115+60.48	RT	36.0		1
SUBTOTAL 1			5	15

LEON C SIMON BLVD. ADA RAMP				
STATION	SIDE OF ℄	OFFSET (FEET)	TYPE	
			A	B
115+67.21	LT	72.0	1	
115+68.19	LT	33.0		1
117+54.86	LT	24.5		1
117+57.44	RT	28.5		1
117+68.28	LT	60.0		1
117+63.59	RT	66.5	1	
117+96.57	RT	65.5	1	
117+99.15	LT	23.0		1
118+00.69	RT	28.0		1
118+02.72	LT	58.5		1
119+91.32	LT	20.5		1
119+93.95	RT	23.5		1
120+02.93	RT	61.5	1	
120+35.60	RT	61.5	1	
123+45.14	LT	62.0	1	
123+91.87	LT	59.5	1	
129+97.19	RT	25.5		1
130+00.87	LT	54.0	1	
130+02.55	RT	62.0	1	
SUBTOTAL 2			9	10
SUBTOTAL 1			5	15
SUBTOTAL 2			9	10
TOTAL			14	25

STATE OF LOUISIANA
NICHOLAS J. OLIVIER
License No. 33351
PROFESSIONAL ENGINEER
CIVIL ENGINEERING
1/28/09

CIVIL DESIGN & CONSTRUCTION INC.

LEON C SIMON BLVD.

ADA RAMP SUMMARY TABLE

NO.	DATE	REVISION DESCRIPTION	BY

DESIGNED / CHECKED	NJO / KEW	PARISH	ORLEANS
DETAILED / CHECKED	CMR / NJO	FEDERAL PROJECT	ER-ERP1(048)
DATE / SHEET	JAN. 2009 / 5 of 43	STATE PROJECT	704-36-0032

SHEET NUMBER 3d

LEON C. SIMON BLVD. CATCH BASIN REPAIRS

STRUCTURE NUMBER	CB ADJUST	REHAB. EXIST. CATCH BASINS AND MANHOLES	CB FRAME & COVER	STATION	OFFSET (FT)	DESCRIPTION
399-494-0250	1			125+58	-21	ADJ-1
ADJ1-	ADJUST CATCH BASIN FRAME AND COVER UP TP 8 INCHES VERTICALLY					
COV-	REPLACE CATCH BASIN COVER					
LIN-	INSTALL FULL DEPTH CEMENTITIOUS LINER					
RFC1-	REPLACE CATCH BASIN FRAME AND COVER AND ADJUST UP TO 8 INCHES VERTICALLY					

NOTES:

1. *DRAIN MANHOLES, SANITARY SEWER MANHOLES, AND CATCH BASINS ARE TO BE REPAIRED IN ACCORDANCE WITH N.O. S&WB STANDARDS AND SPECIFICATIONS (LATEST EDITION).*
2. *ALL UTILITY REPAIR LOCATIONS AND DIMENSIONS ARE APPROXIMATE AND SUBJECT TO CHANGE BY THE PROJECT ENGINEER.*
3. *ALL MANHOLE STRUCTURES ARE STORM DRAINS UNLESS OTHERWISE NOTED IN THE UTILITY SUMMARY QUANTITY TABLES.*
4. *CONTRACTOR TO VERIFY LOCATIONS OF REPAIRS WITH PRE-CONSTRUCTION CCTV.*
5. *CONTRACTOR SHALL REINSTATE ALL LATERALS.*

STATE OF LOUISIANA
NICHOLAS J. OLIVIER
License No. 33351
PROFESSIONAL ENGINEER
5/14/09

CIVIL DESIGN & CONSTRUCTION INC.

LEON C SIMON BLVD.

UTILITY REPAIR SUMMARY TABLE

NO.	DATE	REVISION DESCRIPTION	BY

DESIGNED / CHECKED	NJO / KEW	PARISH	ORLEANS
DETAILED / CHECKED	CMR / NJO	FEDERAL PROJECT	ER-ERP1(048)
DATE	DEC. 2008	STATE PROJECT	704-36-0032
SHEET	6 of 43	SHEET NUMBER	3a

LEON C SIMON BLVD. PAVEMENT REPAIR				
STATION	SIDE OF ℄	CONCRETE PAVEMENT REPAIR (18.0 SQ. YD. AND UNDER)	CONCRETE PAVEMENT REPAIR (18.1 - 48.0 SQ. YD.)	CONCRETE PAVEMENT REPAIR (48.1 SQ. YD. AND OVER)
		SQ. YD.	SQ. YD.	SQ. YD.
104+77	LT.			
105+79	RT.			52.9
106+87	RT.		21.3	
107+18	RT.		30.7	
108+36	LT.		30.7	
108+65	RT.		22.7	
110+17	RT.			168.0
110+40	LT.			200.0
112+32	RT.		22.7	
112+55	RT.		29.3	
112+70	LT.			80.9
113+08	RT.			97.8
113+40	RT.			126.0
114+11	RT.			183.4
114+40	LT.		39.0	
115+72	RT.		22.7	
115+94	LT.		22.7	
118+05	RT.			56.7
118+34	LT.		22.7	
118+75	LT.		22.7	
120+46	LT.			175.0
120+88	RT.		30.2	
				161.8
SUBTOTAL 1		0.0	317.4	1302.5

NOTE: THE AREAS AND STATIONS SHOWN ARE ANTICIPATED BASED UPON RECONNAISSANCE AND SITE SURVEY. AFTER COLD PLANING OPERATIONS ARE COMPLETE, PROJECT ENGINEER SHALL VERIFY ACTUAL LOCATIONS AND DIMENSIONS.

LEON C SIMON BLVD. PAVEMENT REPAIR				
STATION	SIDE OF ℄	CONCRETE PAVEMENT REPAIR (18.0 SQ. YD. AND UNDER)	CONCRETE PAVEMENT REPAIR (18.1 - 48.0 SQ. YD.)	CONCRETE PAVEMENT REPAIR (48.1 SQ. YD. AND OVER)
		SQ. YD.	SQ. YD.	SQ. YD.
121+09	LT.			158.9
122+02	RT.			485.3
122+34	LT.			313.3
123+06	RT.			254.2
124+21	LT.			75.0
124+24	RT.			156.0
124+51	LT.		37.8	
124+52	RT.		22.7	
124+95	RT.			274.4
125+04	LT.			358.3
125+60	RT.		25.3	
125+64	LT.			53.3
125+76	RT.			198.3
127+28	LT.		22.7	
127+30	RT.		22.7	
127+65	RT.			173.3
127+95	RT.		34.0	
128+25	RT.		40	
128+80	LT.	17.3		
129+96	LT.		22.7	
SUBTOTAL 2		17.3	227.9	2500.3
SUBTOTAL 1		0.0	317.4	1302.5
SUBTOTAL 2		17.3	227.9	2500.3
TOTAL		17.3	545.3	3802.8

NOTE: THE AREAS AND STATIONS SHOWN ARE ANTICIPATED BASED UPON RECONNAISSANCE AND SITE SURVEY. AFTER COLD PLANING OPERATIONS ARE COMPLETE, PROJECT ENGINEER SHALL VERIFY ACTUAL LOCATIONS AND DIMENSIONS.

STATE OF LOUISIANA
NICHOLAS J. OLIVIER
License No. 33351
PROFESSIONAL ENGINEER
IN
CIVIL ENGINEERING
5/14/09

CIVIL DESIGN & CONSTRUCTION INC.

LEON C SIMON BLVD.

PAVEMENT REPAIR SUMMARY TABLE

NO.	DATE	REVISION DESCRIPTION

DESIGNED	NJO	PARISH	ORLEANS
CHECKED	KEW		
DETAILED	CMR	FEDERAL PROJECT	ER-ERP1(048)
CHECKED	NJO		
DATE	JAN. 2009	STATE PROJECT	704-36-0032

SHEET NUMBER 3F

LEON C SIMON BLVD. CURB REPAIR			
STATION	SIDE OF ℄	DOWELED BARRIER CURB	DRILLED AND DOWELED BARRIER CURB
		LIN. FT.	LIN. FT.
108+43	LT.		18
108+65	RT.	108	
110+17	RT.	120	
110+40	LT.		12
112+31	RT.	33	
112+53	RT.	56	
113+07	RT.	81	
113+41	RT.	127	
113+81	LT.		4
113+96	LT.		4
114+82	RT.		4
114+89	RT.		5
114+93	LT.		1
115+01	LT.		1
115+94	LT.		30
118+35	LT.	4	
119+96	LT.		18
120+50	LT.	8	
120+88	RT.	5	
121+12	LT.	105	
122+02	RT.	168	
122+36	LT.	183	
123+06	RT.	88	
123+96	RT.		24
124+23	RT.	60	
124+95	RT.	95	
125+34	LT.	215	
125+64	LT.	24	
125+66	RT.	114	
126+93	LT.		10
127+33	RT.	7	
127+46	LT.		22
127+57	RT.	60	
127+64	RT.		12
128+25	RT.	45	
129+94	LT.	8	
	TOTAL	1714	163

NOTE: THE STATIONS SHOWN ARE ANTICIPATED BASED UPON RECONNAISSANCE AND SITE SURVEY. THE PROJECT ENGINEER SHALL VERIFY ACTUAL LOCATIONS AND DIMENSIONS.

STATE OF LOUISIANA
NICHOLAS J. OLIVIER
License No. 33351
PROFESSIONAL ENGINEER
CIVIL ENGINEER
5/14/09

CIVIL DESIGN & CONSTRUCTION INC.

DOTD

LEON C SIMON BLVD.

CURB REPAIR SUMMARY TABLE

NO.	DATE	REVISION DESCRIPTION

DESIGNED	NJO	PARISH	ORLEANS
CHECKED	KEW		
DETAILED	CMR	FEDERAL PROJECT	ER-ERP1(048)
CHECKED	NJO		
DATE	JAN. 2009	STATE PROJECT	704-36-0032

SHEET NUMBER 59

FINAL PLANS

MIRABEAU AVENUE (EASTBOUND) PAVING QUANTITIES

STATION	STATION	DESCRIPTION	EXCEPTION (FEET)	LENGTH (FEET)	AVG. WIDTH (FEET)	502-01-00100 SUPERPAVE ASPHALTIC CONCRETE (2" AVG.)		502-01-00200 SUPERPAVE AC DRIVES, TURNOUTS & MISC (2" AVG.)		509-01-00100 COLD PLANING ASPHALTIC PAVEMENT (2" AVG. DEPTH)
						SQ YD	TONS	SQ YD	TONS	SQ YD
9+72.03	35+25.21	ST. BERNARD - PARIS		2553.18	32.50	9,219.82	1,014.2			9,220
35+25.21	37+86.06	PARIS - CROSSOVER		260.85	32.50	941.96	103.6			942
37+86.06	47+60.36	CROSSOVER - PRATT		974.30	32.50	3,518.31	387.0			3,518
47+60.36	49+45.00	PRATT - BEGIN BRIDGE APPROACH SLAB		184.64	29.25	600.08	66.0			600
		LONDON CANAL BRIDGE	220							
51+65.00	53+66.06	END BRIDGE APPROACH SLAB - WARRINGTON		201.06	29.50	659.03	72.5			659
12+87	13+11	CROSSOVER		VARIES	42.50			125.67	13.8	126
17+44	17+68	CROSSOVER		VARIES	42.50			125.67	13.8	126
19+91	20+35	CROSSOVER		VARIES	42.50			216.11	23.8	216
23+62	23+92	CROSSOVER		VARIES	42.50			153.89	16.9	154
28+72	29+06	CROSSOVER		VARIES	42.50			172.56	19.0	173
30+59	30+89	CROSSOVER		VARIES	42.50			153.89	16.9	154
32+38	32+68	CROSSOVER		VARIES	42.50			153.89	16.9	154
34+73	35+03	CROSSOVER		VARIES	42.50			153.89	16.9	154
35+48	35+78	CROSSOVER		VARIES	VARIES			153.89	16.9	154
37+71	38+01	CROSSOVER		VARIES	VARIES			122.78	13.5	123
45+52	45+82	CROSSOVER		VARIES	31.50			121.33	13.3	121
47+38	47+82	CROSSOVER		VARIES	VARIES			143.78	15.8	144
19+82	20+39	TURNOUT - CARTIER		57.00	VARIES			39.00	4.3	39
23+50	24+04	TURNOUT - DUPLESSIS		54.00	VARIES			39.00	4.3	39
26+08	26+51	TURNOUT - MARJORIE		43.00	VARIES			39.00	4.3	39
28+64	29+10	TURNOUT - PERLITA		46.00	VARIES			45.22	5.0	45
34+61	35+13	TURNOUT - PARIS		52.00	VARIES			41.11	4.5	41
35+37	35+91	TURNOUT - PARIS		54.00	VARIES			41.11	4.5	41
47+25	47+91	TURNOUT - PRATT		66.00	VARIES			81.33	8.9	81
EASTBOUND TOTALS							1,643.30		233.3	17,063

STATE OF LOUISIANA
Blake S. Roussel
REG. No. 33279
REGISTERED
PROFESSIONAL ENGINEER
1/28/09
ENGINEERING

Stanley Consultants, Inc.

DOTD TRANSPORTATION AND DEVELOPMENT

MIRABEAU AVENUE

PAVING QUANTITY SUMMARY TABLE

NO.	DATE	REVISION DESCRIPTION	BY

DESIGNED / CHECKED	BSR / JRS	PARISH	ORLEANS
DETAILED / CHECKED	BSR / JRS	FEDERAL PROJECT	ER-ERP1(050)
DATE / SHEET	JAN 2009 / 0 OF 43	STATE PROJECT	704-36-0034

SHEET NUMBER 3h

MIRABEAU AVENUE (WESTBOUND) PAVING QUANTITIES

STATION	STATION	DESCRIPTION	EXCEPTION (FEET)	LENGTH (FEET)	AVG. WIDTH (FEET)	502-01-00100 SUPERPAVE ASPHALTIC CONCRETE (2" AVG.)		502-01-00200 SUPERPAVE AC DRIVES, TURNOUTS & MISC (2" AVG.)		509-01-00100 COLD PLANING ASPHALTIC PAVEMENT (2" AVG. DEPTH)
						SQ YD	TONS	SQ YD	TONS	SQ YD
9+72.03	35+25.21	ST. BERNARD - PARIS		2553.18	32.50	9,219.62	1,014.2			9,220
35+25.21	37+86.06	PARIS - CROSSOVER		260.85	32.50	941.96	103.6			942
37+86.06	47+60.36	CROSSOVER - PRATT		974.30	32.50	3,518.31	387.0			3,518
47+60.36	49+45.00	PRATT - BEGIN BRIDGE APPROACH SLAB		184.64	29.25	600.08	66.0			600
		LONDON CANAL BRIDGE	220							
51+65.00	53+66.06	END BRIDGE APPROACH SLAB - WARRINGTON		201.06	29.50	659.03	72.5			659
19+82	20+39	TURNOUT - CARTIER		57.00	VARIES			39.00	4.3	39
28+64	29+10	TURNOUT - PERLITA		46.00	VARIES			45.22	5.0	45
34+61	35+13	TURNOUT - PARIS		52.00	VARIES			41.11	4.5	41
35+37	35+91	TURNOUT - PARIS		54.00	VARIES			41.11	4.5	41
47+25	47+91	TURNOUT - PRATT		66.00	VARIES			81.33	8.9	81
WESTBOUND TOTALS							1,643.3		27.2	15,166
EASTBOUND TOTALS (FROM SHEET 3h)							1,643.3		233.3	17,063
ADDITIONAL 40% ESTIMATED FOR LEVELING							1,314.6		104.2	
ROADWAY TOTALS							4,601.2		364.7	32,249

STATE OF LOUISIANA
Blake S. Roussel
REG. No. 33279
REGISTERED
PROFESSIONAL ENGINEER
Blake S. Roussel
1/28/09
ENGINEERING

Stanley Consultants, Inc.

DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT DOTD

MIRABEAU AVENUE

PAVING QUANTITY SUMMARY TABLE

NO.	DATE	REVISION DESCRIPTION

DESIGNED	BSR	PARISH	ORLEANS
CHECKED	JRS		
DETAILED	BSR	FEDERAL PROJECT	ER-ERP1(050)
CHECKED	JRS		
DATE	JAN 2009	STATE PROJECT	704-36-0034

SHEET NUMBER 31

FINAL PLANS

MIRABEAU AVENUE ADA RAMP				
STATION	SIDE OF ℄	OFFSET (FEET)	TYPE A	TYPE B
19+80	RT	57	1	
19+88	RT	19		1
19+88	LT	19		1
19+80	LT	57	1	
20+32	RT	61		1
20+38	RT	55		1
20+36	RT	17		1
20+38	LT	19		1
20+42	LT	54		1
20+33	LT	62		1
23+60	RT	59		1
23+96	RT	59	1	
26+14	RT	57		1
26+47	RT	57		1
26+71	RT	58		1
28+69	RT	20		1
28+69	LT	20		1
28+69	LT	53		1
28+78	LT	61		1
29+04	RT	68	1	
29+09	RT	19		1
29+10	LT	19		1
29+08	LT	57	1	
34+67	RT	58	1	
34+67	RT	20		1
34+67	LT	18		1
34+67	LT	57	1	
35+06	RT	57		1
35+04	LT	58		1
35+44	RT	57		1
35+44	LT	57		1
35+82	RT	56	1	
35+82	RT	19		1
35+82	LT	19		1
35+82	LT	55	1	
47+29	RT	53		1
SUBTOTAL			9	27

MIRABEAU AVENUE ADA RAMP				
STATION	SIDE OF ℄	OFFSET (FEET)	TYPE A	TYPE B
47+38	RT	61		1
47+34	RT	15		1
47+32	LT	13		1
47+40	LT	53	1	
47+77	RT	53		1
47+89	RT	38		1
47+85	RT	9		1
47+87	LT	8		1
47+76	LT	41	1	
53+42	RT	37		1
53+50	RT	53		1
53+41	RT	10		1
53+41	LT	12		1
53+43	LT	37		1
53+55	LT	54		1
53+82	RT	47	1	
53+86	RT	10		1
53+87	LT	8		1
53+87	LT	48	1	
58+42	RT	49	1	
58+76	RT	49	1	
62+12	RT	50	1	
62+09	RT	10		1
62+06	LT	9		1
62+14	LT	48	1	
62+46	RT	49	1	
62+47	RT	10		1
62+49	LT	8		1
62+44	LT	47	1	
65+51	RT	54	1	
65+50	RT	16		1
65+48	LT	17		1
65+45	LT	49		1
65+56	LT	60		1
65+89	RT	59		1
65+81	LT	61		1
SUBTOTAL			11	25

MIRABEAU AVENUE ADA RAMP				
STATION	SIDE OF ℄	OFFSET (FEET)	TYPE A	TYPE B
66+09	RT	57		1
66+10	LT	59		1
66+43	RT	62		1
66+52	RT	52		1
66+55	RT	18		1
66+53	LT	17		1
66+53	LT	50		1
66+43	LT	61		1
69+40	RT	50	1	
69+37	RT	12		1
69+36	LT	9		1
69+42	LT	46	1	
69+74	RT	49	1	
69+78	RT	11		1
69+80	LT	8		1
69+76	LT	46	1	
73+04	RT	56		1
72+84	RT	46		1
72+97	RT	11		1
72+95	LT	9		1
73+00	LT	46	1	
73+34	RT	49	1	
73+38	RT	11		1
73+40	LT	9		1
73+34	LT	47	1	
76+59	RT	48	1	
76+54	RT	12		1
76+54	LT	10		1
76+60	LT	47	1	
76+94	RT	49	1	
76+96	RT	11		1
76+99	LT	9		1
76+93	LT	47	1	
SUBTOTAL			11	22
TOTAL			31	74

STATE OF LOUISIANA
Blake S. Roussel
REG. No. 33279
REGISTERED
PROFESSIONAL ENGINEER
CIVIL 1/28/09 ENGINEERING

I-50

Stanley Consultants, Inc.

DOTD TRANSPORTATION AND DEVELOPMENT

MIRABEAU AVENUE

ADA RAMP SUMMARY TABLE

NO.	DATE	REVISION DESCRIPTION

DESIGNED / CHECKED	BSR / JRS	PARISH	ORLEANS
DETAILED / CHECKED	BSR / JRS	FEDERAL PROJECT	ER-ERP1(050)
DATE	JAN 2009	STATE PROJECT	704-36-0034

SHEET NUMBER 31

NOTES:

1. DRAIN MANHOLES, SANITARY SEWER MANHOLES, AND CATCH BASINS ARE TO BE REPAIRED IN ACCORDANCE WITH NEW ORLEANS S&WB/DPW STANDARDS AND SPECIFICATIONS (LATEST EDITION).

2. ALL UTILITY REPAIR LOCATIONS AND DIMENSIONS ARE APPROXIMATE AND SUBJECT TO CHANGE BY THE PROJECT ENGINEER.

3. ALL MANHOLE STRUCTURES ARE STORM DRAINS UNLESS OTHERWISE NOTED IN THE UTILITY SUMMARY QUANTITY TABLES.

4. CONTRACTOR TO VERIFY LOCATIONS OF REPAIRS WITH PRE-CONSTRUCTION CCTV.

5. CONTRACTOR SHALL REINSTATE ALL LATERALS.

MIRABEAU AVENUE CATCH BASIN REPAIRS

STRUCTURE #	CB ADJUST.	CB FRAME & COVER	STATION	OFFSET	DESCRIPTION
396-488-0230	1	1	14+28	54	RFC1 - INSTALL FULL DEPTH CEMENTITIOUS LINER
396-488-0439	1	1	20+70	-53	RFC1
396-488-0303	1		39+85	-47	ADJ1
396-488-0304	1	1	39+86	50	RFC1
396-488-0356	1	1	22+52	-53	RFC1
396-488-0396	1		31+24	-53	ADJ1
399-488-0276	1		41+76	50	ADJ1
399-488-0277	1		43+61	51	ADJ1
399-488-0278	1		45+49	-47	ADJ1
399-488-0279A		1	48+05	-33	COV
399-488-0308	1		61+72	-43	ADJ1 - INSTALL FULL DEPTH CEMENTITIOUS LINER
399-488-0428	1		45+35	51	ADJ1
399-488-0436	1		41+80	-47	ADJ1
399-488-0448	1		68+04	48	ADJ1
399-488-0449	1		70+21	-42	ADJ1
399-488-0450	1		69+02	-43	ADJ1
402-488-0436	1		72+21	-42	ADJ1
402-488-0450	1		72+54	46	ADJ1
402-488-0452	1		74+82	46	ADJ1
402-490-0406	1		75+42	-43	ADJ1
399-488-0444A	1		63+92	-46	ADJ1
399-488-0307	1	1	62+83	-42	RFC1 - INSTALL FULL DEPTH CEMENTITIOUS LINER
402-490-0280	1		73+94	-43	ADJ1
402-490-0403	1		79+37	-43	ADJ1
402-490-0404	1		77+37	-43	ADJ1
396-488-0359A	1		29+47	54	ADJ1
402-488-0447A	1		77+93	45	ADJ1
402-488-0446A	1		78+53	44	ADJ1
TOTAL	27	6			

ADJ1 - ADJUST CATCH BASIN FRAME AND COVER UP TO 8 INCHES VERTICALLY

COV - REPLACE CATCH BASIN COVER

RFC1 - REPLACE CATCH BASIN FRAME AND COVER AND ADJUST UP TO 8 INCHES VERTICALLY

STATE OF LOUISIANA
Blake S. Roussel
REG. No. 33279
REGISTERED
PROFESSIONAL ENGINEER
Blake S. Roussel
5/14/09
CIVIL ENGINEERING

Stanley Consultants, Inc.

DOTD

MIRABEAU AVENUE

UTILITY REPAIR SUMMARY TABLE

NO.	DATE	REVISION DESCRIPTION

DESIGNED	BSR	PARISH	ORLEANS
CHECKED	JRS		
DETAILED	BSR	FEDERAL PROJECT	ER-ERP1(050)
CHECKED	JRS		
DATE	MAY 2009	STATE PROJECT	704-36-0034
SHEET	12 OF 43		

SHEET NUMBER 3K

NOTES:

1. DRAIN MANHOLES, SANITARY SEWER MANHOLES, AND CATCH BASINS ARE TO BE REPAIRED IN ACCORDANCE WITH NEW ORLEANS S&WB/DPW STANDARDS AND SPECIFICATIONS (LATEST EDITION).

2. ALL UTILITY REPAIR LOCATIONS AND DIMENSIONS ARE APPROXIMATE AND SUBJECT TO CHANGE BY THE PROJECT ENGINEER.

3. ALL MANHOLE STRUCTURES ARE STORM DRAINS UNLESS OTHERWISE NOTED IN THE UTILITY SUMMARY QUANTITY TABLES.

4. CONTRACTOR TO VERIFY LOCATIONS OF REPAIRS WITH PRE-CONSTRUCTION CCTV.

5. CONTRACTOR SHALL REINSTATE ALL LATERALS.

MIRABEAU AVENUE DRAIN MANHOLE REPAIRS

STRUCTURE #	MH ADJUST.	SANITARY SEWER MH FRAME AND COVER	STATION	OFFSET	DESCRIPTION
396-488-0070	1		29+02	-50	ADJ1
396-488-0089	1		19+95	-50	ADJ1 - INSTALL FULL DEPTH CEMENTITIOUS LINER
396-488-0097	1		11+30	-58	ADJ1
396-488-0158	1		40+19	48	ADJ1
399-488-0001	1		69+65	0	ADJ1
399-488-0067	1		67+88	47	ADJ1
399-488-0086	1		53+77	-47	ADJ1
399-488-0097	1		69+67	-47	ADJ1
402-490-0102	1		60+25	-41	ADJ1
402-490-0118	1		75+25	-37	ADJ1
402-490-0146	1		76+68	-48	ADJ1
243-024#	1	1	28+92	-60	RFC1
298-035#	1	1	20+12	62	RFC1
298-046#	1	1	23+77	61	RFC1
TOTAL	14	3			

ADJ1 - ADJUST MANHOLE FRAME AND COVER UP TO 8 INCHES VERTICALLY

RFC1 - REPLACE MANHOLE FRAME AND COVER AND ADJUST UP TO 8 INCHES VERTICALLY

# INDICATES SEWER MANHOLE

* MIRABEAU AVENUE STORM DRAIN REPAIRS

UPSTREAM MANHOLE	DOWNSTREAM MANHOLE	REPAIR DESCRIPTION	ASSET SIZE (INCH)	BEGIN STATION / OFFSET	END STATION / OFFSET	LENGTH (FT)
399-488-0436	399-488-0166	REPAIR RCP	12	41+80 / -38	41+80 / -44	6

* NON-ER PARTICIPATING ITEM

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MIRABEAU AVENUE

UTILITY REPAIR SUMMARY TABLE

NO.	DATE	REVISION DESCRIPTION	BY

DESIGNED / CHECKED	BSR / JRS	PARISH	ORLEANS
DETAILED / CHECKED	BSR / JRS	FEDERAL PROJECT	ER-ERP1(050)
DATE	MAY 2009	STATE PROJECT	704-36-0034
SHEET	13 OF 17	SHEET NUMBER	31

MIRABEAU AVENUE PAVEMENT REPAIR QUANTITIES

STATION	RT/LT OF ℄	CONC. PVMT. REPAIR (18.0 SQ YD AND UNDER) (SQ YD)	CONC. PVMT. REPAIR (18.1 - 48.0 SQ YD) (SQ YD)	CONC. PVMT. REPAIR (48.1 SQ YD AND OVER) (SQ YD)
10+15	RT			56.0
11+02	LT			210.0
11+05	RT			60.7
14+44	LT			80.0
14+51	RT			160.0
14+62	LT			210.0
16+73	LT			80.0
17+59	RT	11.1		
18+32	RT			117.3
18+49	LT			120.0
18+74	RT		40.0	
19+72	RT			53.3
20+75	RT	4.0		
22+37	LT			57.3
22+43	RT			77.3
22+86	LT		22.7	
22+96	RT		35.0	
25+27	LT			176.0
25+72	RT		26.7	
28+06	RT			82.7
29+87	LT			176.0
30+11	RT			216.0
30+73	RT			68.9
31+09	LT			56.0
31+29	RT		32.0	
32+01	LT	17.0		
32+13	RT		26.7	
32+53	RT			71.1
32+85	LT	17.0		
33+72	RT		32.0	
36+27	RT		16.7	
SUBTOTAL		49.1	233.8	2,138.6

NOTE: THE AREAS AND STATIONS SHOWN ARE ANTICIPATED BASED UPON RECONNAISSANCE AND SITE SURVEY. AFTER COLD PLANING OPERATIONS ARE COMPLETE, PROJECT ENGINEER SHALL VERIFY ACTUAL LOCATIONS AND DIMENSIONS.

MIRABEAU AVENUE PAVEMENT REPAIR QUANTITIES

STATION	RT/LT OF ℄	CONC. PVMT. REPAIR (18.0 SQ YD AND UNDER) (SQ YD)	CONC. PVMT. REPAIR (18.1 - 48.0 SQ YD) (SQ YD)	CONC. PVMT. REPAIR (48.1 SQ YD AND OVER) (SQ YD)
37+16	LT			120.0
38+60	RT		21.3	
38+82	RT			93.3
39+33	LT			60.0
40+08	LT			70.0
40+09	RT			210.0
40+51	LT		21.0	
40+82	RT			320.0
41+95	LT			330.0
42+62	LT			80.0
43+52	LT		30.0	
44+33	LT			220.0
44+40	RT			88.3
44+99	LT			60.0
45+44	RT			73.3
46+05	LT		21.3	
46+61	RT			289.3
47+18	LT			330.0
53+24	LT		29.6	
53+86	LT		29.6	
54+20	RT		22.0	
54+87	LT			440.0
55+09	RT			146.7
55+34	RT		22.0	
56+29	RT		22.0	
56+98	LT			80.0
59+32	RT		30.0	
59+87	RT		30.0	
60+71	RT		22.0	
60+98	LT			60.0
61+76	LT			140.0
62+93	LT			210.0
63+18	RT			210.0
64+06	LT			140.0
64+14	RT			330.0
SUBTOTAL		0	300.8	4,100.9

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CIVIL ENGINEERING

Stanley Consultants, Inc.

DOTD DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT

MIRABEAU AVENUE

PAVEMENT REPAIR SUMMARY TABLE

STATE OF LOUISIANA DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT

NO	DATE	

DESIGNED / CHECKED	BSR / JRS	PARISH	ORLEANS
DETAILED / CHECKED	BSR / JRS	FEDERAL PROJECT	ER-ERP1(050)
DATE	MAY 2009	STATE PROJECT	704-36-0034

SHEET NUMBER 3m

MIRABEAU AVENUE PAVEMENT REPAIR QUANTITIES				
STATION	RT/LT OF ℄	CONC. PVMT. REPAIR (18.0 SQ YD AND UNDER) (SQ YD)	CONC. PVMT. REPAIR (18.1 - 48.0 SQ YD) (SQ YD)	CONC. PVMT. REPAIR (48.1 SQ YD AND OVER) (SQ YD)
65+27	LT		21.3	
66+00	LT		21.3	
66+50	RT		22.0	
66+96	RT			330.0
67+40	RT		22.0	
68+25	RT		30.0	
68+69	LT			210.0
69+29	LT			220.0
69+87	RT		22.0	
70+52	RT			110.0
71+00	RT			330.0
71+88	RT		22.0	
72+40	RT			80.0
72+45	LT			990.0
73+33	RT			120.0
73+56	LT		40.0	
74+15	RT			330.0
74+82	LT			440.0
76+39	LT			280.0
77+18	RT			173.3
78+07	LT			250.0
78+73	RT			60.0
79+40	RT			330.0
SUBTOTAL (FROM SHEET 3m)		49.1	233.8	2,138.6
SUBTOTAL (FROM SHEET 3m)		0.0	300.8	4,100.9
TOTAL		49.1	735.2	10,492.8

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CIVIL ENGINEERING
Blake S. Roussel 5/14/09

Stanley Consultants, Inc.

DOTD

MIRABEAU AVENUE

PAVEMENT REPAIR SUMMARY TABLE

DESIGNED / CHECKED	BSR / JRS	PARISH	ORLEANS
DETAILED / CHECKED	BSR / JRS	FEDERAL PROJECT	ER-ERP1(050)
DATE	MAY 2009	STATE PROJECT	704-36-0034

SHEET NUMBER 3n

MIRABEAU AVENUE CURB REPAIRS

STATION	RT/LT OF ℄	DRILLED AND DOWELED BARRIER CURB (LNFT)	DOWELED BARRIER CURB (LNFT)	DRILLED AND DOWELED MOUNTABLE CURB (LNFT)	DOWELED MOUNTABLE CURB (LNFT)
9+72	RT				25
9+93	LT	17			
10+20	RT	60			
10+26	RT				61
10+91	LT	30			
11+02	RT		21		
12+36	RT			83	
12+68	LT	20			
13+20	RT	20			
14+04	RT		20		
14+44	LT		60		
14+60	RT		50		
15+08	RT	27			
17+47	LT	40			
17+71	RT	40			
18+36	RT		66		
18+51	LT		90		
19+11	LT	20			
19+86	RT		40		
20+44	RT			40	
23+02	LT			76	
24+79	LT	40			
25+26	LT		20		
26+85	RT	30			
27+26	LT	50			
28+18	LT	42			
28+74	LT	20			
29+05	RT	20			
29+40	RT	50			
29+83	LT		132		
30+06	RT		89		
SUBTOTAL		526	610	199	87

NOTE: THE STATIONS SHOWN ARE ANTICIPATED BASED
UPON RECONNAISSANCE AND SITE SURVEY.
THE PROJECT ENGINEER SHALL VERIFY ACTUAL
LOCATIONS AND DIMENSIONS.

MIRABEAU AVENUE CURB REPAIRS

STATION	RT/LT OF ℄	DRILLED AND DOWELED BARRIER CURB (LNFT)	DOWELED BARRIER CURB (LNFT)	DRILLED AND DOWELED MOUNTABLE CURB (LNFT)	DOWELED MOUNTABLE CURB (LNFT)
30+59	LT		20		
30+68	RT		20		
31+25	RT	20			
32+12	RT		20		
32+27	LT		20		
34+19	LT	30			
36+40	RT			75	
36+57	RT	7			
38+05	RT	24			
38+16	LT			25	
38+03	RT		4		
40+11	LT		5		
40+56	RT				14
41+47	RT	4			
41+85	LT	160			
42+99	RT	6			
43+50	RT			35	
44+94	LT	10			
48+73	LT	20			
49+07	RT	21			
49+52	LT			38	
51+97	LT	69			
52+54	LT	172			
64+76	RT	6			
65+51	LT			23	
66+49	RT	7			
TOTAL		1091	699	395	101

STATE OF LOUISIANA
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5/14/09

Stanley Consultants, Inc.

DOTD TRANSPORTATION AND DEVELOPMENT

MIRABEAU AVENUE

CURB REPAIR SUMMARY TABLE

STATE OF LOUISIANA

NO.	DATE	REVISION DESCRIPTION	BY

DESIGNED / CHECKED	BSR / JRS	PARISH	ORLEANS
DETAILED / CHECKED	BSR / JRS	FEDERAL PROJECT	ER-ERP1(050)
DATE / SHEET	MAY 2009 / 16 OF 43	STATE PROJECT	704-36-0034

SHEET NUMBER 30

FINAL PLANS

FILMORE AVENUE (EASTBOUND) PAVING QUANTITIES

STATION	STATION	DESCRIPTION	EXCEPTION (FEET)	LENGTH (FEET)	AVG. WIDTH (FEET)	502-01-00100 SUPERPAVE ASPHALTIC CONCRETE (2" AVG.)		502-01-00200 SUPERPAVE AC DRIVES, TURNOUTS & MISC (2" AVG.)		509-01-00100 COLD PLANING ASPHALTIC PAVEMENT (2" AVG. DEPTH)
						SQ YD	TONS	SQ YD	TONS	SQ YD
100+78.92	133+79.71	ST. BERNARD - CHARLOTTE		3300.79	33.00	12,102.90	1,331.3			12,103
133+79.71	138+52.00	CHARLOTTE - BEGIN BRIDGE		472.29	23.25	1,220.08	134.2			1,220
138+52.00	140+82.00	BEGIN BRIDGE APPROACH - END BRIDE APPROACH	230.00							
140+82.00	145+79.87	END BRIDGE APPROACH - WICKFIELD		497.87	23.25	1,286.18	141.5			1,286
145+79.87	162+52.66	WICKFIELD - PASTEUR		1672.79	33.00	6,133.56	674.7			6,134
104+38	104+68	CROSSOVER		VARIES	34.00			133.72	14.7	134
109+06	109+51	CROSSOVER		VARIES	34.00			184.79	20.3	185
117+92	118+22	CROSSOVER		VARIES	34.00			130.08	14.3	130
123+84	124+19	CROSSOVER		VARIES	34.00			146.54	16.1	147
124+63	124+97	CROSSOVER		VARIES	34.00			143.38	15.8	143
127+64	127+94	CROSSOVER		VARIES	34.00			128.33	14.1	128
130+84	130+95	CROSSOVER		VARIES	34.00			128.33	14.1	128
133+84	133+95	CROSSOVER		VARIES	VARIES			128.33	14.1	128
144+83	144+94	CROSSOVER		VARIES	VARIES			136.11	15.2	136
145+84	145+95	CROSSOVER		VARIES	VARIES			130.22	14.3	130
149+84	149+95	CROSSOVER		VARIES	34.00			131.17	14.4	131
151+85	151+95	CROSSOVER		VARIES	34.00			138.56	15.2	139
154+69	155+00	CROSSOVER		VARIES	34.00			296.58	32.6	297
155+30	155+60	CROSSOVER		VARIES	34.00			296.58	32.6	297
158+62	158+85	CROSSOVER		VARIES	34.00			98.33	10.8	98
159+20	159+43	CROSSOVER		VARIES	34.00			96.74	10.6	97
162+13	162+36	CROSSOVER		VARIES	34.00			98.33	10.8	98
162+70	162+93	CROSSOVER		VARIES	34.00			96.74	10.6	97
109+00	109+61	TURNOUT - CARTIER		61.00	VARIES			44.18	4.9	44
117+83	118+33	TURNOUT - PERLITA		50.00	VARIES			31.16	3.4	31
123+77	124+28	TURNOUT - PARIS		51.00	VARIES			36.74	4.0	37
124+52	125+03	TURNOUT - PARIS		51.00	VARIES			38.32	4.2	38
127+50	128+05	TURNOUT - CHAMBERLAIN		55.00	VARIES			34.40	3.8	34
130+54	131+08	TURNOUT - CHATHAM		54.00	VARIES			43.44	4.8	43
133+50	134+04	TURNOUT - CHARLOTTE		54.00	VARIES			33.04	3.6	33
145+50	146+07	TURNOUT - WICKFIELD		57.00	VARIES			30.18	3.3	30
148+54	149+09	TURNOUT - WILDAIR		55.00	VARIES			42.72	4.7	43
151+48	152+05	TURNOUT - WILTON		57.00	VARIES			37.77	4.2	38
154+57	155+09	TURNOUT - ST. ANTHONY		52.00	VARIES			52.29	5.8	52
155+19	155+70	TURNOUT - ST. ANTHONY		51.00	VARIES			54.30	6.0	54
158+54	158+94	TURNOUT - CAMERON		40.00	VARIES			24.76	2.7	25
159+12	159+52	TURNOUT - CAMERON		40.00	VARIES			24.89	2.7	25
162+01	162+44	TURNOUT - TOURO		43.00	VARIES			27.41	3.0	27
162+62	163+06	TURNOUT - TOURO		44.00	VARIES			25.61	2.8	26
EASTBOUND TOTALS							2,281.7		354.5	23,068

I-56

STATE OF LOUISIANA
Blake S. Roussel
REG. No. 33279
REGISTERED
PROFESSIONAL ENGINEER
Blake S. Roussel
1/28/09
ENGINEER

Stanley Consultants, Inc.

DOTD TRANSPORTATION AND DEVELOPMENT

FILMORE AVENUE

PAVING QUANTITY SUMMARY TABLE

STATE OF LOUISIANA DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT

NO.	DATE	REVISION DESCRIPTION

DESIGNED	BSR	PARISH	ORLEANS
CHECKED	JRS		
DETAILED	BSR	FEDERAL PROJECT	ER-ERP1(051)
CHECKED	JRS		
DATE	JAN 2009	STATE PROJECT	704-36-0035

SHEET NUMBER 3p

FILMORE AVENUE (WESTBOUND) PAVING QUANTITIES

STATION	STATION	DESCRIPTION	EXCEPTION	LENGTH (FEET)	AVG. WIDTH (FEET)	502-01-00100 SUPERPAVE ASPHALTIC CONCRETE (2" AVG.)		502-01-00200 SUPERPAVE AC DRIVES, TURNOUTS & MISC (2" AVG.)		509-01-00100 COLD PLANING ASPHALTIC PAVEMENT (2" AVG. DEPTH)
						SQ YD	TONS	SQ YD	TONS	SQ YD
100+78.92	133+79.71	ST. BERNARD - CHARLOTTE		3300.79	33.00	12,102.90	1,331.3			
133+79.71	138+52.00	CHARLOTTE - BEGIN BRIDGE		472.29	23.25	1,220.08	134.2			12,103
138+52.00	140+82.00	BEGIN BRIDGE APPROACH - END BRIDE APPROACH	230.00							1,220
140+82.00	145+79.87	END BRIDGE APPROACH - WICKFIELD		497.87	23.25	1,286.16	141.5			
145+79.87	162+52.66	WICKFIELD - PASTEUR		1672.79	33.00	6,133.56	674.7			1,286
162+52.66	169+49.82	PASTEUR - ELYSIAN FIELDS		697.16	33.00	2,556.25	281.2			6,134
165+62	165+85	CROSSOVER		VARIES	34.00					2,556
166+20	166+43	CROSSOVER		VARIES	34.00			98.33	10.8	98
109+00	109+61	TURNOUT - CARTIER		61.00	VARIES			96.74	10.6	97
117+83	118+33	TURNOUT - PERLITA		50.00	VARIES			44.18	4.9	44
123+77	124+28	TURNOUT - PARIS		51.00	VARIES			31.16	3.4	31
124+52	125+03	TURNOUT - PARIS		51.00	VARIES			33.27	3.7	33
127+50	128+05	TURNOUT - CHAMBERLAIN		55.00	VARIES			33.27	3.7	33
130+54	131+08	TURNOUT - CHATHAM		54.00	VARIES			34.40	3.8	34
133+50	134+04	TURNOUT - CHARLOTTE		54.00	VARIES			31.27	3.4	31
144+54	145+04	TURNOUT - WICKFIELD		50.00	VARIES			38.70	4.3	39
147+04	147+57	TURNOUT - WINGATE		53.00	VARIES			28.02	3.1	28
149+51	150+04	TURNOUT - WILDAIR		53.00	VARIES			30.34	3.3	30
152+04	152+58	TURNOUT - WILTON		54.00	VARIES			28.89	3.2	29
154+57	155+09	TURNOUT - ST. ANTHONY		52.00	VARIES			29.03	3.2	29
155+19	155+70	TURNOUT - ST. ANTHONY		51.00	VARIES			38.24	4.2	38
158+54	158+94	TURNOUT - CAMERON		40.00	VARIES			35.48	3.9	35
159+12	159+52	TURNOUT - CAMERON		40.00	VARIES			26.52	2.9	27
162+01	162+44	TURNOUT - PASTEUR		43.00	VARIES			25.47	2.8	25
162+62	163+06	TURNOUT - PASTEUR		44.00	VARIES			26.10	2.9	26
165+51	165+94	TURNOUT - VERMILLION		43.00	VARIES			27.11	3.0	27
166+10	166+54	TURNOUT - VERMILLION		44.00	VARIES			25.30	2.8	25
WESTBOUND TOTALS								24.84	2.7	25
EASTBOUND TOTALS (FROM SHEET 3p)							2,562.9		86.6	24,083
ADDITIONAL 40% ESTIMATED FOR LEVELING							2,281.7		354.5	23,968
ROADWAY TOTALS							1,937.8		176.4	
							6782.4		617.5	48,051

STATE OF LOUISIANA
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CIVIL ENGINEER
1/28/09

Stanley Constultants, Inc.

DOTD

FILMORE AVENUE

PAVING QUANTITY SUMMARY TABLE

NO.	DATE		

DESIGNED	BSR	PARISH	ORLEANS
CHECKED	JRS		
DETAILED	BSR	FEDERAL PROJECT	ER-ERP1(051)
CHECKED	JRS		
DATE	JAN 2009	STATE	704-76-0035

SHEET NUMBER 3p

FINAL PLANS

FILMORE AVENUE ADA RAMPS				
STATION	SIDE OF ℄	OFFSET (FEET)	TYPE A	TYPE B
109+00	LT	17		1
109+01	RT	16		1
109+04	LT	53	1	
109+05	RT	53	1	
109+53	LT	53	1	
109+53	RT	53	1	
109+57	RT	16		1
109+57	LT	17		1
117+85	RT	50		1
117+85	LT	17		1
117+85	RT	17		1
117+91	LT	54	1	
117+94	RT	59		1
118+25	LT	53	1	
118+30	LT	17		1
118+31	RT	16		1
118+25	RT	54	1	
123+76	LT	18		1
123+76	RT	18		1
123+82	LT	53	1	
123+83	RT	54	1	
124+20	LT	56		1
124+20	RT	57		1
124+52	LT	56		1
124+52	RT	57		1
124+97	RT	55	1	
124+98	LT	54	1	
125+01	LT	16		1
125+01	RT	17		1
127+57	RT	17		1
127+57	LT	18		1
127+62	LT	52	1	
127+64	RT	54	1	
127+97	RT	54	1	
127+98	LT	53	1	
128+02	LT	17		1
SUBTOTAL			15	21

FILMORE AVENUE ADA RAMPS				
STATION	SIDE OF ℄	OFFSET (FEET)	TYPE A	TYPE B
128+02	RT	17		1
130+56	LT	17		1
130+56	RT	18		1
130+62	LT	52	1	
130+97	LT	54	1	
131+02	LT	17		1
131+02	RT	17		1
133+57	LT	17		1
133+57	RT	18		1
133+63	LT	53	1	
133+63	RT	54	1	
133+96	LT	54	1	
133+96	RT	53	1	
134+03	LT	17		1
134+03	RT	18		1
144+56	LT	16		1
144+57	RT	19		1
144+65	LT	55		1
144+92	LT	55		1
145+02	RT	16		1
145+03	LT	16		1
145+66	RT	56	1	
145+97	RT	54	1	
147+16	LT	55		1
147+46	LT	56		1
148+63	RT	55	1	
148+98	RT	56	1	
149+66	LT	55		1
149+93	LT	54		1
151+63	RT	57	1	
151+96	RT	55	1	
152+03	RT	19		1
152+03	LT	16		1
152+06	LT	49		1
152+16	LT	55		1
152+43	LT	54		1
SUBTOTAL			12	24

FILMORE AVENUE ADA RAMPS				
STATION	SIDE OF ℄	OFFSET (FEET)	TYPE A	TYPE B
154+57	LT	16		1
154+57	RT	20		1
154+68	RT	56	1	
154+69	LT	55	1	
154+96	RT	57		1
154+96	LT	59		1
155+34	LT	59		1
155+34	RT	57		1
155+59	LT	58		1
155+61	RT	55	1	
155+73	RT	19		1
155+73	LT	17		1
155+73	LT	49		1
158+51	RT	52		1
158+51	LT	16		1
158+53	RT	52		1
158+59	LT	52	1	
158+63	RT	59		1
158+66	LT	56		1
158+86	RT	57		1
159+17	LT	56		1
159+19	RT	57		1
159+44	RT	55	1	
159+45	LT	51	1	
159+54	RT	19		1
159+54	LT	16		1
161+99	RT	20		1
161+99	LT	16		1
162+10	RT	55	1	
162+10	LT	55	1	
162+35	RT	56		1
162+35	LT	56		1
162+69	RT	56		1
162+70	LT	57		1
162+97	RT	54	1	
162+97	LT	50	1	
SUBTOTAL			10	26

FILMORE AVENUE ADA RAMPS				
STATION	SIDE OF ℄	OFFSET (FEET)	TYPE A	TYPE B
163+04	RT	19		1
163+04	LT	15		1
165+52	RT	19		1
162+62	LT	15		1
165+61	RT	55	1	
165+61	LT	53	1	
165+65	RT	60		1
165+65	LT	56		1
166+20	RT	60		1
166+20	LT	56		1
166+44	LT	53	1	
166+45	RT	55	1	
166+53	RT	19		1
166+53	LT	15		1
TOTAL			41	81

STATE OF LOUISIANA
Blake S. Roussel
REG. No. 33279
REGISTERED
PROFESSIONAL ENGINEER
CIVIL 1/28/09 ENGINEERING

Stanley Consultants, Inc.

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FILMORE AVENUE

ADA RAMP SUMMARY TABLE

NO.	DATE	REVISION DESCRIPTION	BY

DESIGNED / CHECKED	BSR / JRS	PARISH	ORLEANS
DETAILED / CHECKED	BSR / JRS	FEDERAL PROJECT	ER-ERP1(051)
DATE / SHEET	JAN 2009 / 19 OF 43	STATE PROJECT	704-36-0035

SHEET NUMBER 37

NOTES:

1. DRAIN MANHOLES, SANITARY SEWER MANHOLES, AND CATCH BASINS ARE TO BE REPAIRED IN ACCORDANCE WITH NEW ORLEANS S&WB/DPW STANDARDS AND SPECIFICATIONS (LATEST EDITION).

2. ALL UTILITY REPAIR LOCATIONS AND DIMENSIONS ARE APPROXIMATE AND SUBJECT TO CHANGE BY THE PROJECT ENGINEER.

3. ALL MANHOLE STRUCTURES ARE STORM DRAINS UNLESS OTHERWISE NOTED IN THE UTILITY SUMMARY QUANTITY TABLES.

4. CONTRACTOR TO VERIFY LOCATIONS OF REPAIRS WITH PRE-CONSTRUCTION CCTV.

5. CONTRACTOR SHALL REINSTATE ALL LATERALS.

STATE OF LOUISIANA
Blake S. Roussel
REG. No. 33279
REGISTERED
PROFESSIONAL ENGINEER
CIVIL ENGINEERING
Blake S. Roussel 5/14/09

FILMORE AVENUE CATCH BASIN REPAIRS					
STRUCTURE #	CB ADJUST.	CB FRAME & COVER	STATION	OFFSET	DESCRIPTION
396-490-0266	1	1	103+89	-51	RFC1
396-490-0271	1		106+89	50	ADJ1
396-490-0309	1		130+20	51	ADJ1
396-490-0358	1	1	119+37	-50	RFC1
396-490-0436	1	1	123+47	-50	RFC1
396-490-0473	1	1	114+73	-51	RFC1 - INSTALL FULL-DEPTH CEMENTITIOUS LINER
396-490-0476	1	1	121+02	51	RFC1
396-490-0309A		1	131+34	51	COV
399-490-0192		1	135+05	-50	COV - INSTALL FULL-DEPTH CEMENTITIOUS LINER
399-490-0232	1	1	148+27	51	RFC1 - INSTALL FULL-DEPTH CEMENTITIOUS LINER
399-490-0368		1	136+03	51	COV
399-490-0369		1	132+86	51	COV
399-490-0380	1	1	151+26	51	RFC1 - INSTALL FULL-DEPTH CEMENTITIOUS LINER
390-490-0390	1		156+02	-49	ADJ1
402-490-0531	1		161+67	-48	ADJ1 - INSTALL FULL-DEPTH CEMENTITIOUS LINER
402-490-0536	1		168+06	52	ADJ1 - INSTALL FULL-DEPTH CEMENTITIOUS LINER
TOTAL	12	11			
ADJ1 - ADJUST CATCH BASIN FRAME AND COVER UP TO 8-INCHES VERTICALLY					
COV - REPLACE CATCH BASIN COVER					
RFC1 - REPLACE CATCH BASIN FRAME AND COVER AND ADJUST UP TO 8 INCHES VERTICALLY					

Stanley Consultants, Inc.

FILMORE AVENUE

UTILITY REPAIR SUMMARY TABLE

NO.	DATE	REVISION DESCRIPTION	BY

DESIGNED / CHECKED	BSR / JRS	PARISH	ORLEANS
DETAILED / CHECKED	BSR / JRS	FEDERAL PROJECT	ER-ERP1(051)
DATE / SHEET	MAY 2009 / 20 OF 43	STATE PROJECT	704-36-0035

SHEET NUMBER 3s

NOTES:

1. DRAIN MANHOLES, SANITARY SEWER MANHOLES, AND CATCH BASINS ARE TO BE REPAIRED IN ACCORDANCE WITH NEW ORLEANS S&WB/DPW STANDARDS AND SPECIFICATIONS (LATEST EDITION).

2. ALL UTILITY REPAIR LOCATIONS AND DIMENSIONS ARE APPROXIMATE AND SUBJECT TO CHANGE BY THE PROJECT ENGINEER.

3. ALL MANHOLE STRUCTURES ARE STORM DRAINS UNLESS OTHERWISE NOTED IN THE UTILITY SUMMARY QUANTITY TABLES.

4. CONTRACTOR TO VERIFY LOCATIONS OF REPAIRS WITH PRE-CONSTRUCTION CCTV.

5. CONTRACTOR SHALL REINSTATE ALL LATERALS.

FILMORE AVENUE DRAIN MANHOLE REPAIRS

STRUCTURE #	MH ADJUST.	SANITARY SEWER MH FRAME & COVER	MH FRAME & COVER	STATION	OFFSET	DESCRIPTION
396-490-0077	1			109+46	-48	ADJ1 - INSTALL FULL-DEPTH CEMENTITIOUS LINER
396-490-0079	1			112+22	-47	ADJ1 - INSTALL FULL-DEPTH CEMENTITIOUS LINER
396-490-0127	1			109+52	47	ADJ1
396-490-0128	1			112+25	47	ADJ1
396-490-0129	1			115+06	47	ADJ1
396-490-0130	1			117+93	47	ADJ1
396-490-0131	1			118+22	47	ADJ1
396-490-0146	1			121+19	-47	ADJ1 - INSTALL FULL-DEPTH CEMENTITIOUS LINER
396-490-0168	1		1	124+91	-46	RFC1
396-490-0201	1			121+20	47	ADJ1
399-490-0003	1			155+54	-38	ADJ1 - INSTALL FULL-DEPTH CEMENTITIOUS LINER
399-490-0126	1			151+71	-45	ADJ1
402-490-0126	1		1	162+42	46	RFC1 - INSTALL FULL-DEPTH CEMENTITIOUS LINER
243-001#	1	1		118+07	35	RFC1
244-032#	1	1		105+75	-36	RFC1
245-018#	1	1		120+71	-35	RFC1
334-061#	1			159+01	50	ADJ1
TOTAL	17	3	2			

ADJ1 - ADJUST MANHOLE FRAME AND COVER UP TO 8-INCHES VERTICALLY

RFC1 - REPLACE MANHOLE FRAME AND COVER AND ADJUST UP TO 8 INCHES VERTICALLY

# INDICATES SEWER MANHOLE

*FILMORE AVENUE STORM DRAIN REPAIRS

UPSTREAM MANHOLE	DOWNSTREAM MANHOLE	REPAIR DESCRIPTION	ASSET SIZE (INCH)	BEGIN STATION / OFFSET	END STATION / OFFSET	LENGTH (FT)
393-490-0063	396-490-0185	REPAIR RCP	18	101+47 / +49	101+59 / +49	12.00
393-490-0063	396-490-0185	REPAIR RCP	18	102+07 / +49	102+19 / +49	12.00
393-490-0063	396-490-0185	REPAIR RCP	18	102+69 / +49	102+81 / +49	12.00
393-490-0063	396-490-0185	FULL CEMENTITIOUS LINING RCP	18	100+66 / +49	104+12 / +49	356.00
396-490-0185	396-490-0186	FULL CEMENTITIOUS LINING RCP	21	104+13 /+-49	106+53 / +49	240.00
396-490-0185	396-490-0186	REPAIR RCP	21	105+32 / +49	105+44 / +49	12.00
396-490-0185	396-490-0186	SERVICE REPAIR 1	21	105+87 / +50	105+87 / +50	16.00
396-490-0183	396-490-0184	REPLACE RCP	21	104+15 / -49	106+60 / -49	245.00
396-490-0186	396-490-0187	REPAIR RCP	21	108+75 / +50	109+05 / +50	30.00
396-490-0077	396-490-0079	REPAIR RCP	24	109+73 / -49	109+92 / -49	19.00
396-490-0077	396-490-0079	FULL CEMENTITIOUS LINING RCP	24	109+47 / -49	112+20 / -49	273.00
396-490-0128	396-490-0129	FULL CEMENTITIOUS LINING RCP	24	112+25 / +49	113+37 / +49	112.00
396-490-0128	396-490-0129	SERVICE REPAIR 1	24	113+06 / +50	113+06 / +50	16.00
399-490-0065	399-490-0064	REPAIR RCP	21	131+14 / +49	130+90 / +49	24.00

* NON-ER PARTICIPATING ITEMS

STATE OF LOUISIANA
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CIVIL ENGINEERING
5/14/09

Stanley Consultants, Inc.

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FILMORE AVENUE

UTILITY REPAIR SUMMARY TABLE

NO	DATE	

DESIGNED / CHECKED	BSR / JRS	PARISH	ORLEANS
DETAILED / CHECKED	BSR / JRS	FEDERAL PROJECT	ER-ERP1(051)
DATE	MAY 2009	STATE	704-36-0035

SHEET NUMBER 31

FILMORE AVENUE PAVEMENT REPAIR QUANTITIES

STATION	RT/LT OF ℄	510-01-00200 PAVEMENT PATCHING (12" MINIMUM THICKNESS) (SQ YD)	CONC. PVMT. REPAIR (18.0 SQ YD AND UNDER) (SQ YD)	CONC. PVMT. REPAIR (18.1 - 48.0 SQ YD) (SQ YD)	CONC. PVMT. REPAIR (48.1 SQ YD AND OVER) (SQ YD)
102+23	RT	51.3			
102+49	RT	122.2			
103+67	LT	36.7			
103+86	RT	226.7			
104+28	LT	80			
104+73	LT	24.4			
104+78	LT	36.7			
106+38	RT	48.9			
107+02	RT	213.3			
108+62	RT	44.4			
109+60	LT	222.2			
111+62	LT	544.4			
122+67	LT	62.2			
125+44	RT	177.8			
128+31	LT	11.1			
128+65	LT	66.7			
130+40	RT	100			
131+50	LT	266.7			
132+16	LT	111.1			
134+33	LT	136			
145+77	LT			26.7	
145+86	LT				95.6
146+07	RT			21.3	
146+65	LT		6.7		
147+15	LT				164.4
147+37	LT			21.3	
147+76	RT			21.3	
148+04	RT				57.8
148+55	LT				93.3
148+70	RT		4		
149+23	LT				71.1
SUBTOTAL		2582.8	10.7	90.6	482.2

NOTE: THE AREAS AND STATIONS SHOWN ARE ANTICIPATED BASED UPON RECONNAISSANCE AND SITE SURVEY. AFTER COLD PLANING OPERATIONS ARE COMPLETE, PROJECT ENGINEER SHALL VERIFY ACTUAL LOCATIONS AND DIMENSIONS.

FILMORE AVENUE PAVEMENT REPAIR QUANTITIES

STATION	RT/LT OF ℄	510-01-00200 PAVEMENT PATCHING (12" MINIMUM THICKNESS) (SQ YD)	CONC. PVMT. REPAIR (18.0 SQ YD AND UNDER) (SQ YD)	CONC. PVMT. REPAIR (18.1 - 48.0 SQ YD) (SQ YD)	CONC. PVMT. REPAIR (48.1 SQ YD AND OVER) (SQ YD)
149+70	RT			33.3	
150+25	LT				97.8
150+42	LT			21.3	
150+55	RT		6.7		
150+88	LT			21.3	
151+35	LT			21.3	
151+59	LT				117.8
151+84	RT				120
152+16	RT			21.3	
155+48	LT				97.8
155+81	LT			21.3	
157+06	RT			28	
158+07	LT			31.1	
158+95	RT			21.3	
159+62	RT			42.2	
159+64	LT			21.3	
160+32	LT			38.9	
160+56	RT			42.7	
160+66	LT			26.7	
162+52	RT				81.8
164+45	LT				204.4
166+39	RT			21.3	
166+59	LT			21.3	
167+55	LT				66.7
167+69	RT			21.3	
168+85	LT				213.3
168+91	RT				213.3
TOTAL		2582.8	17.4	544.5	1695.1

STATE OF LOUISIANA
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Blake S. Roussel 5/14/09

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DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT — DOTD

FILMORE AVENUE

PAVEMENT REPAIR SUMMARY TABLE

STATE OF LOUISIANA

NO.	DATE	REVISION DESCRIPTION

DESIGNED / CHECKED	BSR / JRS	PARISH	ORLEANS
DETAILED / CHECKED	BSR / JRS	FEDERAL PROJECT	ER-ERP1(051)
DATE	MAY 2009	STATE PROJECT	704-36-0035

SHEET NUMBER 31

FILMORE AVENUE CURB REPAIRS

STATION	RT/LT OF ℄	DRILLED AND DOWELED BARRIER CURB (LNFT)	DOWELED BARRIED CURB (LNFT)	DRILLED AND DOWELED MOUNTABLE CURB (LNFT)	DOWELED MOUNTBALE CURB (LNFT)	RECONSTRUCT BARRIER CURB AND GUTTER (LNFT)	RECONSTRUCT MOUNTABLE CURB AND GUTTER (LNFT)
106+46	RT					49	
107+01	LT						48
107+07	RT					49	
108+60	LT						71
111+43	LT						60
112+81	RT					30	
113+23	LT					15	
114+11	LT					45	
114+71	RT					30	
116+65	RT						45
121+34	RT						35
122+37	LT					70	
122+84	RT					60	
123+54	LT					20	
126+04	RT					87	
126+31	LT					60	
131+79	RT						56
135+41	LT					10	
138+26	RT					25	
144+02	RT					25	
144+10	LT					48	
150+83	LT		4				
151+38	LT		8				
158+09	LT		28				
159+83	LT				6		
160+69	LT		12				
162+95	RT	10					
164+45	LT		92				
166+58	LT		4				
167+62	LT			29			
168+64	LT		5				
169+27	LT		5				
TOTAL		10	156	29	6	623	317

NOTE: THE STATIONS SHOWN ARE ANTICIPATED BASED UPON RECONNAISSANCE AND SITE SURVEY. THE PROJECT ENGINEER SHALL VERIFY ACTUAL LOCATIONS AND DIMENSIONS.

STATE OF LOUISIANA
Blake S. Roussel
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5/14/09

Stanley Consultants, Inc.

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FILMORE AVENUE

CURB REPAIR SUMMARY TABLE

NO.	DATE	REVISION DESCRIPTION	BY

DESIGNED / CHECKED	BSR / JRS	PARISH	ORLEANS
DETAILED / CHECKED	BSR / JRS	FEDERAL PROJECT	ER-ERP1(051)
DATE / SHEET	MAY 2009 / 23 OF 43	STATE PROJECT	704-36-0035

SHEET NUMBER 3v

FINAL PLANS

ST. BERNARD AVENUE (SOUTHBOUND) PAVING QUANTITIES

STATION	STATION	DESCRIPTION	EXCEPTION (FEET)	LENGTH (FEET)	AVG. WIDTH (FEET)	502-01-00100 SUPERPAVE ASPHALTIC CONCRETE (2" AVG.)		502-01-00200 SUPERPAVE AC DRIVES, TURNOUTS & MISC (2" AVG.)		509-01-00100 COLD PLANING ASPHALTIC PAVEMENT (2" AVG. DEPTH)
						SQ YD	TONS	SQ YD	TONS	SQ YD
136+34.12	165+51.60	FILMORE - OWENS		2917.68	32.00	10,373.97	1,141.1			10,374
165+51.60	176+56.40	OWENS - PARK ISLAND		1004.80	32.00	3,571.91	392.9			3,572
176+56.40	180+62.08	PARK ISLAND - HARRISON		505.68	32.00	1,797.97	197.8			1,798
180+62.08	183+53.10	HARRISON - SENATE		291.02	30.00	970.07	106.7			970
183+53.10	195+53.84	SENATE - MILTON		1200.74	28.00	3,735.64	410.9			3,730
195+53.84	199+34.32	MILTON - ST. DENIS		380.48	30.00	1,268.27	139.5			1,268
199+34.32	203+70.64	ST. DENIS - SERE		436.32	32.00	1,551.36	170.6			1,551
203+70.64	204+92.96	SERE - I-610		122.32	32.00	434.92	47.8			435
136+43	136+82	CROSSOVER		VARIES	19.00			95.33	10.5	95
137+14	137+52	CROSSOVER		VARIES	19.00			95.33	10.5	95
140+22	140+52	CROSSOVER		VARIES	19.00			76.54	8.4	77
143+13	143+43	CROSSOVER		VARIES	19.00			76.54	8.4	77
145+21	145+52	CROSSOVER		VARIES	19.00			76.54	8.4	77
149+17	149+47	CROSSOVER		VARIES	19.00			76.54	8.4	77
152+20	152+53	CROSSOVER		VARIES	19.00			76.54	8.4	77
152+97	153+30	CROSSOVER		VARIES	19.00			76.54	8.4	77
156+94	157+24	CROSSOVER		VARIES	19.00			76.54	8.4	77
162+15	162+44	CROSSOVER		VARIES	19.00			76.54	8.4	77
162+84	162+94	CROSSOVER		VARIES	19.00			76.54	8.4	77
165+37	165+67	CROSSOVER		VARIES	VARIES			76.54	8.4	77
173+81	173+93	CROSSOVER		VARIES	VARIES			166.32	18.3	166
175+40	175+73	CROSSOVER		VARIES	VARIES			168.57	18.5	169
179+19	179+52	CROSSOVER		VARIES	43.00			168.57	18.5	169
179+84	180+09	CROSSOVER		VARIES	43.00			222.06	24.4	222
180+48	180+77	CROSSOVER		VARIES	VARIES			141.04	15.5	141
183+38	183+68	CROSSOVER		VARIES	VARIES			76.54	8.4	77
187+39	187+69	CROSSOVER		VARIES	24.50			76.54	8.4	77
191+38	191+68	CROSSOVER		VARIES	24.50			76.54	8.4	77
191+79	192+08	CROSSOVER		VARIES	24.50			76.54	8.4	77
195+39	195+69	CROSSOVER		VARIES	VARIES			76.54	8.4	77
198+97	199+29	CROSSOVER		VARIES	VARIES			73.19	8.1	73
199+40	199+70	CROSSOVER		VARIES	18.00			73.19	8.1	73
203+31	204+27	CROSSOVER		VARIES	VARIES			138.84	15.1	137
136+56	137+05	TURNOUT - FILMORE		VARIES	VARIES			58.49	6.4	58
137+26	137+71	TURNOUT - FILMORE		VARIES	VARIES			58.37	6.4	58
152+13	152+63	TURNOUT - MIRABEAU		VARIES	VARIES			52.08	5.7	52
152+90	153+35	TURNOUT - MIRABEAU		VARIES	VARIES			52.08	5.7	52
156+90	157+37	TURNOUT - OWENS		VARIES	VARIES			52.08	5.7	52
162+09	162+54	TURNOUT - CROFTWAY		VARIES	VARIES			49.02	5.4	49
162+54	163+04	TURNOUT - CROFTWAY		VARIES	VARIES			49.59	5.5	50
165+28	165+70	TURNOUT - OWENS		VARIES	VARIES			52.34	5.8	52
SOUTHBOUND SUBTOTALS							2,607.3		320.1	28,622

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STATE OF LOUISIANA
Blake S. Roussel
REG. No. 33279
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CIVIL 1/28/09 ENGINEERING

Stanley Consultants, Inc.

DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT DOTD

ST. BERNARD AVENUE

PAVING QUANTITY SUMMARY TABLE

STATE OF LOUISIANA

NO.	DATE	REVISION DESCRIPTION	BY

DESIGNED / CHECKED	BSR / JRS	PARISH	ORLEANS
DETAILED / CHECKED	BSR / JRS	FEDERAL PROJECT	ER-ERP1(052)
DATE / SHEET	JAN 2009 / 24 OF 43	STATE PROJECT	704-36-0036

SHEET NUMBER 3W

FINAL PLANS

ST. BERNARD AVENUE (SOUTHBOUND & NORTHBOUND) PAVING QUANTITIES

STATION	STATION	DESCRIPTION	EXCEPTION (FEET)	LENGTH (FEET)	AVG. WIDTH (FEET)	502-01-00100 SUPERPAVE ASPHALTIC CONCRETE (2" AVG.)		502-01-00200 SUPERPAVE AC DRIVES, TURNOUTS & MISC (2" AVG.)		509-01-00100 COLD PLANING ASPHALTIC PAVEMENT (2" AVG. DEPTH)
						SQ YD	TONS	SQ YD	TONS	SQ YD
175+00	175+54	TURNOUT - PARK ISLAND		VARIES	VARIES			67.87	7.5	68
178+83	179+35	TURNOUT - HARRISON		VARIES	VARIES			60.74	6.7	61
179+37	179+89	TURNOUT - HARRISON		VARIES	VARIES			59.20	6.5	59
181+85	182+85	TURNOUT - SENATE		VARIES	VARIES			215.94	23.8	216
182+94	183+56	TURNOUT - BUCHANAN		VARIES	VARIES			317.46	34.9	317
187+20	187+57	TURNOUT - CATON		VARIES	VARIES			58.43	6.4	58
191+08	191+54	TURNOUT - FOY		VARIES	VARIES			56.60	6.2	57
191+57	192+63	TURNOUT - ALFRED		VARIES	VARIES			259.64	28.6	260
195+07	195+58	TURNOUT - MILTON		VARIES	VARIES			76.96	8.5	77
199+07	199+63	TURNOUT - ST. DENIS		VARIES	VARIES			114.39	12.6	114
201+02	201+73	TURNOUT - JUMONVILLE		VARIES	VARIES			102.33	11.3	102
SOUTHBOUND TOTALS							2,607.3		473.1	28,011
NORTHBOUND										
136+34.12	165+51.80	FILMORE - OWENS		2917.68	32.00	10,373.97	1,141.1			10,374
165+51.80	175+56.40	OWENS - PARK ISLAND		1004.60	32.00	3,571.91	392.9			3,572
175+56.40	180+62.08	PARK ISLAND - HARRISON		505.68	32.00	1,797.97	197.8			1,798
180+62.08	183+53.10	HARRISON - SENATE		291.02	30.00	970.07	106.7			970
183+53.10	195+53.84	SENATE - MILTON		1200.74	28.00	3,735.64	410.9			3,736
195+53.84	199+34.32	MILTON - ST. DENIS		380.48	30.00	1,268.27	139.5			1,268
199+34.32	203+70.64	ST. DENIS - SERE		436.32	32.00	1,551.36	170.6			1,551
203+70.64	205+37.96	SERE - I-610		167.32	44.00	818.01	90.0			818
135+00	136+66	TURNOUT - FILMORE		VARIES	VARIES			172.24	18.9	172
135+93	137+46	TURNOUT - FILMORE		VARIES	VARIES			61.79	6.8	62
140+13	140+57	TURNOUT - GARDENA		VARIES	VARIES			37.59	4.1	38
142+96	143+37	TURNOUT - SEVILLE		VARIES	VARIES			56.41	6.2	56
145+16	145+58	TURNOUT - RIVIERA		VARIES	VARIES			62.20	6.7	52
149+04	149+57	TURNOUT - GRANADA		VARIES	VARIES			42.06	4.6	42
152+13	152+61	TURNOUT - MIRABEAU		VARIES	VARIES			55.92	6.2	56
152+90	153+38	TURNOUT - MIRABEAU		VARIES	VARIES			31.97	3.5	32
165+39	165+73	TURNOUT - OWENS		VARIES	VARIES			41.66	4.6	42
173+89	174+46	TURNOUT - MANDOLIN		VARIES	VARIES			75.72	8.3	76
179+33	180+15	TURNOUT - HARRISON		VARIES	VARIES			206.13	22.7	206
183+52	183+98	TURNOUT - SENATE		VARIES	VARIES			67.20	7.4	67
195+50	196+07	TURNOUT - MILTON		VARIES	VARIES			87.19	9.6	87
198+52	199+91	TURNOUT - ST. DENIS		VARIES	VARIES			279.00	30.7	279
203+44	204+05	TURNOUT - SERE		VARIES	VARIES			101.92	11.2	102
NORTHBOUND TOTALS							2,649.5		150.5	25,468
SOUTHBOUND TOTALS							2,607.3		473.1	28,011
ADDITIONAL 40% ESTIMATED FOR LEVELING							2,102.7		249.4	
ROADWAY TOTALS							7,359.5		873.0	53,467

I-64

STATE OF LOUISIANA
Blake S. Roussel
REG. No. 33279
REGISTERED
PROFESSIONAL ENGINEER
CIVIL 1/29/09 ENGINEERING

Stanley Consultants, Inc.

DOTD

ST. BERNARD AVENUE

PAVING QUANTITY SUMMARY TABLE

NO.	DATE	REVISION DESCRIPTION

DESIGNED / CHECKED	BSR / JRS	PARISH	ORLEANS
DETAILED / CHECKED	BSR / JRS	FEDERAL PROJECT	ER--ERP1(052)
DATE	JAN 2009	STATE PROJECT	704--36--0036

SHEET NUMBER 35

FINAL PLANS

ST. BERNARD AVENUE ADA RAMPS				
STATION	SIDE OF ℄	OFFSET (FEET)	TYPE	
			A	B
136+00	LT	57	1	
136+32	LT	4		1
136+41	RT	6		1
136+56	LT	53		1
136+65	RT	52	1	
136+96	LT	54		1
137+00	RT	52		1
137+33	RT	33		1
137+39	LT	48	1	
137+56	LT	11		1
137+61	RT	7		1
137+68	RT	43	1	
140+18	LT	43	1	
140+53	LT	44	1	
143+02	LT	46	1	
143+36	LT	44	1	
145+21	LT	43	1	
145+57	LT	42	1	
149+16	LT	46	1	
149+50	LT	44	1	
152+14	LT	9		1
152+14	RT	10		1
152+17	RT	46	1	
152+18	LT	47	1	
152+56	RT	47		1
152+56	LT	48		1
152+94	RT	47		1
152+95	LT	48		1
153+33	RT	44	1	
153+33	LT	46	1	
153+37	LT	10		1
153+38	RT	9		1
156+93	RT	44	1	
157+28	RT	45	1	
162+12	RT	46	1	
162+46	RT	47		1
SUBTOTAL			19	17

ST. BERNARD AVENUE ADA RAMPS				
STATION	SIDE OF ℄	OFFSET (FEET)	TYPE	
			A	B
162+63	RT	48		1
162+96	RT	47	1	
165+26	LT	10		1
165+26	RT	10		1
165+31	RT	45	1	
165+35	LT	45	1	
165+66	RT	44	1	
165+71	LT	44	1	
165+78	LT	10		1
165+78	RT	10		1
175+06	RT	59	1	
175+46	RT	57	1	
178+86	RT	59	1	
179+05	RT	22		1
179+21	LT	21		1
179+29	RT	62		1
179+43	RT	65		1
179+65	LT	81	1	
179+89	RT	55	1	
180+02	LT	68	1	
180+14	RT	20		1
180+29	LT	20		1
182+90	RT	45		1
183+27	RT	13		1
183+34	LT	8		1
183+55	LT	44	1	
183+54	RT	42	1	
183+92	LT	50	1	
187+51	RT	45	1	
191+13	RT	46	1	
191+48	RT	51		1
192+59	RT	52	1	
195+14	RT	46	1	
195+25	RT	13		1
195+34	LT	10		1
195+52	RT	44	1	
SUBTOTAL			19	17

ST. BERNARD AVENUE ADA RAMPS				
STATION	SIDE OF ℄	OFFSET (FEET)	TYPE	
			A	B
195+55	LT	43	1	
195+93	LT	48	1	
198+62	LT	49	1	
199+11	RT	43		1
199+18	RT	57		1
199+53	RT	46	1	
199+62	LT	60	1	
199+75	RT	8		1
199+77	LT	9		1
201+48	RT	60		1
202+22	RT	63		1
203+59	LT	59		1
203+97	LT	55		1
TOTAL			43	42

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STATE OF LOUISIANA
Blake S. Roussel
REG. No. 33279
REGISTERED
PROFESSIONAL ENGINEER
CIVIL
1/28/09

Stanley Consultants, Inc.

DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT DOTD

ST. BERNARD AVENUE

ADA RAMP SUMMARY TABLE

NO.	DATE	REVISION DESCRIPTION	BY

DESIGNED / CHECKED	BSR / JRS	PARISH	ORLEANS
DETAILED / CHECKED	BSR / JRS	FEDERAL PROJECT	ER-ERP1(052)
DATE / SHEET	JAN 2009 / 05 OF 43	STATE PROJECT	704-36-0036

SHEET NUMBER 3y

NOTES:

1. DRAIN MANHOLES, SANITARY SEWER MANHOLES, AND CATCH BASINS ARE TO BE REPAIRED IN ACCORDANCE WITH NEW ORLEANS S&WB/DPW STANDARDS AND SPECIFICATIONS (LATEST EDITION).

2. ALL UTILITY REPAIR LOCATIONS AND DIMENSIONS ARE APPROXIMATE AND SUBJECT TO CHANGE BY THE PROJECT ENGINEER.

3. ALL MANHOLE STRUCTURES ARE STORM DRAINS UNLESS OTHERWISE NOTED IN THE UTILITY SUMMARY QUANTITY TABLES.

4. CONTRACTOR TO VERIFY LOCATIONS OF REPAIRS WITH PRE-CONSTRUCTION CCTV.

5. CONTRACTOR SHALL REINSTATE ALL LATERALS.

ST. BERNARD AVENUE CATCH BASIN REPAIRS

STRUCTURE #	CB ADJUST.	REPLACE CB FRAME & COVER	STATION	OFFSET	DESCRIPTION
393-488-0073	1		149+86.14	-41.5	ADJ1
393-490-0098	1		136+13.67	40.4	ADJ1
396-484-0380	1	1	190+12.91	-41.7	RFC1
396-484-0429		1	203+13.84	-42.4	COV
396-486-0319	1	1	184+45.92	-41.9	RFC1 & INSTALL FULL-DEPTH CEMENTITIOUS LINER
396-486-0323	1	1	181+11.66	-50.2	RFC1
396-486-0354	1	1	176+56.2	-54.1	RFC1 & INSTALL FULL-DEPTH CEMENTITIOUS LINER
396-486-0388	1	1	171+94.29	44.4	RFC1 & INSTALL FULL-DEPTH CEMENTITIOUS LINER
396-486-0392	1	1	167+39.26	-42.2	RFC1
TOTAL	8	7			
ADJ1 - ADJUST CATCH BASIN FRAME AND COVER UP TO 8 INCHES VERTICALLY					
COV - REPLACE CATCH BASIN COVER					
RFC1 - REPLACE CATCH BASIN FRAME AND COVER AND ADJUST UP TO 8 INCHES VERTICALLY					

ST. BERNARD AVENUE DRAIN MANHOLE REPAIRS

STRUCTURE #	MH ADJUST.	REPLACE MH FRAME & COVER	STATION	OFFSET	DESCRIPTION
393-486-0050	1	1	170+44.95	37.3	RFC1
393-490-0001	1		136+65.38	41.4	ADJ1
393-490-0004	1		137+86.08	-41.7	ADJ1 & INSTALL FULL-DEPTH CEMENTITIOUS LINER
393-490-0007	1		140+45.75	-38.9	ADJ1
393-490-0016	1		143+31.01	-36.9	ADJ1
396-486-0196	1	1	183+22.63	48.4	RFC1
396-486-0197	1	1	183+43.88	48.1	RFC1
396-486-0210	1		187+44.01	47.6	ADJ1
396-486-0218	1	1	173+79.96	46.8	RFC1
242-003#	1		138+39.76	30.1	ADJ1
296-002#		1	179+29.15	57.9	COV
299-005#	1		165+51.19	45.1	ADJ1 & INSTALL FULL-DEPTH CEMENTITIOUS LINER
TOTAL	11	5			
ADJ1 - ADJUST MANHOLE FRAME AND COVER UP TO 8 INCHES VERTICALLY					
COV - REPLACE MANHOLE COVER					
RFC1 - REPLACE MANHOLE FRAME AND COVER AND ADJUST UP TO 8 INCHES VERTICALLY					
# INDICATES SEWER MANHOLE					

STATE OF LOUISIANA
Blake S. Roussel
REG. No. 33279
REGISTERED
PROFESSIONAL ENGINEER
CIVIL ENGINEERING
3/14/09

Stanley Consultants, Inc.

DOTD

ST. BERNARD AVENUE

UTILITY REPAIR SUMMARY TABLE

NO.	DATE	REVISION DESCRIPTION	BY

DESIGNED / CHECKED	BSR / JRS	PARISH	ORLEANS
DETAILED / CHECKED	BSR / JRS	FEDERAL PROJECT	ER-ERP1(052)
DATE / SHEET	MAY 2009 / 27 OF 43	STATE PROJECT	704-36-0036

SHEET NUMBER 32

ST. BERNARD PAVEMENT REPAIRS

STATION	RT/LT OF ℄	CONC. PVMT. REPAIR (18.0 SQ YD AND UNDER) (SQ YD)	CONC. PVMT. REPAIR (18.1 - 48.0 SQ YD) (SQ YD)	CONC. PVMT. REPAIR (48.1 SQ YD AND OVER) (SQ YD)
138+02	RT			58.9
138+28	LT		22.2	
138+56	LT		40.0	
138+99	LT		41.1	
139+13	RT			133.3
139+83	LT			155.6
140+15	RT		33.3	
140+93	LT		42.7	
141+27	RT		27.8	
141+36	RT			52.2
141+55	LT			71.1
141+76	RT			87.8
141+84	LT		33.3	
142+86	LT			87.8
143+87	RT			126.7
144+89	LT			120.0
144+81	LT		40.0	
145+02	LT		40.0	
145+40	LT			63.3
146+81	LT			61.1
147+07	LT		33.3	
147+74	LT			61.1
148+09	RT			141.1
148+62	LT			53.3
149+35	LT			61.1
149+91	LT			122.2
150+33	RT			141.1
150+40	RT		20.0	
150+42	LT			70.0
150+58	RT		21.3	
151+06	LT			51.1
151+24	LT			88.9
SUBTOTAL		0.0	395.0	1,807.7

NOTE: THE AREAS AND STATIONS SHOWN ARE ANTICIPATED BASED UPON RECONNAISSANCE AND SITE SURVEY. AFTER COLD PLANING OPERATIONS ARE COMPLETE, PROJECT ENGINEER SHALL VERIFY ACTUAL LOCATIONS AND DIMENSIONS.

ST. BERNARD PAVEMENT REPAIRS

STATION	RT/LT OF ℄	CONC. PVMT. REPAIR (18.0 SQ YD AND UNDER) (SQ YD)	CONC. PVMT. REPAIR (18.1 - 48.0 SQ YD) (SQ YD)	CONC. PVMT. REPAIR (48.1 SQ YD AND OVER) (SQ YD)
151+25	RT			61.1
153+40	LT		28.9	
153+66	RT			67.8
153+78	LT			173.3
154+08	LT			96.7
154+30	RT			80.0
154+58	LT			50.0
154+65	RT			431.1
155+37	LT			63.3
155+81	LT			62.2
156+58	RT	11.1		
156+63	LT			68.9
157+07	LT			66.7
157+10	RT		44.4	
157+45	RT			111.1
157+53	RT		42.2	
157+80	LT			284.4
158+48	LT			166.7
158+55	RT		42.2	
159+12	RT			177.8
159+49	RT		22.2	
159+51	LT		22.2	
159+64	LT			66.7
159+92	LT		28.9	
160+15	RT			55.6
160+55	LT			151.1
160+69	RT	11.1		
161+27	LT			75.6
161+69	LT		21.3	
161+92	RT		38.9	
163+77	RT			103.3
163+87	RT		25.6	
164+06	LT			50.0
164+53	RT			95.6
164+65	LT			58.9
165+15	RT	6.7		
SUBTOTAL		28.9	316.8	2,617.9

STATE OF LOUISIANA
Blake S. Roussel
REG. No. 33279
REGISTERED
PROFESSIONAL ENGINEER
Blake S. Roussel
5/14/09
ENGINEERING

Stanley Consultants

DOTD DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT

ST. BERNARD AVENUE

PAVEMENT REPAIR SUMMARY TABLE

STATE OF LOUISIANA DEPARTMENT OF CULTURE, RECREATION & TOURISM

NO.	DATE	REVISION DESCRIPTION	BY

DESIGNED / CHECKED	BSR / JRS	PARISH	ORLEANS
DETAILED / CHECKED	BSR / JRS	FEDERAL PROJECT	ER-ERP1(052)
DATE / SHEET	MAY 2009 / 28 OF 43	STATE PROJECT	704-36-0036

SHEET NUMBER 30

ST. BERNARD PAVEMENT REPAIRS

STATION	RT/LT OF ℄	CONC. PVMT. REPAIR (18.0 SQ YD AND UNDER) (SQ YD)	CONC. PVMT. REPAIR (18.1 - 48.0 SQ YD) (SQ YD)	CONC. PVMT. REPAIR (48.1 SQ YD AND OVER) (SQ YD)
165+45	LT		30.0	
165+59	RT			71.1
165+90	LT		38.9	
166+39	LT			88.9
167+02	RT			163.3
167+10	LT			235.6
167+22	RT		44.4	
167+57	RT		33.3	
168+15	RT			60.0
168+28	LT		33.3	
168+85	RT		20.0	
169+40	RT	6.7		
169+33	LT		21.3	
169+61	RT		36.7	
170+72	RT			120.0
171+26	RT			75.6
171+40	RT			44.4
171+76	LT			44.4
175+23	LT		33.3	
178+72	LT		18.7	
181+42	LT		22.2	
181+84	LT		30.0	
182+28	RT			53.3
182+95	RT	13.3		
184+45	LT		22.0	
184+68	RT		32.2	
185+24	RT			94.4
185+40	RT			106.7
186+17	RT		40.0	
186+19	RT		31.3	
186+25	RT		40.0	
186+51	RT			66.7
186+38	RT			241.1
186+89	RT			128.9
188+52	LT	6.7		
188+70	LT			51.1
SUBTOTAL		26.7	527.6	1,645.5

ST. BERNARD PAVEMENT REPAIRS

STATION	RT/LT OF ℄	CONC. PVMT. REPAIR (18.0 SQ YD AND UNDER) (SQ YD)	CONC. PVMT. REPAIR (18.1 - 48.0 SQ YD) (SQ YD)	CONC. PVMT. REPAIR (48.1 SQ YD AND OVER) (SQ YD)
188+95	RT			85.6
189+11	RT	13.3		
189+23	LT		40.0	
189+75	RT			227.6
190+05	LT	11.6		
190+44	RT		21.3	
192+19	RT	10.0		
192+67	RT	13.3		
193+38	RT	8.9		
193+54	RT		24.9	
193+97	RT		40.0	
194+12	RT		26.4	
194+47	RT		26.4	
194+71	LT		40.0	
194+75	LT		38.9	
194+92	LT			401.1
195+00	RT			93.3
196+41	RT		22.2	
197+55	RT			50.0
197+56	RT			242.2
197+61	RT	13.3		
197+80	RT			272.2
200+05	LT		42.2	
200+56	LT			137.8
200+88	RT			127.8
200+93	LT			138.9
201+58	RT		21.3	
201+67	LT		34.4	
202+94	RT		21.3	
202+98	LT			213.3
204+08	LT	4.0		
204+28	RT		21.3	
SUBTOTAL (FROM SHEET 3aa)		0.0	395.0	1,807.7
SUBTOTAL (FROM SHEET 3aa)		26.9	316.8	2,617.9
SUBTOTAL		26.7	527.6	1,645.5
TOTAL		130.0	1,664.0	8,060.9

STATE OF LOUISIANA
Blake S. Roussel
REG. No. 33279
REGISTERED
PROFESSIONAL ENGINEER
CIVIL ENGINEERING
Blake S. Roussel
5/14/09

Stanley Consultants, Inc.

DOTD DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT

ST. BERNARD AVENUE

PAVEMENT REPAIR SUMMARY TABLE

STATE OF LOUISIANA

NO.	DATE	REVISION DESCRIPTION	BY

DESIGNED / CHECKED	BSR / JRS	PARISH	ORLEANS
DETAILED / CHECKED	BSR / JRS	FEDERAL PROJECT	ER--ERP1(052)
DATE / SHEET	MAY 2009 / 29 OF 43	STATE PROJECT	704-36-0036

SHEET NUMBER 39t

ST. BERNARD CURB REPAIRS

STATION	RT/LT OF ℄	DRILLED AND DOWELED BARRIER CURB (LNFT)	DOWELED BARRIER CURB (LNFT)	DRILLED AND DOWELED MOUNTABLE CURB (LNFT)	DOWELED MOUNTABLE CURB (LNFT)
138+39	RT	20			
138+57	LT				30
139+87	LT		35		
140+14	RT		30		
141+40	RT		47		
145+14	RT	8			
150+33	RT		127		
150+39	LT		83		
151+05	LT		46		
151+19	RT		55		
153+39	LT				20
154+30	RT		36		
154+11	LT		87		
155+83	LT		56		
157+48	RT		38		
159+09	RT		160		
159+95	LT		26		
161+60	LT	15			
163+61	RT		93		
164+07	LT		30		
167+03	LT		106		
167+04	RT		147		
168+20	RT		54		
168+27	LT		30		
169+32	LT			15	
169+41	RT	2			
174+50	LT	90			
174+78	RT			60	
175+35	RT	58			
177+66	LT	350			
177+68	RT	382			
SUBTOTAL		933	1,266	83	50

NOTE: THE STATIONS SHOWN ARE ANTICIPATED BASED
UPON RECONNAISSANCE AND SITE SURVEY.
THE PROJECT ENGINEER SHALL VERIFY ACTUAL
LOCATIONS AND DIMENSIONS.

ST. BERNARD CURB REPAIRS

STATION	RT/LT OF ℄	DRILLED AND DOWELED BARRIER CURB (LNFT)	DOWELED BARRIER CURB (LNFT)	DRILLED AND DOWELED MOUNTABLE CURB (LNFT)	DOWELED MOUNTABLE CURB (LNFT)
179+75	RT			28	
180+08	RT			55	
180+25	RT	45			
180+90	LT	252			
182+08	RT	145			
183+82	RT	368			
184+22	LT	369			
191+06	RT	388			
191+14	LT	398			
191+09	LT	15			
192+20	RT	15			
193+93	LT	350			
195+17	RT	346			
198+48	LT	343			
198+72	RT		345		
199+36	RT	48			
200+28	RT		300		
200+34	LT		305		
202+65	LT				70
203+07	LT			35	
TOTAL		3,995	2,216	201	120

STATE OF LOUISIANA
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Blake S. Roussel
5/14/09
CIVIL ENGINEERING

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Stanley Consultants, Inc.

DOTD

ST. BERNARD AVENUE

CURB REPAIR SUMMARY TABLE

NO.	DATE	REVISION DESCRIPTION	BY
			BSR
			BSR

DESIGNED / CHECKED	BSR / JRS	PARISH	ORLEANS
DETAILED / CHECKED	BSR / JRS	FEDERAL PROJECT	ER-ERP1(052)
DATE / SHEET	MAY 2009 / 30 OF 43	STATE PROJECT	704-36-0036

SHEET NUMBER 3cc

FINAL PLANS

PARIS AVENUE (NORTHBOUND) PAVING QUANTITIES

STATION	STATION	DESCRIPTION	EXCEPTION (FEET)	LENGTH (FEET)	AVG. WIDTH (FEET)	502-01-00100 SUPERPAVE ASPHALTIC CONCRETE (2" AVG.)		502-01-00200 SUPERPAVE AC DRIVES, TURNOUTS & MISC (2" AVG.)		509-01-00100 COLD PLANING ASPHALTIC PAVEMENT (2" AVG. DEPTH)*
						SQ YD	TONS	SQ YD	TONS	SQ YD
138+79.3	157+76.50	PRATT - MIRABEAU		1897.20	32.00	6,745.60	742.0			658
139+40.0	139+70.	CROSSOVER		VARIES	42.50			164.56	18.1	
140+39.	140+69.	CROSSOVER		VARIES	42.50			164.56	18.1	
143+40.	143+70.	CROSSOVER		VARIES	42.50			164.56	18.1	
145+39.	145+69.	CROSSOVER		VARIES	42.50			164.56	18.1	
150+37	150+67	CROSSOVER		VARIES	42.50			164.56	18.1	
152+95	153+25	CROSSOVER		VARIES	42.50			164.56	18.1	
154+56	154+85	CROSSOVER		VARIES	42.50			164.56	18.1	
155+05	155+35	CROSSOVER		VARIES	42.50			164.56	18.1	
156+29	156+72	CROSSOVER		VARIES	42.50			164.56	18.1	
139+33	139+78	TURNOUT - PRATT		VARIES	VARIES			233.56	25.7	
140+01	140+48	TURNOUT - PRATT		VARIES	VARIES			40.00	4.4	
142+04	142+82	TURNOUT - MILES		VARIES	VARIES			40.00	4.4	
143+32	143+80	TURNOUT - MILES		VARIES	VARIES			40.00	4.4	
143+94	144+36	TURNOUT - MILES		VARIES	VARIES			40.00	4.4	
154+28	155+13	TURNOUT - KING		VARIES	VARIES			40.00	4.4	
NORTHBOUND TOTALS							742.0		196.9	658

PARIS AVENUE (SOUTHBOUND) PAVING QUANTITIES

STATION	STATION	DESCRIPTION	EXCEPTION	LENGTH (FEET)	AVG. WIDTH (FEET)	502-01-00100 SUPERPAVE ASPHALTIC CONCRETE (2" AVG.)		502-01-00200 SUPERPAVE AC DRIVES, TURNOUTS & MISC (2" AVG.)		509-01-00100 COLD PLANING ASPHALTIC PAVEMENT (2" AVG. DEPTH)*
						SQ YD	TONS	SQ YD	TONS	SQ YD
139+70.00	157+76.50	PRATT - MIRABEAU		1806.50	32.00	6,423.11	706.5			658
140+28.00	140+80.00	TURNOUT - HARCOURT		VARIES	VARIES			41.67	4.6	
142+81.00	143+32.00	TURNOUT - VIRGINIA MARIE		VARIES	VARIES			41.67	4.6	
145+30.00	145+80.00	TURNOUT - OWENS		VARIES	VARIES			41.67	4.6	
147+81.00	148+31.00	TURNOUT - PAULA		VARIES	VARIES			41.67	4.6	
150+28.00	150+76.00	TURNOUT - WESTBROOK		VARIES	VARIES			41.67	4.6	
152+85.00	153+35.00	TURNOUT - WAKEFIELD		VARIES	VARIES			41.67	4.6	
SOUTHBOUND TOTALS							706.5		27.6	658
ADDITIONAL 40% ESTIMATED FOR LEVELING							579.4		89.8	
ROADWAY TOTALS							2,027.9		314.3	1316

* AN AMOUNT OF COLD PLANING [10% OF OVERLAY AREA (SQ YD)] HAS BEEN INCLUDED INTO THE PLANS FOR SPOT MILLING AT THE DIRECTION OF THE PROJECT ENGINEER

STATE OF LOUISIANA
Blake S. Roussel
REG. No. 33279
REGISTERED
PROFESSIONAL ENGINEER
CIVIL ENGINEER 1/29/09

Stanley Consultants, Inc.

PARIS AVENUE

PAVING QUANTITY SUMMARY TABLE

NO.	DATE	REVISION DESCRIPTION	BY

DESIGNED / CHECKED	BSR / JRS	PARISH	ORLEANS
DETAILED / CHECKED	BSR / JRS	FEDERAL PROJECT	ER-ERP1(053)
DATE	JAN 2009	STATE PROJECT	704-36-0037
SHEET	31 OF 43	SHEET NUMBER	3dc

PARIS AVENUE ADA RAMPS				
STATION	SIDE OF ℄	OFFSET (FEET)	TYPE A	TYPE B
102+10	LT	22		1
102+10	RT	22		1
102+18	LT	54		1
102+32	LT	55		1
102+60	LT	60	1	
102+68	LT	20		1
102+68	RT	19		1
102+82	RT	58	1	
105+94	LT	17		1
105+94	RT	16		1
105+99	RT	55	1	
105+99	LT	56	1	
106+32	RT	56	1	
106+28	LT	64		1
106+37	LT	16		1
106+37	RT	16		1
106+39	LT	53		1
109+61	RT	15		1
109+62	LT	14		1
109+63	LT	56	1	
109+64	RT	54	1	
109+99	RT	55	1	
110+06	LT	56	1	
110+09	RT	15		1
110+10	LT	17		1
113+33	RT	18		1
113+33	LT	19		1
113+37	LT	56	1	
113+37	RT	54	1	
113+68	RT	62		1
113+68	LT	61		1
113+75	RT	17		1
113+75	LT	18		1
113+78	RT	52		1
113+79	LT	52		1
117+02	RT	16		1
SUBTOTAL			11	25

PARIS AVENUE ADA RAMPS				
STATION	SIDE OF ℄	OFFSET (FEET)	TYPE A	TYPE B
117+02	LT	17		1
117+05	RT	55	1	
117+07	LT	56	1	
117+40	RT	56	1	
117+40	LT	56	1	
117+44	RT	16		1
117+44	LT	17		1
120+72	RT	18		1
120+72	LT	18		1
120+77	RT	56	1	
120+77	LT	57	1	
121+10	RT	55	1	
121+10	LT	56	1	
121+15	RT	18		1
121+15	LT	19		1
124+43	RT	18		1
124+43	LT	17		1
124+47	LT	57	1	
124+47	RT	57	1	
124+78	RT	56		1
124+79	LT	56	1	
128+16	LT	57	1	
128+49	LT	56	1	
128+87	RT	58		1
129+09	RT	59		1
129+34	RT	59		1
129+71	RT	59		1
131+84	LT	57	1	
132+21	LT	57	1	
133+74	RT	59		1
134+00	RT	60		1
134+27	RT	61		1
134+53	RT	60		1
135+57	LT	61		1
135+86	LT	59		1
139+45	RT	61		1
SUBTOTAL			15	21

PARIS AVENUE ADA RAMPS				
STATION	SIDE OF ℄	OFFSET (FEET)	TYPE A	TYPE B
139+72	RT	60		1
140+04	RT	61		1
140+31	RT	64	1	
140+29	RT	22		1
140+29	LT	21		1
140+37	LT	56	1	
140+69	LT	61		1
142+26	RT	59		1
142+79	RT	59		1
142+92	LT	64		1
143+19	LT	65		1
143+29	LT	21		1
143+30	RT	22		1
143+35	LT	54		1
143+39	RT	59	1	
143+70	RT	60		1
143+95	RT	60		1
144+20	RT	60	1	
145+39	LT	61		1
145+69	LT	60		1
147+91	LT	61		1
148+20	LT	60		1
150+38	LT	61		1
150+67	LT	60		1
152+97	LT	63		1
153+25	LT	61	1	
154+43	RT	61	1	
154+98	RT	60	1	
TOTAL			33	67

STATE OF LOUISIANA
Blake S. Roussel
REG. No. 33279
REGISTERED
PROFESSIONAL ENGINEER
CIVIL ENGINEER
1/28/09

Stanley Consultants, Inc.

PARIS AVENUE

ADA RAMP SUMMARY TABLE

NO.	DATE	REVISION DESCRIPTION

DESIGNED / CHECKED	BSR / JRS	PARISH	ORLEANS
DETAILED / CHECKED	BSR / JRS	FEDERAL PROJECT	ER-ERP1(053)
DATE	JAN 2009	STATE PROJECT	704-36-0037
SHEET	32 OF 47	SHEET NUMBER	32

NOTES:

1. DRAIN MANHOLES, SANITARY SEWER MANHOLES, AND CATCH BASINS ARE TO BE REPAIRED IN ACCORDANCE WITH NEW ORLEANS S&WB/DPW STANDARDS AND SPECIFICATIONS (LATEST EDITION).

2. ALL UTILITY REPAIR LOCATIONS AND DIMENSIONS ARE APPROXIMATE AND SUBJECT TO CHANGE BY THE PROJECT ENGINEER.

3. ALL MANHOLE STRUCTURES ARE STORM DRAINS UNLESS OTHERWISE NOTED IN THE UTILITY SUMMARY QUANTITY TABLES.

4. CONTRACTOR TO VERIFY LOCATIONS OF REPAIRS WITH PRE-CONSTRUCTION CCTV.

5. CONTRACTOR SHALL REINSTATE ALL LATERALS.

PARIS AVENUE CATCH BASIN REPAIRS

STRUCTURE #	CB ADJUST.	CB FRAME & COVER	STATION	OFFSET	DESCRIPTION
396-486-0537A	1	1	136+59	55	RFC1
396-486-0546	1		132+80	-53	ADJ1
396-486-0549	1		131+58	-53	ADJ1
396-486-0570	1	1	126+54	-53	RFC1 - INSTALL FULL-DEPTH CEMENTITIOUS LINER
396-488-0290B		1	143+23	-53	COV - INSTALL FULL-DEPTH CEMENTITIOUS LINER
396-488-0293	1	1	142+69	73	RFC1 - INSTALL FULL-DEPTH CEMENTITIOUS LINER
396-488-0317	1		154+16	55	ADJ1 - INSTALL FULL-DEPTH CEMENTITIOUS LINER
396-488-0339	1		148+02	55	ADJ1 - INSTALL FULL-DEPTH CEMENTITIOUS LINER
TOTAL	7	4			

ADJ1 - ADJUST CATCH BASIN FRAME AND COVER UP TO 8 INCHES VERTICALLY

COV - REPLACE CATCH BASIN COVER

RFC1 - REPLACE CATCH BASIN FRAME AND COVER AND ADJUST UP TO 8 INCHES VERTICALLY

PARIS AVENUE DRAIN MANHOLE REPAIRS

STRUCTURE #	MH ADJUST.	STATION	OFFSET	DESCRIPTION
396-484-0062	1	114+70	49	ADJ1
396-484-0078	1	117+31	-55	ADJ1 - INSTALL FULL DEPTH CEMENTITIOUS LINER
396-484-0079	1	117+12	-55	ADJ1 - INSTALL FULL DEPTH CEMENTITIOUS LINER
396-484-0123	1	114+83	-51	ADJ1
315-022#	1	129+57	41	ADJ1 - SEWER MANHOLE
TOTAL	5			

ADJ1 - ADJUST MANHOLE FRAME AND COVER UP TO 8 INCHES VERTICALLY

# INDICATES SEWER MANHOLE

* PARIS AVENUE STORM DRAIN REPLACEMENT

UPSTREAM MANHOLE	DOWNSTREAM MANHOLE	REPAIR DESCRIPTION	ASSET SIZE (INCH)	BEGIN STATION / OFFSET	END STATION / OFFSET	LENGTH (FT)
396-488-0062	396-488-0198	REPLACE RCP	21	150+41 / +6	150+42 / -39	45

* NON-ER PARTICIPATING ITEM

STATE OF LOUISIANA
Blake S. Roussel
REG. No. 33279
REGISTERED
PROFESSIONAL ENGINEER
CIVIL ENGINEERING
Blake S. Roussel 5/14/09

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Stanley Consultants, Inc.

PARIS AVENUE

UTILITY REPAIR SUMMARY TABLE

NO.	DATE	REVISION DESCRIPTION	BY

DESIGNED BSR
CHECKED JRS
DETAILED BSR
CHECKED JRS
DATE MAY 2009
SHEET 33 OF 43

PARISH ORLEANS
FEDERAL PROJECT ER-ERP1(053)
STATE PROJECT 704-36-0037

SHEET NUMBER 316

PARIS AVENUE PAVEMENT REPAIR QUANTITIES

STATION	RT/LT OF ℄	510-01-00200 PAVEMENT PATCHING (12" MINIMUM THICKNESS) (SQ YD)	CONC. PVMT. REPAIR (18.0 SQ YD AND UNDER) (SQ YD)	CONC. PVMT. REPAIR (18.1 - 48.0 SQ YD) (SQ YD)	CONC. PVMT. REPAIR (48.1 SQ YD AND OVER) (SQ YD)
102+14	RT			23.3	
102+36	RT				57.4
102+78	LT				70.0
103+20	RT			30.0	
103+44	LT				80.0
103+68	LT				53.3
105+89	RT			43.3	
106+20	LT			42.7	
106+41	RT			32.0	
106+47	RT			22.0	
106+75	LT			32.0	
108+29	LT				60.0
110+35	LT				264.4
110+37	RT		4.0		
114+07	RT		4.0		
114+60	RT		4.0		
116+69	LT				120.9
117+50	RT				133.3
117+59	LT				200.0
117+95	RT				86.7
118+61	RT				86.7
119+15	RT				86.7
119+29	RT			22.0	
119+58	RT			22.0	
119+93	LT			22.0	
120+26	LT			22.0	
121+20	RT			22.0	
121+55	RT			22.0	
121+61	LT				181.3
122+27	LT			22.0	
122+57	LT				74.7
SUBTOTAL		0.0	12.0	379.3	1,555.4

NOTE: THE AREAS AND STATIONS SHOWN ARE ANTICIPATED BASED UPON
RECONNAISSANCE AND SITE SURVEY. AFTER COLD PLANING OPERATIONS ARE COMPLETE,
PROJECT ENGINEER SHALL VERIFY ACTUAL LOCATIONS AND DIMENSIONS.

PARIS AVENUE PAVEMENT REPAIR QUANTITIES

STATION	RT/LT OF ℄	510-01-00200 PAVEMENT PATCHING (12" MINIMUM THICKNESS) (SQ YD)	CONC. PVMT. REPAIR (18.0 SQ YD AND UNDER) (SQ YD)	CONC. PVMT. REPAIR (18.1 - 48.0 SQ YD) (SQ YD)	CONC. PVMT. REPAIR (48.1 SQ YD AND OVER) (SQ YD)
124+52	RT				92.4
124+79	LT				80.0
124+98	RT			30.3	
125+47	LT			40.0	
127+75	LT				120.0
127+85	LT			40.0	
129+06	RT				73.3
129+29	LT				132.2
129+40	RT			43.3	
129+58	RT				77.0
130+03	RT				86.7
130+28	LT			33.0	
131+53	RT			44.8	
131+84	RT			22.0	
132+29	LT				88.0
132+30	RT				132.9
132+92	LT				80.0
133+26	RT			30.0	
133+46	RT				73.3
133+73	LT				140.0
134+22	RT				57.0
134+22	RT				75.0
134+64	LT				63.0
134+79	LT			26.7	
135+60	LT				80.0
135+87	LT				66.7
135+92	LT				66.7
136+46	RT				143.6
136+99	RT			30.0	
137+36	LT				70.0
137+61	LT				113.3
138+05	LT				226.7
138+51	LT				113.3
139+77	RT	22.7			
140+67	RT	344.7			
SUBTOTAL		367.4	0.0	340.1	2,251.1

STATE OF LOUISIANA
Blake S. Roussel
REG. No. 33279
REGISTERED
PROFESSIONAL ENGINEER
5/14/09

Stanley Consultants, Inc.

DOTD

PARIS AVENUE

PAVEMENT REPAIR SUMMARY TABLE

NO.	DATE	REVISION DESCRIPTION

DESIGNED / CHECKED	BSR / JRS	PARISH	ORLEANS
DETAILED / CHECKED	BSR / JRS	FEDERAL PROJECT	ER-ERP1(053)
DATE	MAY 2009	STATE PROJECT	704-36-0037

SHEET NUMBER 35

PARIS AVENUE PAVEMENT REPAIR QUANTITIES

STATION	RT/LT OF ℄	510-01-00200 PAVEMENT PATCHING (12" MINIMUM THICKNESS) (SQ YD)	CONC. PVMT. REPAIR (18.0 SQ YD AND UNDER) (SQ YD)	CONC. PVMT. REPAIR (18.1 - 48.0 SQ YD) (SQ YD)	CONC. PVMT. REPAIR (48.1 SQ YD AND OVER) (SQ YD)
140+80	RT	171.0			
141+76	LT	71.1			
141+82	RT	15.0			
142+25	LT	77.3			
142+69	RT	101.3			
143+32	RT	338.0			
144+66	RT	85.0			
145+78	RT	782.2			
148+32	LT	525.6			
148+40	RT	9.3			
149+21	RT	37.6			
149+81	RT	134.3			
150+90	LT	20.8			
151+07	RT	54.9			
151+20	LT	30.0			
151+94	RT	43.3			
152+29	LT	454.7			
153+39	RT	11.6			
155+49	LT	28.4			
157+30	RT	80.0			
157+44	LT	24.6			
157+54	LT	26.7			
SUBTOTAL (FROM SHEET 3gg)		0.0	12.0	379.3	1,555.4
SUBTOTAL (FROM SHEET 3gg)		367.4	0.0	340.1	2,251.1
TOTAL		3,490.1	12.0	719.4	3,806.5

STATE OF LOUISIANA
Blake S. Roussel
REG. No. 33279
REGISTERED
PROFESSIONAL ENGINEER
CIVIL ENGINEERING
Blake S. Roussel
5/14/09

Stanley Consultants, Inc.

DOTD

PARIS AVENUE

PAVEMENT REPAIR SUMMARY TABLE

NO.	DATE	REVISION DESCRIPTION	BY

DESIGNED / CHECKED	BSR / JRS	PARISH	ORLEANS
DETAILED / CHECKED	BSR / JRS	FEDERAL PROJECT	ER-ERP1(053)
DATE / SHEET	MAY 2009 / 35 OF 43	STATE PROJECT	704-36-0037

SHEET NUMBER 3hh

PARIS AVENUE CURB REPAIRS

STATION	RT/LT OF ℄	DRILLED AND DOWELED BARRIER CURB (LNFT)	DOWELED BARRIER CURB (LNFT)	DRILLED AND DOWELED MOUNTABLE CURB (LNFT)	DOWELED MOUNTABLE CURB (LNFT)	RECONSTRUCT BARRIER CURB AND GUTTER (LNFT)	RECONSTRUCT MOUNTABLE CURB AND GUTTER (LNFT)
102+77	RT	4					
108+51	RT	30					
124+33	RT	8					
127+27	LT	30					
132+31	LT	33					
135+40	RT			4			
138+03	LT	90		90			
138+82	LT		30				
140+01	LT						27
140+33	LT					15	
141+03	RT						186
145+10	LT					13	
148+32	LT					17	
149+18	RT					26	
151+06	RT					38	
157+54	LT					20	
TOTAL		195	30	94	0	129	213

NOTE: THE STATIONS SHOWN ARE ANTICIPATED BASED UPON RECONNAISSANCE AND SITE SURVEY. THE PROJECT ENGINEER SHALL VERIFY ACTUAL LOCATIONS AND DIMENSIONS.

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STATE OF LOUISIANA
Blake S. Roussel
REG. No. 33279
REGISTERED
PROFESSIONAL ENGINEER
Blake S Roussel
CIVIL 5/14/09
ENGINEERING

Stanley Consultants, Inc.

DOTD TRANSPORTATION AND DEVELOPMENT

PARIS AVENUE

CURB REPAIR SUMMARY TABLE

NO.	DATE	REVISION DESCRIPTION	BY

DESIGNED / CHECKED	BSR / JRS	PARISH	ORLEANS
DETAILED / CHECKED	BSR / JRS	FEDERAL PROJECT	ER-ERP1(053)
DATE / SHEET	MAY 2009 / 38 OF 43	STATE PROJECT	704-36-0037

SHEET NUMBER 311

\PROJECTS\08-4626 New Orleans Roads Grp 6\Drawings\Revised Final Plans 012709\Elysian Fields Ave\08-4626 Elysian Fields Quant Pavement Summary Table.dwg $TIME$

ELYSIAN FIELDS AVE. PAVING QUANTITES

STATION	STATION	DESCRIPTION	EXCEPTION (FEET)	LENGTH (FEET)	AVG. WIDTH (FEET)	502-01-00100 SUPERPAVE ASPHALTIC CONCRETE (2" AVG.)		502-01-00200 SUPERPAVE AC DRIVES, TURNOUTS & MISC. (2" AVG.)		509-01-00100 COLD PLANING ASPHALTIC CONCRETE (2" AVG. DEPTH)
						*SQ. YD.	*TONS	*SQ. YD.	*TONS	*SQ. YD.
102+75.86	107+07.18	GENTILLY BLVD - PELOPIDAS ST (SB)	-	431.3	VARIES	1900.3	209.0	356.1	39.2	2256.4
102+75.86	107+07.18	GENTILLY BLVD - PELOPIDAS ST (NB)	-	431.3	VARIES	1664.4	183.1	182.3	20.1	1846.7
107+07.18	110+77.10	PELOPIDAS ST - MANDOLIN AVE (SB)	-	369.9	VARIES	1163.1	127.9	163.8	18.0	1326.9
107+07.18	110+77.10	PELOPIDAS ST - MANDOLIN AVE (NB)	-	369.9	VARIES	1307.7	143.8	174.6	19.2	1482.3
110+77.10	133+33.72	MANDOLIN AVE - MIRABEAU AVE (SB)	-	2256.6	VARIES	7174.9	789.2	1236.3	136.0	8411.2
110+77.10	133+33.72	MANDOLIN AVE - MIRABEAU AVE (NB)	-	2256.6	VARIES	7039.7	774.4	1185.3	130.4	8225.0
133+33.72	148+89.01	MIRABEAU AVE - FILMORE AVE (SB)	-	1555.3	VARIES	4941.9	543.6	928.7	102.2	5870.6
133+33.72	148+89.01	MIRABEAU AVE - FILMORE AVE (NB)	-	1555.3	VARIES	4914.3	540.6	921.3	101.3	5835.6
148+89.01	164+49.57	FILMORE AVE - PRENTISS AVE (SB)	-	1560.6	VARIES	4925.3	541.8	1036.2	114.0	5961.5
148+89.01	164+49.57	FILMORE AVE - PRENTISS AVE (NB)	-	1560.6	VARIES	4920.0	541.2	1144.4	125.9	6064.4
164+49.57	183+75.09	PRENTISS AVE - ROBERT E. LEE BLVD (SB)	-	1925.5	VARIES	6056.3	666.2	1193.2	131.3	7249.5
164+49.57	183+75.09	PRENTISS AVE - ROBERT E. LEE BLVD (NB)	-	1925.5	VARIES	6122.8	673.5	1360.0	149.6	7482.8
183+75.09	195+10.18	ROBERT E. LEE BLVD - LEON C. SIMON DR. (SB)	-	1135.1	VARIES	3612.4	397.4	907.2	99.8	4519.6
183+75.09	195+10.18	ROBERT E. LEE BLVD - LEON C. SIMON DR. (NB)	-	1135.1	VARIES	3591.9	395.1	914.1	100.6	4506.0
195+10.18	213+00.46	LEON C. SIMON DR. - LAKESHORE DR. (SB)	-	1790.3	VARIES	5633.0	619.6	1041.4	114.6	6674.4
195+10.18	213+25.57	LEON C. SIMON DR. - LAKESHORE DR. (NB)	-	1815.4	VARIES	5997.4	659.7	1001.0	110.1	6998.4
SUBTOTAL							7806.1		1512.3	84711.3
ADDITIONAL 40% ESTIMATED FOR LEVELING							3122.4		604.9	
TOTAL							10928.5		2117.2	84711.3

* QUANTITIES BASED ON ACTUALS, WIDTH VARIES PER TYPICAL SECTIONS.

I-76

STATE OF LOUISIANA
NICHOLAS J. OLIVIER
License No. 33351
PROFESSIONAL ENGINEER
CIVIL ENGINEERING
1/28/09

CIVIL DESIGN & CONSTRUCTION

ELYSIAN FIELDS AVENUE

PAVING QUANTITY SUMMARY TABLE

NO.	DATE	REVISION DESCRIPTION	BY

DESIGNED	NJO	PARISH	ORLEANS
CHECKED	KEW		
DETAILED	NJO	FEDERAL PROJECT	ER-ERP1(054)
CHECKED	KEW		
DATE	JAN. 2009	STATE PROJECT	704-36-0038
SHEET	37 of 43	SHEET NUMBER	311

:\PROJECTS\08-4626 New Orleans Roads Grp 6\Drawings\Revised Final Plans 012709\Elysian Fields Ave\08-4626 Elysian Fields Replacement ADA Ramp Summary Table.dwg $TIME$

ELYSIAN FIELDS AVE. ADA RAMP				
STATION	SIDE OF ℄	OFFSET (FEET)	TYPE	
			A	B
102+16.14	LT	74.5		1
102+57.37	LT	34.5		1
103+06.15	RT	28.0		1
103+18.25	LT	75.0		1
103+47.30	RT	77.0		1
103+55.40	LT	76.5	1	
106+86.70	LT	36.5		1
106+89.19	RT	70.0	1	
106+90.34	LT	76.0	1	
107+23.56	RT	71.5		1
107+24.85	LT	75.5	1	
107+26.99	RT	26.5		1
107+27.00	LT	40.0		1
110+58.71	RT	69.5		1
110+94.30	RT	70.0	1	
114+25.74	LT	40.5		1
114+27.64	RT	33.5		1
114+29.71	LT	76.5	1	
114+61.43	LT	77.5	1	
114+66.84	RT	35.5		1
121+65.24	LT	39.0		1
121+65.58	RT	35.0		1
121+68.75	LT	75.0	1	
122+02.07	RT	71.5	1	
SUBTOTAL 1			9	15

ELYSIAN FIELDS AVE. ADA RAMP				
STATION	SIDE OF ℄	OFFSET (FEET)	TYPE	
			A	B
122+02.84	LT	74.5		1
122+04.76	LT	39.0		1
122+05.29	RT	35.5		1
125+38.49	LT	76.0	1	
125+72.73	LT	74.0	1	
126+70.30	RT	73.5	1	
127+04.45	RT	70.0	1	
129+06.95	LT	74.5	1	
129+41.51	LT	74.0	1	
132+73.59	RT	38.5		1
132+74.72	LT	41.0		1
132+84.88	LT	73.0		1
133+05.81	RT	74.0		1
133+23.82	LT	86.5		1
133+43.71	LT	87.0		1
133+52.76	RT	74.5	1	
133+81.00	LT	74.5	1	
133+82.87	RT	35.5		1
133+83.19	LT	38.5		1
137+27.74	LT	86.0	1	
137+58.12	LT	75.0	1	
139+56.87	RT	71.5	1	
139+91.66	RT	72.5	1	
140+90.52	LT	71.5	1	
SUBTOTAL 2			13	11

ELYSIAN FIELDS AVE. ADA RAMP				
STATION	SIDE OF ℄	OFFSET (FEET)	TYPE	
			A	B
141+30.94	LT	71.5		1
144+64.52	LT	73.0		1
144+97.74	LT	74.5	1	
146+03.49	RT	74.5		1
146+37.01	RT	72.5	1	
148+29.91	RT	39.5		1
148+30.93	LT	39.5		1
148+33.14	LT	72.0		1
148+41.67	RT	73.0	1	
148+71.70	LT	77.5		1
148+78.55	RT	83.0		1
149+01.35	RT	83.0		1
149+04.92	LT	79.0		1
149+38.36	RT	73.0		1
149+40.81	LT	73.0	1	
149+45.73	RT	38.5		1
149+46.30	LT	39.5		1
152+84.74	RT	77.0		1
153+15.46	RT	75.0	1	
156+48.62	LT	63.5		1
156+49.01	RT	37.5		1
156+51.02	RT	72.5	1	
SUBTOTAL 3			6	16
SHEET 1 TOTAL			28	42

STATE OF LOUISIANA
NICHOLAS J. OLIVIER
License No. 33351
PROFESSIONAL ENGINEER
CIVIL ENGINEERING
1/28/09

CIVIL DESIGN & CONSTRUCTION

DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT — DOTD

ELYSIAN FIELDS AVENUE

ADA RAMP SUMMARY TABLE

NO.	DATE	REVISION DESCRIPTION	BY

DESIGNED / CHECKED	NJO / KEW	PARISH	ORLEANS
DETAILED / CHECKED	NJO / KEW	FEDERAL PROJECT	ER-ERP1(054)
DATE / SHEET	JAN. 2009 / 38 of 43	STATE PROJECT	704-36-0038

SHEET NUMBER 3RK

ELYSIAN FIELDS AVE. ADA RAMP				
STATION	SIDE OF ℄	OFFSET (FEET)	TYPE	
			A	B
156+51.92	LT	99.0	1	
156+86.42	LT	99.0	1	
156+87.03	RT	73.0	1	
156+89.52	RT	37.5		1
156+89.79	LT	63.5		1
160+22.92	RT	74.0	1	
160+56.92	RT	74.0	1	
160+59.55	RT	37.5		1
160+60.06	LT	63.0		1
163+88.68	RT	40.5		1
163+89.44	LT	64.5		1
164+03.76	LT	96.5		1
164+04.70	RT	91.0	1	
164+33.22	RT	90.0		1
164+37.62	LT	104.5		1
164+61.82	RT	90.0		1
164+65.85	LT	104.5		1
164+91.89	LT	97.0	1	
164+92.21	RT	91.0	1	
165+08.88	LT	65.0		1
165+09.03	RT	40.5		1
168+42.24	RT	76.0	1	
168+74.46	RT	75.0	1	
172+09.75	RT	73.5	1	
SUBTOTAL 4			11	13

ELYSIAN FIELDS AVE. ADA RAMP				
STATION	SIDE OF ℄	OFFSET (FEET)	TYPE	
			A	B
172+44.60	RT	74.5	1	
172+48.80	LT	62.5		1
172+49.20	RT	38.0		1
173+87.44	LT	94.5	1	
174+33.30	LT	94.5		1
175+81.72	RT	74.0	1	
176+14.97	RT	75.0	1	
179+51.81	RT	75.5	1	
179+84.29	RT	75.5	1	
183+13.13	LT	64.0		1
183+19.91	LT	97.5	1	
183+21.41	RT	41.5		1
183+27.85	RT	73.5	1	
183+48.09	LT	103.0		1
183+67.06	RT	81.5		1
183+92.64	RT	81.0		1
183+92.86	LT	101.0		1
184+25.65	LT	97.0	1	
184+26.00	RT	76.0	1	
184+34.53	LT	63.5		1
184+34.90	RT	41.5		1
187+69.20	RT	75.0	1	
187+70.47	LT	97.5	1	
188+04.48	RT	74.5	1	
SUBTOTAL 5			13	11

ELYSIAN FIELDS AVE. ADA RAMP				
STATION	SIDE OF ℄	OFFSET (FEET)	TYPE	
			A	B
188+05.95	LT	95.5	1	
191+97.86	RT	77.0	1	
192+32.26	RT	75.0	1	
194+50.24	LT	44.5		1
194+50.48	RT	41.0		1
194+51.54	RT	76.5	1	
194+90.42	RT	81.0		1
195+31.55	RT	81.5		1
195+70.43	RT	80.5	1	
195+70.57	RT	40.0		1
195+71.02	LT	43.0		1
203+69.89	RT	80.0	1	
204+15.69	RT	80.0	1	
SUBTOTAL 6			7	6
SUBTOTAL 1			9	15
SUBTOTAL 2			13	11
SUBTOTAL 3			6	16
SUBTOTAL 4			11	13
SUBTOTAL 5			13	11
SUBTOTAL 6			7	6
TOTAL			59	72

STATE OF LOUISIANA
NICHOLAS J. OLIVIER
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IN
CIVIL ENGINEERING
2/18/09

CIVIL DESIGN & CONSTRUCTION

DOTD

ELYSIAN FIELDS AVENUE

ADA RAMP SUMMARY TABLE

NO.	DATE	REVISION DESCRIPTION	BY

DESIGNED / CHECKED	NJO / KEW	PARISH	ORLEANS
DETAILED / CHECKED	NJO / KEW	FEDERAL PROJECT	ER-ERP1(054)
DATE / SHEET	JAN. 2009 / 39 of 43	STATE PROJECT	704-36-0038

SHEET NUMBER 311

ELYSIAN FIELDS AVE. CATCH BASIN REPAIRS

STRUCTURE NUMBER	CB ADJUST	REHAB. EXIST. CATCH BASINS AND MANHOLES	CB FRAME & COVER	STATION	OFFSET (FT)	DESCRIPTION
402-486-0372	1			112+50	+67	ADJ-1
402-488-0277	1			127+24	-71	ADJ-1
402-488-0368		1	1	123+70	-72	COV & LIN
402-488-0429	1	1		131+26	+69	ADJ-1 (CLEAN INSIDE)
402-492-0342	1	1		121+31	-72	ADJ-1 & LIN
402-492-0535	1			169+15	-95	ADJ-1
402-492-0564	1			170+50	+72	ADJ-1
402-494-0272	1			174+20	+71	ADJ-1
402-494-0358	1			179+14	+72	ADJ-1
402-494-0362	1	1	1	179+19	-94	RFC-1 (CLEAN INSIDE)
402-494-0408			1	184+72	-94	COV
402-494-0501	1		1	188+41	+72	RFC-1
402-496-0219			1	198+46	-76	COV
402-496-0332	1			205+27	+75	ADJ-1
ADJ1-	ADJUST CATCH BASIN FRAME AND COVER UP TO 8 INCHES VERTICALLY					
COV-	REPLACE CATCH BASIN COVER					
LIN-	INSTALL FULL DEPTH CEMENTITIOUS LINER					
RFC1-	REPLACE CATCH BASIN FRAME AND COVER AND ADJUST UP TO 8 INCHES VERTICALLY					

I-79

NOTES:

1. *DRAIN MANHOLES, SANITARY SEWER MANHOLES, AND CATCH BASINS ARE TO BE REPAIRED IN ACCORDANCE WITH N.O. S&WB STANDARDS AND SPECIFICATIONS (LATEST EDITION).*
2. *ALL UTILITY REPAIR LOCATIONS AND DIMENSIONS ARE APPROXIMATE AND SUBJECT TO CHANGE BY THE PROJECT ENGINEER.*
3. *ALL MANHOLE STRUCTURES ARE STORM DRAINS UNLESS OTHERWISE NOTED IN THE UTILITY SUMMARY QUANTITY TABLES.*
4. *CONTRACTOR TO VERIFY LOCATIONS OF REPAIRS WITH PRE-CONSTRUCTION CCTV.*
5. *CONTRACTOR SHALL REINSTATE ALL LATERALS.*

STATE OF LOUISIANA
NICHOLAS J. OLIVIER
License No. 33351
PROFESSIONAL ENGINEER
CIVIL ENGINEERING
5/14/09

CIVIL DESIGN & CONSTRUCTION | DOTD | ELYSIAN FIELDS AVENUE | UTILITY REPAIR SUMMARY TABLE

NO.	DATE	REVISION DESCRIPTION

DESIGNED / CHECKED	NJO / KEW	PARISH	ORLEANS
DETAILED / CHECKED	CMR / NJO	FEDERAL PROJECT	ER-ERP1(054)
DATE / SHEET	DEC. 2008	STATE PROJECT	704-36-0038

SHEET NUMBER 3mm

\PROJECTS\08-4626 New Orleans Roads Grp 6\Drawings\Revised Final Plans 051409\Elysian Fields Ave\08-4626 Elysian Fields Pavement Repair Summary Table.dwg $TIME$

ELYSIAN FIELDS AVE. PAVEMENT REPAIR

STATION	SIDE OF ℄	CONCRETE PAVEMENT REPAIR (18.0 SQ. YD. AND UNDER)	CONCRETE PAVEMENT REPAIR (18.1 - 48.0 SQ. YD.)	CONCRETE PAVEMENT REPAIR (48.1 SQ. YD. AND OVER)
		SQ. YD.	SQ. YD.	SQ. YD.
108+31	RT	16.7		
108+52	LT	8.0		
109+27	RT	16.7		
109+68	LT		18.3	
112+17	RT		18.3	
112+47	RT	13.3		
115+45	LT		26.7	
115+98	LT		18.3	
120+02	RT	15.0		
125+12	RT	16.9		
128+40	RT		28.3	
133+99	RT		30.0	
134+37	RT			63.3
137+25	LT		46.7	
137+74	LT	17.8		
138+03	LT		26.7	
138+21	LT	12.0		
139+18	RT			106.7
139+20	LT	13.3		
139+91	LT		25.0	
140+74	LT			140.0
141+28	RT			186.7
141+32	RT			231.7
144+70	RT			308.3
150+15	LT		25.0	
151+36	RT			78.7
152+27	RT		20.2	
152+42	RT		26.7	
152+71	LT		36.7	
154+74	LT		25.0	
155+42	RT			50.0
155+78	RT			58.3
156+46	LT		36.7	
158+72	RT			58.3
157+45	LT			80.0
159+23	LT			83.3
160+49	RT		21.3	
SUBTOTAL 1		129.7	429.9	1445.3

NOTE: THE AREAS AND STATIONS SHOWN ARE ANTICIPATED BASED UPON RECONNAISSANCE AND SITE SURVEY. AFTER COLD PLANING OPERATIONS ARE COMPLETE, PROJECT ENGINEER SHALL VERIFY ACTUAL LOCATIONS AND DIMENSIONS.

ELYSIAN FIELDS AVE. PAVEMENT REPAIR

STATION	SIDE OF ℄	CONCRETE PAVEMENT REPAIR (18.0 SQ. YD. AND UNDER)	CONCRETE PAVEMENT REPAIR (18.1 - 48.0 SQ. YD.)	CONCRETE PAVEMENT REPAIR (48.1 SQ. YD. AND OVER)
		SQ. YD.	SQ. YD.	SQ. YD.
161+00	RT	10.0		
161+94	RT			70.7
162+35	RT	4.0		
162+78	RT			286.7
163+64	RT	15.0		
163+89	LT			140.0
164+26	LT			128.3
164+54	LT		21.7	
165+36	RT			63.3
166+05	RT			243.3
166+32	LT			90.0
166+81	RT		46.7	
167+22	RT		26.7	
167+70	RT			286.7
168+28	RT			91.7
169+05	RT			116.7
169+89	RT			50.0
170+12	LT			100.0
170+35	RT		38.3	
170+73	RT			83.3
170+94	RT		43.3	
171+17	RT		28.3	
171+90	RT			58.3
171+96	RT			136.3
172+43	LT		26.7	
172+74	RT			93.3
172+78	LT			60.0
173+50	RT			100.0
173+91	LT			93.3
173+92	RT	16.7		
174+30	RT		38.3	
174+68	RT			106.7
175+31	RT			146.7
175+72	RT		20.0	
175+99	RT	9.3		
176+45	RT			83.3
176+71	RT			53.3
SUBTOTAL 2		55.0	290.0	2683.9

NOTE: THE AREAS AND STATIONS SHOWN ARE ANTICIPATED BASED UPON RECONNAISSANCE AND SITE SURVEY. AFTER COLD PLANING OPERATIONS ARE COMPLETE, PROJECT ENGINEER SHALL VERIFY ACTUAL LOCATIONS AND DIMENSIONS.

STATE OF LOUISIANA
NICHOLAS J. OLIVIER
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IN
CIVIL
5/11/09

CIVIL DESIGN & CONSTRUCTION

DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT — DOTD

ELYSIAN FIELDS AVENUE

PAVEMENT REPAIR SUMMARY TABLE

NO.	DATE	REVISION DESCRIPTION	BY

DESIGNED / CHECKED	NJO / KEW	PARISH	ORLEANS
DETAILED / CHECKED	CMR / NJO	FEDERAL PROJECT	ER-ERP1(048)
DATE / SHEET	JAN. 2009 / 41 of 43	STATE PROJECT	704-36-0032

SHEET NUMBER 3nn

\PROJECTS\08-4626 New Orleans Roads Grp 6\Drawings\Revised Final Plans 051409\Elysian Fields Ave\08-4626 Elysian Fields Pavement Repair Summary Table.dwg $TIME$

ELYSIAN FIELDS AVE. PAVEMENT REPAIR

STATION	SIDE OF ℄	CONCRETE PAVEMENT REPAIR (18.0 SQ. YD. AND UNDER)	CONCRETE PAVEMENT REPAIR (18.1 - 48.0 SQ. YD.)	CONCRETE PAVEMENT REPAIR (48.1 SQ. YD. AND OVER)
		SQ. YD.	SQ. YD.	SQ. YD.
177+40	RT			100.0
177+48	RT			53.3
178+24	RT			128.3
178+83	RT		35.0	
179+34	RT	16.7		
179+73	RT			83.3
179+97	LT			50.0
180+06	RT		26.7	
180+37	LT		21.7	
180+53	RT		25.0	
180+67	RT		33.3	
180+96	LT			155.0
182+44	RT		28.3	
183+14	LT			83.3
183+18	RT	10.0		
184+17	RT			50.0
184+45	LT			73.3
184+68	RT		43.3	
185+00	RT	16.7		
185+60	RT			393.3
185+93	RT			71.7
188+07	LT			108.3
188+60	RT		25.0	
191+10	RT			60.0
191+14	RT			60.0
191+27	LT			290.0
191+65	RT			115.0
191+85	RT			91.7
192+28	LT			58.3
192+90	LT			63.3
193+25	LT			120.0
193+46	RT	15.0		
193+65	RT			98.8
193+91	LT			323.3
193+97	RT		40.0	
194+12	RT	15.1		
194+27	RT	12.4		
SUBTOTAL 3		85.9	278.3	2630.2

NOTE: THE AREAS AND STATIONS SHOWN ARE ANTICIPATED BASED UPON RECONNAISSANCE AND SITE SURVEY. AFTER COLD PLANING OPERATIONS ARE COMPLETE, PROJECT ENGINEER SHALL VERIFY ACTUAL LOCATIONS AND DIMENSIONS.

ELYSIAN FIELDS AVE. PAVEMENT REPAIR

STATION	SIDE OF ℄	CONCRETE PAVEMENT REPAIR (18.0 SQ. YD. AND UNDER)	CONCRETE PAVEMENT REPAIR (18.1 - 48.0 SQ. YD.)	CONCRETE PAVEMENT REPAIR (48.1 SQ. YD. AND OVER)
		SQ. YD.	SQ. YD.	SQ. YD.
197+13	LT			486.7
197+50	RT			144.4
198+33	RT			108.3
198+65	RT			106.7
199+02	RT	12.2		
199+47	RT			108.3
199+57	LT		31.7	
200+44	RT			155.6
200+99	LT		20.0	
201+58	RT		36.7	
202+17	RT	9.3		
202+35	RT	6.2		
202+74	LT			50.0
202+78	RT			318.9
203+06	LT		30.0	
203+50	RT			77.8
203+55	LT			263.3
203+94	LT	4.0		
204+00	RT			322.8
204+63	LT	16.7		
204+91	LT		38.3	
205+57	LT			50.0
206+08	LT	13.3		
206+32	LT			133.3
210+08	LT			66.7
211+53	LT		30.0	
211+68	LT		43.3	
212+50	RT			50.0
212+87	RT			70.0
212+96	RT			83.3
SUBTOTAL 4		61.7	230.0	2596.1
SUBTOTAL 1		129.7	429.9	1445.3
SUBTOTAL 2		55.0	290.0	2683.9
SUBTOTAL 3		85.9	278.3	2630.2
SUBTOTAL 4		61.7	230.0	2596.1
TOTAL		332.3	1228.2	9355.5

NOTE: THE AREAS AND STATIONS SHOWN ARE ANTICIPATED BASED UPON RECONNAISSANCE AND SITE SURVEY. AFTER COLD PLANING OPERATIONS ARE COMPLETE, PROJECT ENGINEER SHALL VERIFY ACTUAL LOCATIONS AND DIMENSIONS.

STATE OF LOUISIANA
NICHOLAS J. OLIVIER
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PROFESSIONAL ENGINEER
IN CIVIL
5/14/09

CIVIL DESIGN & CONSTRUCTION

DOTD TRANSPORTATION AND DEVELOPMENT

ELYSIAN FIELDS AVENUE

PAVEMENT REPAIR SUMMARY TABLE

NO.	DATE	REVISION DESCRIPTION	BY

DESIGNED / CHECKED	NJO / KEW	PARISH	ORLEANS
DETAILED / CHECKED	CMR / NJO	FEDERAL PROJECT	ER-ERP1(048)
DATE / SHEET	JAN. 2009 / 42 of 43	STATE PROJECT	704-36-0032

SHEET NUMBER 300

\PROJECTS\08-4626 New Orleans Roads Grp 6\Drawings\Revised Final Plans 051409\Elysian Fields Ave\08-4626 Elysian Fields Curb Repair Summary Table.dwg $TIME$

ELYSIAN FIELDS AVE. CURB REPAIR

STATION	SIDE OF ℄	DOWELED BARRIER CURB	DRILLED AND DOWELED BARRIER CURB	DOWELED MOUNTABLE CURB	DRILLED AND DOWELED MOUNTABLE CURB
		LIN. FT.	LIN. FT.	LIN. FT.	LIN. FT.
102+39	LT.				23
117+80	LT.				8
119+15	LT.				12
122+83	LT.		22		
123+04	LT.		14		
124+94	LT.				4
126+43	LT.				7
127+49	LT.				44
138+56	RT.				6
139+12	RT.		13		
139+73	LT.				18
139+92	RT.		13		
140+11	RT.		20		
140+83	RT.		9		
140+96	LT.			25	
143+23	LT.		10		
144+04	LT.		14		
144+12	RT.	64			
144+73	LT.		18		
145+78	LT.				12
146+93	RT.		11		
148+21	RT.		12		
154+44	LT.		11		
154+54	RT.		28		
158+59	RT.		11		
164+03	LT.			25	
164+39	LT.		4		
169+64	RT.		12		
172+09	RT.		25		
173+92	LT.			15	
175+25	RT.	5			
176+34	RT.	9			
176+58	LT.		40		
186+16	LT.		10		
187+67	RT.		25		
188+06	RT.		25		
188+07	LT.			25	
191+14	RT.	36			
192+28	LT.			35	
192+89	LT.			38	
SUBTOTAL 1		114	347	163	134

NOTE: THE STATIONS SHOWN ARE ANTICIPATED BASED UPON RECONNAISSANCE AND SITE SURVEY. THE PROJECT ENGINEER SHALL VERIFY ACTUAL LOCATIONS AND DIMENSIONS.

ELYSIAN FIELDS AVE. CURB REPAIR

STATION	SIDE OF ℄	DOWELED BARRIER CURB	DRILLED AND DOWELED BARRIER CURB	DOWELED MOUNTABLE CURB	DRILLED AND DOWELED MOUNTABLE CURB
		LIN. FT.	LIN. FT.	LIN. FT.	LIN. FT.
193+91	LT.			97	
195+29	LT.				25
196+32	RT.		20		
196+61	RT.		54		
197+01	RT.		14		
197+12	LT.	292			
197+12	LT.	292			
197+27	RT.	86			
198+78	RT.	25			
199+22	RT.	25			
199+47	RT.	45			
199+57	LT.			19	
200+28	LT.				14
200+33	RT.	45			
201+24	RT.		100		
202+02	RT.		40		
203+05	LT.			18	
203+05	LT.				18
203+29	RT.	15			
204+65	LT.				50
204+90	RT.		14		
204+92	LT.			23	
205+50	LT.				70
206+12	RT.		28		
206+32	LT.			41	
206+32	LT.			41	
206+51	LT.				31
206+68	RT.		57		
206+83	LT.				47
207+14	RT.		15		
207+15	LT.				15
207+36	LT.				77
208+49	LT.		50		
208+89	RT.		43		
209+24	LT.				30
209+99	RT.		15		
210+07	LT.	64			
210+66	RT.		13		
211+15	LT.		4		
211+35	LT.				28
SUBTOTAL 2		889	467	239	405

NOTE: THE STATIONS SHOWN ARE ANTICIPATED BASED UPON RECONNAISSANCE AND SITE SURVEY. THE PROJECT ENGINEER SHALL VERIFY ACTUAL LOCATIONS AND DIMENSIONS.

ELYSIAN FIELDS AVE. CURB REPAIR

STATION	SIDE OF ℄	DOWELED BARRIER CURB	DRILLED AND DOWELED BARRIER CURB	DOWELED MOUNTABLE CURB	DRILLED AND DOWELED MOUNTABLE CURB
		LIN. FT.	LIN. FT.	LIN. FT.	LIN. FT.
211+68	LT.	26			
212+07	RT.		17		
212+23	LT.		26		
212+95	RT.	6			
SUBTOTAL 3		32	43	0	0
SUBTOTAL 1		114	347	163	134
SUBTOTAL 2		889	467	239	405
SUBTOTAL 3		32	43	0	0
TOTAL		1035	857	402	539

NOTE: THE STATIONS SHOWN ARE ANTICIPATED BASED UPON RECONNAISSANCE AND SITE SURVEY. THE PROJECT ENGINEER SHALL VERIFY ACTUAL LOCATIONS AND DIMENSIONS.

STATE OF LOUISIANA
NICHOLAS J. OLIVIER
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PROFESSIONAL ENGINEER
CIVIL ENGINEERING
5/14/09

CIVIL DESIGN & CONSTRUCTION

DOTD TRANSPORTATION AND DEVELOPMENT

ELYSIAN FIELDS AVENUE

CURB REPAIR SUMMARY TABLE

NO.	DATE	REVISION DESCRIPTION	BY

DESIGNED / CHECKED	NJO / KEW	PARISH	ORLEANS
DETAILED / CHECKED	CMR / NJO	FEDERAL PROJECT	ER-ERP1(048)
DATE / SHEET	JAN. 2009 / 43 of 43	STATE PROJECT	704-36-0032

SHEET NUMBER 3pp

LEON C. SIMON BOULEVARD SIDEWALK QUANTITIES

BEGIN STA	END STA	SIDE ℄	TOTAL LENGTH, LNFT	DRIVEWAYS, 15' AVG. LENGTH	DRIVEWAY EXCEPTIONS, LNFT	REPAIR LENGTH, LNFT	WIDTH, LNFT	706-01-00100 CONCRETE WALK (4" THICK), SQYD	706-01-00300 CONCRETE WALK (6" THICK), SQYD	202-02-06100 REMOVAL OF CONCRETE WALKS AND DRIVES, SQYD
106+66	107+51	RT	65	0	0	65	4	28.9		29
110+12	111+74	RT	162	0	0	162	4	72.0		72
116+59	116+93	LT	34	0	0	34	5	18.9		19
TOTAL			261		0	261		119.8		120

NOTES:
1) ITEMS IN TABLES ON THIS PAGE TO BE PAID FOR BY SRP STIMULUS ENHANCEMENT FUNDING.

2) ACTUAL LOCATIONS SHALL BE DETERMINED BY THE PROJECT ENGINEER IN THE FIELD.

3) NO UTILITIES TO BE REPAIRED ON LEON C. SIMON.

STATE OF LOUISIANA
Blake S. Roussel
REG. No. 33279
REGISTERED
PROFESSIONAL ENGINEER
CIVIL ENGINEERING
5/7/09

Stanley Consultants, Inc.

DOTD

LEON C. SIMON BLVD

SIDEWALK REPAIR SUMMARY TABLE

NO.	DATE	REVISION DESCRIPTION	BY

DESIGNED / CHECKED	BSR / JRS	PARISH	ORLEANS
DETAILED / CHECKED	BSR / JRS	FEDERAL PROJECT	ER-ERP1(048)
DATE / SHEET	MAY 2009 / 1 OF 1	STATE PROJECT	704-36-0032

SHEET NUMBER 399

NOTES:
1) ITEMS IN TABLES ON THIS PAGE TO BE PAID FOR BY SRP STIMULUS ENHANCEMENT FUNDING.

2) ACTUAL LOCATIONS SHALL BE DETERMINED BY THE PROJECT ENGINEER IN THE FIELD.

*INDICATES 4' WIDE SIDEWALK TO BE REPLACED WITH 5' WIDE ADA PASSING SPACE. SEE SHEET 103, "SIDEWALK DETAILS".

MIRABEAU AVENUE SIDEWALK QUANTITIES

BEGIN STA	END STA	SIDE ℄	TOTAL LENGTH, LNFT	DRIVEWAYS, 15' AVG. LENGTH	DRIVEWAY EXCEPTIONS, LNFT	REPAIR LENGTH, LNFT	WIDTH, LNFT	706-01-00100 CONCRETE WALK (4" THICK), SQYD	706-01-00300 CONCRETE WALK (6" THICK), SQYD	202-02-06100 REMOVAL OF CONCRETE WALKS AND DRIVES, SQYD
9+72	14+24	RT	452	1	15	437	4	194.2		194
9+72	19+83	LT	1011	15	225	786	4	349.3		349
14+24	14+29	RT	5	0	0	5	5*	2.8		2
14+29	16+28	RT	199	0	0	199	4	88.4		88
16+28	16+33	RT	5	0	0	5	5*	2.8		2
16+33	19+86	RT	353	1	15	338	4	150.2		150
20+39	23+63	RT	314	1	15	299	4	132.9		133
20+43	28+67	LT	824	11	165	659	4	292.9		293
24+03	25+10	RT	107	0	0	107	4	47.6		48
25+10	25+37	RT	27	0	0	27	4		12.0	12
25+37	26+06	RT	69	0	0	69	4	30.7		31
26+54	28+59	RT	205	1	15	190	4	84.4		84
29+08	29+39	RT	31	0	0	31	4	13.8		14
29+39	29+63	RT	24	0	0	24	4		10.7	11
29+63	34+70	RT	507	4	60	447	4	198.7		199
29+17	32+32	LT	315	1	15	300	4	133.3		133
32+32	32+37	LT	5	0	0	5	5*	2.8		2
32+37	33+87	LT	150	0	0	150	4	66.7		67
33+87	34+64	LT	77	0	0	77	4		34.2	34
36+03	35+46	LT	43	0	0	43	4	19.1		19
35+04	35+46	RT	42	0	0	42	4	18.7		19
35+88	47+29	RT	1141	11	165	976	4	433.8		434
35+89	47+28	LT	1139	13	195	944	4	419.6		420
47+77	49+45	LT	168	0	0	168	4	74.7		75
47+89	49+45	RT	156	0	0	156	4	69.3		69
51+64	53+42	RT	178	0	0	178	4	79.1		79
51+64	53+55	LT	191	0	0	191	4	84.9		85
SUBTOTAL			7738		885	6853		2990.6	56.9	3046

STATE OF LOUISIANA
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MIRABEAU AVENUE

SIDEWALK REPAIR SUMMARY TABLE

NO.	DATE	REVISION DESCRIPTION	BY

DESIGNED / CHECKED	BSR / JRS	PARISH	ORLEANS
DETAILED / CHECKED	BSR / JRS	FEDERAL PROJECT	ER-ERP1(050)
DATE / SHEET	MAY 2009 / 1 OF 2	STATE PROJECT	704-36-0034

SHEET NUMBER 317

NOTES:
1) ITEMS IN TABLES ON THIS PAGE TO BE PAID FOR BY SRP STIMULUS ENHANCEMENT FUNDING.

2) ACTUAL LOCATIONS SHALL BE DETERMINED BY THE PROJECT ENGINEER IN THE FIELD.

*INDICATES 4' WIDE SIDEWALK TO BE REPLACED WITH 5' WIDE ADA PASSING SPACE. SEE SHEET 103, "SIDEWALK DETAILS".

MIRABEAU AVENUE SIDEWALK QUANTITIES (CONT.)

BEGIN STA	END STA	SIDE ℄	TOTAL LENGTH, LNFT	DRIVEWAYS, 15' AVG. LENGTH	DRIVEWAY EXCEPTIONS, LNFT	REPAIR LENGTH, LNFT	WIDTH, LNFT	706-01-00100 CONCRETE WALK (4" THICK), SQYD	706-01-00300 CONCRETE WALK (6" THICK), SQYD	202-02-05100 REMOVAL OF CONCRETE WALKS AND DRIVES, SQYD
53+87	58+37	RT	450	7	105	345	4	153.3		153
53+99	56+31	LT	232	0	0	232	4	103.1		103
56+31	56+36	LT	5	0	0	5	5*	2.8		2
56+36	60+39	LT	403	1	15	388	4	172.4		172
58+80	62+06	RT	326	4	60	266	4	118.2		118
60+39	60+44	LT	5	0	0	5	5*	2.8		2
60+44	62+04	LT	160	0	0	160	4	71.1		71
62+50	65+37	RT	287	3	45	242	4	107.6		108
62+54	65+48	LT	294	2	30	264	4	117.3		117
65+81	66+10	LT	29	0	0	29	4	12.9		13
65+89	66+08	RT	19	0	0	19	4	8.4		8
66+54	67+96	LT	142	0	0	142	4		63.1	63
66+60	69+33	RT	273	4	60	213	4	94.7		95
67+96	69+36	LT	140	1	15	125	4	55.6		56
69+75	72+94	LT	319	3	45	274	4	121.8		122
69+83	72+92	RT	309	5	75	234	4	104.0		104
73+39	76+53	LT	314	3	45	269	4	119.6		120
73+43	75+52	RT	309	4	60	249	4	110.7		111
76+99	80+34	LT	335	4	60	275	4	122.2		122
77+02	80+34	RT	332	1	15	317	4	140.9		141
SUBTOTAL (FROM SHEET 3π)			7738		885	6853		2991	56.9	3046
TOTAL			12421		1515	10906		4729.9	120.0	4847

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STATE OF LOUISIANA
Blake S. Roussel
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CIVIL ENGINEERING
5/14/09

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MIRABEAU AVENUE

SIDEWALK REPAIR SUMMARY TABLE

DESIGNED / CHECKED	BSR / JRS
DETAILED / CHECKED	BSR / JRS
DATE	MAY 2009
PARISH	ORLEANS
FEDERAL PROJECT	ER-ERP1(050)
STATE	704-36-0034
SHEET NUMBER	35

MIRABEAU AVENUE SIDEWALK SEWER MANHOLE REPAIRS			
STATION	MH ADJUST	RT/LT OF ℄	TYPE
19+87	1	LT	SEWER MANHOLE
28+09	1	RT	SEWER MANHOLE
28+69	1	LT	SEWER MANHOLE
29+12	1	LT	SEWER MANHOLE
35+82	1	RT	SEWER MANHOLE
36+34	1	LT	SEWER MANHOLE
39+45	1	RT	SEWER MANHOLE
39+45	1	LT	SEWER MANHOLE
43+19	1	RT	SEWER MANHOLE
54+57	1	RT	SEWER MANHOLE
63+25	1	RT	SEWER MANHOLE
66+13	1	RT	SEWER MANHOLE
73+83	1	RT	SEWER MANHOLE
22+73*	1	LT	DRAIN MANHOLE
31+87*	1	LT	DRAIN MANHOLE
80+30*	1	RT	DRAIN MANHOLE
34+63#	1	RT	GAS MANHOLE
TOTAL	17		
* INDICATES DRAIN MANHOLE			
# INDICATES GAS MANHOLE			

MIRABEAU AVENUE SIDEWALK WATER VALVE REPAIRS			
STATION	741-11-00100 ADJUSTING WATER VALVE	RT/LT OF ℄	TYPE
45+27	1	RT	WATER VALVE
53+40	1	RT	WATER VALVE
66+87	1	RT	WATER VALVE
66+99	1	RT	WATER VALVE
72+92*	1	RT	GAS VALVE
TOTAL	5		
* INDICATES GAS VALVE			

MIRABEAU AVENUE SIDEWALK OVER ROOTS			
TOTAL SIDEWALKS OVER ROOTS	LNFT/ITEM	WIDTH	TOTAL GRAVEL BED AND FILTER CLOTH (SQYD)
54	5	5	150

MIRABEAU AVENUE SIDEWALK DRIVEWAY ADJUSTMENTS			
TOTAL DRIVEWAY ADJUSTMENTS	LNFT/ITEM	WIDTH	TOTAL ADJUSTMENT AREA 706-02-00200 (SQYD)
6	15	5	50.0

NOTES:
1) ITEMS IN TABLES ON THIS PAGE TO BE PAID FOR BY SRP STIMULUS ENHANCEMENT FUNDING.

2) ACTUAL LOCATIONS SHALL BE DETERMINED BY THE PROJECT ENGINEER IN THE FIELD.

STATE OF LOUISIANA
Blake S. Roussel
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5/14/09

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MIRABEAU AVENUE

SIDEWALK UTILITY SUMMARY TABLE

NO.	DATE	REVISION DESCRIPTION

DESIGNED	BSR	PARISH	ORLEANS
CHECKED	JRS		
DETAILED	BSR	FEDERAL PROJECT	ER-ERP1(050)
CHECKED	JRS		
DATE	MAY 2009	STATE PROJECT	704-36-0034
SHEET	1 OF 1		

SHEET NUMBER 34

FILMORE AVENUE SIDEWALK QUANTITIES

BEGIN STA	END STA	SIDE ℄	TOTAL LENGTH, LNFT	DRIVEWAYS, 15' AVG. LENGTH	DRIVEWAY EXCEPTIONS, LNFT	REPAIR LENGTH, LNFT	WIDTH, LNFT	706-01-00100 CONCRETE WALK (4" THICK), SQYD	706-01-00300 CONCRETE WALK (6" THICK), SQYD	202-02-06100 REMOVAL OF CONCRETE WALKS AND DRIVES, SQYD
100+79	106+99	RT	620	11	165	665	4	291.1		291
100+79	105+27	LT	448	3	45	403	4	179.1		179
105+27	105+99	LT	72	0	0	72	4		32.0	32
105+99	108+99	LT	300	4	60	240	4	106.7		107
109+54	117+83	RT	829	8	120	709	4	315.1		315
109+58	117+84	LT	826	8	120	706	4	313.8		314
118+31	123+78	LT	547	8	120	427	4	189.8		190
118+33	123+77	RT	544	5	75	469	4	208.4		208
124+19	124+62	LT	43	0	0	43	4	19.1		19
124+30	124+56	RT	26	0	0	26	4	11.6		12
125+03	127+55	RT	252	3	45	207	4	92.0		92
125+03	127+51	LT	248	2	30	218	4	96.9		97
128+04	130+55	RT	251	1	15	236	4	104.9		105
128+09	130+56	LT	247	2	30	217	4	96.4		96
131+04	133+57	LT	253	2	30	223	4	99.1		99
131+05	133+55	RT	250	2	30	220	4	97.8		98
134+04	138+52	RT	448	2	30	418	4	185.8		186
134+04	138+52	LT	448	1	15	433	4	192.4		192
140+82	145+62	RT	480	2	30	450	4	200.0		200
140+82	144+54	LT	372	0	0	372	4	165.3		165
145+04	147+04	LT	200	0	0	200	4	88.9		89
146+12	148+60	RT	248	2	30	218	4	96.9		97
147+54	149+54	LT	200	0	0	200	4	88.9		89
148+99	151+60	RT	261	2	30	231	4	102.7		103
150+04	152+04	LT	200	0	0	200	4	88.9		89
152+06	163+28	RT	122	0	0	122	4	54.2		54
152+54	154+55	LT	201	1	15	186	4	82.7		83
SUBTOTAL			9136		1035	8101		3568.4	32.0	3600

NOTES:
1) ITEMS IN TABLES ON THIS PAGE TO BE PAID FOR BY SRP STIMULUS ENHANCEMENT FUNDING.

2) ACTUAL LOCATIONS SHALL BE DETERMINED BY THE PROJECT ENGINEER IN THE FIELD.

*INDICATES 4' WIDE SIDEWALK TO BE REPLACED WITH 5' WIDE ADA PASSING SPACE. SEE SHEET 103, "SIDEWALK DETAILS".

STATE OF LOUISIANA
Blake S. Roussel
REG. No. 33279
REGISTERED
PROFESSIONAL ENGINEER
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5/7/09

Stanley Consultants, Inc.

DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT DOTD

FILMORE AVENUE

SIDEWALK REPAIR SUMMARY TABLE

DESIGNED / CHECKED	BSR / JRS
DETAILED / CHECKED	BSR / JRS
DATE	MAY 2009
PARISH	ORLEANS
FEDERAL PROJECT	ER-ERP1(051)
STATE	704-36-0035
SHEET NUMBER	311

NOTES:
1) ITEMS IN TABLES ON THIS PAGE TO BE PAID FOR BY SRP STIMULUS ENHANCEMENT FUNDING.

2) ACTUAL LOCATIONS SHALL BE DETERMINED BY THE PROJECT ENGINEER IN THE FIELD.

*INDICATES 4' WIDE SIDEWALK TO BE REPLACED WITH 5' WIDE ADA PASSING SPACE. SEE SHEET 103, "SIDEWALK DETAILS".

FILMORE AVENUE SIDEWALK QUANTITIES (CONT.)

BEGIN STA	END STA	SIDE ℄	TOTAL LENGTH, LNFT	DRIVEWAYS, 15' AVG. LENGTH	DRIVEWAY EXCEPTIONS, LNFT	REPAIR LENGTH, LNFT	WIDTH, LNFT	706-01-00100 CONCRETE WALK (4" THICK), SQYD	706-01-00300 CONCRETE WALK (6" THICK), SQYD	202-02-06100 REMOVAL OF CONCRETE WALKS AND DRIVES, SQYD
153+28	153+33	RT	5	0	0	5	5*	2.8		2
153+33	154+54	RT	121	0	0	121	4	53.8		54
154+96	155+33	LT	37	0	0	37	4	16.4		16
154+97	155+33	RT	36	0	0	36	4	16.0		16
155+74	157+09	RT	135	0	0	135	4	60.0		60
155+75	158+54	LT	279	1	15	264	4	117.3		117
157+09	157+14	RT	5	0	0	5	5*	2.8		2
157+14	158+50	RT	136	0	0	136	4	60.4		60
158+65	159+20	RT	35	0	0	35	4	15.6		16
158+86	159+19	LT	33	0	0	33	4	14.7		15
159+56	161+97	RT	241	1	15	226	4	100.4		100
159+57	162+03	LT	246	1	15	231	4	102.7		103
162+34	162+70	LT	36	0	0	36	4	16.0		16
162+43	162+70	RT	27	0	0	27	4	12.0		12
163+05	165+49	RT	244	1	15	229	4	101.8		102
163+06	165+50	LT	242	3	45	197	4	87.6		88
165+84	166+21	RT	37	0	0	37	4	16.4		16
165+85	166+20	LT	35	0	0	35	4	15.6		16
166+55	167+69	RT	114	0	0	114	4	50.7		51
166+47	169+50	LT	303	3	45	258	4	114.7		115
167+69	169+50	RT	181	0	0	181	4		80.4	80
MEDIAN SIDEWALKS			855	0	0	855	4	380.0		380
SUBTOTAL (FROM SHEET 3uu)			9136		1035	8101		3568	32	3600
TOTAL			12519		1185	11334		4926.0	112.4	5037

STATE OF LOUISIANA
Blake S. Roussel
REG. No. 33279
REGISTERED
PROFESSIONAL ENGINEER
C/ Blake S. Roussel
CIVIL ENGINEER IRP 5/14/09

Stanley Consultants, Inc.

DOTD TRANSPORTATION AND DEVELOPMENT

FILMORE AVENUE

SIDEWALK REPAIR SUMMARY TABLE

STATE OF LOUISIANA

NO.	DATE	REVISION DESCRIPTION

DESIGNED / CHECKED	BSR / JRS
DETAILED / CHECKED	BSR / JRS
DATE	MAY 2009
PARISH	ORLEANS
FEDERAL PROJECT	ER-ERP1(051)
STATE PROJECT	704-36-0035
SHEET NUMBER	3vv

FILMORE AVENUE SIDEWALK SEWER MANHOLE REPAIRS			
STATION	MH ADJUST	RT/LT OF ℄	TYPE
149+89	1	RT	SEWER MANHOLE
109+60*	1	RT	DRAIN MANHOLE
158+95*	1	RT	DRAIN MANHOLE
169+45*	1	RT	DRAIN MANHOLE
TOTAL	4		
* INDICATES DRAIN MANHOLE			

FILMORE AVENUE WATER VALVE REPAIRS			
STATION	741-11-00100 ADJUSTING WATER VALVE	RT/LT OF ℄	TYPE
109+01	1	RT	WATER VALVE
109+86	1	RT	WATER VALVE
115+36	1	LT	WATER VALVE
117+88	1	RT	WATER VALVE
118+38	1	LT	WATER VALVE
123+51	1	LT	WATER VALVE
123+76	1	LT	WATER VALVE
134+91	1	RT	WATER VALVE
144+06	1	RT	WATER VALVE
150+61	1	RT	WATER VALVE
154+52	1	RT	WATER VALVE
155+73	1	LT	WATER VALVE
109+00*	1	RT	GAS VALVE
145+62*	1	RT	GAS VALVE
149+04*	1	RT	GAS VALVE
154+56*	1	RT	GAS VALVE
155+60*	1	RT	GAS VALVE
155+64*	1	RT	GAS VALVE
158+54*	1	RT	GAS VALVE
159+50*	1	RT	GAS VALVE
166+61*	1	RT	GAS VALVE
169+00*	1	RT	GAS VALVE
TOTAL	22		
* INDICATES GAS VALVE			

FILMORE AVENUE SIDEWALK OVER ROOTS			
TOTAL SIDEWALKS OVER ROOTS	LNFT/ITEM	WIDTH	TOTAL GRAVEL BED AND FILTER CLOTH (SQYD)
16	5	5	44

FILMORE AVENUE SIDEWALK DRIVEWAY ADJUSTMENTS			
TOTAL DRIVEWAY ADJUSTMENTS	LNFT/ITEM	WIDTH	TOTAL ADJUSTMENT AREA 706-02-00200 (SQYD)
22	15	5	183.3

NOTES:
1) ITEMS IN TABLES ON THIS PAGE TO BE PAID FOR BY SRP STIMULUS ENHANCEMENT FUNDING.

2) ACTUAL LOCATIONS SHALL BE DETERMINED BY THE PROJECT ENGINEER IN THE FIELD.

STATE OF LOUISIANA
Blake S. Roussel
REG. No. 33279
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CIVIL ENGINEERING
Blake S. Roussel 5/14/09

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DOTD

FILMORE AVENUE

SIDEWALK UTILITY SUMMARY TABLE

DESIGNED / CHECKED	BSR / JRS	PARISH	ORLEANS
DETAILED / CHECKED	BSR / JRS	FEDERAL PROJECT	ER-ERP1(051)
DATE	MAY 2009	STATE	704-36-0035

SHEET NUMBER 3WW

ST. BERNARD AVENUE SIDEWALK QUANTITIES

BEGIN STA	END STA	SIDE ℄	TOTAL LENGTH, LNFT	DRIVEWAYS, 15' AVG. LENGTH	DRIVEWAY EXCEPTIONS, LNFT	REPAIR LENGTH, LNFT	WIDTH, LNFT	706-01-00100 CONCRETE WALK (4" THICK), SQYD	706-01-00300 CONCRETE WALK (6" THICK), SQYD	202-02-06100 REMOVAL OF CONCRETE WALKS AND DRIVES, SQYD
136+64	136+89	LT	25	0	0	25	4	11.1		11
137+06	137+34	RT	28	0	0	28	4	12.4		12
137+44	140+11	LT	267	1	15	252	4	112.0		112
137+74	141+46	RT	372	5	75	297	4	132.0		132
141+46	141+61	RT	15	0	0	15	4		6.7	7
140+59	142+94	LT	235	1	15	220	4	97.8		98
143+41	145+09	LT	168	1	15	153	4	68.0		68
145+67	149+08	LT	341	3	45	296	4	131.6		132
146+61	152+12	RT	551	10	150	401	4	178.2		178
149+57	152+11	LT	254	1	15	239	4	106.2		106
152+54	152+96	LT	42	0	0	42	4	18.7		19
152+55	152+96	RT	41	0	0	41	4	18.2		18
153+36	165+26	LT	1190	16	240	950	4	422.2		422
153+37	156+86	RT	349	5	75	274	4	121.8		122
157+32	162+06	RT	474	5	75	399	4	177.3		177
162+45	162+64	RT	19	0	0	19	4	8.4		8
163+02	165+27	RT	225	1	15	210	4	93.3		93
165+72	175+01	RT	929	11	165	764	4	339.6		340
165+79	173+82	LT	803	0	0	803	4	356.9		357
174+43	179+31	LT	488	2	30	458	4	203.6		204
175+53	178+81	RT	328	2	30	298	4	132.4		132
179+26	179+43	RT	17	0	0	17	4	7.8		8
179+59	179+69	LT	10	0	0	10	4	4.4		4
179+97	182+05	RT	208	1	15	193	4	85.8		86
180+07	183+52	LT	345	4	60	285	5	158.3		158
182+58	182+92	RT	34	0	0	34	4	15.1		15
183+54	185+35	RT	181	0	0	181	4	80.4		80
SUBTOTAL			7939		1035	6904		3093.4	6.7	3100

NOTES:
1) ITEMS IN TABLES ON THIS PAGE TO BE PAID FOR BY SRP STIMULUS ENHANCEMENT FUNDING.

2) ACTUAL LOCATIONS SHALL BE DETERMINED BY THE PROJECT ENGINEER IN THE FIELD.

*INDICATES 4' WIDE SIDEWALK TO BE REPLACED WITH 5' WIDE ADA PASSING SPACE. SEE SHEET 103, "SIDEWALK DETAILS".

STATE OF LOUISIANA
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PROFESSIONAL ENGINEER
CIVIL ENGINEERING
5/7/09

I-90

Stanley Consultants, Inc.

DOTD TRANSPORTATION AND DEVELOPMENT

ST. BERNARD AVENUE

SIDEWALK REPAIR SUMMARY TABLE

DESIGNED / CHECKED	BSR / JRS
DETAILED / CHECKED	BSR / JRS
DATE	MAY 2009
PARISH	ORLEANS
FEDERAL PROJECT	ER-ERP1(052)
STATE	704-36-0036
SHEET NUMBER	3x

NOTES:
1) ITEMS IN TABLES ON THIS PAGE TO BE PAID FOR BY SRP STIMULUS ENHANCEMENT FUNDING.

2) ACTUAL LOCATIONS SHALL BE DETERMINED BY THE PROJECT ENGINEER IN THE FIELD.

*INDICATES 4' WIDE SIDEWALK TO BE REPLACED WITH 5' WIDE ADA PASSING SPACE. SEE SHEET 103, "SIDEWALK DETAILS".

ST. BERNARD AVENUE SIDEWALK QUANTITIES (CONT.)

BEGIN STA	END STA	SIDE ℄	TOTAL LENGTH, LNFT	DRIVEWAYS, 15' AVG. LENGTH	DRIVEWAY EXCEPTIONS, LNFT	REPAIR LENGTH, LNFT	WIDTH, LNFT	706-01-00100 CONCRETE WALK (4" THICK), SQYD	706-01-00300 CONCRETE WALK (6" THICK), SQYD	202-02-06100 REMOVAL OF CONCRETE WALKS AND DRIVES, SQYD
184+07	195+54	LT	1147	3	45	1102	4	489.8		490
185+35	185+40	RT	5	0	0	5	5*	2.8		2
185+40	187+18	RT	178	0	0	178	4	79.1		79
187+52	191+15	RT	363	0	0	363	4		161.3	161
191+45	191+77	RT	32	0	0	32	4		14.2	14
192+86	195+06	RT	220	4	60	160	4		71.1	71
195+56	197+42	RT	186	1	15	171	4	76.0		76
196+07	198+56	LT	249	1	15	234	5	130.0		130
197+42	197+57	RT	15	0	0	15	4		6.7	7
197+57	199+03	RT	146	0	0	146	4	64.9		65
199+56	201+31	RT	175	3	45	130	4	57.8		58
199+66	203+52	LT	396	1	15	381	5	211.7		212
202+29	203+17	RT	88	0	0	88	4	39.1		39
203+74	204+93	RT	119	0	0	119	4	52.9		53
204+10	205+38	LT	128	0	0	128	5		71.1	71
SUBTOTAL (FROM SHEET 3xx)			7939	0	1035	6904	0	3093	7	3100
TOTAL			11386		1230	10156		4297.4	331.1	4628

STATE OF LOUISIANA
Blake S. Roussel
REG. No. 33279
REGISTERED
PROFESSIONAL ENGINEER
CIVIL ENGINEERING
Blake S. Roussel 5/14/09

Stanley Consultants, Inc.

ST. BERNARD AVENUE

SIDEWALK REPAIR SUMMARY TABLE

DESIGNED / CHECKED	BSR / JRS
DETAILED / CHECKED	BSR / JRS
DATE	MAY 2009
PARISH	ORLEANS
FEDERAL PROJECT	ER-ERP1(052)
STATE	704-36-0036
SHEET NUMBER	35

ST. BERNARD AVENUE SIDEWALK SEWER MANHOLE REPAIRS

STATION	MH ADJUST	RT/LT OF ℄	TYPE
139+02	1	LT	SEWER MANHOLE
153+77	1	RT	SEWER MANHOLE
153+77	1	LT	SEWER MANHOLE
156+91	1	RT	SEWER MANHOLE
158+04	1	RT	SEWER MANHOLE
161+27	1	LT	SEWER MANHOLE
162+54	1	RT	SEWER MANHOLE
182+06	1	RT	SEWER MANHOLE
182+85	1	RT	SEWER MANHOLE
153+50*	1	RT	DRAIN MANHOLE
165+24*	1	RT	DRAIN MANHOLE
167+70*	1	RT	DRAIN MANHOLE
198+45*	1	LT	DRAIN MANHOLE
TOTAL	13		

* INDICATES DRAIN MANHOLE

ST. BERNARD AVENUE SIDEWALK CATCH BASIN REPAIRS

STATION	CB ADJUST	RT/LT OF ℄	TYPE
164+40	1	RT	CATCH BASIN
Total	1		

ST. BERNARD AVENUE SIDEWALK WATER VALVE REPAIRS

STATION	741-11-00100 ADJUSTING WATER VALVE	RT/LT OF ℄	TYPE
137+77	1	RT	WATER VALVE
139+04	1	RT	WATER VALVE
145+18	1	LT	WATER VALVE
157+34	1	LT	WATER VALVE
157+60	1	LT	WATER VALVE
160+23	1	RT	WATER VALVE
161+68	1	LT	WATER VALVE
165+74	1	RT	WATER VALVE
171+60	1	RT	WATER VALVE
179+96	1	RT	WATER VALVE
TOTAL	10		

ST. BERNARD AVENUE SIDEWALK OVER ROOTS

TOTAL SIDEWALKS OVER ROOTS	LNFT/ITEM	WIDTH	TOTAL GRAVEL BED AND FILTER CLOTH (SQYD)
3	5	5	8

ST. BERNARD SIDEWALK DRIVEWAY ADJUSTMENTS

TOTAL DRIVEWAY ADJUSTMENTS	LNFT/ITEM	WIDTH	TOTAL ADJUSTMENT AREA 706-02-00200 (SQYD)
14	15	5	116.7

NOTES:
1) ITEMS IN TABLES ON THIS PAGE TO BE PAID FOR BY SRP STIMULUS ENHANCEMENT FUNDING.

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STATE OF LOUISIANA
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Blake S Roussel 5/14/09

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Stanley Consultants, Inc.

DOTD

ST. BERNARD AVENUE

SIDEWALK UTILITY SUMMARY TABLE

DESIGNED / CHECKED	BSR / JRS
DETAILED / CHECKED	BSR / JRS
DATE	MAY 2009
PARISH	ORLEANS
FEDERAL PROJECT	ER-ERP1(052)
STATE	704-36-0036
SHEET NUMBER	32

PARIS AVENUE SIDEWALK QUANTITIES

BEGIN STA	END STA	SIDE ℄	TOTAL LENGTH, LNFT	DRIVEWAYS, 15' AVG. LENGTH	DRIVEWAY EXCEPTIONS, LNFT	REPAIR LENGTH, LNFT	WIDTH, LNFT	706-01-00100 CONCRETE WALK (4" THICK), SQYD	706-01-00300 CONCRETE WALK (6" THICK), SQYD	202-02-06100 REMOVAL OF CONCRETE WALKS AND DRIVES, SQYD
102+08	102+30	RT	22	0	0	22	4	9.8		10
102+08	102+22	LT	14	0	0	14	4	6.2		6
102+71	105+95	LT	324	6	90	234	4	104.0		104
102+81	105+98	RT	317	2	30	287	4	127.6		128
106+37	109+55	LT	318	5	75	243	4	108.0		108
106+39	109+62	RT	323	5	75	248	4	110.2		110
110+06	112+65	RT	259	1	15	244	4	108.4		108
110+12	113+37	LT	325	3	45	280	4	124.4		124
112+65	112+80	RT	15	0	0	15	4		6.7	7
112+80	113+30	RT	50	0	0	50	4	22.2		22
113+77	117+02	RT	325	3	45	280	4	124.4		124
113+77	116+98	LT	321	1	15	306	4	136.0		136
117+45	120+69	RT	324	4	60	264	4	117.3		117
117+47	120+70	LT	323	4	60	263	4	116.9		117
121+15	124+40	LT	325	4	60	265	4	117.8		118
121+17	124+42	RT	325	5	75	250	4	111.1		111
124+87	128+09	LT	322	6	90	232	4	103.1		103
124+92	126+16	RT	124	2	30	94	4	41.8		42
126+16	126+42	RT	26	0	0	26	4		11.6	12
126+42	127+13	RT	71	0	0	71	4	31.6		32
127+13	127+40	RT	27	0	0	27	4		12.0	12
127+40	128+84	RT	144	0	0	144	4	64.0		64
128+54	131+79	LT	325	5	75	250	4	111.1		111
129+10	129+33	RT	23	0	0	23	4	10.2		10
129+83	132+87	RT	304	6	90	214	4	95.1		95
132+87	133+72	RT	85	0	0	85	4		37.8	38
132+25	135+46	LT	321	7	105	216	4	96.0		96
SUBTOTAL			5662		1035	4647		1997.3	68.0	2065

NOTES:
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2) ACTUAL LOCATIONS SHALL BE DETERMINED BY THE PROJECT ENGINEER IN THE FIELD.

*INDICATES 4' WIDE SIDEWALK TO BE REPLACED WITH 5' WIDE ADA PASSING SPACE. SEE SHEET 103, "SIDEWALK DETAILS".

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DOTD TRANSPORTATION AND DEVELOPMENT

PARIS AVENUE

SIDEWALK REPAIR SUMMARY TABLE

DESIGNED / CHECKED	BSR / JRS
DETAILED / CHECKED	BSR / JRS
DATE / SHEET	MAY 2009 / 1 OF 2
PARISH	ORLEANS
FEDERAL PROJECT	ER--ERP1(053)
STATE PROJECT	704-36-0037
SHEET NUMBER	3000

NOTES:
1) ITEMS IN TABLES ON THIS PAGE TO BE PAID FOR BY SRP STIMULUS ENHANCEMENT FUNDING.

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*INDICATES 4' WIDE SIDEWALK TO BE REPLACED WITH 5' WIDE ADA PASSING SPACE. SEE SHEET 103, "SIDEWALK DETAILS".

PARIS AVENUE SIDEWALK QUANTITIES (CONT.)

BEGIN STA	END STA	SIDE ℄	TOTAL LENGTH, LNFT	DRIVEWAYS, 15' AVG. LENGTH	DRIVEWAY EXCEPTIONS, LNFT	REPAIR LENGTH, LNFT	WIDTH, LNFT	706-01-00100 CONCRETE WALK (4" THICK), SQYD	706-01-00300 CONCRETE WALK (6" THICK), SQYD	202-02-06100 REMOVAL OF CONCRETE WALKS AND DRIVES, SQYD
134+01	134+27	RT	26	0	0	26	4	11.6		12
134+52	139+45	RT	493	4	60	433	4		192.4	192
135+96	140+24	LT	428	2	30	398	4	176.9		177
139+73	140+01	RT	28	0	0	28	4	12.4		12
140+47	142+34	RT	187	2	30	157	4	69.8		70
140+82	142+82	LT	200	0	0	200	4	88.9		89
142+68	143+41	RT	53	0	0	53	4	23.6		24
143+29	145+31	LT	202	0	0	202	4	89.8		90
144+25	144+30	LT	6	0	0	5	5*	2.8		2
144+30	145+31	LT	101	0	0	101	4	44.9		45
143+69	143+92	RT	23	0	0	23	4	10.2		10
144+23	154+40	RT	1017	15	225	792	4	352.0		352
145+82	147+81	LT	199	0	0	199	4	88.4		88
148+31	150+26	LT	195	0	0	195	4	86.7		87
150+83	152+30	LT	147	0	0	147	4	65.3		65
152+30	152+84	LT	54	0	0	54	4		24.0	24
153+26	157+77	LT	451	1	15	436	4		193.8	194
154+99	155+96	RT	97	0	0	97	4	43.1		43
155+96	156+72	RT	76	0	0	76	4		33.8	34
156+72	157+77	RT	105	0	0	105	4	46.7		47
MEDIAN SIDEWALKS			1330	0	0	1330	4	591.1		591
SUBTOTAL (FROM SHEET 3aaa)			5682		1035	4647		1997	66.0	2065
TOTAL			11099		1395	9704		3801.4	512.0	4313

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STATE OF LOUISIANA
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DOTD TRANSPORTATION AND DEVELOPMENT

PARIS AVENUE

SIDEWALK REPAIR SUMMARY TABLE

DESIGNED	BSR
CHECKED	JRS
DETAILED	BSR
CHECKED	JRS
DATE	MAY 2009
PARISH	ORLEANS
FEDERAL PROJECT	ER-ERP1(053)
STATE	704-36-0037
SHEET NUMBER	3bb

PARIS AVENUE SIDEWALK SEWER MANHOLE REPAIRS			
STATION	MH ADJUST	RT/LT OF ℄	TYPE
124+94	1	LT	SEWER MANHOLE
127+47	1	LT	SEWER MANHOLE
139+15	1	RT	SEWER MANHOLE
140+88	1	LT	SEWER MANHOLE
144+73	1	LT	SEWER MANHOLE
153+34	1	LT	SEWER MANHOLE
124+21*	1	LT	DRAIN MANHOLE
132+73*	1	LT	DRAIN MANHOLE
145+76*	1	LT	DRAIN MANHOLE
148+96*	1	LT	DRAIN MANHOLE
154+05*	1	LT	DRAIN MANHOLE
102+69#	1	LT	ELECTRIC MANHOLE
TOTAL	12		
* INDICATES DRAIN MANHOLE			
# INDICATES ELECTRIC MANHOLE			

PARIS AVENUE SIDEWALK WATER VALVE REPAIRS			
STATION	741-11-00100 ADJUSTING WATER VALVE	RT/LT OF ℄	TYPE
107+12	1	RT	WATER VALVE
107+13	1	RT	WATER VALVE
107+41	1	RT	WATER VALVE
133+11	1	RT	WATER VALVE
TOTAL	4		

PARIS AVENUE SIDEWALK OVER ROOTS			
TOTAL SIDEWALKS OVER ROOTS	LNFT/ITEM	WIDTH	TOTAL GRAVEL BED AND FILTER CLOTH (SQYD)
32	5	5	89

PARIS AVENUE SIDEWALK DRIVEWAY ADJUSTMENTS			
TOTAL DRIVEWAY ADJUSTMENTS	LNFT/ITEM	WIDTH	TOTAL ADJUSTMENT AREA 706-02-00200 (SQYD)
16	15	5	133.3

NOTES:
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STATE OF LOUISIANA
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5/14/09

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Stanley Consultants, Inc.

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PARIS AVENUE

SIDEWALK UTILITY SUMMARY TABLE

NO.	DATE	REVISION DESCRIPTION	INT

DESIGNED / CHECKED	BSR / JRS	PARISH	ORLEANS
DETAILED / CHECKED	BSR / JRS	FEDERAL PROJECT	ER-ERP1(053)
DATE / SHEET	MAY 2009 / 1 OF 1	STATE PROJECT	704-36-0037

SHEET NUMBER 3CCC

ELYSIAN FIELDS AVENUE SIDEWALK QUANTITIES

BEGIN STA	END STA	SIDE ℄	TOTAL LENGTH, LNFT	DRIVEWAYS, 15' AVG. LENGTH	DRIVEWAY EXCEPTIONS, LNFT	REPAIR LENGTH, LNFT	WIDTH, LNFT	706-01-00100 CONCRETE WALK (4" THICK), SQYD	706-01-00300 CONCRETE WALK (6" THICK), SQYD	202-02-06100 REMOVAL OF CONCRETE WALKS AND DRIVES, SQYD
102+76	106+31	RT	355	0	0	355	5		197.2	197
102+76	103+15	LT	39	0	0	39	5	21.7		22
103+59	106+86	LT	327	1	15	312	5	173.3		173
106+31	106+89	RT	58	0	0	58	5	32.2		32
107+30	110+54	LT	324	1	15	309	5	171.7		172
107+31	108+05	RT	74	1	15	59	5	32.8		33
108+05	110+63	RT	258	0	0	258	5		143.3	143
110+91	114+32	RT	341	0	0	341	5		189.4	189
110+89	114+26	LT	327	4	60	267	4	118.7		119
114+67	121+55	RT	688	1	15	673	5	373.9		374
114+69	117+91	LT	322	0	0	322	4	143.1		143
118+39	118+94	LT	55	0	0	55	4		24.4	24
118+94	121+61	LT	267	2	30	237	4	105.3		105
122+07	126+66	RT	459	2	30	429	4	190.7		191
122+10	125+32	LT	322	2	30	292	4	129.8		130
125+78	129+06	LT	328	4	60	268	4	119.1		119
127+03	133+05	RT	602	3	45	557	4	247.6		248
129+48	132+69	LT	341	4	60	281	4	124.9		125
133+24	133+44	LT	20	0	0	20	4	8.9		9
133+54	139+54	RT	600	0	0	600	4	266.7		267
133+78	137+25	LT	347	5	75	272	4	120.9		121
137+61	140+93	LT	332	4	60	272	4	120.9		121
139+98	145+99	RT	601	5	75	526	4	233.8		234
141+30	144+59	LT	329	3	45	284	4	126.2		126
145+06	146+57	LT	151	3	45	106	4	47.1		47
146+40	148+45	RT	205	0	0	205	4		91.1	91
146+57	148+37	LT	180	0	0	180	4		80.0	80
148+71	149+05	LT	34	0	0	34	4	15.1		15
148+79	149+02	RT	23	0	0	23	4	10.2		10
149+35	152+83	RT	348	5	75	273	4	121.3		121
149+42	156+51	LT	709	10	150	559	4	248.4		248
153+16	156+52	RT	336	5	75	261	4	116.0		116
SUBTOTAL			9702		975	8727		3420.2	725.6	4146

NOTES:
1) ITEMS IN TABLES ON THIS PAGE TO BE PAID FOR BY SRP STIMULUS ENHANCEMENT FUNDING.

2) ACTUAL LOCATIONS SHALL BE DETERMINED BY THE PROJECT ENGINEER IN THE FIELD.

*INDICATES 4' WIDE SIDEWALK TO BE REPLACED WITH 5' WIDE ADA PASSING SPACE. SEE SHEET 103, "SIDEWALK DETAILS".

STATE OF LOUISIANA
Blake S. Roussel
REG. No. 33279
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PROFESSIONAL ENGINEER
CIVIL ENGINEERING
5/7/09

Stanley Consultants, Inc.

DOTD TRANSPORTATION AND DEVELOPMENT

ELYSIAN FIELDS AVENUE

SIDEWALK REPAIR SUMMARY TABLE

NO.	DATE	REMARKS

DESIGNED / CHECKED	BSR / JRS	PARISH	ORLEANS
DETAILED / CHECKED	BSR / JRS	FEDERAL PROJECT	ER-ERP1(054)
DATE	MAY 2009	STATE PROJECT	704-36-0038

SHEET NUMBER 328

ELYSIAN FIELDS AVENUE SIDEWALK QUANTITIES (CONT.)

BEGIN STA	END STA	SIDE ℄	TOTAL LENGTH, LNFT	DRIVEWAYS, 15' AVG. LENGTH	DRIVEWAY EXCEPTIONS, LNFT	REPAIR LENGTH, LNFT	WIDTH, LNFT	706-01-00100 CONCRETE WALK (4" THICK), SQYD	706-01-00300 CONCRETE WALK (6" THICK), SQYD	202-02-06100 REMOVAL OF CONCRETE WALKS AND DRIVES, SQYD
156+87	160+18	RT	331	4	60	271	4	120.4		120
156+88	164+12	LT	724	9	135	589	4	261.8		262
160+54	160+85	RT	31	0	0	31	4		13.8	14
160+85	162+81	RT	196	1	15	181	4	80.4		80
162+81	163+90	RT	109	0	0	109	4		48.4	48
163+90	164+05	RT	15	0	0	15	4	6.7		7
164+33	164+62	RT	29	0	0	29	4	12.9		13
164+37	164+66	LT	29	0	0	29	4	12.9		13
164+89	173+90	LT	901	12	180	721	4	320.4		320
165+00	168+39	RT	339	4	60	279	4	124.0		124
168+80	172+10	RT	330	4	60	270	4	120.0		120
172+47	173+91	RT	144	0	0	144	4	64.0	64.0	128
173+91	175+78	RT	187	1	15	172	4	76.4		76
174+31	183+23	LT	892	8	120	772	4	343.1		343
176+19	179+50	RT	331	4	60	271	4	120.4		120
179+87	183+32	RT	345	2	30	315	4	140.0	140.0	280
183+48	183+94	LT	46	0	0	46	4	20.4		20
183+67	183+92	RT	25	0	0	25	4	11.1		11
184+32	187+68	RT	336	1	15	321	4	142.7		143
184+36	187+73	LT	337	1	15	322	4	143.1		143
188+01	191+97	RT	396	2	30	366	4	162.7		163
188+06	189+83	LT	177	0	0	177	4	78.7	78.7	157
189+83	191+43	LT	160	1	15	145	4	64.4		64
192+36	194+47	RT	211	1	15	196	4	87.1		87
194+89	195+33	RT	44	0	0	44	4	19.6		20
195+75	196+82	RT	107	0	0	107	4	47.6	47.6	95
196+82	203+71	RT	689	6	90	599	4	266.2		266
204+15	210+70	RT	655	3	45	610	4	271.1		271
210+70	210+75	RT	5	0	0	5	5*	2.8		2
210+75	212+48	RT	173	1	15	158	4	70.2		70
212+48	213+00	RT	52	0	0	52	4	23.1	23.1	46
MEDIAN SIDEWALKS			2727	0	0	2727	5	1515.0		1515
SUBTOTAL (FROM SHEET 3ddd)			9702		975	8727		3420.2	725.6	4146
TOTAL			20775		1950	18825		8149.6	1141.1	9290

NOTES:
1) ITEMS IN TABLES ON THIS PAGE TO BE PAID FOR BY SRP STIMULUS ENHANCEMENT FUNDING.

2) ACTUAL LOCATIONS SHALL BE DETERMINED BY THE PROJECT ENGINEER IN THE FIELD.

*INDICATES 4' WIDE SIDEWALK TO BE REPLACED WITH 5' WIDE ADA PASSING SPACE. SEE SHEET 103, "SIDEWALK DETAILS".

STATE OF LOUISIANA
Blake S. Roussel
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5/14/09
CIVIL ENGINEERING

Stanley Consultants, Inc.

DOTD TRANSPORTATION AND DEVELOPMENT

ELYSIAN FIELDS AVENUE

SIDEWALK REPAIR SUMMARY TABLE

NO	DATE	REVISION DESCRIPTION

DESIGNED / CHECKED	BSR / JRS	PARISH	ORLEANS
DETAILED / CHECKED	BSR / JRS	FEDERAL PROJECT	ER-ERP1(054)
DATE	MAY 2009	STATE PROJECT	704-36-0038

SHEET NUMBER 3eee

ELYSIAN FIELDS AVENUE SIDEWALK SEWER MANHOLE REPAIRS

STATION	MH ADJUST	RT/LT OF ℄	TYPE
111+61	1	LT	SEWER MANHOLE
114+17	1	LT	SEWER MANHOLE
114+82	1	LT	SEWER MANHOLE
118+70	1	LT	SEWER MANHOLE
149+95	1	RT	SEWER MANHOLE
156+37	1	LT	SEWER MANHOLE
165+45	1	LT	SEWER MANHOLE
178+57	1	LT	SEWER MANHOLE
184+33	1	RT	SEWER MANHOLE
187+33	1	RT	SEWER MANHOLE
206+75	1	RT	SEWER MANHOLE
210+85	1	RT	SEWER MANHOLE
210+85	1	RT	SEWER MANHOLE
153+00	1	LT	DRAIN MANHOLE
177+84*	1	RT	DRAIN MANHOLE
181+47*	1	RT	DRAIN MANHOLE
181+52*	1	LT	DRAIN MANHOLE
192+40*	1	RT	DRAIN MANHOLE
194+44*	1	RT	DRAIN MANHOLE
198+33*	1	RT	DRAIN MANHOLE
TOTAL	20		

* INDICATES DRAIN MANHOLE

ELYSIAN FIELDS AVENUE SIDEWALK WATER VALVE REPAIRS

STATION	741-11-00100 ADJUSTING WATER VALVE	RT/LT OF ℄	TYPE
127+54	1	LT	WATER VALVE
140+94	1	LT	WATER VALVE
146+23	1	LT	WATER VALVE
148+06	1	LT	WATER VALVE
149+55	1	RT	WATER VALVE
152+10	1	RT	WATER VALVE
152+30	1	RT	WATER VALVE
156+88	1	RT	WATER VALVE
160+23	1	RT	WATER VALVE
160+21	1	RT	WATER VALVE
162+63	1	LT	WATER VALVE
168+52	1	LT	WATER VALVE
170+15	1	LT	WATER VALVE
173+81	1	RT	WATER VALVE
178+95	1	LT	WATER VALVE
181+89	1	RT	WATER VALVE
184+36	1	RT	WATER VALVE
187+22	1	RT	WATER VALVE
191+91	1	RT	WATER VALVE
194+41	1	RT	WATER VALVE
TOTAL	20		

ELYSIAN FIELDS AVENUE SIDEWALK OVER ROOTS

TOTAL SIDEWALKS OVER ROOTS	LNFT/ITEM	WIDTH	TOTAL GRAVEL BED AND FILTER CLOTH (SQYD)
28	5	5	78

ELYSIAN FIELDS AVENUE SIDEWALK DRIVEWAY ADJUSTMENTS

TOTAL DRIVEWAY ADJUSTMENTS	LNFT/ITEM	WIDTH	TOTAL ADJUSTMENT AREA 706-02-00200 (SQYD)
11	15	5	91.7

NOTES:
1) ITEMS IN TABLES ON THIS PAGE TO BE PAID FOR BY SRP STIMULUS ENHANCEMENT FUNDING.

2) ACTUAL LOCATIONS SHALL BE DETERMINED BY THE PROJECT ENGINEER IN THE FIELD.

STATE OF LOUISIANA
Blake S. Roussel
REG. No. 33279
REGISTERED
PROFESSIONAL ENGINEER
CIVIL ENGINEERING
5/14/09

Stanley Consultants, Inc.

DOTD TRANSPORTATION AND DEVELOPMENT

ELYSIAN FIELDS AVENUE

SIDEWALK UTILITY SUMMARY TABLE

DESIGNED / CHECKED	BSR / JRS
DETAILED / CHECKED	BSR / JRS
DATE	MAY 2009
PARISH	ORLEANS
FEDERAL PROJECT	ER-ERP1(054)
STATE	704-36-0038
SHEET NUMBER	366

LANDSCAPING

Roadway	Limits	Item Number	Specs for Category	Tree Category	Tree Quantity
Filmore Ave.	St. Bernard to Elysian Fields				
		719-01-02020	1 1/2" min. caliper; 1" min. d.b.h.;10 ft. tall minimum; straight trunk; 5' minimum crotch height	Halesia diptera magniflora, Pistacia chinensis, Magnolia virginiana "Aiken"	175
		719-01-02060	2 1/2" min. caliper; 2" min. d.b.h.; 10 ft. tall minimum; straight trunk; 5' minimum crotch height	Quercus virginiana, Quercus nuttallii, Pinus taeda	30
		719-01-07000	3 ft. minimum clear trunk, matched	Phoenix canariensis	20
				Total	225
St. Bernard Ave.	I-610 to Filmore				
		719-01-02020	1 1/2" min. caliper; 1" min. d.b.h.;10 ft. tall minimum; straight trunk; 5' minimum crotch height	Chionanthus virginicus, Magnolia grandiflora "Little Gem", Ilex x attenuata "Savannah"	175
		719-01-02060	2 1/2" min. caliper; 2" min. d.b.h.; 10 ft. tall minimum; straight trunk; 5' minimum crotch height	Magnolia grandiflora "Samuel Sommer", Quercus virginiana	60
				Total	235
Leon C. Simon Dr.	London Ave. Canal to Elysian Fields				
		719-01-02020	1 1/2" min. caliper; 1" min. d.b.h.;10 ft. tall minimum; straight trunk; 5' minimum crotch height	Chionanthus virginicus, Pistacia chinensis, Magnolia virginiana "Aiken"	80
				Total	80
Mirabeau Ave.	St. Bernard to Elysian Fields				
		719-01-02020	1 1/2" min. caliper; 1" min. d.b.h.;10 ft. tall minimum; straight trunk; 5' minimum crotch height	Magnolia virginiana "Aiken", Chionanthus virginicus	40
		719-01-02060	2 1/2" min. caliper; 2" min. d.b.h.; 10 ft. tall minimum; straight trunk; 5' minimum crotch height	Quercus virginiana	40
		719-01-07000	3 ft. minimum clear trunk, matched	Phoenix canariensis	20
				Total	100
Paris Ave.	I-610 to Mirabeau				
		719-01-02020	1 1/2" min. caliper; 1" min. d.b.h.;10 ft. tall minimum; straight trunk; 5' minimum crotch height	Chionanthus virginicus, Magnolia grandiflora "Little Gem", Ilex x attenuata "Savannah"	50
		719-01-02060	2 1/2" min. caliper; 2" min. d.b.h.; 10 ft. tall minimum; straight trunk; 5' minimum crotch height	Magnolia grandiflora "DD Blanchard", Quercus virginiana, Quercus nuttalii, Taxodium distichum	150
				Total	200
Elysian Fields Ave.	Lakeshore Drive to US 90				
		719-01-02020	1 1/2" min. caliper; 1" min. d.b.h.;10 ft. tall minimum; straight trunk; 5' minimum crotch height	Chionanthus virginicus, Magnolia grandiflora "Little Gem", Ilex x attenuata "Savannah"	50
		719-01-02060	2 1/2" min. caliper; 2" min. d.b.h.; 10 ft. tall minimum; straight trunk; 5' minimum crotch height	Magnolia grandiflora "DD Blanchard", Quercus virginiana	240
				Total	290

NOTES:
1) ITEMS IN TABLES ON THIS PAGE TO BE PAID FOR BY SRP STIMULUS ENHANCEMENT FUNDING.

2) ACTUAL LOCATIONS SHALL BE DETERMINED BY THE PROJECT ENGINEER IN THE FIELD.

STATE OF LOUISIANA
Blake S. Roussel
REG. No. 33279
REGISTERED
PROFESSIONAL ENGINEER
CIVIL ENGINEER
5/7/09

I-99

Stanley Consultants, Inc.

LEON C. SIMON ST. BERNARD
MIRABEAU PARIS
FILMORE ELYSIAN FIELDS

LANDSCAPING SUMMARY TABLE

NO.	DATE	REVISION DESCRIPTION

DESIGNED	BSR	PARISH	ORLEANS
CHECKED	JRS		
DETAILED	BSR	FEDERAL PROJECT	
CHECKED	JRS		
DATE	MAY 2009	STATE PROJECT	

SHEET 359

LEON C. SIMON BLVD.

SHARED LANE

STATION	OFFSET (FEET)	SIDE OF ℄	PAVEMENT MARKING		SIGN (TYPE A) BICYCLE ROUTE D11-1 (MOD)	U-CHANNEL POST
			BIKE	CHEVRON (4" SOLID WHITE STRIPE)		
			732-04-02000	732-01-01000	729-01-00100	729-21-00100
			EACH	LF	SF	EACH
106+97	67	RT	1	10		
106+97	82	RT			4	1
109+90	67	RT	1	10		
109+90	81	RT			4	1
110+13	67	LT	1	10		
110+13	81	LT			4	1
112+55	68	RT	1	10		
112+55	84	RT			4	1
114+14	62	LT	1	10		
114+14	77	LT			4	1
115+88	57	RT	1	10		
115+88	72	RT			4	1
116+66	50	LT	1	10		
116+66	64	LT			4	1
118+38	49	RT	1	10		
118+38	63	RT			4	1
118+83	43	LT	1	10		
118+83	58	LT			4	1
120+55	44	LT	1	10		
120+55	58	LT			4	1
120+75	44	RT	1	10		
120+75	58	RT			4	1
122+97	44	LT	1	10		
122+97	58	LT			4	1
SUBTOTAL 1			12	120	48	12

* REFER TO BICYCLE ROUTE SIGNAGE AND PAVEMENT MARKING DETAIL SHEETS 104-105.

LEON C. SIMON BLVD. (CONT'D)

SHARED LANE

STATION	OFFSET (FEET)	SIDE OF ℄	PAVEMENT MARKING		SIGN (TYPE A) BICYCLE ROUTE D11-1 (MOD)	U-CHANNEL POST
			BIKE	CHEVRON (4" SOLID WHITE STRIPE)		
			732-04-02000	732-01-01000	729-01-00100	729-21-00100
			EACH	LF	SF	EACH
124+13	44	RT	1	10		
124+13	58	RT			4	1
126+56	44	LT	1	10		
126+56	58	LT			4	1
127+43	44	RT	1	10		
127+43	58	RT			4	1
129+59	44	LT	1	10		
129+59	58	LT			4	1
SUBTOTAL 2			4	40	16	4
SUBTOTAL 1			12	120	48	12
SUBTOTAL 2			4	40	16	4
TOTAL			16	160	64	16

* REFER TO BICYCLE ROUTE SIGNAGE AND PAVEMENT MARKING DETAIL SHEETS 104-105.

NOTES:

1. STRIPING PLAN SHEETS DO NOT SHOW THE 6" STRIPE FOR DEDICATED BIKE LANES. (SEE TYPICAL SECTIONS)
2. TYPICALLY, THE CENTER OF THE PAVEMENT MARKING SYMBOL SHOULD BE PLACED 11' FROM THE CURB (PER TYPICAL 8' PARKING LANE AREAS) FOR SHARED USE BIKE LANES OR IN THE CENTER OF THE DEDICATED BIKE LANE.

STATE OF LOUISIANA
NICHOLAS J. OLIVIER
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PROFESSIONAL ENGINEER
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5/6/09

CIVIL DESIGN & CONSTRUCTION INC.

LEON C SIMON BLVD.

STRIPING & SIGNAGE DETAILS

NO.	DATE	REVISION DESCRIPTION	BY

DESIGNED / CHECKED	NJO / KEW	PARISH	ORLEANS
DETAILED / CHECKED	NJO / KEW	FEDERAL PROJECT	ER-ERP1(048)
DATE / SHEET	APRIL 2009 / 1 of 12	STATE PROJECT	704-36-0032

SHEET NUMBER 3hhh

MIRABEAU AVE.

DEDICATED BIKE LANE

STATION	OFFSET (FEET)	SIDE OF ℄	PAVEMENT MARKING		SIGN (TYPE A) BICYCLE LANE R3-17	U-CHANNEL POST
			BIKE	ARROW		
			732-04-02000	732-04-01020	729-01-00100	729-21-00100
			EACH	EACH	SF	EACH
10+05	45	RT	1	1		
10+05	58	RT			5	1
10+45	45	LT	1	1		
10+45	58	LT			5	1
13+55	45	LT	1	1		
13+55	58	LT			5	1
13+55	45	RT	1	1		
13+55	58	RT			5	1
16+48	45	LT	1	1		
16+48	58	LT			5	1
17+20	45	RT	1	1		
17+20	58	RT			5	1
19+48	45	LT	1	1		
19+48	58	LT			5	1
20+64	45	RT	1	1		
20+64	58	RT			5	1
21+40	45	LT	1	1		
21+40	58	LT			5	1
24+39	45	RT	1	1		
24+39	58	RT			5	1
25+00	45	LT	1	1		
25+00	58	LT			5	1
27+00	45	RT	1	1		
27+00	58	RT			5	1
SUBTOTAL 1			12	12	60	12

* REFER TO BICYCLE ROUTE SIGNAGE AND PAVEMENT MARKING DETAIL SHEETS 104-105.

MIRABEAU AVE. (CONT'D)

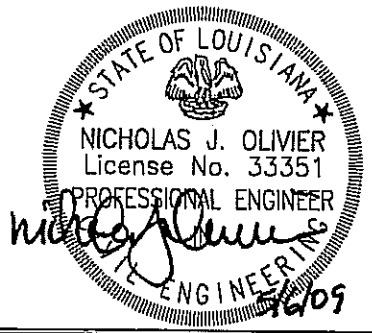
DEDICATED BIKE LANE

STATION	OFFSET (FEET)	SIDE OF ℄	PAVEMENT MARKING		SIGN (TYPE A) BICYCLE LANE R3-17	U-CHANNEL POST
			BIKE	ARROW		
			732-04-02000	732-04-01020	729-01-00100	729-21-00100
			EACH	EACH	SF	EACH
28+42	45	LT	1	1		
28+42	58	LT			5	1
29+35	45	RT	1	1		
29+35	58	RT			5	1
31+36	45	LT	1	1		
31+36	58	LT			5	1
33+10	45	RT	1	1		
33+10	58	RT			5	1
34+36	45	LT	1	1		
34+36	58	LT			5	1
36+16	44	RT	1	1		
36+16	57	RT			5	1
37+56	35	LT	1	1		
37+56	50	LT			5	1
40+00	43	RT	1	1		
40+00	56	RT			5	1
40+68	35	LT	1	1		
40+68	50	LT			5	1
43+90	35	LT	1	1		
43+90	50	LT			5	1
43+90	43	RT	1	1		
43+90	56	RT			5	1
47+00	35	LT	1	1		
47+00	50	LT			5	1
SUBTOTAL 2			12	12	60	12

* REFER TO BICYCLE ROUTE SIGNAGE AND PAVEMENT MARKING DETAIL SHEETS 104-105.

NOTES:

1. STRIPING PLAN SHEETS DO NOT SHOW THE 6" STRIPE FOR DEDICATED BIKE LANES. (SEE TYPICAL SECTIONS)
2. TYPICALLY, THE CENTER OF THE PAVEMENT MARKING SYMBOL SHOULD BE PLACED 11' FROM THE CURB (PER TYPICAL 8' PARKING LANE AREAS) FOR SHARED USE BIKE LANES OR IN THE CENTER OF THE DEDICATED BIKE LANE.



CIVIL DESIGN & CONSTRUCTION INC.

DOTD

MIRABEAU AVENUE

STRIPING & SIGNAGE DETAILS

NO.	DATE	REVISION DESCRIPTION

DESIGNED / CHECKED	NJO / KEW	PARISH	ORLEANS
DETAILED / CHECKED	NJO / KEW	FEDERAL PROJECT	ER-ERP1(050)
DATE / SHEET	APRIL 2009	STATE PROJECT	704-36-0034

SHEET NUMBER 311

MIRABEAU AVE. (CONT'D)

DEDICATED BIKE LANE

STATION	OFFSET (FEET)	SIDE OF ℄	PAVEMENT MARKING		SIGN (TYPE A) BICYCLE LANE R3-17	U-CHANNEL POST
			BIKE	ARROW		
			732-04-02000	732-04-01020	729-01-00100	729-21-00100
			EACH	EACH	SF	EACH
54+16	36	RT	1	1		
54+16	50	RT			5	1
56+66	32	LT	1	1		
56+66	45	LT			5	1
56+66	36	RT	1	1		
56+66	50	RT			5	1
59+15	32	LT	1	1		
59+15	45	LT			5	1
59+15	36	RT	1	1		
59+15	50	RT			5	1
61+75	32	LT	1	1		
61+75	45	LT			5	1
62+80	36	RT	1	1		
62+80	50	RT			5	1
65+19	39	LT	1	1		
65+19	52	LT			5	1
66+83	41	RT	1	1		
66+83	54	RT			5	1
69+06	33	LT	1	1		
69+06	46	LT			5	1
70+13	37	RT	1	1		
70+13	50	RT			5	1
72+64	33	LT	1	1		
72+64	46	LT			5	1
SUBTOTAL 3			12	12	60	12

* REFER TO BICYCLE ROUTE SIGNAGE AND PAVEMENT MARKING DETAIL SHEETS 104-105.

MIRABEAU AVE. (CONT'D)

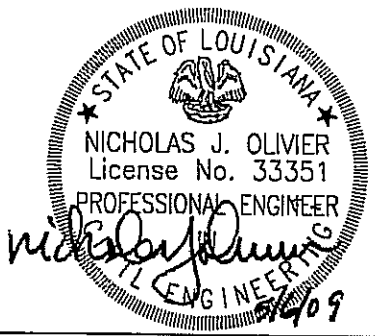
DEDICATED BIKE LANE

STATION	OFFSET (FEET)	SIDE OF ℄	PAVEMENT MARKING		SIGN (TYPE A) BICYCLE LANE R3-17	U-CHANNEL POST
			BIKE	ARROW		
			732-04-02000	732-04-01020	729-01-00100	729-21-00100
			EACH	EACH	SF	EACH
73+74	37	RT	1	1		
73+74	50	RT			5	1
76+15	33	LT	1	1		
76+15	46	LT			5	1
77+28	37	RT	1	1		
77+28	50	RT			5	1
79+99	33	LT	1	1		
79+99	46	LT			5	1
SUBTOTAL 4			4	4	20	4
SUBTOTAL 1			12	12	60	12
SUBTOTAL 2			12	12	60	12
SUBTOTAL 3			12	12	60	12
SUBTOTAL 4			4	4	20	4
TOTAL			40	40	200	40

* REFER TO BICYCLE ROUTE SIGNAGE AND PAVEMENT MARKING DETAIL SHEETS 104-105.

NOTES:

1. STRIPING PLAN SHEETS DO NOT SHOW THE 6" STRIPE FOR DEDICATED BIKE LANES. (SEE TYPICAL SECTIONS)
2. TYPICALLY, THE CENTER OF THE PAVEMENT MARKING SYMBOL SHOULD BE PLACED 11' FROM THE CURB (PER TYPICAL 8' PARKING LANE AREAS) FOR SHARED USE BIKE LANES OR IN THE CENTER OF THE DEDICATED BIKE LANE.



CIVIL DESIGN & CONSTRUCTION INC.

MIRABEAU AVENUE

STRIPING & SIGNAGE DETAILS

NO.	DATE	REVISION DESCRIPTION	BY

DESIGNED / CHECKED	NJO / KEW	PARISH	ORLEANS
DETAILED / CHECKED	NJO / KEW	FEDERAL PROJECT	ER-ERP1(050)
DATE / SHEET	APRIL 2009 / 3 of 12	STATE PROJECT	704-36-0034

SHEET NUMBER 311

J:\PROJECTS\08-4626 New Orleans Roads Grp 6\Drawings\Revised ARRA 042809\Filmore Ave\08-4626 Filmore Pavement Marking and Signage Table.dwg

FILMORE AVE.

DEDICATED BIKE LANE

STATION	OFFSET (FEET)	SIDE OF ℄	PAVEMENT MARKING		SIGN (TYPE A) BICYCLE LANE R3-17	U-CHANNEL POST
			BIKE	ARROW		
			732-04-02000	732-04-01020	729-01-00100	729-21-00100
			EACH	EACH	SF	EACH
101+07	40	RT	1	1		
101+07	54	RT			5	1
102+74	40	LT	1	1		
102+74	54	LT			5	1
104+00	40	RT	1	1		
104+00	54	RT			5	1
105+74	40	LT	1	1		
105+74	54	LT			5	1
107+00	40	RT	1	1		
107+00	54	RT			5	1
108+74	40	LT	1	1		
108+74	54	LT			5	1
109+92	40	RT	1	1		
109+92	54	RT			5	1
111+58	40	LT	1	1		
111+58	54	LT			5	1
113+00	40	RT	1	1		
113+00	54	RT			5	1
114+58	40	LT	1	1		
114+58	54	LT			5	1
115+80	40	RT	1	1		
115+80	54	RT			5	1
117+58	40	LT	1	1		
117+58	54	LT			5	1
SUBTOTAL 1			12	12	60	12

* REFER TO BICYCLE ROUTE SIGNAGE AND PAVEMENT MARKING DETAIL SHEETS 104-105.

FILMORE AVE. (CONT'D)

DEDICATED BIKE LANE

STATION	OFFSET (FEET)	SIDE OF ℄	PAVEMENT MARKING		SIGN (TYPE A) BICYCLE LANE R3-17	U-CHANNEL POST
			BIKE	ARROW		
			732-04-02000	732-04-01020	729-01-00100	729-21-00100
			EACH	EACH	SF	EACH
118+58	40	RT	1	1		
118+58	54	RT			5	1
120+30	40	LT	1	1		
120+30	54	LT			5	1
122+08	40	RT	1	1		
122+08	54	RT			5	1
123+46	40	LT	1	1		
123+46	54	LT			5	1
125+36	40	RT	1	1		
125+36	54	RT			5	1
127+30	40	LT	1	1		
127+30	54	LT			5	1
128+30	40	RT	1	1		
128+30	54	RT			5	1
130+30	40	LT	1	1		
130+30	54	LT			5	1
131+33	40	RT	1	1		
131+33	54	RT			5	1
133+30	40	LT	1	1		
133+30	54	LT			5	1
134+30	40	RT	1	1		
134+30	54	RT			5	1
146+32	41	RT	1	1		
146+32	55	RT			5	1
SUBTOTAL 2			12	12	60	12

* REFER TO BICYCLE ROUTE SIGNAGE AND PAVEMENT MARKING DETAIL SHEETS 104-105.

NOTES:

1. STRIPING PLAN SHEETS DO NOT SHOW THE 6" STRIPE FOR DEDICATED BIKE LANES. (SEE TYPICAL SECTIONS)
2. TYPICALLY, THE CENTER OF THE PAVEMENT MARKING SYMBOL SHOULD BE PLACED 11' FROM THE CURB (PER TYPICAL 8' PARKING LANE AREAS) FOR SHARED USE BIKE LANES OR IN THE CENTER OF THE DEDICATED BIKE LANE.

STATE OF LOUISIANA
NICHOLAS J. OLIVIER
License No. 33351
PROFESSIONAL ENGINEER
IN ENGINEERING
5/4/09

CIVIL DESIGN & CONSTRUCTION INC.

DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT dotd

FILMORE AVENUE

STRIPING & SIGNAGE DETAILS

NO.	DATE	REVISION DESCRIPTION	BY

DESIGNED	NJO	PARISH	ORLEANS
CHECKED	KEW		
DETAILED	NJO	FEDERAL PROJECT	ER-ERP1(051)
CHECKED	KEW		
DATE SHEET	APRIL 2009 4 of 12	STATE PROJECT	704-36-0035

SHEET NUMBER 3kkk

FILMORE AVE. (CONT'D)

DEDICATED BIKE LANE

STATION	OFFSET (FEET)	SIDE OF ℄	PAVEMENT MARKING		SIGN (TYPE A) BICYCLE LANE R3-17	U-CHANNEL POST
			BIKE	ARROW		
			732-04-02000	732-04-01020	729-01-00100	729-21-00100
			EACH	EACH	SF	EACH
146+78	39	LT	1	1		
146+78	53	LT			5	1
149+25	39	LT	1	1		
149+25	53	LT			5	1
149+25	41	RT	1	1		
149+25	55	RT			5	1
151+79	39	LT	1	1		
151+79	53	LT			5	1
152+33	42	RT	1	1		
152+33	56	RT			5	1
154+30	38	LT	1	1		
154+30	52	LT			5	1
156+00	42	RT	1	1		
156+00	56	RT			5	1
158+28	38	LT	1	1		
158+28	52	LT			5	1
159+80	42	RT	1	1		
159+80	56	RT			5	1
161+73	38	LT	1	1		
161+73	52	LT			5	1
163+33	42	RT	1	1		
163+33	56	RT			5	1
165+24	38	LT	1	1		
165+24	52	LT			5	1
SUBTOTAL 3			12	12	60	12

* REFER TO BICYCLE ROUTE SIGNAGE AND PAVEMENT MARKING DETAIL SHEETS 104-105.

FILMORE AVE. (CONT'D)

DEDICATED BIKE LANE

STATION	OFFSET (FEET)	SIDE OF ℄	PAVEMENT MARKING		SIGN (TYPE A) BICYCLE LANE R3-17	U-CHANNEL POST
			BIKE	ARROW		
			732-04-02000	732-04-01020	729-01-00100	729-21-00100
			EACH	EACH	SF	EACH
166+84	42	RT	1	1		
166+84	56	RT			5	1
169+13	38	LT	1	1		
169+13	52	LT			5	1
SUBTOTAL 4			2	2	10	2
SUBTOTAL 1			12	12	60	12
SUBTOTAL 2			12	12	60	12
SUBTOTAL 3			12	12	60	12
SUBTOTAL 4			2	2	10	2
TOTAL			38	38	190	38

* REFER TO BICYCLE ROUTE SIGNAGE AND PAVEMENT MARKING DETAIL SHEETS 104-105.

NOTES:

1. STRIPING PLAN SHEETS DO NOT SHOW THE 6" STRIPE FOR DEDICATED BIKE LANES. (SEE TYPICAL SECTIONS)
2. TYPICALLY, THE CENTER OF THE PAVEMENT MARKING SYMBOL SHOULD BE PLACED 11' FROM THE CURB (PER TYPICAL 8' PARKING LANE AREAS) FOR SHARED USE BIKE LANES OR IN THE CENTER OF THE DEDICATED BIKE LANE.

STATE OF LOUISIANA
NICHOLAS J. OLIVIER
License No. 33351
PROFESSIONAL ENGINEER
IN ENGINEERING
5/6/09

CIVIL DESIGN & CONSTRUCTION INC.

DOTD

FILMORE AVENUE

STRIPING & SIGNAGE DETAILS

NO.	DATE	REVISION DESCRIPTION	BY

DESIGNED / CHECKED	NJD / KEW	PARISH	ORLEANS
DETAILED / CHECKED	NJD / KEW	FEDERAL PROJECT	ER-ERP1(051)
DATE / SHEET	APRIL 2009 / 5 of 12	STATE PROJECT	704-36-0035

SHEET NUMBER 311

Z:\PROJECTS\08-4626 New Orleans Roads Grp 6\Drawings\Revised ARRA 042809\St Bernard Ave\08-4626 St Bernard Pavement Marking and Signage Table.dwg

ST. BERNARD AVE.

DEDICATED BIKE LANE

STATION	OFFSET (FEET)	SIDE OF ℄	PAVEMENT MARKING		SIGN (TYPE A) BICYCLE LANE R3-17	U-CHANNEL POST
			BIKE	ARROW		
			732-04-02000	732-04-01020	729-01-00100	729-21-00100
			EACH	EACH	SF	EACH
138+00	33	RT	1	1		
138+00	45	RT			5	1
140+00	33	LT	1	1		
140+00	45	LT			5	1
142+00	33	RT	1	1		
142+00	45	RT			5	1
142+67	33	LT	1	1		
142+67	45	LT			5	1
145+00	33	LT	1	1		
145+00	45	LT			5	1
146+00	33	RT	1	1		
146+00	45	RT			5	1
148+78	33	LT	1	1		
148+78	45	LT			5	1
150+00	33	RT	1	1		
150+00	45	RT			5	1
151+87	33	LT	1	1		
151+87	45	LT			5	1
153+68	33	LT	1	1		
153+68	45	LT			5	1
153+68	33	RT	1	1		
153+68	45	RT			5	1
157+00	33	LT	1	1		
157+00	45	LT			5	1
157+63	33	RT	1	1		
157+63	45	RT			5	1
160+62	33	RT	1	1		
160+62	45	RT			5	1
161+00	33	LT	1	1		
161+00	45	LT			5	1
163+35	33	RT	1	1		
163+35	45	RT			5	1
165+00	33	LT	1	1		
SUBTOTAL 1			17	17	80	16

* REFER TO BICYCLE ROUTE SIGNAGE AND PAVEMENT MARKING DETAIL SHEETS 104-105.

ST. BERNARD AVE. (CONT'D)

DEDICATED BIKE LANE

STATION	OFFSET (FEET)	SIDE OF ℄	PAVEMENT MARKING		SIGN (TYPE A) BICYCLE LANE R3-17	U-CHANNEL POST
			BIKE	ARROW		
			732-04-02000	732-04-01020	729-01-00100	729-21-00100
			EACH	EACH	SF	EACH
165+00	45	LT			5	1
166+00	33	RT	1	1		
166+00	45	RT			5	1
168+00	33	LT	1	1		
168+00	45	LT			5	1
170+00	33	RT	1	1		
170+00	45	RT			5	1
171+00	36	LT	1	1		
171+00	45	LT			5	1
173+00	37	RT	1	1		
173+00	50	RT			5	1
173+50	44	LT	1	1		
173+50	54	LT			5	1
175+82	45	RT	1	1		
175+82	57	RT			5	1
177+00	45	LT	1	1		
177+00	57	LT			5	1
178+00	45	RT	1	1		
178+00	57	RT			5	1
SUBTOTAL 2			9	9	50	10
SUBTOTAL 1			17	17	80	16
SUBTOTAL 2			9	9	50	10
TOTAL			26	26	130	26

* REFER TO BICYCLE ROUTE SIGNAGE AND PAVEMENT MARKING DETAIL SHEETS 104-105.

NOTES:

1. STRIPING PLAN SHEETS DO NOT SHOW THE 6" STRIPE FOR DEDICATED BIKE LANES. (SEE TYPICAL SECTIONS)
2. TYPICALLY, THE CENTER OF THE PAVEMENT MARKING SYMBOL SHOULD BE PLACED 11' FROM THE CURB (PER TYPICAL 8' PARKING LANE AREAS) FOR SHARED USE BIKE LANES OR IN THE CENTER OF THE DEDICATED BIKE LANE.

STATE OF LOUISIANA
NICHOLAS J. OLIVIER
License No. 33351
PROFESSIONAL ENGINEER
CIVIL ENGINEERING
5/2/09

CIVIL DESIGN & CONSTRUCTION INC.

DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT DOTD

ST. BERNARD AVENUE

STRIPING & SIGNAGE DETAILS

STATE OF LOUISIANA

NO.	DATE	REVISION DESCRIPTION	BY

DESIGNED / CHECKED	NJO / KEW	PARISH	ORLEANS
DETAILED / CHECKED	NJO / KEW	FEDERAL PROJECT	ER-ERP1(052)
DATE / SHEET	APRIL 2009 / 8 of 12	STATE PROJECT	704-36-0036

SHEET NUMBER 3mmi

ST. BERNARD AVE. (CONT'D)

SHARED LANE

STATION	OFFSET (FEET)	SIDE OF ℄	PAVEMENT MARKING		SIGN (TYPE A) BICYCLE ROUTE D11-1 (MOD)	U-CHANNEL POST
			BIKE	CHEVRON (4" SOLID WHITE STRIPE)		
			732-04-02000	732-01-01000	729-01-00100	729-21-00100
			EACH	LF	SF	EACH
180+22	45	RT	1	10		
180+22	57	RT			4	1
181+00	39	LT	1	10		
181+00	53	LT			4	1
183+20	31	LT	1	10		
183+20	45	LT			4	1
183+82	30	RT	1	10		
183+82	44	RT			4	1
187+20	30	LT	1	10		
187+20	44	LT			4	1
187+82	30	RT	1	10		
187+82	44	RT			4	1
190+50	30	RT	1	10		
190+50	44	RT			4	1
190+20	30	LT	1	10		
191+20	44	LT			4	1
193+00	30	RT	1	10		
193+00	44	RT			4	1
195+20	30	LT	1	10		
195+20	44	LT			4	1
SUBTOTAL 1			10	100	40	10

* REFER TO BICYCLE ROUTE SIGNAGE AND PAVEMENT MARKING DETAIL SHEETS 104-105.

ST. BERNARD AVE. (CONT'D)

SHARED LANE

STATION	OFFSET (FEET)	SIDE OF ℄	PAVEMENT MARKING		SIGN (TYPE A) BICYCLE ROUTE D11-1 (MOD)	U-CHANNEL POST
			BIKE	CHEVRON (4" SOLID WHITE STRIPE)		
			732-04-02000	732-01-01000	729-01-00100	729-21-00100
			EACH	LF	SF	EACH
195+87	30	RT	1	10		
195+87	44	RT			4	1
198+26	30	LT	1	10		
198+26	44	LT			4	1
199+87	34	RT	1	10		
199+87	44	RT			4	1
201+00	34	LT	1	10		
201+00	44	LT			4	1
202+00	34	RT	1	10		
202+00	44	RT			4	1
203+12	34	LT	1	10		
203+12	44	LT			4	1
SUBTOTAL 2			6	60	24	6
SUBTOTAL 1			10	100	40	10
SUBTOTAL 2			6	60	24	6
TOTAL			16	160	64	16

* REFER TO BICYCLE ROUTE SIGNAGE AND PAVEMENT MARKING DETAIL SHEETS 104-105.

NOTES:

1. STRIPING PLAN SHEETS DO NOT SHOW THE 6" STRIPE FOR DEDICATED BIKE LANES. (SEE TYPICAL SECTIONS)
2. TYPICALLY, THE CENTER OF THE PAVEMENT MARKING SYMBOL SHOULD BE PLACED 11' FROM THE CURB (PER TYPICAL 8' PARKING LANE AREAS) FOR SHARED USE BIKE LANES OR IN THE CENTER OF THE DEDICATED BIKE LANE.

STATE OF LOUISIANA
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8/4/09

CIVIL DESIGN & CONSTRUCTION INC.

DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT — DOTD

ST. BERNARD AVENUE

STRIPING & SIGNAGE DETAILS

NO.	DATE	REVISION DESCRIPTION	BY

DESIGNED / CHECKED	NJO / KEW	PARISH	ORLEANS
DETAILED / CHECKED	NJO / KEW	FEDERAL PROJECT	ER-ERP1(052)
DATE / SHEET	APRIL 2009 / 7 of 12	STATE PROJECT	704-36-0036

SHEET NUMBER 3nnn

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PARIS AVE.

SHARED LANE

STATION	OFFSET (FEET)	SIDE OF ℄	PAVEMENT MARKING		SIGN (TYPE A) BICYCLE ROUTE D11-1 (MOD)	U-CHANNEL POST
			BIKE	CHEVRON (4" SOLID WHITE STRIPE)		
			732-04-02000	732-01-01000	729-01-00100	729-21-00100
			EACH	LF	SF	EACH
103+22	42	RT	1	10		
103+22	55	RT			4	1
105+58	42	LT	1	10		
105+58	55	LT			4	1
106+70	41	RT	1	10		
106+70	55	RT			4	1
109+00	41	LT	1	10		
109+00	55	LT			4	1
110+32	41	RT	1	10		
110+32	55	RT			4	1
113+04	41	LT	1	10		
113+04	55	LT			4	1
114+08	41	RT	1	10		
114+08	55	RT			4	1
116+73	41	LT	1	10		
116+73	55	LT			4	1
117+73	41	RT	1	10		
117+73	55	RT			4	1
120+43	41	LT	1	10		
120+43	55	LT			4	1
121+46	41	RT	1	10		
121+46	55	RT			4	1
124+12	41	LT	1	10		
124+12	55	LT			4	1
SUBTOTAL 1			12	120	48	12

* REFER TO BICYCLE ROUTE SIGNAGE AND PAVEMENT MARKING DETAIL SHEETS 104-105.

PARIS AVE. (CONT'D)

SHARED LANE

STATION	OFFSET (FEET)	SIDE OF ℄	PAVEMENT MARKING		SIGN (TYPE A) BICYCLE ROUTE D11-1 (MOD)	U-CHANNEL POST
			BIKE	CHEVRON (4" SOLID WHITE STRIPE)		
			732-04-02000	732-01-01000	729-01-00100	729-21-00100
			EACH	LF	SF	EACH
125+15	41	RT	1	10		
125+15	55	RT			4	1
127+73	41	LT	1	10		
127+73	55	LT			4	1
128+00	41	RT	1	10		
128+00	55	RT			4	1
130+20	41	RT	1	10		
130+20	55	RT			4	1
131+48	41	LT	1	10		
131+48	55	LT			4	1
132+66	41	RT	1	10		
132+66	55	RT			4	1
134+93	41	RT	1	10		
134+93	55	RT			4	1
135+15	41	LT	1	10		
135+15	55	LT			4	1
137+84	42	LT	1	10		
137+84	58	LT			4	1
138+25	43	RT	1	10		
138+25	57	RT			4	1
140+09	44	LT	1	10		
140+09	58	LT			4	1
140+72	44	RT	1	10		
140+72	58	RT			4	1
SUBTOTAL 2			12	120	48	12

* REFER TO BICYCLE ROUTE SIGNAGE AND PAVEMENT MARKING DETAIL SHEETS 104-105.

NOTES:

1. STRIPING PLAN SHEETS DO NOT SHOW THE 6" STRIPE FOR DEDICATED BIKE LANES. (SEE TYPICAL SECTIONS)
2. TYPICALLY, THE CENTER OF THE PAVEMENT MARKING SYMBOL SHOULD BE PLACED 11' FROM THE CURB (PER TYPICAL 8' PARKING LANE AREAS) FOR SHARED USE BIKE LANES OR IN THE CENTER OF THE DEDICATED BIKE LANE.

STATE OF LOUISIANA
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5/2/09

CIVIL DESIGN & CONSTRUCTION INC.

DOTD DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT

PARIS AVENUE

STRIPING & SIGNAGE DETAILS

NO.	DATE	REVISION DESCRIPTION	BY

DESIGNED / CHECKED	NJO / KEW	PARISH	ORLEANS
DETAILED / CHECKED	NJO / KEW	FEDERAL PROJECT	ER-ERP1(053)
DATE / SHEET	APRIL 2009 / 8 of 12	STATE PROJECT	704-36-0037

SHEET NUMBER 300C

PARIS AVE. (CONT'D)

SHARED LANE

STATION	OFFSET (FEET)	SIDE OF ℄	PAVEMENT MARKING		SIGN (TYPE A) BICYCLE ROUTE D11-1 (MOD)	U-CHANNEL POST
			BIKE	CHEVRON (4" SOLID WHITE STRIPE)		
			732-04-02000	732-01-01000	729-01-00100	729-21-00100
			EACH	LF	SF	EACH
142+46	44	LT	1	10		
142+46	58	LT			4	1
144+60	44	RT	1	10		
144+60	58	RT			4	1
145+00	44	LT	1	10		
145+00	58	LT			4	1
147+56	44	LT	1	10		
147+56	58	LT			4	1
147+75	44	RT	1	10		
147+75	58	RT			4	1
150+00	44	LT	1	10		
150+00	58	LT			4	1
151+75	44	RT	1	10		
151+75	58	RT			4	1
152+61	44	LT	1	10		
152+61	58	LT			4	1
154+59	44	LT	1	10		
154+59	58	LT			4	1
155+38	44	RT	1	10		
155+38	58	RT			4	1
157+39	44	LT	1	10		
157+39	58	LT			4	1
SUBTOTAL 3			11	110	44	11
SUBTOTAL 1			12	120	48	12
SUBTOTAL 2			12	120	48	12
SUBTOTAL 3			11	110	44	11
TOTAL			35	350	140	35

* REFER TO BICYCLE ROUTE SIGNAGE AND PAVEMENT MARKING DETAIL SHEETS 104-105.

NOTES:

1. STRIPING PLAN SHEETS DO NOT SHOW THE 6" STRIPE FOR DEDICATED BIKE LANES. (SEE TYPICAL SECTIONS)

2. TYPICALLY, THE CENTER OF THE PAVEMENT MARKING SYMBOL SHOULD BE PLACED 11' FROM THE CURB (PER TYPICAL 8' PARKING LANE AREAS) FOR SHARED USE BIKE LANES OR IN THE CENTER OF THE DEDICATED BIKE LANE.

STATE OF LOUISIANA
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5/6/09

:\PROJECTS\08-4626 New Orleans Roads Grp 6\Drawings\Revised ARRA 042809\Elysian Fields Ave\08-4626 Elysian Fields Pavement Marking and Signage Table.dwg

ELYSIAN FILEDS AVE.

SHARED LANE

STATION	OFFSET (FEET)	SIDE OF ℄	PAVEMENT MARKING		SIGN (TYPE A) BICYCLE ROUTE D11-1 (MOD)	U-CHANNEL POST
			BIKE	CHEVRON (4" SOLID WHITE STRIPE)		
			732-04-02000	732-01-01000	729-01-00100	729-21-00100
			EACH	LF	SF	EACH
103+00	69	LT	1	10		
103+00	74	LT			4	1
103+78	62	RT	1	10		
103+78	69	RT			4	1
106+66	69	LT	1	10		
106+66	74	LT			4	1
107+47	62	RT	1	10		
107+47	65	RT			4	1
110+16	60	LT	1	10		
110+16	74	LT			4	1
111+40	54	RT	1	10		
111+40	68	RT			4	1
113+61	60	LT	1	10		
113+61	74	LT			4	1
115+10	55	RT	1	10		
115+10	66	RT			4	1
117+57	59	LT	1	10		
117+57	73	LT			4	1
118+60	55	RT	1	10		
118+60	69	RT			4	1
121+27	59	LT	1	10		
121+27	73	LT			4	1
122+49	55	RT	1	10		
122+49	66	RT			4	1
SUBTOTAL 1			12	120	48	12

* REFER TO BICYCLE ROUTE SIGNAGE AND PAVEMENT MARKING DETAIL SHEETS 104-105.

ELYSIAN FIELDS AVE. (CONT'D)

SHARED LANE

STATION	OFFSET (FEET)	SIDE OF ℄	PAVEMENT MARKING		SIGN (TYPE A) BICYCLE ROUTE D11-1 (MOD)	U-CHANNEL POST
			BIKE	CHEVRON (4" SOLID WHITE STRIPE)		
			732-04-02000	732-01-01000	729-01-00100	729-21-00100
			EACH	LF	SF	EACH
124+85	59	LT	1	10		
124+85	73	LT			4	1
125+00	55	RT	1	10		
125+00	67	RT			4	1
127+49	55	RT	1	10		
127+49	69	RT			4	1
128+64	69	LT	1	10		
128+64	72	LT			4	1
130+50	55	RT	1	10		
130+50	70	RT			4	1
132+39	58	LT	1	10		
132+39	72	LT			4	1
134+04	56	RT	1	10		
134+04	70	RT			4	1
134+19	58	LT	1	10		
134+19	72	LT			4	1
136+63	72	LT	1	10		
136+79	59	LT			4	1
137+00	56	RT	1	10		
137+00	70	RT			4	1
140+36	57	RT	1	10		
140+36	70	RT			4	1
140+48	58	LT	1	10		
140+48	72	LT			4	1
SUBTOTAL 2			12	120	48	12

* REFER TO BICYCLE ROUTE SIGNAGE AND PAVEMENT MARKING DETAIL SHEETS 104-105.

NOTES:

1. STRIPING PLAN SHEETS DO NOT SHOW THE 6" STRIPE FOR DEDICATED BIKE LANES. (SEE TYPICAL SECTIONS)
2. TYPICALLY, THE CENTER OF THE PAVEMENT MARKING SYMBOL SHOULD BE PLACED 11' FROM THE CURB (PER TYPICAL 8' PARKING LANE AREAS) FOR SHARED USE BIKE LANES OR IN THE CENTER OF THE DEDICATED BIKE LANE.

STATE OF LOUISIANA
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5/12/09

CIVIL DESIGN & CONSTRUCTION INC.

ELYSIAN FIELDS AVENUE

STRIPING & SIGNAGE DETAILS

NO.	DATE	REVISION DESCRIPTION	BY

DESIGNED / CHECKED	NJO / KEW	PARISH	ORLEANS
DETAILED / CHECKED	NJO / KEW	FEDERAL PROJECT	ER-ERP1(054)
DATE / SHEET	APRIL 2009 / 10 of 12	STATE PROJECT	704-36-0038

SHEET NUMBER 3996

\PROJECTS\08-4626 New Orleans Roads Grp 6\Drawings\Revised ARRA 042809\Elysian Fields Ave\08-4626 Elysian Fields Pavement Marking and Signage Table.dwg

ELYSIAN FIELDS AVE. (CONT'D)

SHARED LANE

STATION	OFFSET (FEET)	SIDE OF ℄	PAVEMENT MARKING		SIGN (TYPE A) BICYCLE ROUTE D11-1 (MOD)	U-CHANNEL POST
			BIKE	CHEVRON (4" SOLID WHITE STRIPE)		
			732-04-02000	732-01-01000	729-01-00100	729-21-00100
			EACH	LF	SF	EACH
144+10	57	RT	1	10		
144+10	70	RT			4	1
144+19	58	LT	1	10		
144+19	71	LT			4	1
146+82	57	RT	1	10		
146+82	71	RT			4	1
147+87	57	LT	1	10		
147+87	71	LT			4	1
150+14	57	RT	1	10		
150+14	71	RT			4	1
152+00	73	LT	1	10		
152+00	87	LT			4	1
153+62	57	RT	1	10		
153+62	71	RT			4	1
156+00	84	LT	1	10		
156+00	97	LT			4	1
157+32	58	RT	1	10		
157+32	71	RT			4	1
159+62	83	LT	1	10		
159+62	96	LT			4	1
161+00	58	RT	1	10		
161+00	72	RT			4	1
163+56	82	LT	1	10		
163+56	96	LT			4	1
SUBTOTAL 3			12	120	48	12

* REFER TO BICYCLE ROUTE SIGNAGE AND PAVEMENT MARKING DETAIL SHEETS 104-105.

ELYSIAN FIELDS AVE. (CONT'D)

SHARED LANE

STATION	OFFSET (FEET)	SIDE OF ℄	PAVEMENT MARKING		SIGN (TYPE A) BICYCLE ROUTE D11-1 (MOD)	U-CHANNEL POST
			BIKE	CHEVRON (4" SOLID WHITE STRIPE)		
			732-04-02000	732-01-01000	729-01-00100	729-21-00100
			EACH	LF	SF	EACH
163+56	58	RT	1	10		
163+56	72	RT			4	1
165+40	58	RT	1	10		
165+40	72	RT			4	1
167+81	82	LT	1	10		
167+81	96	LT			4	1
169+18	59	RT	1	10		
169+18	73	RT			4	1
170+00	82	LT	1	10		
170+00	96	LT			4	1
172+88	58	RT	1	10		
172+88	72	RT			4	1
173+48	82	LT	1	10		
173+48	96	LT			4	1
175+00	82	LT	1	10		
175+00	95	LT			4	1
176+61	59	RT	1	10		
176+61	73	RT			4	1
179+00	81	LT	1	10		
179+00	95	LT			4	1
180+32	59	RT	1	10		
180+32	73	RT			4	1
182+76	81	LT	1	10		
182+76	95	LT			4	1
SUBTOTAL 4			12	120	48	12

* REFER TO BICYCLE ROUTE SIGNAGE AND PAVEMENT MARKING DETAIL SHEETS 104-105.

NOTES:

1. STRIPING PLAN SHEETS DO NOT SHOW THE 6" STRIPE FOR DEDICATED BIKE LANES. (SEE TYPICAL SECTIONS)
2. TYPICALLY, THE CENTER OF THE PAVEMENT MARKING SYMBOL SHOULD BE PLACED 11' FROM THE CURB (PER TYPICAL 8' PARKING LANE AREAS) FOR SHARED USE BIKE LANES OR IN THE CENTER OF THE DEDICATED BIKE LANE.

STATE OF LOUISIANA
NICHOLAS J. OLIVIER
License No. 33351
PROFESSIONAL ENGINEER
5/6/09

CIVIL DESIGN & CONSTRUCTION

DOTD

ELYSIAN FIELDS AVENUE

STRIPING & SIGNAGE DETAILS

NO.	DATE	REVISION DESCRIPTION

DESIGNED / CHECKED	NJD / KEW	PARISH	ORLEANS
DETAILED / CHECKED	NJD / KEW	FEDERAL PROJECT	ER-ERP1(054)
DATE / SHEET	APRIL 2009 / 11 of 12	STATE PROJECT	704-36-0038

SHEET NUMBER 377

:\PROJECTS\08-4626 New Orleans Roads Grp 6\Drawings\Revised ARRA 042809\Elysian Fields Ave\08-4626 Elysian Fields Pavement Marking and Signage Table.dwg

ELYSIAN FIELDS AVE. (CONT'D)

SHARED LANE

STATION	OFFSET (FEET)	SIDE OF ℄	PAVEMENT MARKING		SIGN (TYPE A) BICYCLE ROUTE D11-1 (MOD)	U-CHANNEL POST
			BIKE	CHEVRON (4" SOLID WHITE STRIPE)		
			732-04-02000	732-01-01000	729-01-00100	729-21-00100
			EACH	LF	SF	EACH
182+83	59	RT	1	10		
182+83	73	RT			4	1
184+72	59	RT	1	10		
184+72	73	RT			4	1
185+36	81	LT	1	10		
185+36	95	LT			4	1
187+24	81	LT	1	10		
187+24	95	LT			4	1
188+51	59	RT	1	10		
188+51	73	RT			4	1
190+54	95	LT	1	10		
190+92	81	LT			4	1
191+22	60	RT	1	10		
191+22	74	RT			4	1
192+79	60	RT	1	10		
192+79	74	RT			4	1
194+09	64	LT	1	10		
194+09	77	LT			4	1
196+18	65	RT	1	10		
196+18	78	RT			4	1
198+34	63	LT	1	10		
198+34	76	LT			4	1
199+24	65	RT	1	10		
199+24	79	RT			4	1
201+50	63	LT	1	10		
201+50	76	LT			4	1
203+22	65	RT	1	10		
203+22	79	RT			4	1
204+60	62	LT	1	10		
204+60	76	LT			4	1
SUBTOTAL 5			15	150	60	15

* REFER TO BICYCLE ROUTE SIGNAGE AND PAVEMENT MARKING DETAIL SHEETS 104-105.

ELYSIAN FIELDS AVE. (CONT'D)

SHARED LANE

STATION	OFFSET (FEET)	SIDE OF ℄	PAVEMENT MARKING		SIGN (TYPE A) BICYCLE ROUTE D11-1 (MOD)	U-CHANNEL POST
			BIKE	CHEVRON (4" SOLID WHITE STRIPE)		
			732-04-02000	732-01-01000	729-01-00100	729-21-00100
			EACH	LF	SF	EACH
204+60	66	RT	1	10		
204+60	79	RT			4	1
207+74	62	LT	1	10		
207+74	76	LT			4	1
208+00	65	RT	1	10		
208+00	79	RT			4	1
210+30	62	LT	1	10		
210+30	76	LT			4	1
212+00	62	RT	1	10		
212+00	79	RT			4	1
213+07	61	LT	1	10		
213+07	75	LT			4	1
SUBTOTAL 6			6	60	24	6
SUBTOTAL 1			12	120	48	12
SUBTOTAL 2			12	120	48	12
SUBTOTAL 3			12	120	48	12
SUBTOTAL 4			12	120	48	12
SUBTOTAL 5			15	150	60	15
SUBTOTAL 6			6	60	24	6
TOTAL			69	690	276	69

* REFER TO BICYCLE ROUTE SIGNAGE AND PAVEMENT MARKING DETAIL SHEETS 104-105.

NOTES:

1. STRIPING PLAN SHEETS DO NOT SHOW THE 6" STRIPE FOR DEDICATED BIKE LANES. (SEE TYPICAL SECTIONS)
2. TYPICALLY, THE CENTER OF THE PAVEMENT MARKING SYMBOL SHOULD BE PLACED 11' FROM THE CURB (PER TYPICAL 8' PARKING LANE AREAS) FOR SHARED USE BIKE LANES OR IN THE CENTER OF THE DEDICATED BIKE LANE.

STATE OF LOUISIANA
NICHOLAS J. OLIVIER
License No. 33351
PROFESSIONAL ENGINEER IN ENGINEERING
5/26/09

CIVIL DESIGN & CONSTRUCTION INC.

DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT — DOTD

ELYSIAN FIELDS AVENUE

STRIPING & SIGNAGE DETAILS

NO.	DATE	REVISION DESCRIPTION	BY

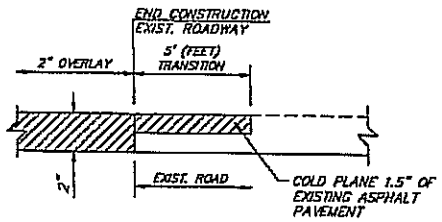
DESIGNED / CHECKED	NJO / KEW	PARISH	ORLEANS
DETAILED / CHECKED	NJO / KEW	FEDERAL PROJECT	ER-ERP1(054)
DATE / SHEET	APRIL 2009 / 12 of 12	STATE PROJECT	704-36-0038

SHEET NUMBER 3999

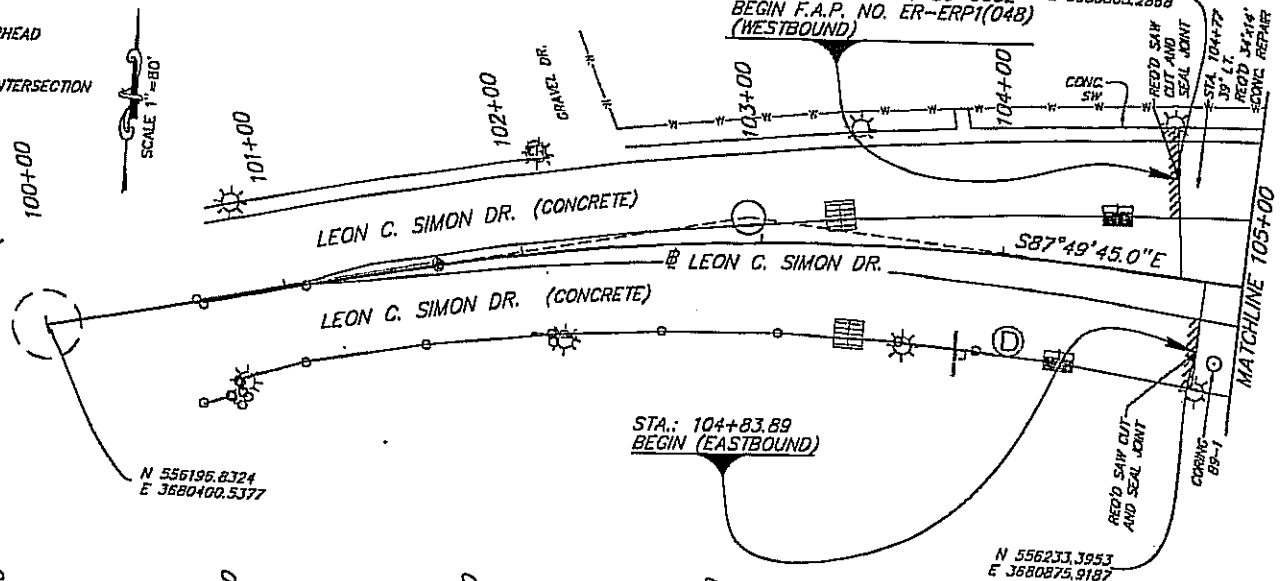
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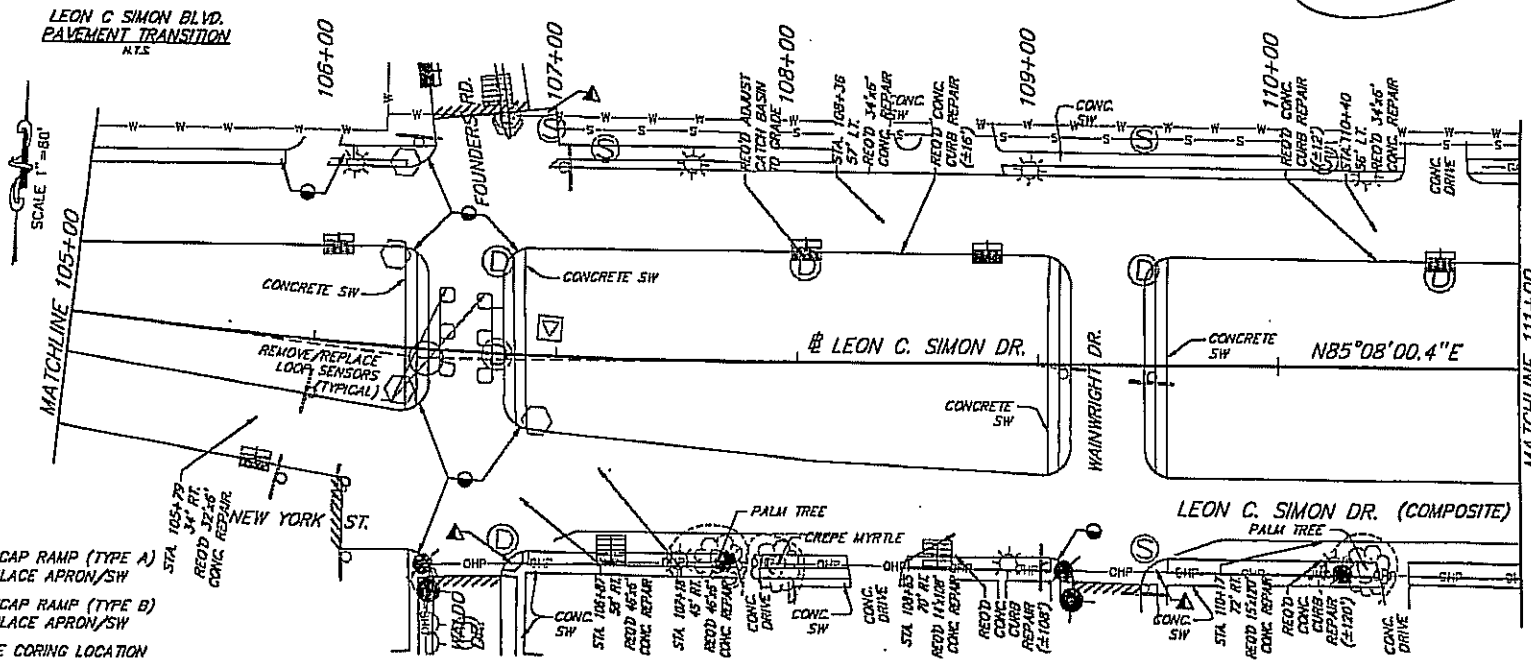
NOTES:

1. CONTRACTOR SHALL INSTALL AND MAINTAIN RAMPS FOR UTILITY STRUCTURES AND VERTICAL PAVEMENT FACES IN THE ROADWAYS TO MAINTAIN TRAFFIC BETWEEN MILLING AND OVERLAY OPERATIONS (NO DIRECT PAYMENT).
2. CONTRACTOR SHALL VERIFY HEIGHT CLEARANCE FOR TREE CANOPY AND OTHER OVERHEAD STRUCTURES PRIOR TO CONSTRUCTION. NOT ALL ARE SHOWN.
3. ONLY STRIPING WITHIN PROJECT LIMITS IS REQUIRED. STRIPING REQUIRED AT EACH INTERSECTION TO BE IN ACCORDANCE WITH N.O. DPW STD. 10.
4. UTILITIES HAVE BEEN LOCATED USING FIELD MARKINGS AND AS-BUILT INFORMATION. LOCATIONS TO BE FIELD VERIFIED BY CONTRACTOR. NOT ALL ARE SHOWN.
5. LIMITS OF CONSTRUCTION OF INTERSECTING STREETS ARE LOCATED AT THE BACK OF THE CURB RETURN POINTS OF TANGENCY UNLESS OTHERWISE DIRECTED BY THE PROJECT ENGINEER.
6. REPAIR LOCATIONS AND DIMENSIONS ARE APPROXIMATE AND SUBJECT TO CHANGE BY THE PROJECT ENGINEER.
7. ANY NECESSARY CURB AND SIDEWALK REMOVAL REQUIRED FOR ADA RAMP WORK TO MEET ADA REQUIREMENTS SHALL BE INCIDENTAL TO ADA RAMP ITEM.



LEON C SIMON BLVD. PAVEMENT TRANSITION N.T.S.





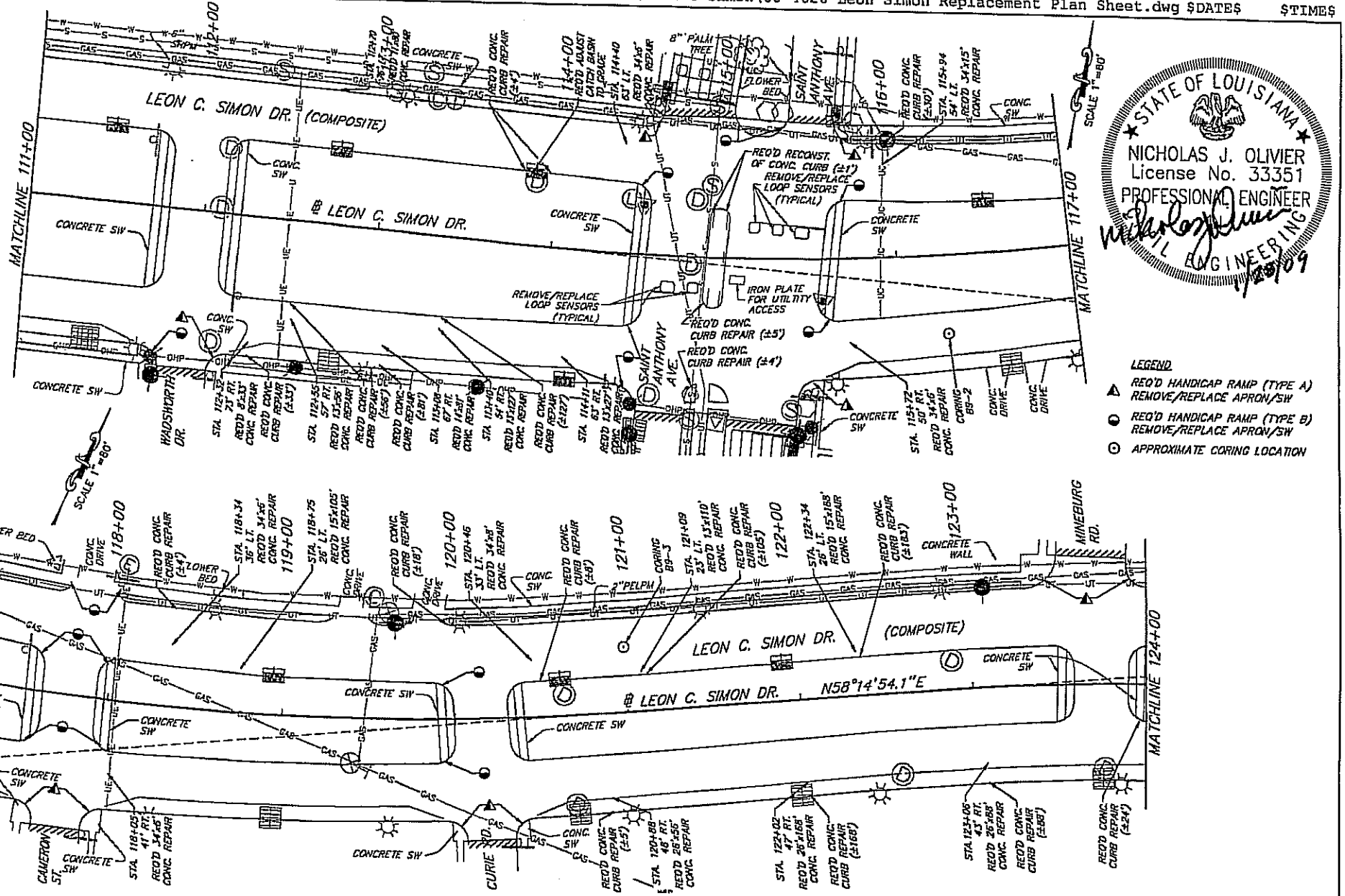
LEGEND

STATE OF LOUISIANA
NICHOLAS J. OLIVIER
License No. 33351
PROFESSIONAL ENGINEER
ENGINEERING
1/28/09

CIVIL DESIGN & CONSTRUCTION INC.	LEON C SIMON BLVD.	DESIGNED NJO / CHECKED KEW	PARISH	ORLEANS	SHEET NUMBER 4
	PLAN SHEET	DETAILED CMR / CHECKED NJO	FEDERAL PROJECT	ER-ERP1(048)	
	NO. DATE REVISION DESCRIPTION BY	DATE SHEET DEC. 2008 1 OF 3	STATE PROJECT	704-36-0032	

I-112

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LEGEND
- REQ'D HANDICAP RAMP (TYPE A) REMOVE/REPLACE APRON/SW
- REQ'D HANDICAP RAMP (TYPE B) REMOVE/REPLACE APRON/SW
- APPROXIMATE CORING LOCATION

STATE OF LOUISIANA
NICHOLAS J. OLIVIER
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PROFESSIONAL ENGINEER
CIVIL ENGINEERING
1/29/09

I-113

CIVIL DESIGN & CONSTRUCTION INC.

DOTD — TRANSPORTATION AND DEVELOPMENT

LEON C SIMON BLVD.

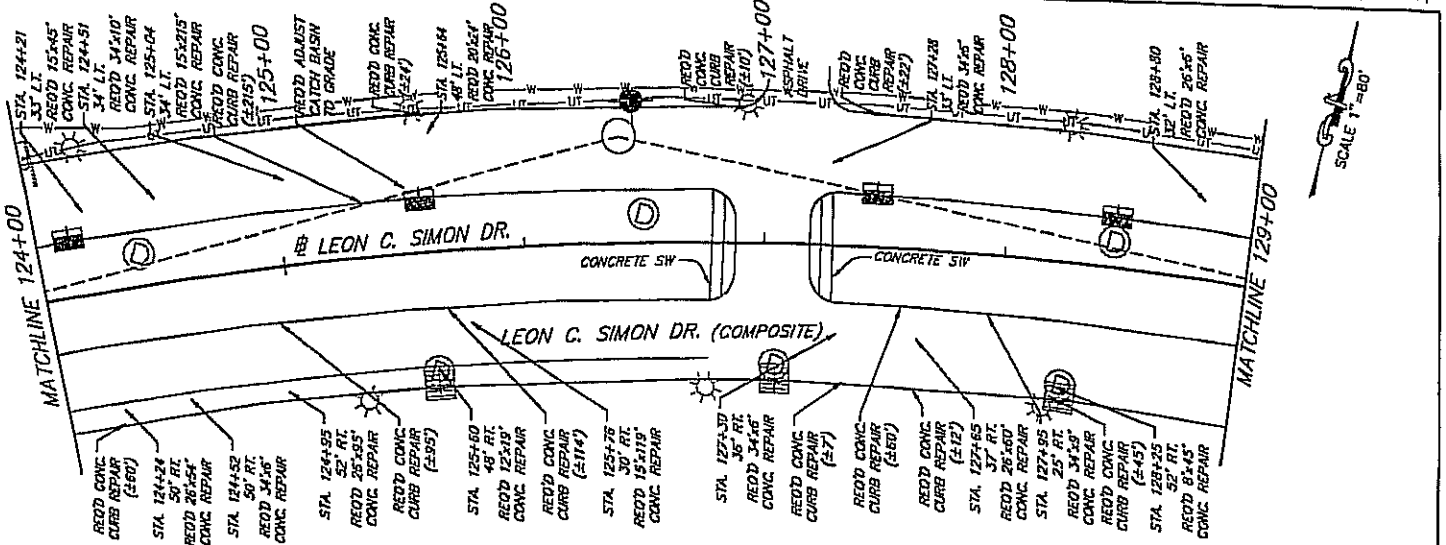
PLAN SHEET

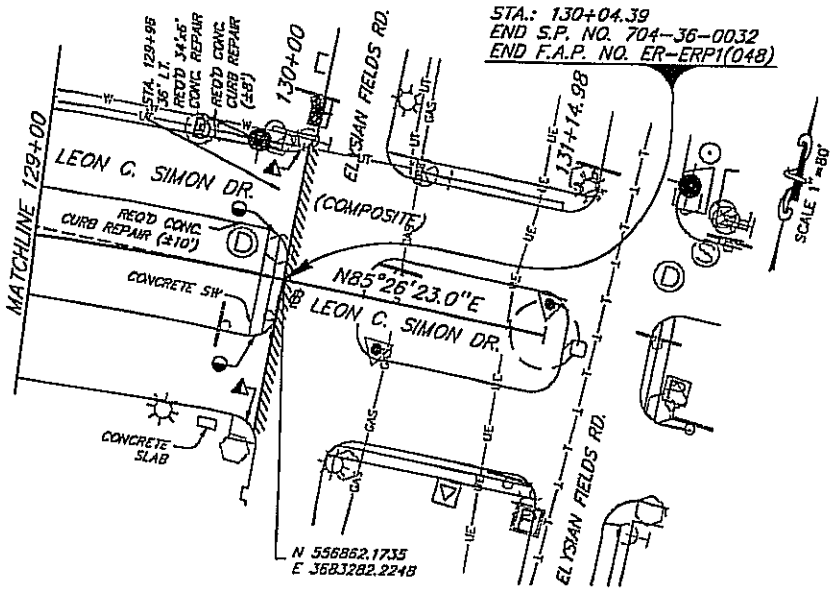
NO.	DATE	REVISION DESCRIPTION	BY

DESIGNED	NJO	PARISH	ORLEANS
CHECKED	KEW		
DETAILED	CMR	FEDERAL PROJECT	ER-ERP1(048)
CHECKED	NJO		
DATE	DEC. 2008	STATE PROJECT	704-36-0032
SHEET	2 OF 3		

SHEET NUMBER 5

Q:\PROJECTS\08-4626 New Orleans Roads Grp 6\Drawings\Revised Final Plans 012709\Leon C Simon\08-4626 Leon Simon Replacement Plan Sheet.dwg $DATE$ $TIME$





I-114

LEGEND

▲ *REQ'D HANDICAP RAMP (TYPE A) REMOVE/REPLACE APRON/SW*

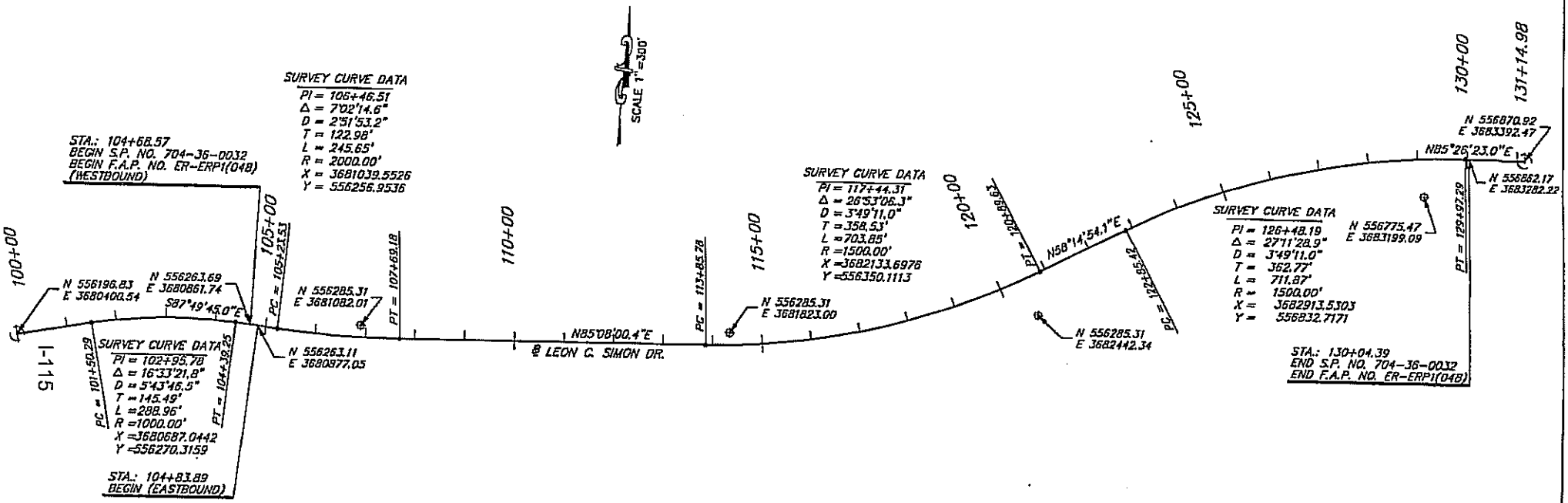
● *REQ'D HANDICAP RAMP (TYPE B) REMOVE/REPLACE APRON/SW*

STATE OF LOUISIANA
NICHOLAS J. OLIVIER
License No. 33351
PROFESSIONAL ENGINEER
CIVIL ENGINEERING
2/6/09

CIVIL DESIGN & CONSTRUCTION INC.	DOTD	LEON C SIMON BLVD.		DESIGNED NJO	PARISH ORLEANS	SHEET NUMBER
		PLAN SHEET		CHECKED KEW		
				DETAILED CMR	FEDERAL PROJECT ER-ERP1(048)	
				CHECKED NJD		
				DATE DEC. 2008	STATE PROJECT 704-36-0032	9
				SHEET 3 OF 3		

NO. | DATE | REVISION DESCRIPTION | BY

J:\PROJECTS\08-4626 New Orleans Roads Grp 6\Drawings\Revised Final Plans 012709\Leon C Simon\08-4626 Leon Simon Replacement Geometric Layout.dwg $DATE$ $TIME$



NOTES:

1. HORIZONTAL CONTROL POINTS WERE ESTABLISHED BY G.P.S. STATIC OBSERVATIONS ON APRIL 2, 2008.
2. COORDINATES SHOWN HEREON ARE NAD83, HARN (HPGN) STATE PLANE, 1702 LA SOUTH ZONE, US SURVEY FOOT.
3. VERTICAL CONTROL NOT REQUIRED.

STATE OF LOUISIANA
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IN
CIVIL ENGINEERING
1/28/09

CIVIL DESIGN & CONSTRUCTION INC.

LEON C SIMON BLVD.

GEOMETRIC LAYOUT

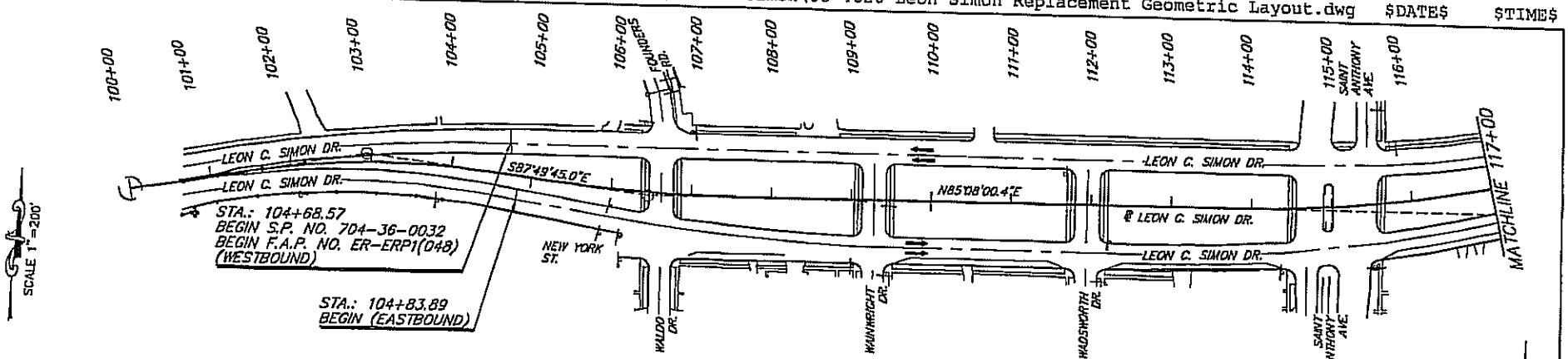
NO.	DATE	REVISION DESCRIPTION	BY

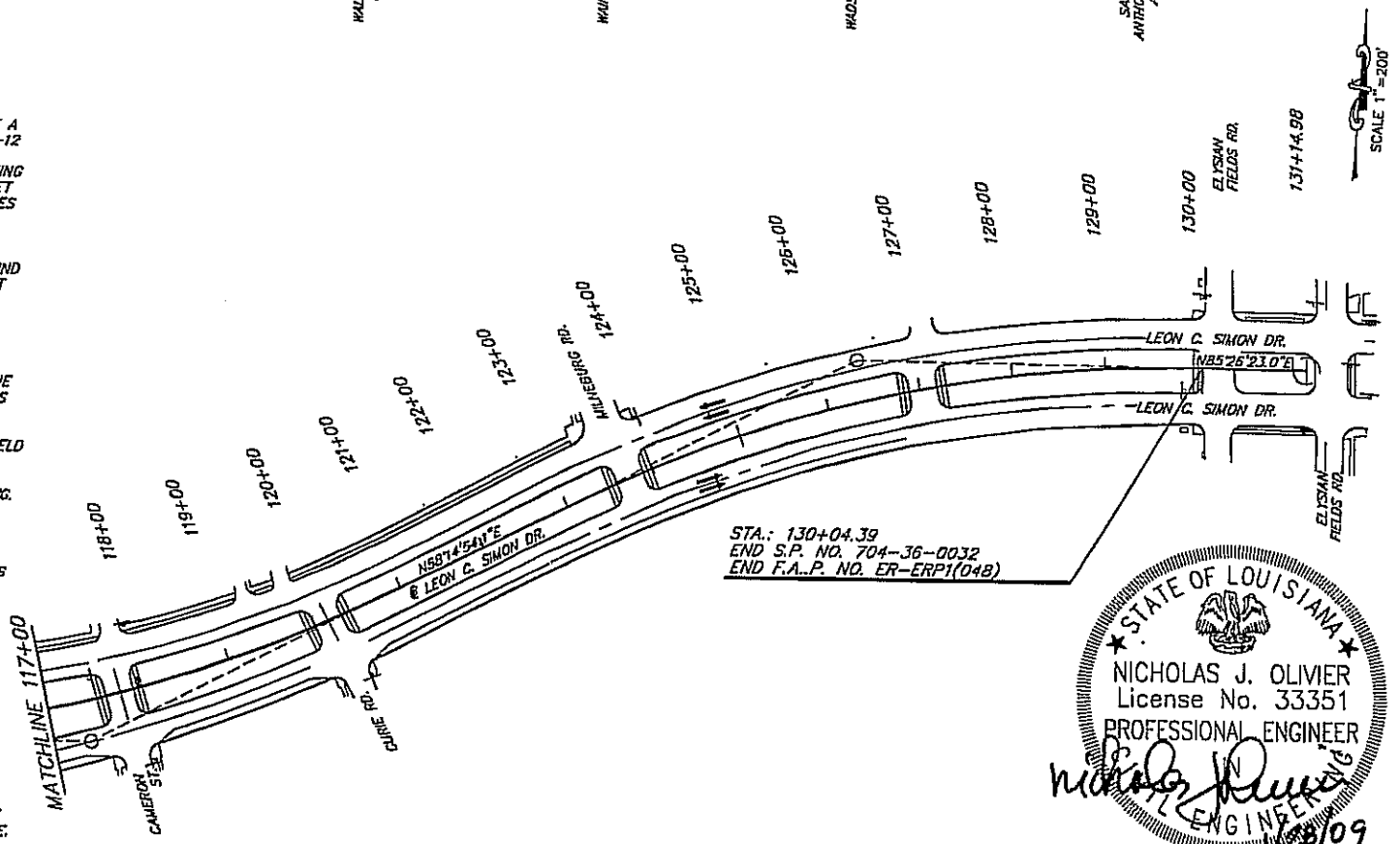
DESIGNED / CHECKED	NJO / KEW	PARISH	ORLEANS
DETAILED / CHECKED	CMR / NJO	FEDERAL PROJECT	ER-ERP1(048)
DATE / SHEET	DEC. 2008 / 1 OF 1	STATE PROJECT	704-36-0032

SHEET NUMBER 7

Q:\PROJECTS\08-4626 New Orleans Roads Grp 6\Drawings\Final Plans 012709\Leon C Simon\08-4626 Leon Simon Replacement Geometric Layout.dwg $DATE$ $TIME$

FINAL PLANS





SUGGESTED SEQUENCE OF CONSTRUCTION FOR LEON C SIMON

1. THE SUGGESTED SEQUENCE OF CONSTRUCTION CONSISTS OF
   a. THE EXISTING LANE CONFIGURATION ON LEON C SIMON CONSISTS OF A FOUR-LANE BOULEVARD SECTION WITH A GRASSED MEDIAN WITH 10-12 FOOT TRAVEL LANES AND 4-12 FOOT PARKING LANES. THE PROPOSED SEQUENCE OF CONSTRUCTION ASSUMES ADVANCED WARNING TO THE HOMEOWNERS PER GENERAL NOTE 1.9 PAGE 1B, THAT STREET PARKING WILL BE UNAVAILABLE DURING THE CONSTRUCTION ACTIVITIES ON EACH OF THE EASTBOUND AND WESTBOUND TRAVEL LANES, RESPECTIVELY. THE PROPOSED SEQUENCE OF CONSTRUCTION CONSISTS OF PAVEMENT REPAIR, 2" AVG. DEPTH MILL OF EXISTING ASPHALT OVERLAY BETWEEN THE PROJECT LIMITS FOR THE WESTBOUND AND EASTBOUND ROADWAYS. THE PROJECT ENGINEER SHALL INSPECT THE REMAINING ASPHALTIC CONCRETE THICKNESS. SHOULD AREAS EXIST WITH ONE INCH (1") OR LESS OF ASPHALTIC CONCRETE, THE CONTRACTOR SHALL BE INSTRUCTED WHICH AREAS SHALL BE COLD PLANED TO REMOVE ADDITIONAL ASPHALTIC CONCRETE.
   b. THE PROJECT ENGINEER SHALL IDENTIFY AND ADEQUATELY MARK THE PAVEMENT AREAS TO BE REPAIRED IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS. THE PAVEMENT REPAIRS ON LEON C SIMON BLVD. WILL CONSISTS OF PCC PAVEMENT WITH BASE COURSE, PER CURRENT CITY OF NEW ORLEANS STANDARDS. AS DETERMINED BY FIELD INSPECTION, CERTAIN SECTIONS OF THE ROADWAY WILL REQUIRE LEVELING TO ADJUST THE CROSS SLOPE AND LONGITUDINAL SLOPE. THE ENTIRE PROJECT WILL THEN BE OVERLAYED WITH TWO INCHES AVG. DEPTH OF SUPERPAVE ASPHALTIC CONCRETE.
2. THE CONTRACTOR SHALL SUBMIT A SEQUENCE OF CONSTRUCTION AND TRAFFIC CONTROL PLAN TO THE PROJECT ENGINEER FOR REVIEW, COORDINATION, AND APPROVAL BY THE DEPARTMENT OF PUBLIC WORKS ADVANCED WARNING SIGNAGE FOR ALL SIDEROADS SHALL BE INCLUDED.
3. CONTRACTOR SHALL CLOSE A PORTION OF ONE OF THE WESTBOUND LANES, IN ACCORDANCE WITH HIS WORK PLAN, CONSTRUCTING THE REQUIRED REPAIRS, AND PROGRESSING ALONG THE PROJECT. THIS TEMPORARY CONSTRUCTION SIGNING FOR THIS SEQUENCE OF CONSTRUCTION WOULD CORRESPOND TO LA DOTD SPECIAL DETAILS TC-06 ENTITLED "TRAFFIC CONTROL LAYOUT FOR LANE CLOSURES ON DIVIDED HIGHWAY", TC-00 ENTITLED "TEMPORRARY TRAFFIC CONTROL GENERAL NOTES SHEET", AND GUIDANCE FROM MUTCD CURRENTLY IN USE BY DOTD. THE SEQUENCE WOULD THEN BE REPEATED ON THE EASTBOUND LANES OF LEON C SIMON.
4. THE CONTRACTOR SHALL BE LIMITED TO ONLY ONE LANE CLOSURE, AT A MAXIMUM LENGTH OF 1000 FEET, PER DIRECTION, AT ANY GIVEN TIME.

STATE OF LOUISIANA
NICHOLAS J. OLIVIER
License No. 33351
PROFESSIONAL ENGINEER
IN CIVIL ENGINEERING
1/28/09

CIVIL DESIGN & CONSTRUCTION INC.

LEON C SIMON BLVD.

SUGGESTED SEQUENCE OF CONSTRUCTION

NO.	DATE	REVISION DESCRIPTION	BY

DESIGNED	NJO	PARISH	ORLEANS
CHECKED	KEW		
DETAILED	CMR	FEDERAL PROJECT	ER-ERP1(048)
CHECKED	NJO		
DATE	DEC. 2008	STATE PROJECT	704-36-0032
SHEET	1 OF 1		

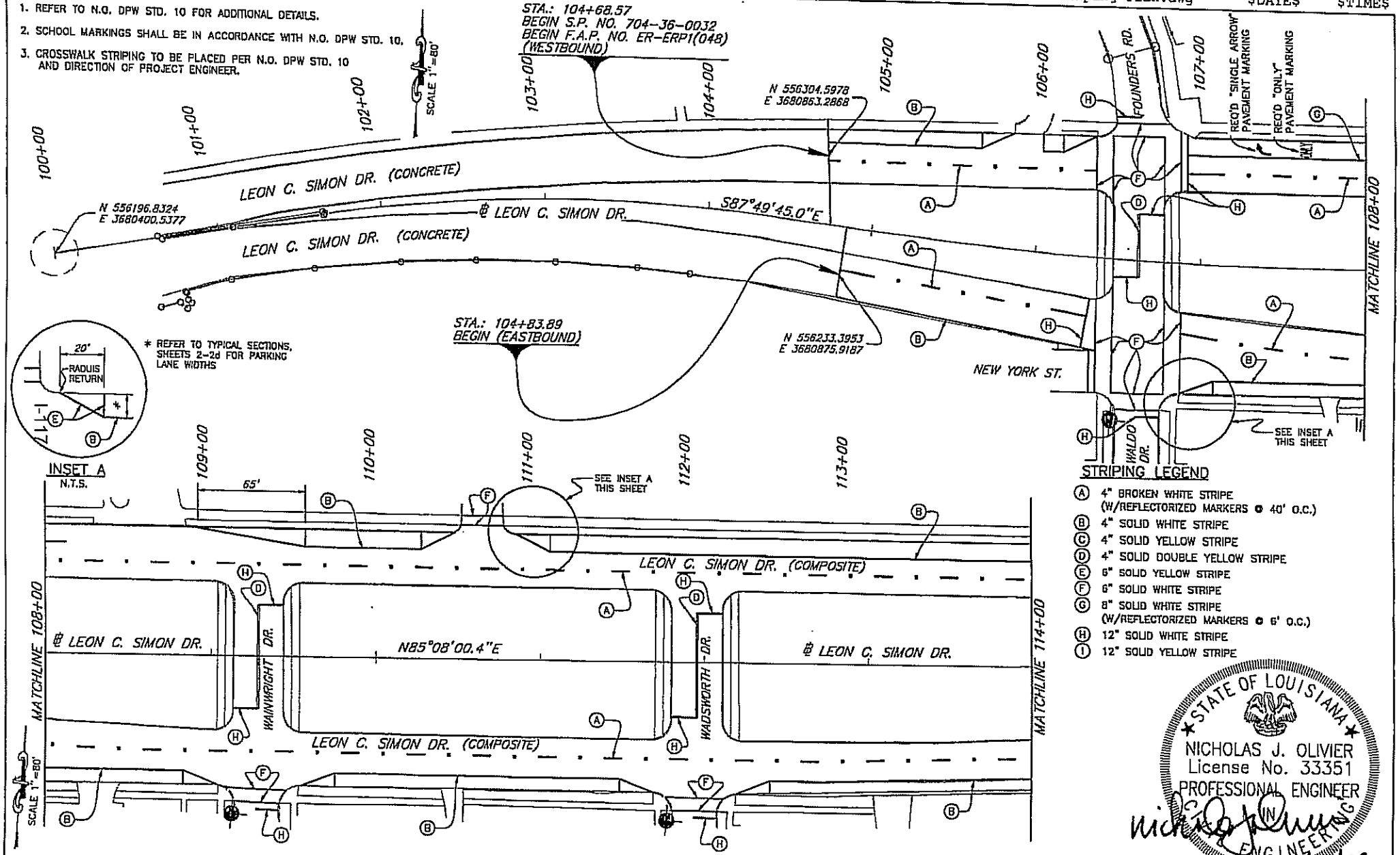
SHEET NUMBER 8

Q:\PROJECTS\08-4626 New Orleans Roads Grp 6\Drawings\Revised Final Plans 012709\Leon C Simon\08-4626 Leon Simon Replacement Striping Plan.dwg $DATE$ $TIME$

FINAL PLANS

NOTES:

1. REFER TO N.O. DPW STD. 10 FOR ADDITIONAL DETAILS.
2. SCHOOL MARKINGS SHALL BE IN ACCORDANCE WITH N.O. DPW STD. 10.
3. CROSSWALK STRIPING TO BE PLACED PER N.O. DPW STD. 10 AND DIRECTION OF PROJECT ENGINEER.



STRIPING LEGEND

- (A) 4" BROKEN WHITE STRIPE (W/REFLECTORIZED MARKERS @ 40' O.C.)
- (B) 4" SOLID WHITE STRIPE
- (C) 4" SOLID YELLOW STRIPE
- (D) 4" SOLID DOUBLE YELLOW STRIPE
- (E) 6" SOLID YELLOW STRIPE
- (F) 6" SOLID WHITE STRIPE
- (G) 8" SOLID WHITE STRIPE (W/REFLECTORIZED MARKERS @ 6' O.C.)
- (H) 12" SOLID WHITE STRIPE
- (I) 12" SOLID YELLOW STRIPE

STATE OF LOUISIANA
NICHOLAS J. OLIVIER
License No. 33351
PROFESSIONAL ENGINEER
IN
ENGINEERING
2/12/09

DESIGNED	NJO	PARISH	ORLEANS	SHEET NUMBER	9
CHECKED	KEW				
DETAILED	CMR	FEDERAL PROJECT	ER-ERP1(048)		
CHECKED	NJO				
DATE SHEET	FEB. 2009 1 OF 3	STATE PROJECT	704-36-0032		

NO. | DATE | REVISION DESCRIPTION | BY

LEON C SIMON BLVD.

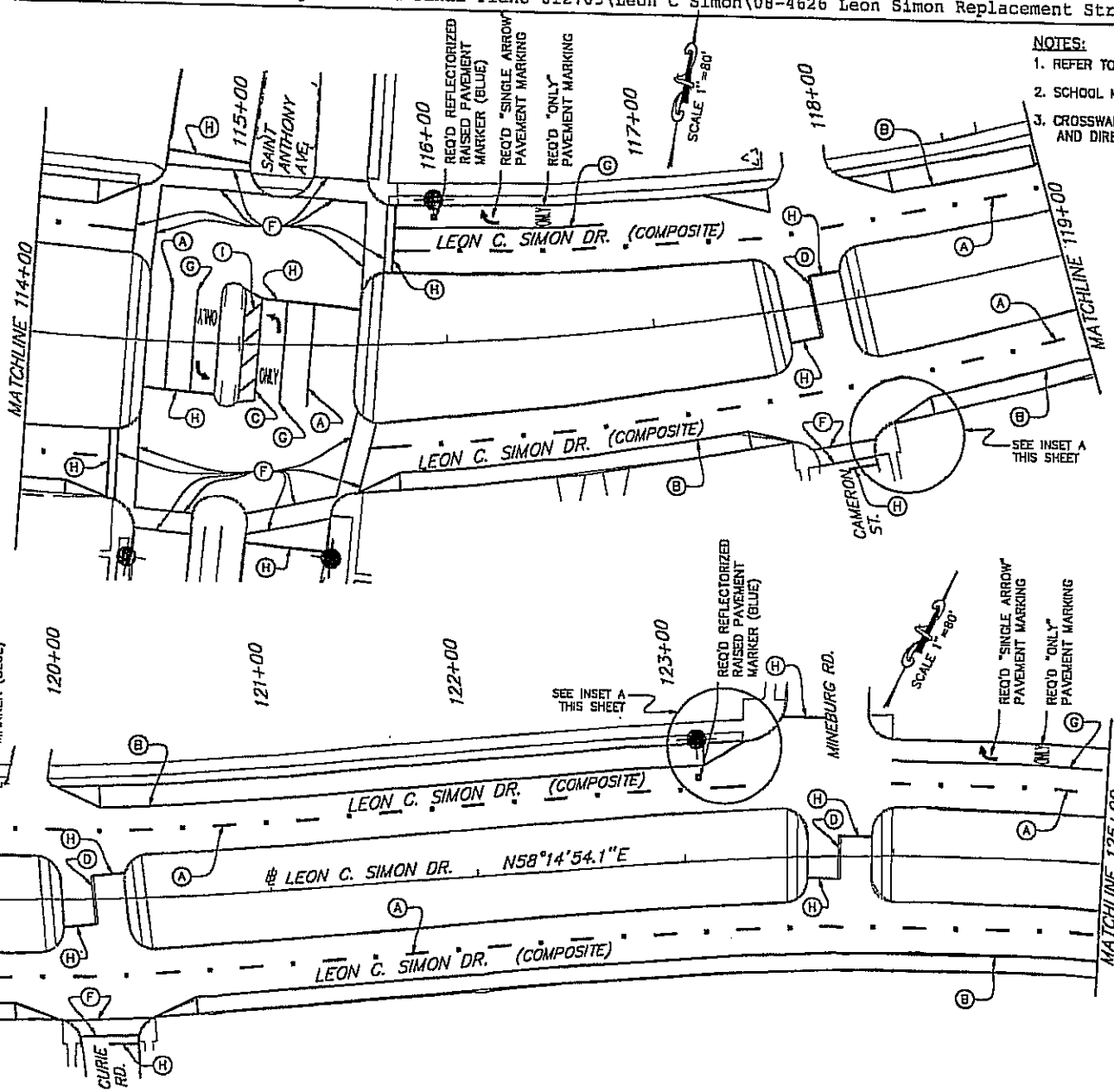
STRIPING SHEET

DOTD — TRANSPORTATION AND DEVELOPMENT — CIVIL DESIGN & CONSTRUCTION INC.

STATE OF LOUISIANA — DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT — NEW ORLEANS

FINAL PLANS

Q:\PROJECTS\08-4626 New Orleans Roads Grp 6\Drawings\Revised Final Plans 012709\Leon C Simon\08-4626 Leon Simon Replacement Striping Plan.dwg $DATE$ $TIME$

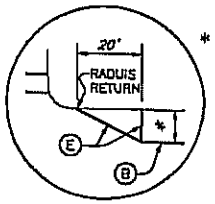


NOTES:

1. REFER TO N.O. DPW STD. 10 FOR ADDITIONAL DETAILS.
2. SCHOOL MARKINGS SHALL BE IN ACCORDANCE WITH N.O. DPW STD. 10
3. CROSSWALK STRIPING TO BE PLACED PER N.O. DPW STD. 10 AND DIRECTION OF PROJECT ENGINEER.

STRIPING LEGEND

- (A) 4" BROKEN WHITE STRIPE (W/REFLECTORIZED MARKERS @ 40' O.C.)
- (B) 4" SOLID WHITE STRIPE
- (C) 4" SOLID YELLOW STRIPE
- (D) 4" SOLID DOUBLE YELLOW STRIPE
- (E) 6" SOLID YELLOW STRIPE
- (F) 6" SOLID WHITE STRIPE
- (G) 8" SOLID WHITE STRIPE (W/REFLECTORIZED MARKERS @ 6' O.C.)
- (H) 12" SOLID WHITE STRIPE
- (I) 12" SOLID YELLOW STRIPE



INSET A
N.T.S.

* REFER TO TYPICAL SECTIONS, SHEETS 2-2d FOR PARKING LANE WIDTHS

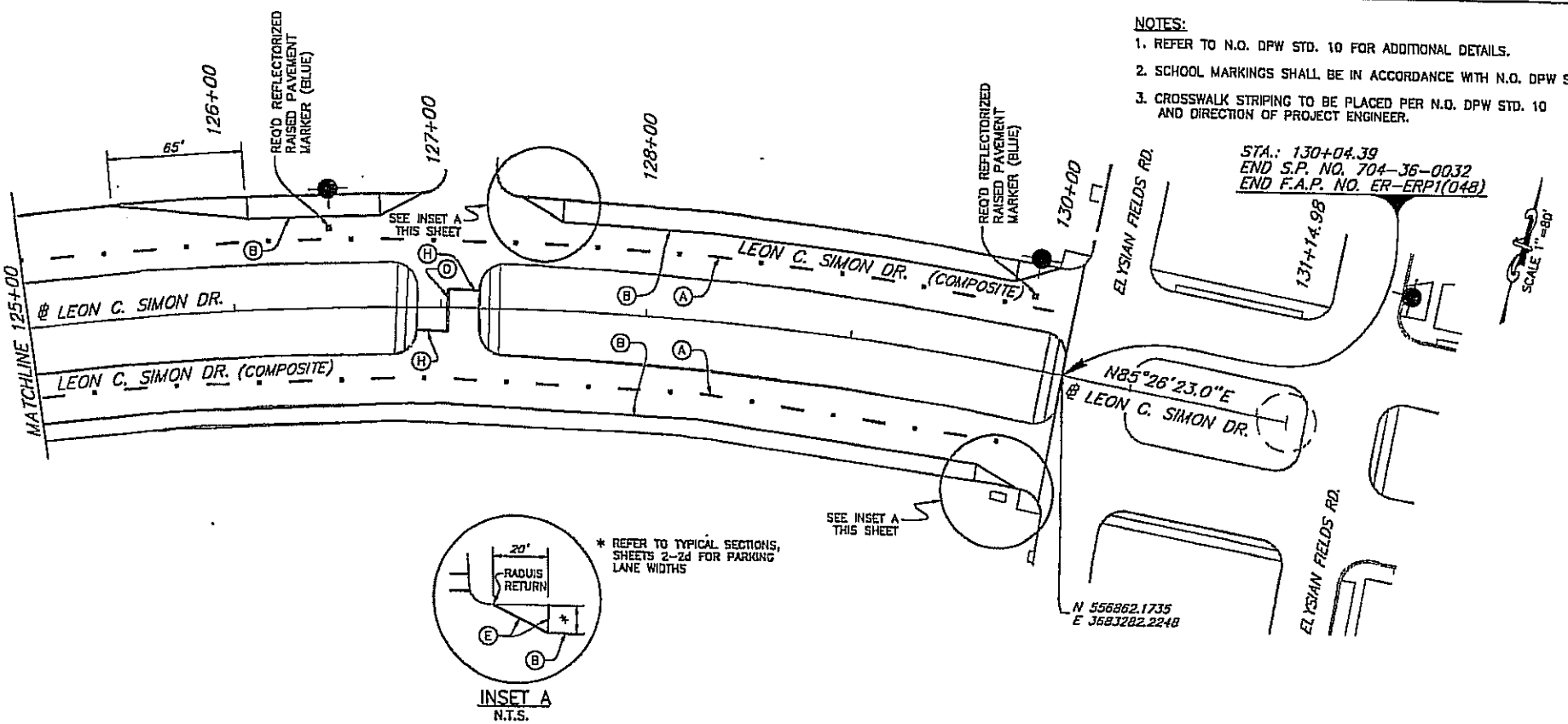
I-118

STATE OF LOUISIANA
NICHOLAS J. OLIVIER
License No. 33351
PROFESSIONAL ENGINEER
IN CIVIL ENGINEERING
4/26/09

CIVIL DESIGN & CONSTRUCTION INC.	DOTD TRANSPORTATION AND DEVELOPMENT	LEON C SIMON BLVD.	STATE OF LOUISIANA DEPARTMENT OF CULTURE, RECREATION & TOURISM		DESIGNED NJO CHECKED KEW	PARISH ORLEANS	SHEET NUMBER 10
		STRIPING SHEET			DETAILED CMR CHECKED NJO	FEDERAL PROJECT ER-ERP1(048)	
				NO. DATE REVISION DESCRIPTION BY	DATE FEB. 2009 SHEET 2 OF 3	STATE PROJECT 704-36-0032	

FINAL PLANS

Q:\PROJECTS\08-4626 New Orleans Roads Grp 6\Drawings\Revised Final Plans 012709\Leon C Simon\08-4626 Leon Simon Replacement Striping Plan.dwg $DATE$ $TIME$



NOTES:

1. REFER TO N.O. DPW STD. 10 FOR ADDITIONAL DETAILS.
2. SCHOOL MARKINGS SHALL BE IN ACCORDANCE WITH N.O. DPW STD. 10.
3. CROSSWALK STRIPING TO BE PLACED PER N.O. DPW STD. 10 AND DIRECTION OF PROJECT ENGINEER.

INSET A
N.T.S.

* REFER TO TYPICAL SECTIONS, SHEETS 2-2d FOR PARKING LANE WIDTHS

STRIPING LEGEND

- Ⓐ 4" BROKEN WHITE STRIPE (W/REFLECTORIZED MARKERS @ 40' O.C.)
- Ⓑ 4" SOLID WHITE STRIPE
- Ⓒ 4" SOLID YELLOW STRIPE
- Ⓓ 4" SOLID DOUBLE YELLOW STRIPE
- Ⓔ 6" SOLID YELLOW STRIPE
- Ⓕ 6" SOLID WHITE STRIPE
- Ⓖ 8" SOLID WHITE STRIPE (W/REFLECTORIZED MARKERS @ 6' O.C.)
- Ⓗ 12" SOLID WHITE STRIPE
- Ⓘ 12" SOLID YELLOW STRIPE

STATE OF LOUISIANA
NICHOLAS J. OLIVIER
License No. 33351
PROFESSIONAL ENGINEER
CIVIL ENGINEERING
2/26/09

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CIVIL DESIGN & CONSTRUCTION INC.

DOTD TRANSPORTATION AND DEVELOPMENT

LEON C SIMON BLVD.

STRIPING SHEET

STATE OF LOUISIANA DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT

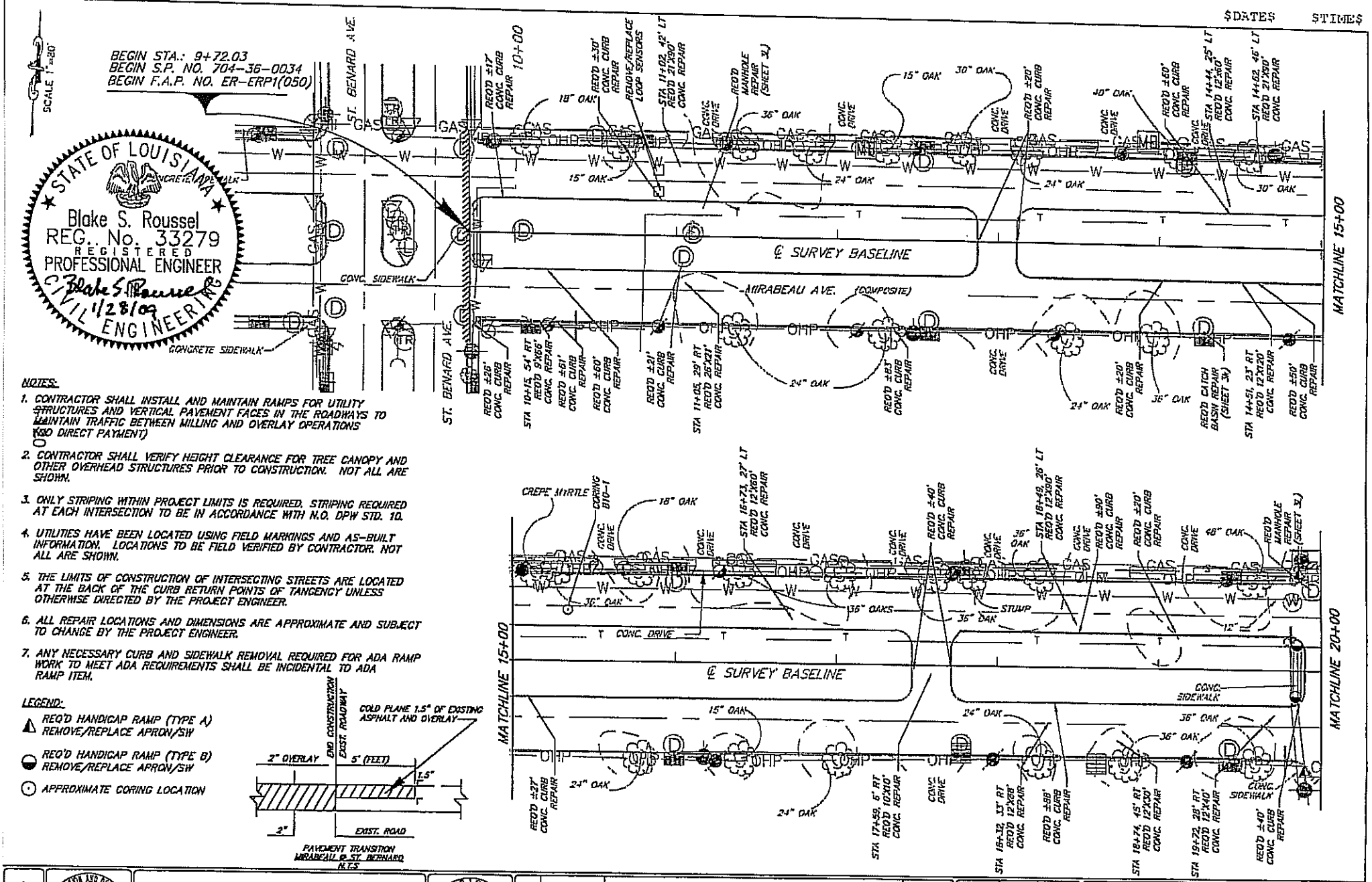
NO.	DATE	REVISION DESCRIPTION	BY

DESIGNED / CHECKED	NJO / KEW	PARISH	ORLEANS
DETAILED / CHECKED	CMR / NJO	FEDERAL PROJECT	ER-ERP1(048)
DATE / SHEET	FEB. 2009 / 3 OF 3	STATE PROJECT	704-36-0032

SHEET NUMBER 11

FINAL PLANS

$DATE$ $TIME$



NOTES:

1. CONTRACTOR SHALL INSTALL AND MAINTAIN RAMPS FOR UTILITY STRUCTURES AND VERTICAL PAVEMENT FACES IN THE ROADWAYS TO MAINTAIN TRAFFIC BETWEEN MILLING AND OVERLAY OPERATIONS (NO DIRECT PAYMENT)
2. CONTRACTOR SHALL VERIFY HEIGHT CLEARANCE FOR TREE CANOPY AND OTHER OVERHEAD STRUCTURES PRIOR TO CONSTRUCTION. NOT ALL ARE SHOWN.
3. ONLY STRIPING WITHIN PROJECT LIMITS IS REQUIRED. STRIPING REQUIRED AT EACH INTERSECTION TO BE IN ACCORDANCE WITH N.O. DPW STD. 10.
4. UTILITIES HAVE BEEN LOCATED USING FIELD MARKINGS AND AS-BUILT INFORMATION. LOCATIONS TO BE FIELD VERIFIED BY CONTRACTOR. NOT ALL ARE SHOWN.
5. THE LIMITS OF CONSTRUCTION OF INTERSECTING STREETS ARE LOCATED AT THE BACK OF THE CURB RETURN POINTS OF TANGENCY UNLESS OTHERWISE DIRECTED BY THE PROJECT ENGINEER.
6. ALL REPAIR LOCATIONS AND DIMENSIONS ARE APPROXIMATE AND SUBJECT TO CHANGE BY THE PROJECT ENGINEER.
7. ANY NECESSARY CURB AND SIDEWALK REMOVAL REQUIRED FOR ADA RAMP WORK TO MEET ADA REQUIREMENTS SHALL BE INCIDENTAL TO ADA RAMP ITEM.

LEGEND:

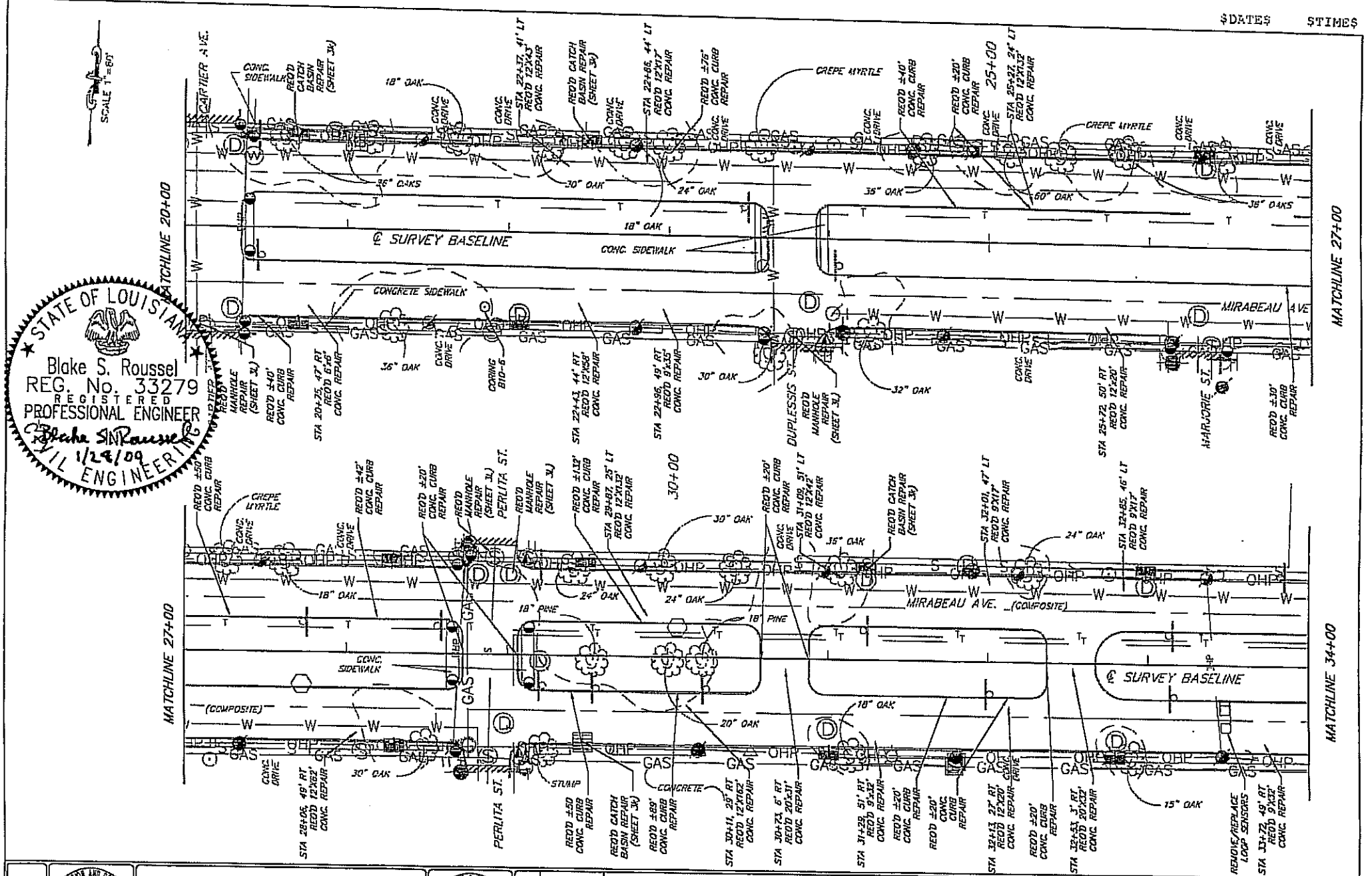
- REQ'D HANDICAP RAMP (TYPE A) REMOVE/REPLACE APRON/SW
- REQ'D HANDICAP RAMP (TYPE B) REMOVE/REPLACE APRON/SW
- APPROXIMATE CORING LOCATION

PAVEMENT TRANSITION MIRABEAU @ ST. BERNARD N.T.S.

Stanley Consultants, Inc.	MIRABEAU AVENUE	DESIGNED BSR / CHECKED JRS	PARISH	ORLEANS	SHEET NUMBER 12
DOTD	PLAN SHEET	DETAILED BAS / CHECKED BSR	FEDERAL PROJECT	ER-ERP1(050).	
	NO. DATE REVISION DESCRIPTION BY	DATE JAN 2009 SHEET 1 OF 6	STATE PROJECT	704-36-0034	

FINAL PLANS

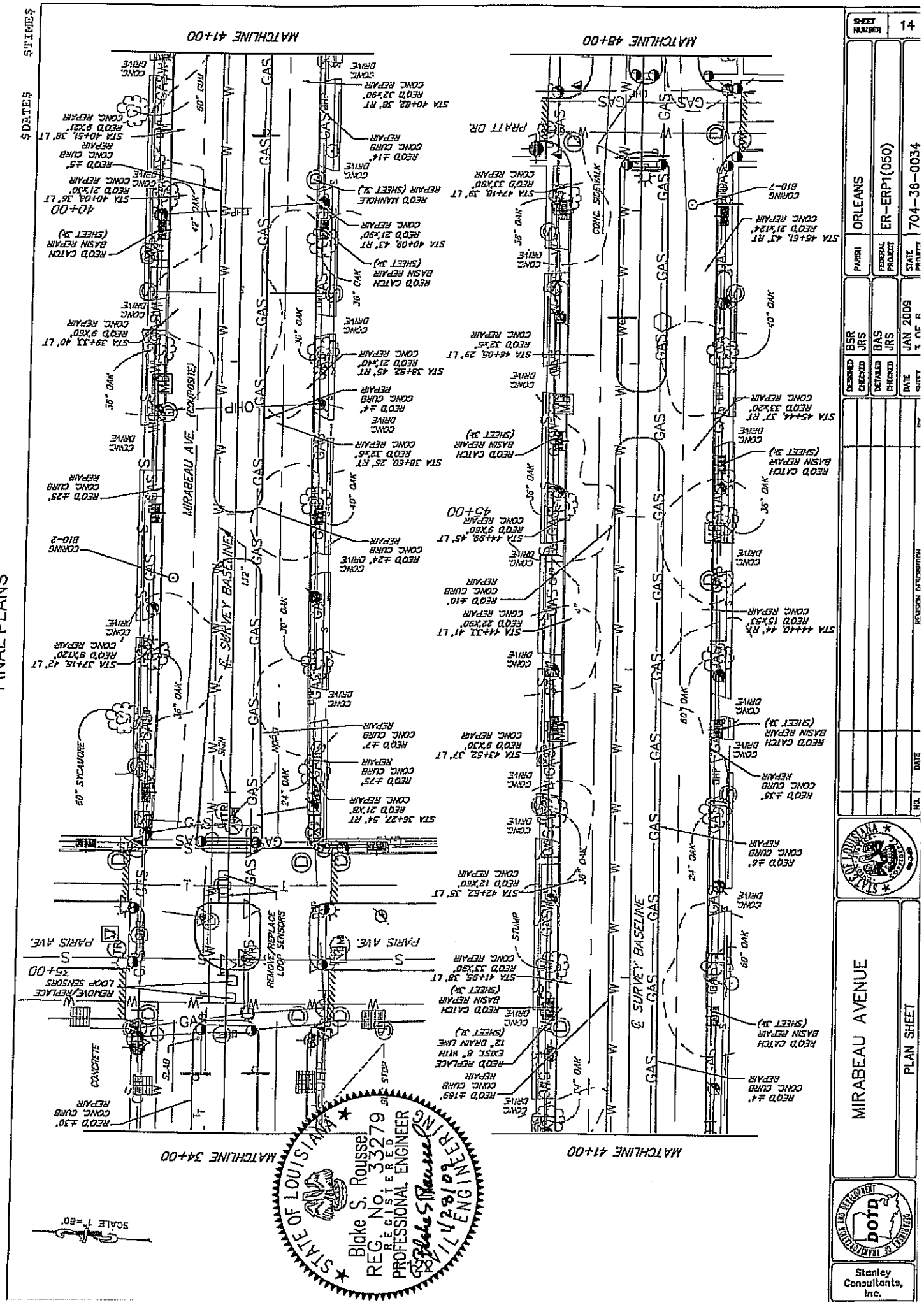
$DATE$ $TIME$



STATE OF LOUISIANA
Blake S. Roussel
REG. No. 33279
REGISTERED
PROFESSIONAL ENGINEER
Blake S. Roussel
1/28/09
CIVIL ENGINEERING

Shirley Consultants, Inc.	MIRABEAU AVENUE	PLAN SHEET	DESIGNED BSR; CHECKED JRS; DETAILED BAS; CHECKED JRS; DATE JAN 2009; SHEET 2 OF 6
PARISH	ORLEANS		
FEDERAL PROJECT	ER-ERP1(050)		
STATE PROJECT	704-36-0034		
SHEET NUMBER	13		

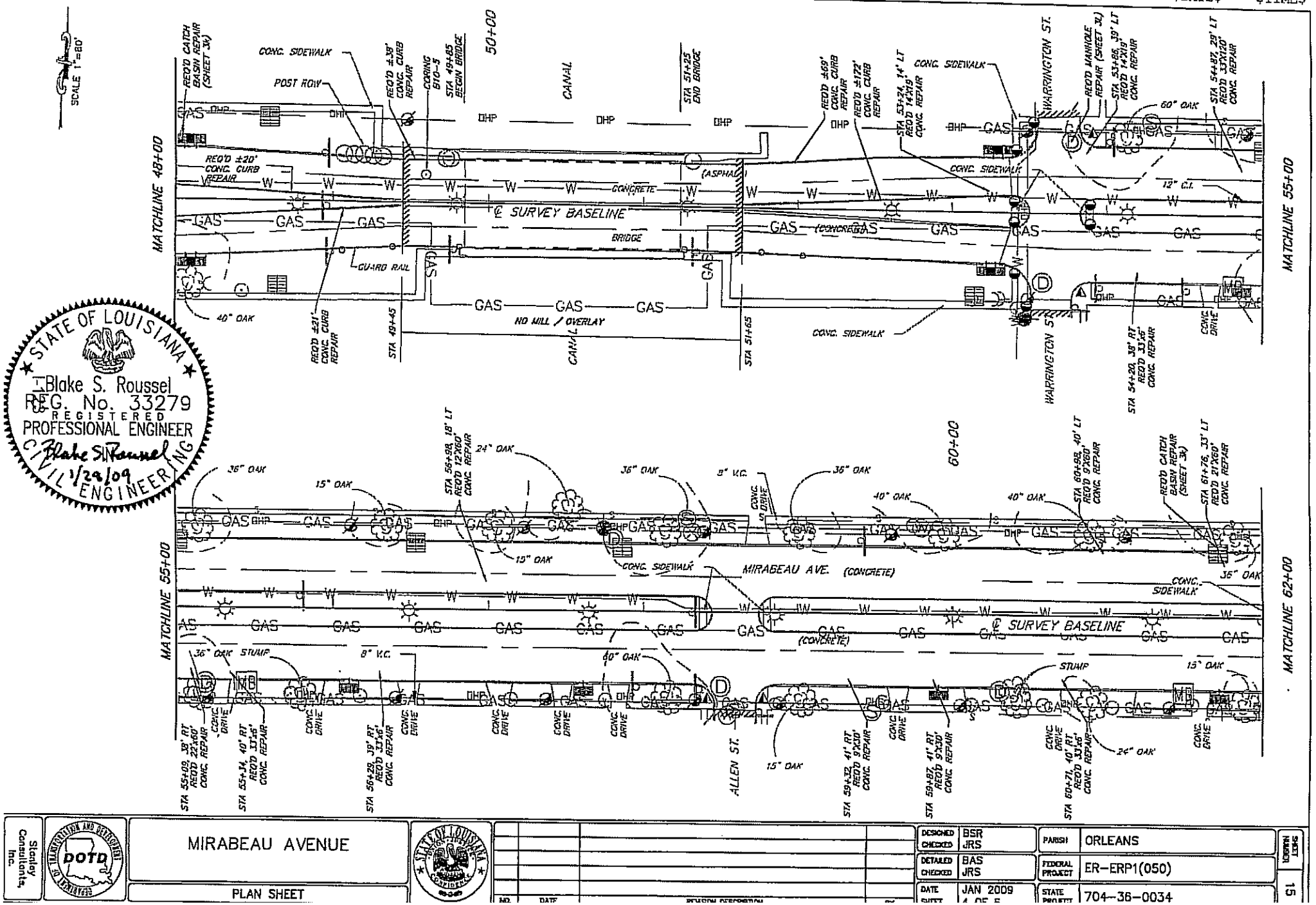
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STATE OF LOUISIANA
Blake S. Roussel
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Blake S. Roussel
1/28/09

Stanley Consultants, Inc.	MIRABEAU AVENUE	DESIGNED BSR / CHECKED JRS	PARISH ORLEANS
DOTD	PLAN SHEET	DETAILED BAS / CHECKED JRS	FEDERAL PROJECT ER-ERP1(050)
		DATE JAN 2009	STATE PROJECT 704-36-0034

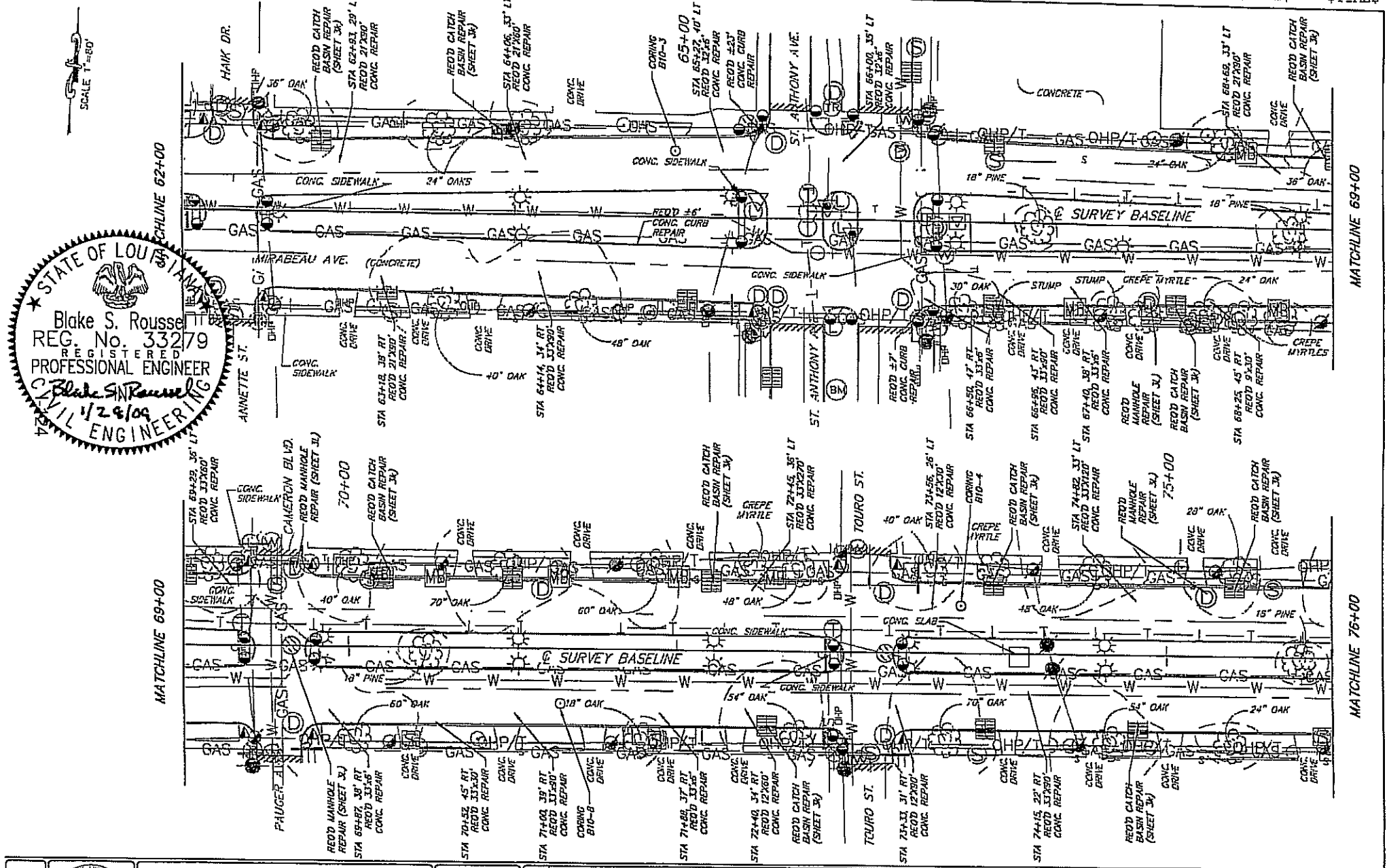
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SHEET NUMBER 15

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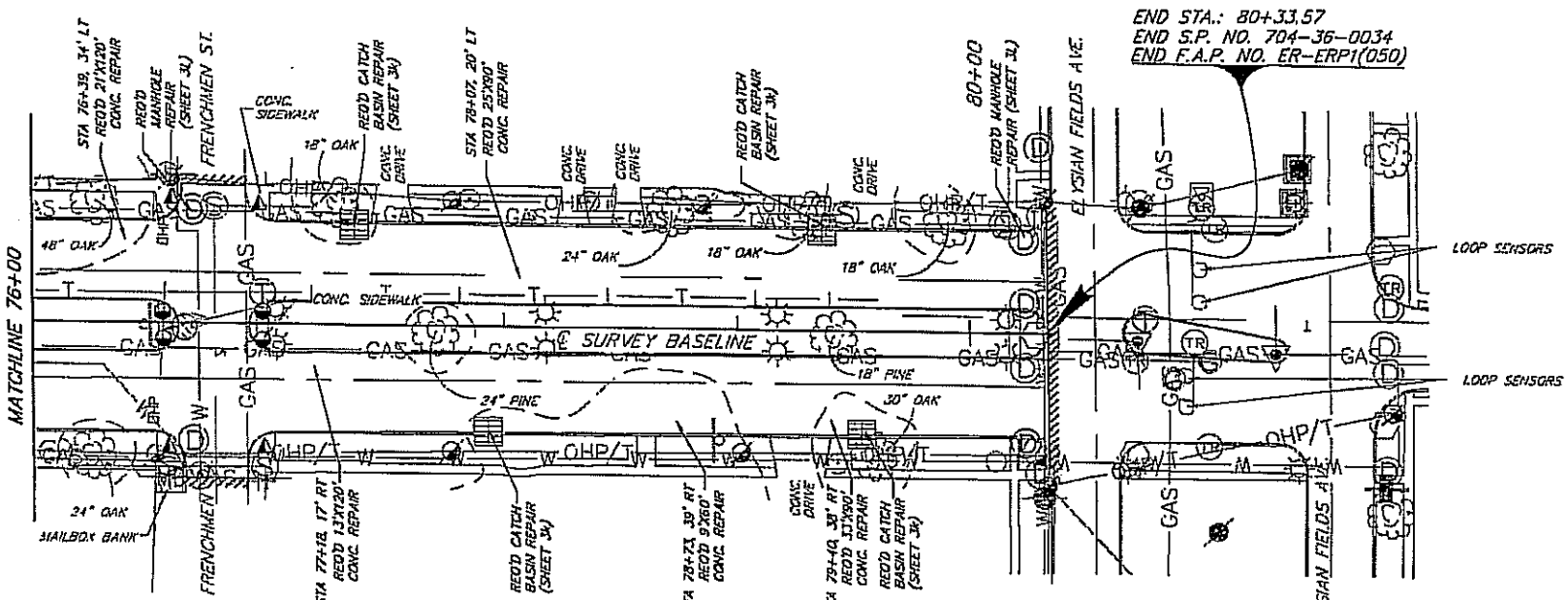
STATE OF LOUISIANA
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Stanley Consultants, Inc.	MIRABEAU AVENUE	DESIGNED BSR / CHECKED JRS	PARISH	ORLEANS	SHEET NUMBER 16
DOTD	PLAN SHEET	DETAILED BAS / CHECKED JRS	FEDERAL PROJECT	ER-ERP1(050)	
	NO. DATE REVISION DESCRIPTION BY	DATE SHEET JAN 2009 5 OF 8	STATE PROJECT	704-36-0034	

FINAL PLANS

$DATE$ $TIME$

SCALE 1"=80'



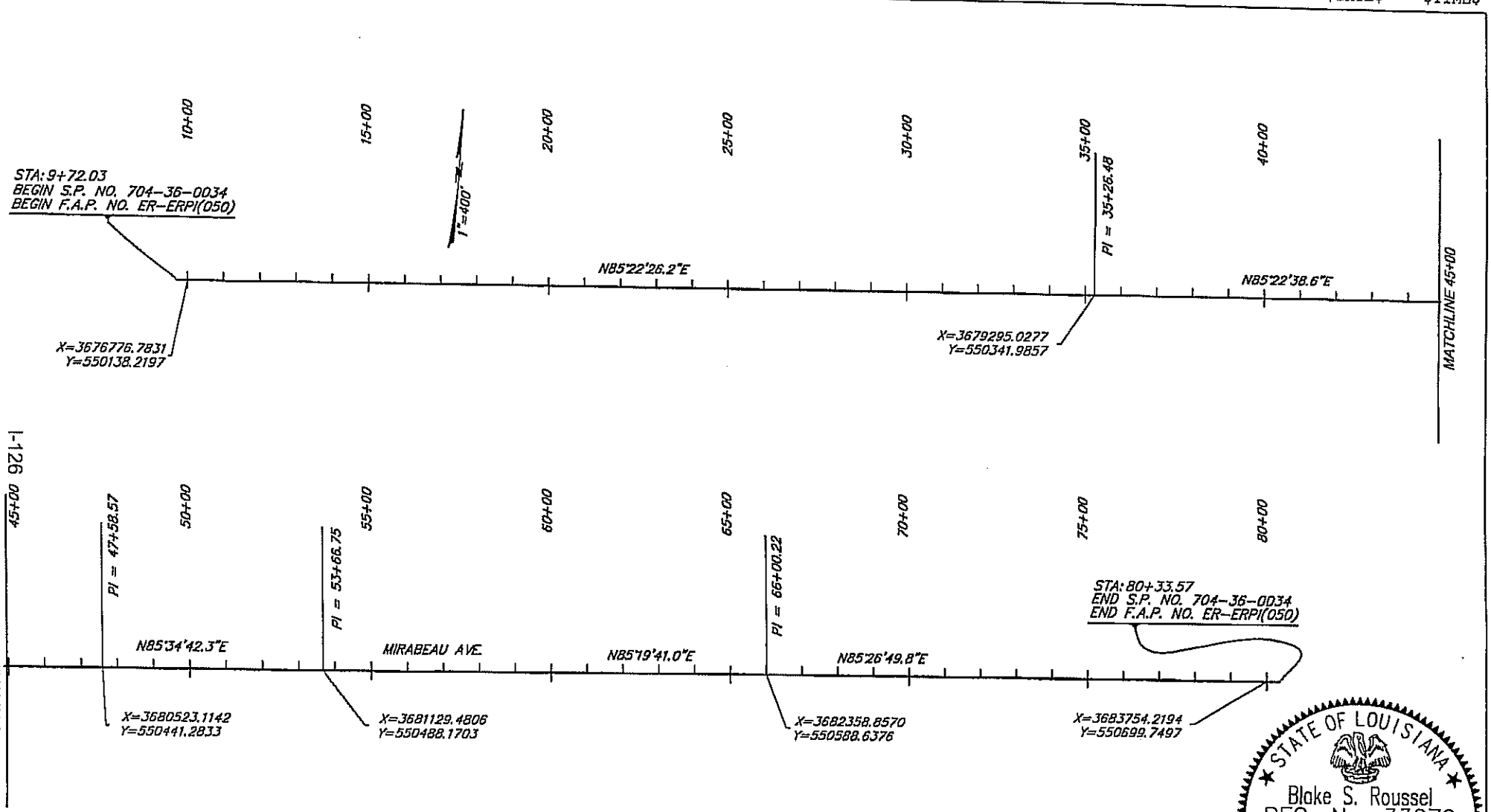
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STATE OF LOUISIANA
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Blake S. Roussel
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CIVIL ENGINEERING

Stanley Consultants, Inc.	MIRABEAU AVENUE	DESIGNED BSR / CHECKED JRS	PARISH	ORLEANS	SHEET NUMBER 17
	PLAN SHEET	DETAILED BAS / CHECKED JRS	FEDERAL PROJECT	ER-ERP1(050)	
	NO. DATE REVISION DESCRIPTION BY	DATE JAN 2009 / SHEET 6 OF 6	STATE PROJECT	704-36-0034	

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STATE OF LOUISIANA
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NOTES:

1. HORIZONTAL CONTROL POINTS WERE ESTABLISHED BY G.P.S. STATIC OBSERVATIONS ON APRIL 2, 2008.
2. COORDINATES SHOWN HEREON ARE NAD83, HARN (HPGN) STATE PLANE, 1702 LA SOUTH ZONE, US SURVEY FOOT.
3. VERTICAL CONTROL NOT REQUIRED.

Stanley Consultants, Inc.

DOTD TRANSPORTATION AND DEVELOPMENT

MIRABEAU AVENUE

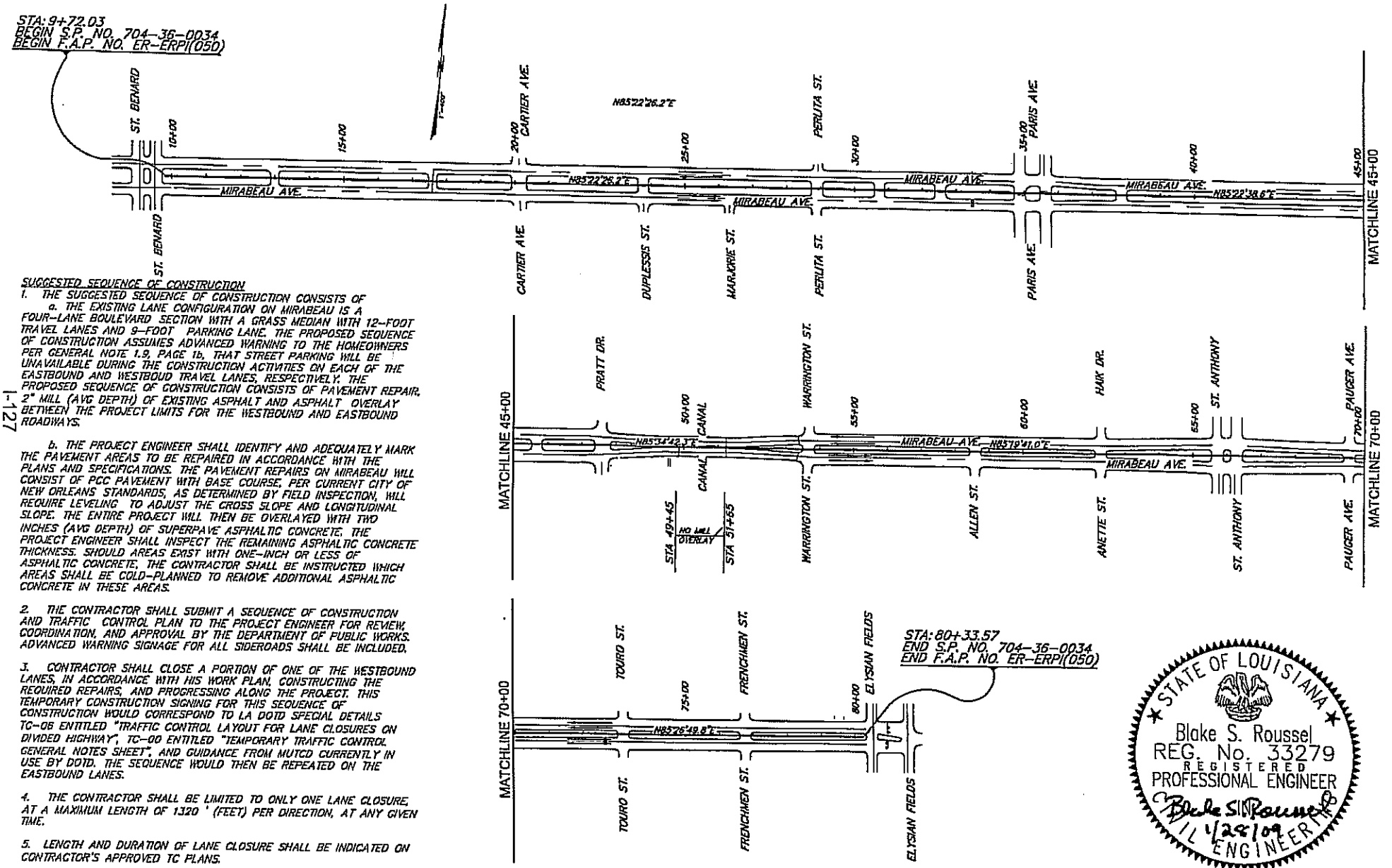
GEOMETRIC LAYOUT

DESIGNED / CHECKED	BSR / JRS	PARISH	ORLEANS
DETAILED / CHECKED	AKW / BSR	FEDERAL PROJECT	ER-ERP1(050)
DATE	DEC 2008	STATE PROJECT	704-36-0034

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FINAL PLANS

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SUGGESTED SEQUENCE OF CONSTRUCTION

1. THE SUGGESTED SEQUENCE OF CONSTRUCTION CONSISTS OF

a. THE EXISTING LANE CONFIGURATION ON MIRABEAU IS A FOUR-LANE BOULEVARD SECTION WITH A GRASS MEDIAN WITH 12-FOOT TRAVEL LANES AND 9-FOOT PARKING LANE. THE PROPOSED SEQUENCE OF CONSTRUCTION ASSUMES ADVANCED WARNING TO THE HOMEOWNERS PER GENERAL NOTE 1.9, PAGE 1b, THAT STREET PARKING WILL BE UNAVAILABLE DURING THE CONSTRUCTION ACTIVITIES ON EACH OF THE EASTBOUND AND WESTBOUD TRAVEL LANES, RESPECTIVELY. THE PROPOSED SEQUENCE OF CONSTRUCTION CONSISTS OF PAVEMENT REPAIR, 2" MILL (AVG DEPTH) OF EXISTING ASPHALT AND ASPHALT OVERLAY BETWEEN THE PROJECT LIMITS FOR THE WESTBOUND AND EASTBOUND ROADWAYS.

b. THE PROJECT ENGINEER SHALL IDENTIFY AND ADEQUATELY MARK THE PAVEMENT AREAS TO BE REPAIRED IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS. THE PAVEMENT REPAIRS ON MIRABEAU WILL CONSIST OF PCC PAVEMENT WITH BASE COURSE, PER CURRENT CITY OF NEW ORLEANS STANDARDS, AS DETERMINED BY FIELD INSPECTION, WILL REQUIRE LEVELING TO ADJUST THE CROSS SLOPE AND LONGITUDINAL SLOPE. THE ENTIRE PROJECT WILL THEN BE OVERLAYED WITH TWO INCHES (AVG DEPTH) OF SUPERPAVE ASPHALTIC CONCRETE. THE PROJECT ENGINEER SHALL INSPECT THE REMAINING ASPHALTIC CONCRETE THICKNESS. SHOULD AREAS EXIST WITH ONE-INCH OR LESS OF ASPHALTIC CONCRETE, THE CONTRACTOR SHALL BE INSTRUCTED WHICH AREAS SHALL BE COLD-PLANNED TO REMOVE ADDITIONAL ASPHALTIC CONCRETE IN THESE AREAS.

2. THE CONTRACTOR SHALL SUBMIT A SEQUENCE OF CONSTRUCTION AND TRAFFIC CONTROL PLAN TO THE PROJECT ENGINEER FOR REVIEW, COORDINATION, AND APPROVAL BY THE DEPARTMENT OF PUBLIC WORKS. ADVANCED WARNING SIGNAGE FOR ALL SIDEROADS SHALL BE INCLUDED.

3. CONTRACTOR SHALL CLOSE A PORTION OF ONE OF THE WESTBOUND LANES, IN ACCORDANCE WITH HIS WORK PLAN, CONSTRUCTING THE REQUIRED REPAIRS, AND PROGRESSING ALONG THE PROJECT. THIS TEMPORARY CONSTRUCTION SIGNING FOR THIS SEQUENCE OF CONSTRUCTION WOULD CORRESPOND TO LA DOTD SPECIAL DETAILS TC-06 ENTITLED "TRAFFIC CONTROL LAYOUT FOR LANE CLOSURES ON DIVIDED HIGHWAY", TC-00 ENTITLED "TEMPORARY TRAFFIC CONTROL GENERAL NOTES SHEET", AND GUIDANCE FROM MUTCD CURRENTLY IN USE BY DOTD. THE SEQUENCE WOULD THEN BE REPEATED ON THE EASTBOUND LANES.

4. THE CONTRACTOR SHALL BE LIMITED TO ONLY ONE LANE CLOSURE, AT A MAXIMUM LENGTH OF 1320 ' (FEET) PER DIRECTION, AT ANY GIVEN TIME.

5. LENGTH AND DURATION OF LANE CLOSURE SHALL BE INDICATED ON CONTRACTOR'S APPROVED TC PLANS.

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DOTD

MIRABEAU AVENUE

SUGGESTED SEQUENCE OF CONSTRUCTION

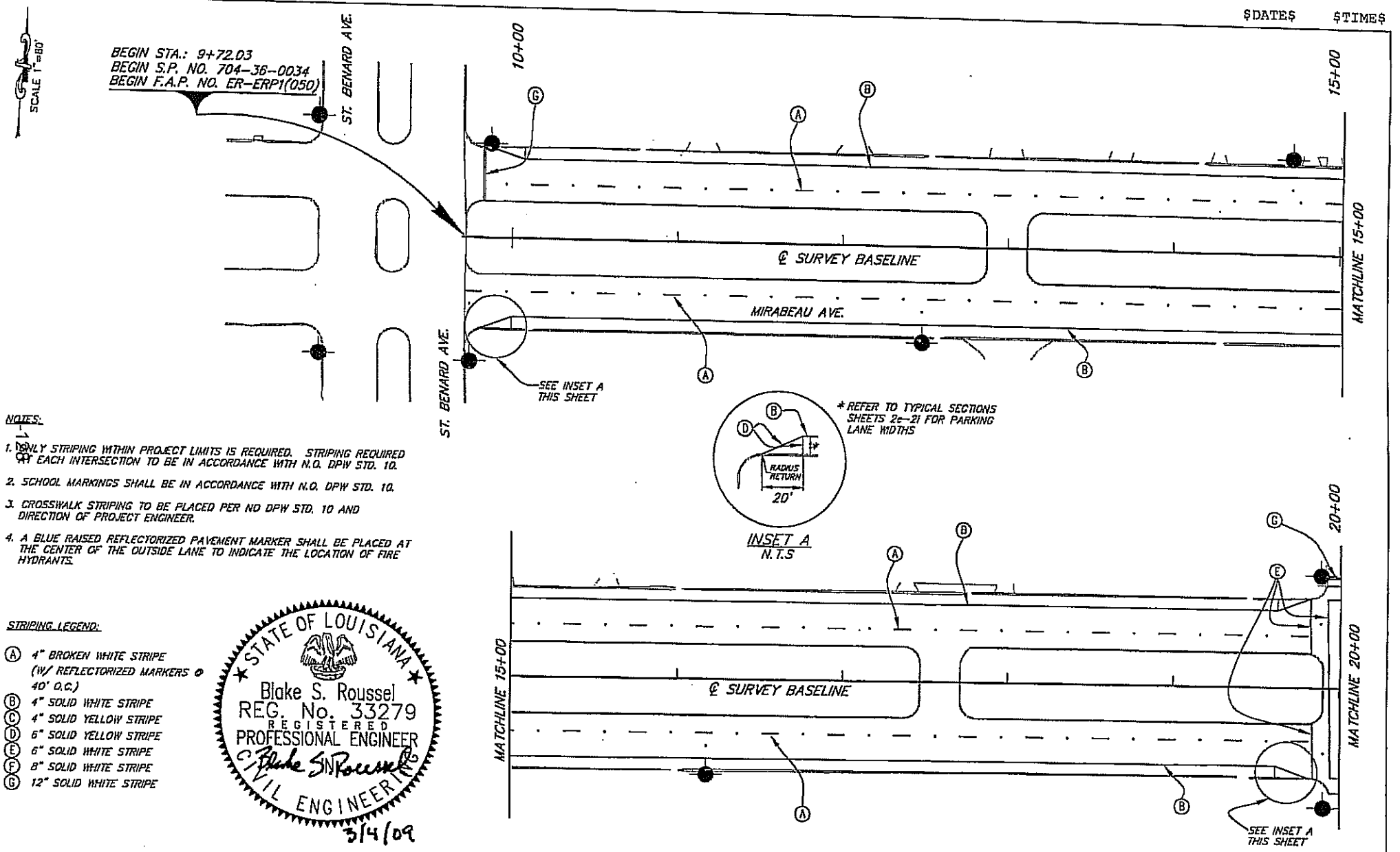
NO.	DATE	REVISION DESCRIPTION	BY

DESIGNED / CHECKED	BSR / JRS	PARISH	ORLEANS
DETAILED / CHECKED	AKW / BSR	FEDERAL PROJECT	ER-ERP1(050)
DATE / SHEET	DEC 2008 / 1 OF 1	STATE PROJECT	704-36-0034

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NOTES:

1. ONLY STRIPING WITHIN PROJECT LIMITS IS REQUIRED. STRIPING REQUIRED AT EACH INTERSECTION TO BE IN ACCORDANCE WITH N.O. DPW STD. 10.
2. SCHOOL MARKINGS SHALL BE IN ACCORDANCE WITH N.O. DPW STD. 10.
3. CROSSWALK STRIPING TO BE PLACED PER NO DPW STD. 10 AND DIRECTION OF PROJECT ENGINEER.
4. A BLUE RAISED REFLECTORIZED PAVEMENT MARKER SHALL BE PLACED AT THE CENTER OF THE OUTSIDE LANE TO INDICATE THE LOCATION OF FIRE HYDRANTS.

STRIPING LEGEND:

- (A) 4" BROKEN WHITE STRIPE (W/ REFLECTORIZED MARKERS @ 40' O.C.)
- (B) 4" SOLID WHITE STRIPE
- (C) 4" SOLID YELLOW STRIPE
- (D) 6" SOLID YELLOW STRIPE
- (E) 6" SOLID WHITE STRIPE
- (F) 8" SOLID WHITE STRIPE
- (G) 12" SOLID WHITE STRIPE

STATE OF LOUISIANA
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3/4/09

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DOTD

MIRABEAU AVENUE

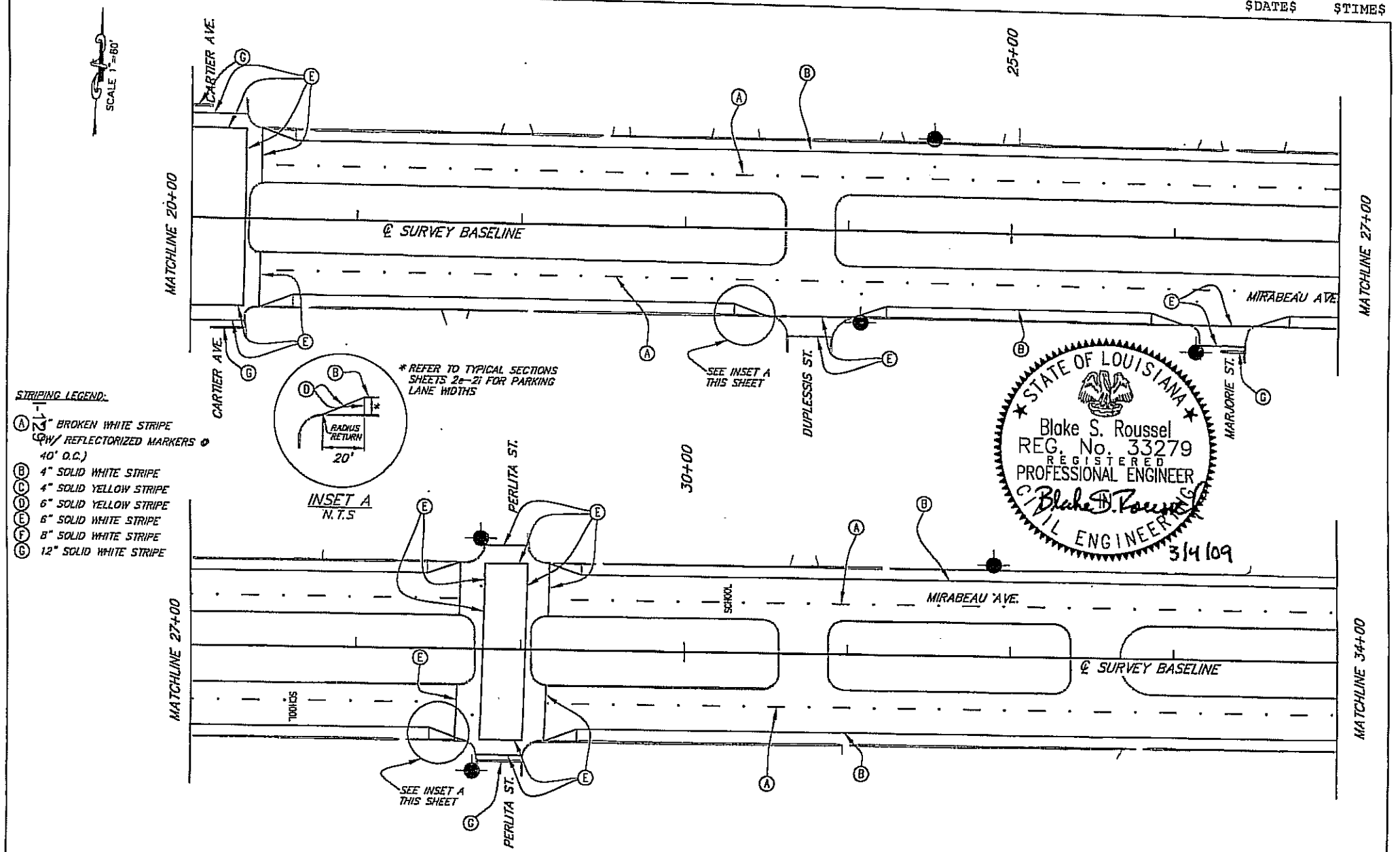
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NO.	DATE	REVISION DESCRIPTION

DESIGNED / CHECKED	BSR / JRS
DETAILED / CHECKED	BAS / BSR
DATE / SHEET	FEB 2009 / 1 OF 8
PARISH	ORLEANS
FEDERAL PROJECT	ER-ERP1(050).
STATE PROJECT	704-36-0034
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FINAL PLANS

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DOTD

MIRABEAU AVENUE

STRIPING SHEET

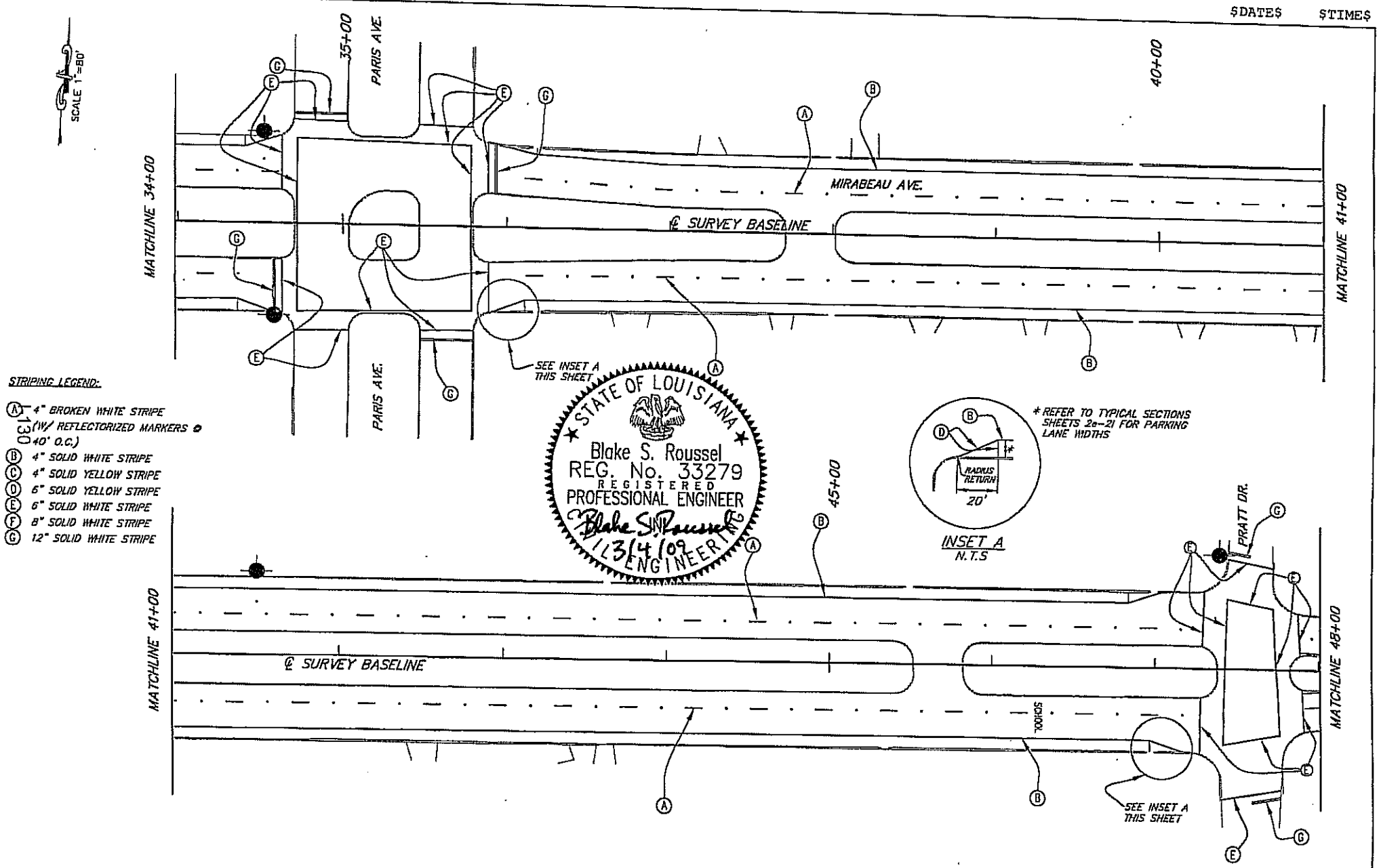
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DESIGNED / CHECKED	BSR / JRS	PARISH	ORLEANS
DETAILED / CHECKED	BAS / JRS	FEDERAL PROJECT	ER-ERP1(050)
DATE / SHEET	FEB 2009 / 2 OF 6	STATE PROJECT	704-36-0034

SHEET NUMBER 21

FINAL PLANS

$DATE$ $TIME$

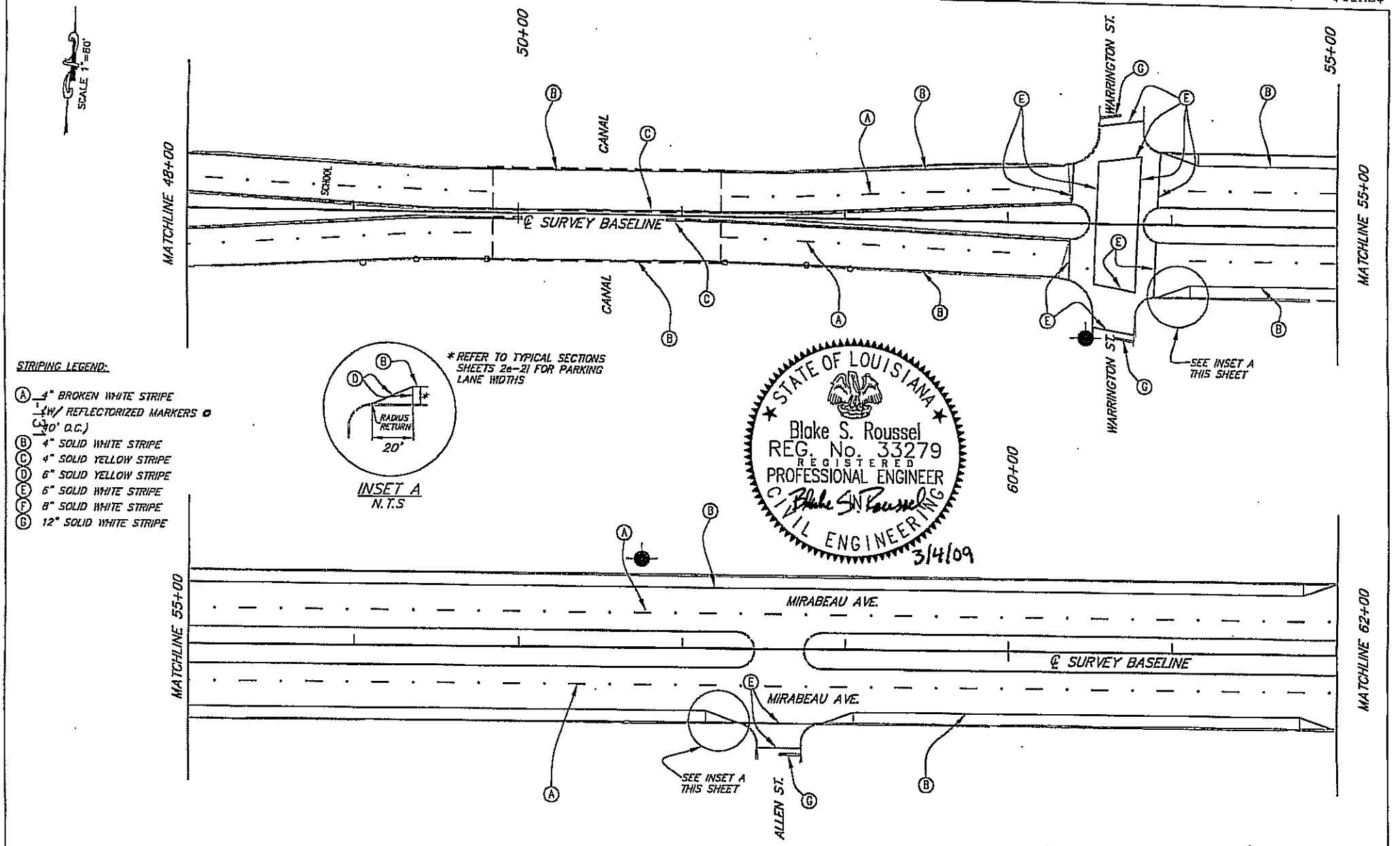


Stanley Consultants, Inc.	DOTD	MIRABEAU AVENUE	DESIGNED BSR / CHECKED JRS	PARISH ORLEANS	SHEET NUMBER 22
		STRIPING SHEET	DETAILED BAS / CHECKED JRS	FEDERAL PROJECT ER-ERP1(050)	
			DATE FEB 2009	STATE 704-36-0034	

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STRIPING LEGEND:

- (A) 4" BROKEN WHITE STRIPE (10'-30' W/ REFLECTORIZED MARKERS @ 40' O.C.)
- (B) 4" SOLID WHITE STRIPE
- (C) 4" SOLID YELLOW STRIPE
- (D) 6" SOLID YELLOW STRIPE
- (E) 6" SOLID WHITE STRIPE
- (F) 8" SOLID WHITE STRIPE
- (G) 12" SOLID WHITE STRIPE

STATE OF LOUISIANA
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DOTD DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT

MIRABEAU AVENUE

STRIPING SHEET

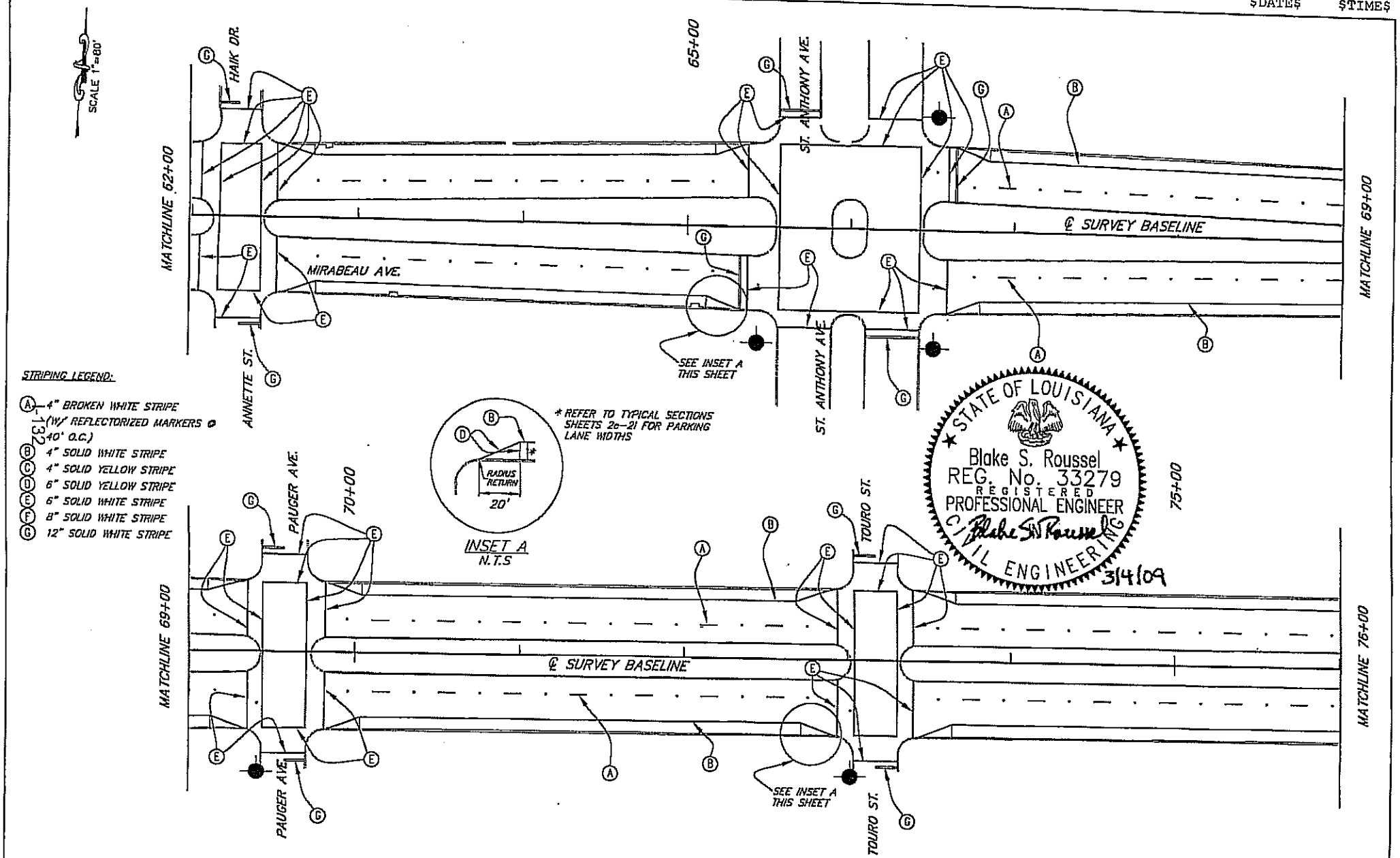
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DETAILED / CHECKED	BAS / JRS	FEDERAL PROJECT	ER-ERP1(050)
DATE / SHEET	FEB 2009 / A OF B	STATE PROJECT	704-36-0034

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FINAL PLANS

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Blake S. Roussel
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CIVIL ENGINEERING
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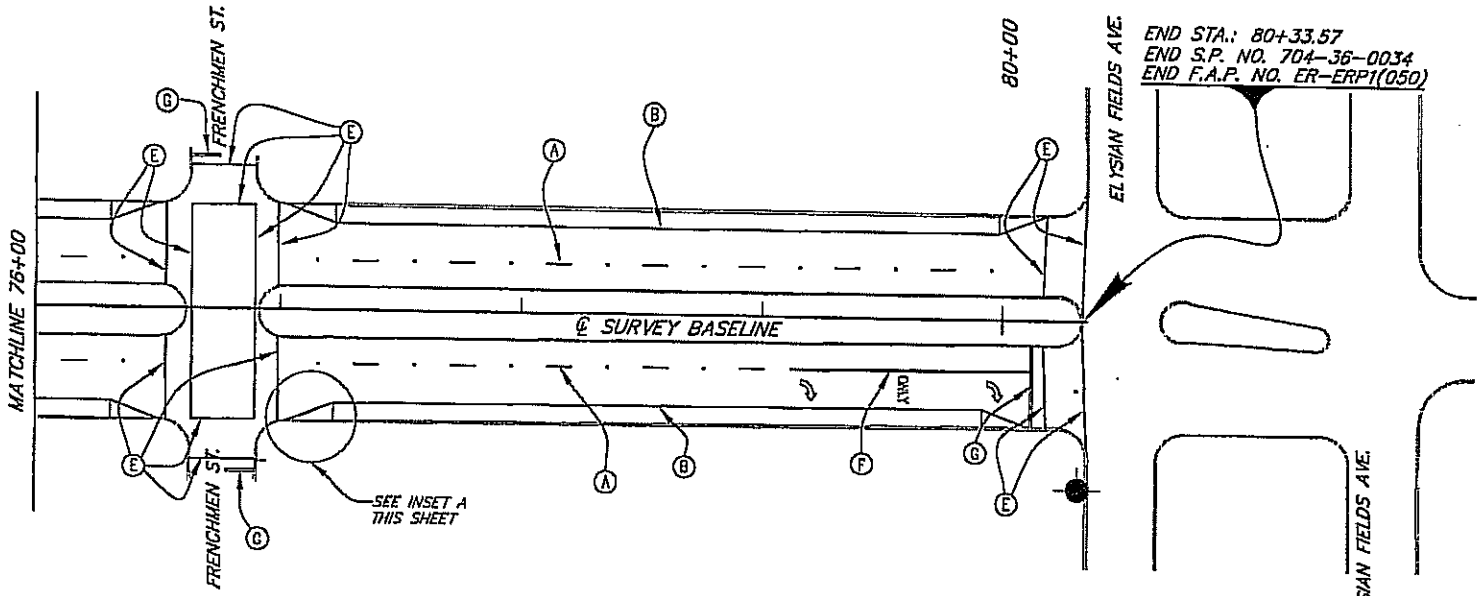
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		DATE FEB 2009 / SHEET 5 OF 6	STATE PROJECT	704-36-0034	

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FINAL PLANS

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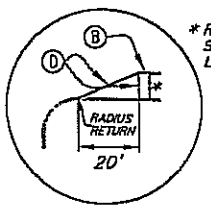
SCALE 1"=80'



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STRIPING LEGEND:

- (A) 4" BROKEN WHITE STRIPE (W/ REFLECTORIZED MARKERS @ 40' O.C.)
- (B) 4" SOLID WHITE STRIPE
- (C) 4" SOLID YELLOW STRIPE
- (D) 6" SOLID YELLOW STRIPE
- (E) 6" SOLID WHITE STRIPE
- (F) 8" SOLID WHITE STRIPE
- (G) 12" SOLID WHITE STRIPE



INSET A
N.T.S

* REFER TO TYPICAL SECTIONS SHEETS 2e-2i FOR PARKING LANE WIDTHS

STATE OF LOUISIANA
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DOTD

MIRABEAU AVENUE

STRIPING SHEET

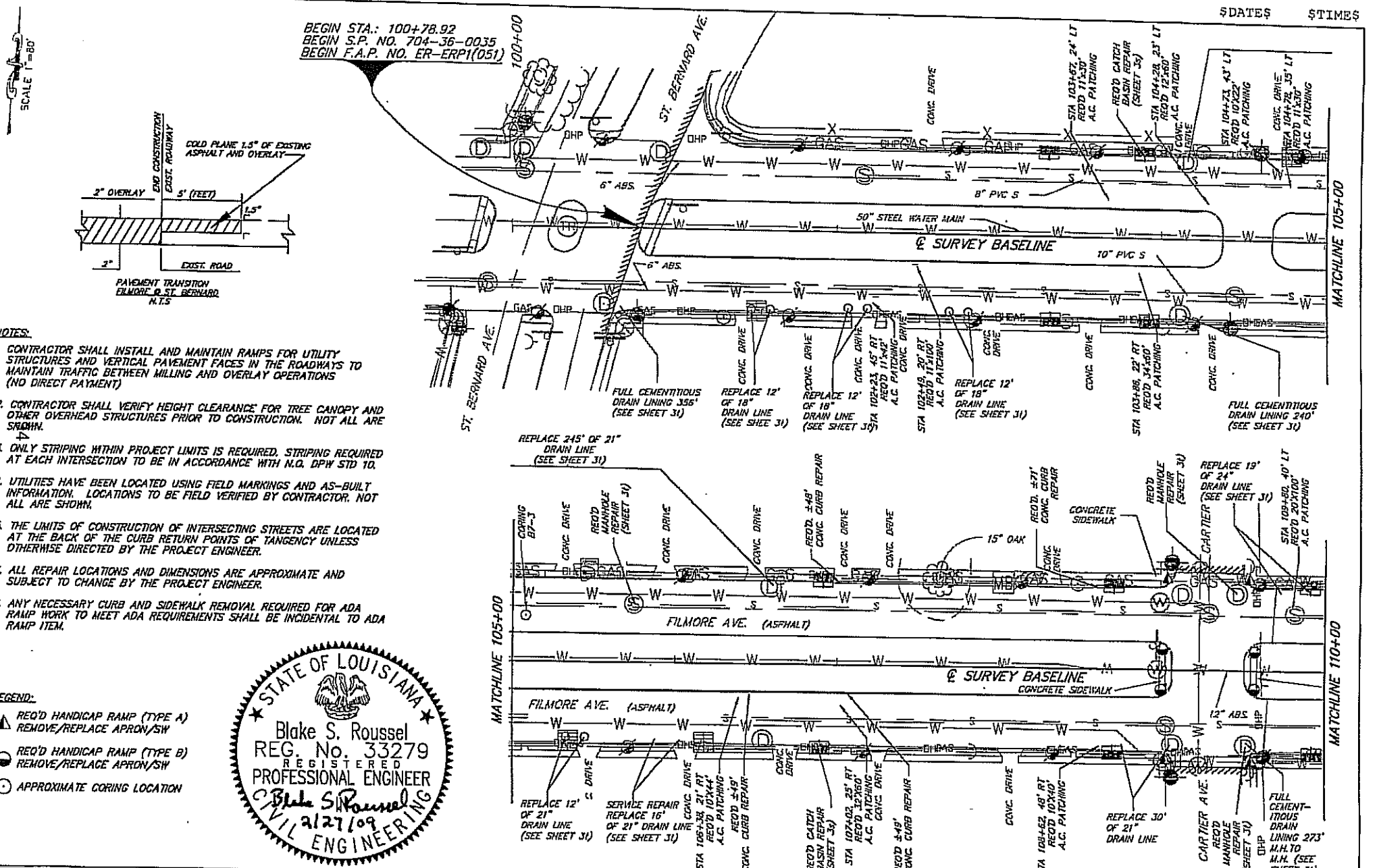
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DETAILED / CHECKED	BAS / JRS	FEDERAL PROJECT	ER-ERP1(050)
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NOTES:

1. CONTRACTOR SHALL INSTALL AND MAINTAIN RAMPS FOR UTILITY STRUCTURES AND VERTICAL PAVEMENT FACES IN THE ROADWAYS TO MAINTAIN TRAFFIC BETWEEN MILLING AND OVERLAY OPERATIONS (NO DIRECT PAYMENT)
2. CONTRACTOR SHALL VERIFY HEIGHT CLEARANCE FOR TREE CANOPY AND OTHER OVERHEAD STRUCTURES PRIOR TO CONSTRUCTION. NOT ALL ARE SHOWN.
3. ONLY STRIPING WITHIN PROJECT LIMITS IS REQUIRED. STRIPING REQUIRED AT EACH INTERSECTION TO BE IN ACCORDANCE WITH N.O. DPW STD 10.
4. UTILITIES HAVE BEEN LOCATED USING FIELD MARKINGS AND AS-BUILT INFORMATION. LOCATIONS TO BE FIELD VERIFIED BY CONTRACTOR. NOT ALL ARE SHOWN.
5. THE LIMITS OF CONSTRUCTION OF INTERSECTING STREETS ARE LOCATED AT THE BACK OF THE CURB RETURN POINTS OF TANGENCY UNLESS OTHERWISE DIRECTED BY THE PROJECT ENGINEER.
6. ALL REPAIR LOCATIONS AND DIMENSIONS ARE APPROXIMATE AND SUBJECT TO CHANGE BY THE PROJECT ENGINEER.
7. ANY NECESSARY CURB AND SIDEWALK REMOVAL REQUIRED FOR ADA RAMP WORK TO MEET ADA REQUIREMENTS SHALL BE INCIDENTAL TO ADA RAMP ITEM.

LEGEND:

- ▲ REQ'D HANDICAP RAMP (TYPE A) REMOVE/REPLACE APRON/SW
- ◒ REQ'D HANDICAP RAMP (TYPE B) REMOVE/REPLACE APRON/SW
- ⊙ APPROXIMATE CORING LOCATION

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FILMORE AVENUE

PLAN SHEET

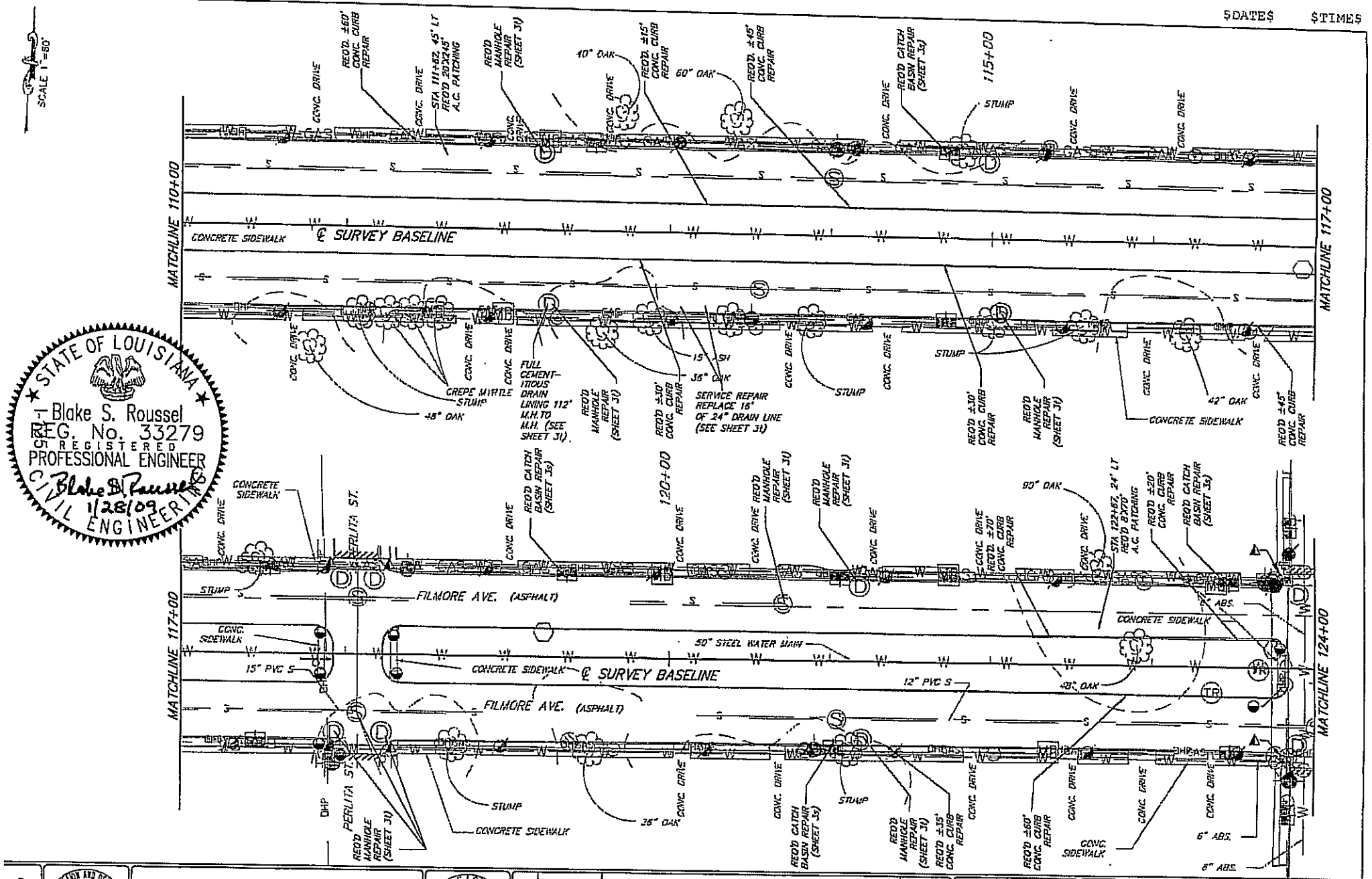
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DETAILED / CHECKED	BAS / JRS	FEDERAL PROJECT	ER-ERP1(051)
DATE	FEB 2009	STATE	

SHEET NUMBER 32

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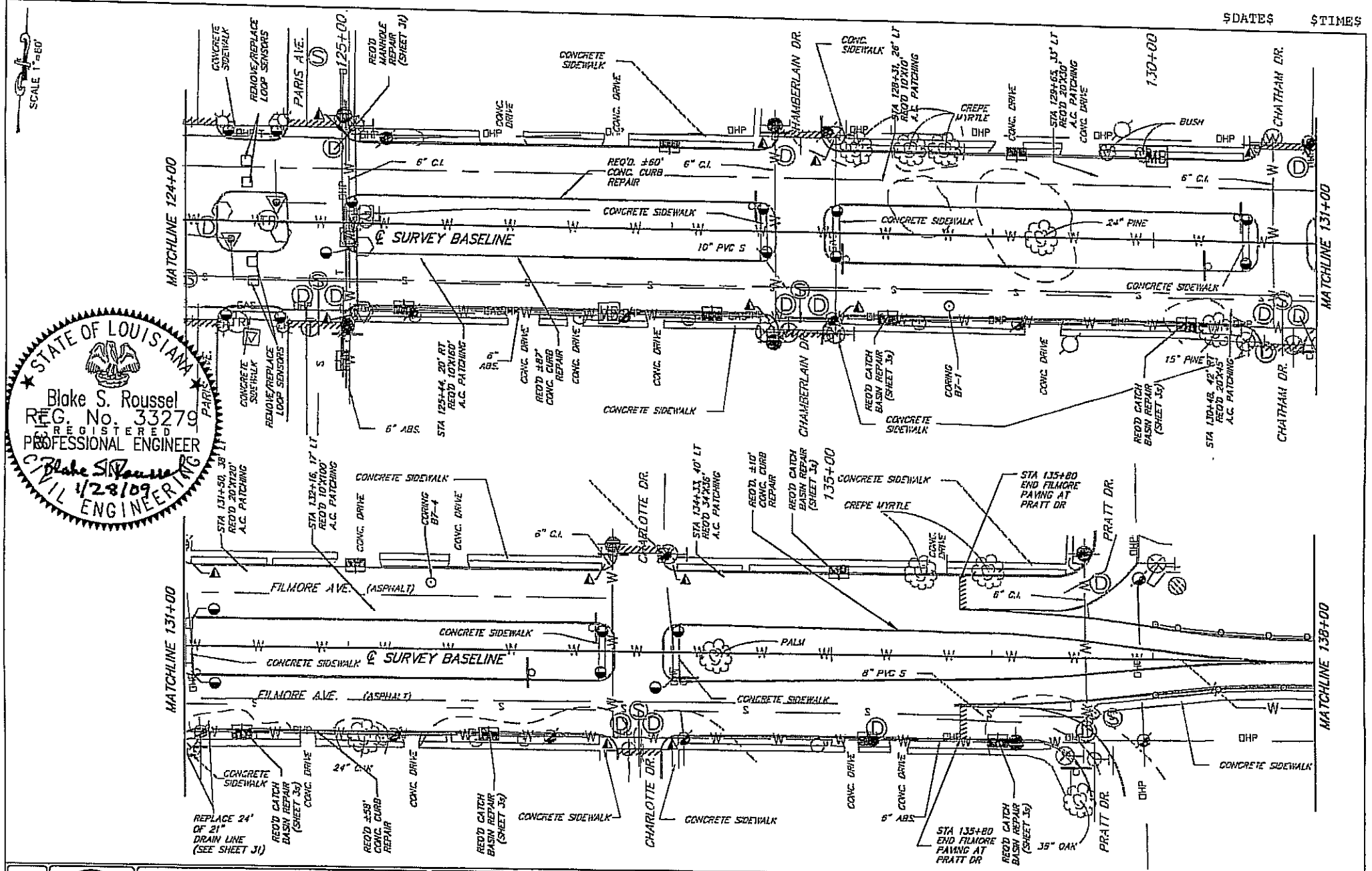
STATE OF LOUISIANA
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Stanley Consultants, Inc.	DOTD	FILMORE AVENUE		DESIGNED BSR CHECKED JRS	PARISH ORLEANS
		PLAN SHEET		DETAILED BAS CHECKED JRS	FEDERAL PROJECT ER-ERP1(051)
			NO. DATE REVISION DESCRIPTION	DATE JAN 2009 SHEET 2 OF 6	STATE PROJECT 704-36-0035

SHEET NUMBER 27

FINAL PLANS

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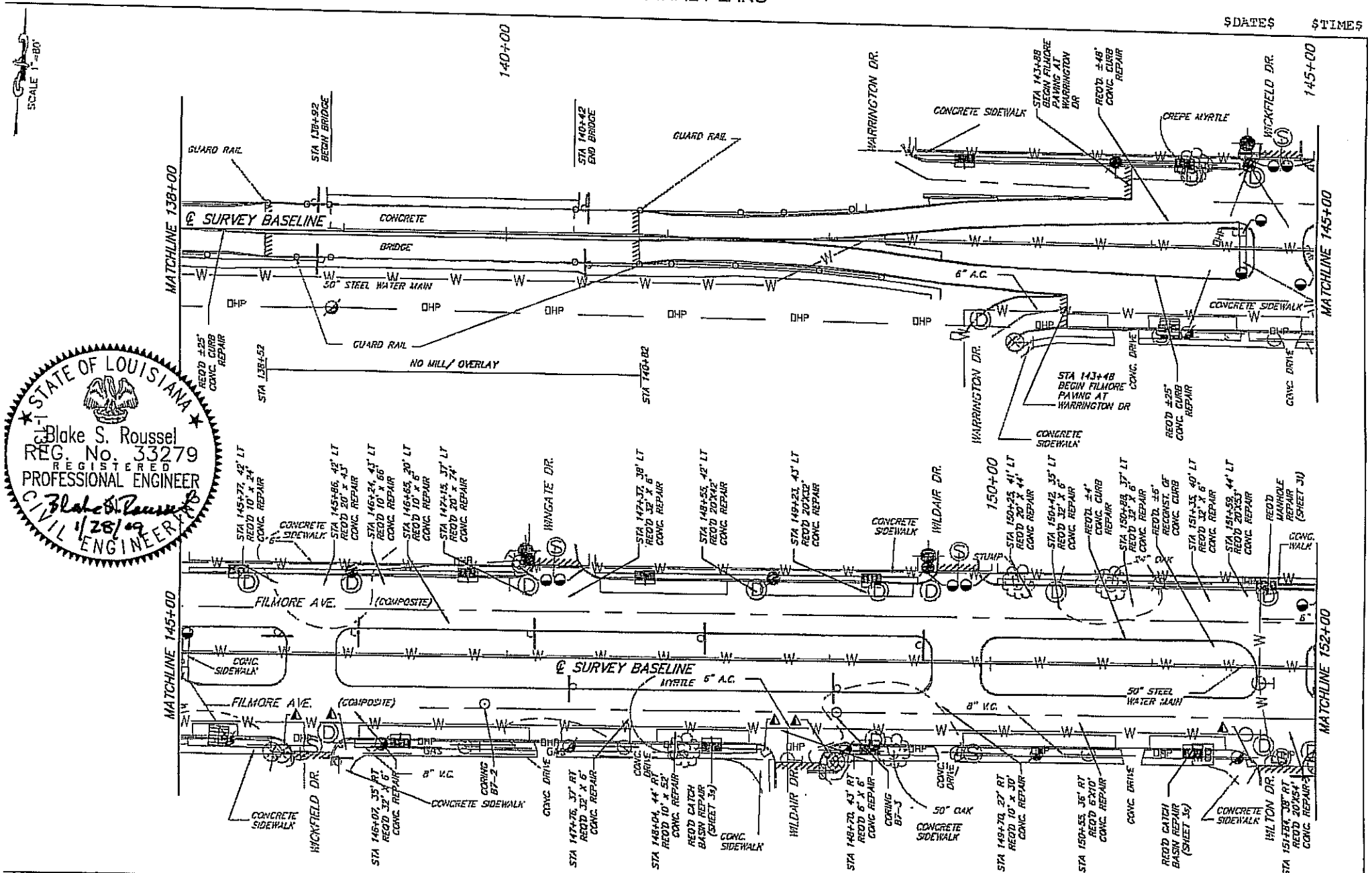
Stanley Consultants, Inc.	DOTD	FILMORE AVENUE	STATE OF LOUISIANA	NO.	DATE	REVISION DESCRIPTION	BY
		PLAN SHEET					

DESIGNED	BSR	PARISH	ORLEANS	SHEET NUMBER
CHECKED	JRS			
DETAILED	BAS	FEDERAL PROJECT	ER--ERP1(051).	28
CHECKED	JRS			
DATE	JAN 2009	STATE PROJECT	704-36-0035	
SHEET	3 OF 6			

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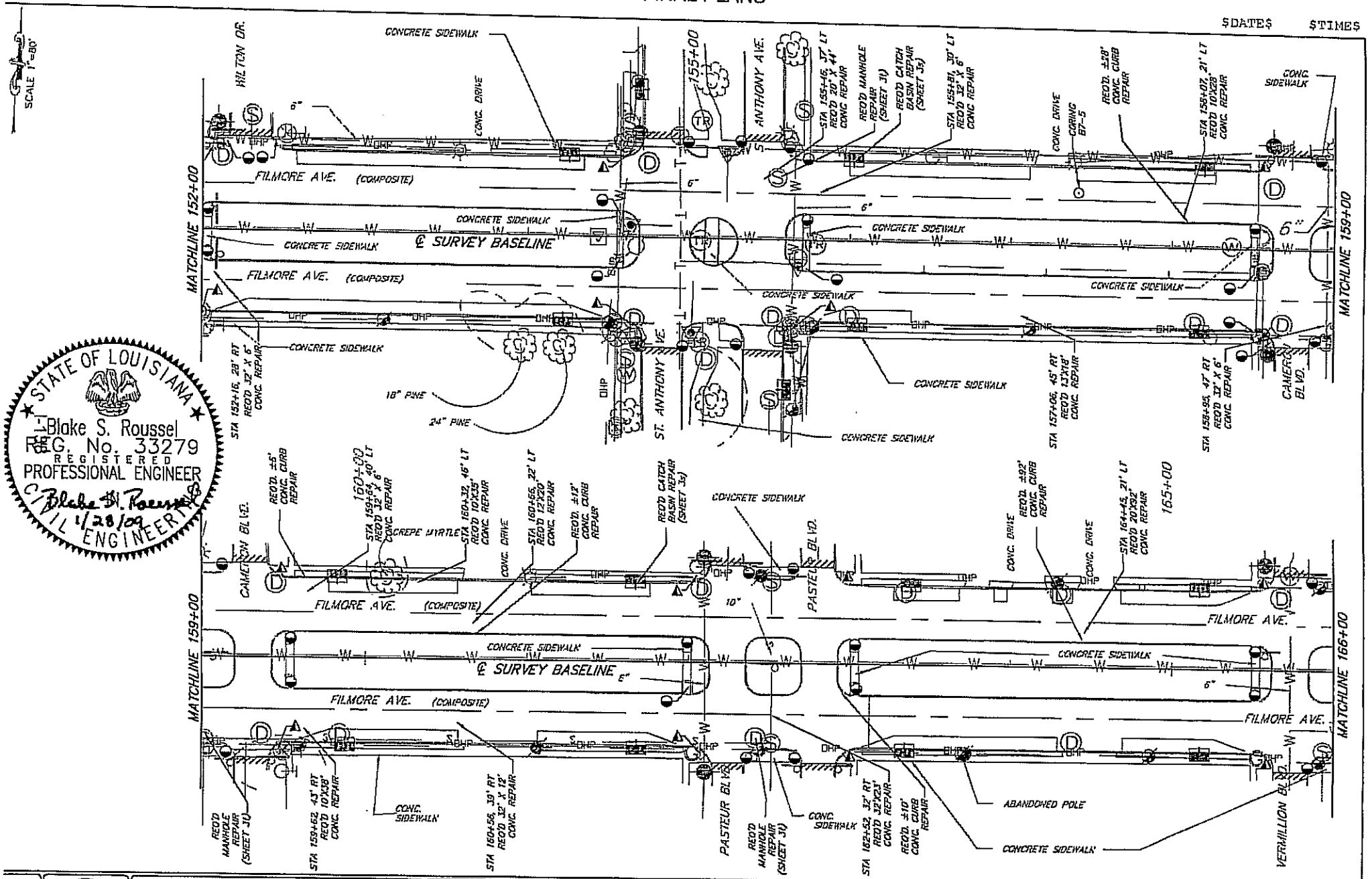
STATE OF LOUISIANA
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Stanley Consultants, Inc.	FILMORE AVENUE	DESIGNED BSR / CHECKED JRS	PARISH	ORLEANS	SHEET NUMBER
	PLAN SHEET	DETAILED BAS / CHECKED JRS	FEDERAL PROJECT	ER-ERP1(051).	29
	NO. DATE REVISION DESCRIPTION	DATE JAN 2009	STATE PROJECT	704-36-0035	

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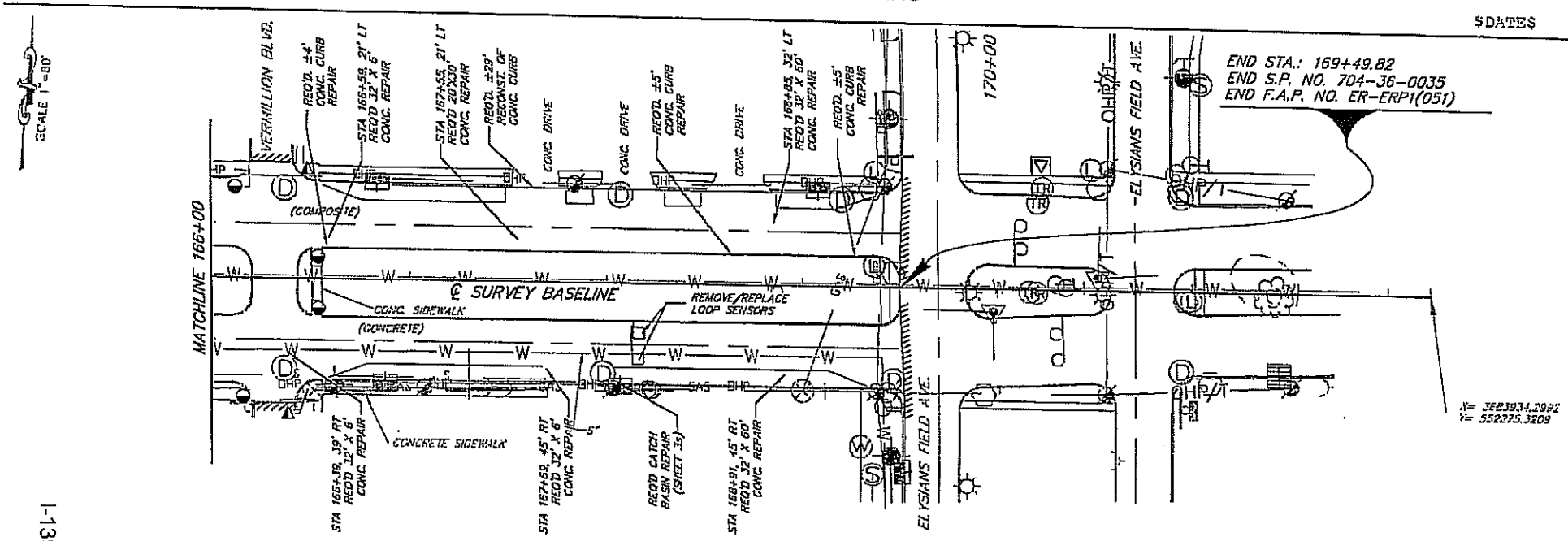
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		PLAN SHEET		DETAILED BAS / CHECKED JRS	FEDERAL PROJECT ER-ERP1(051)
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SHEET NUMBER 30

FINAL PLANS

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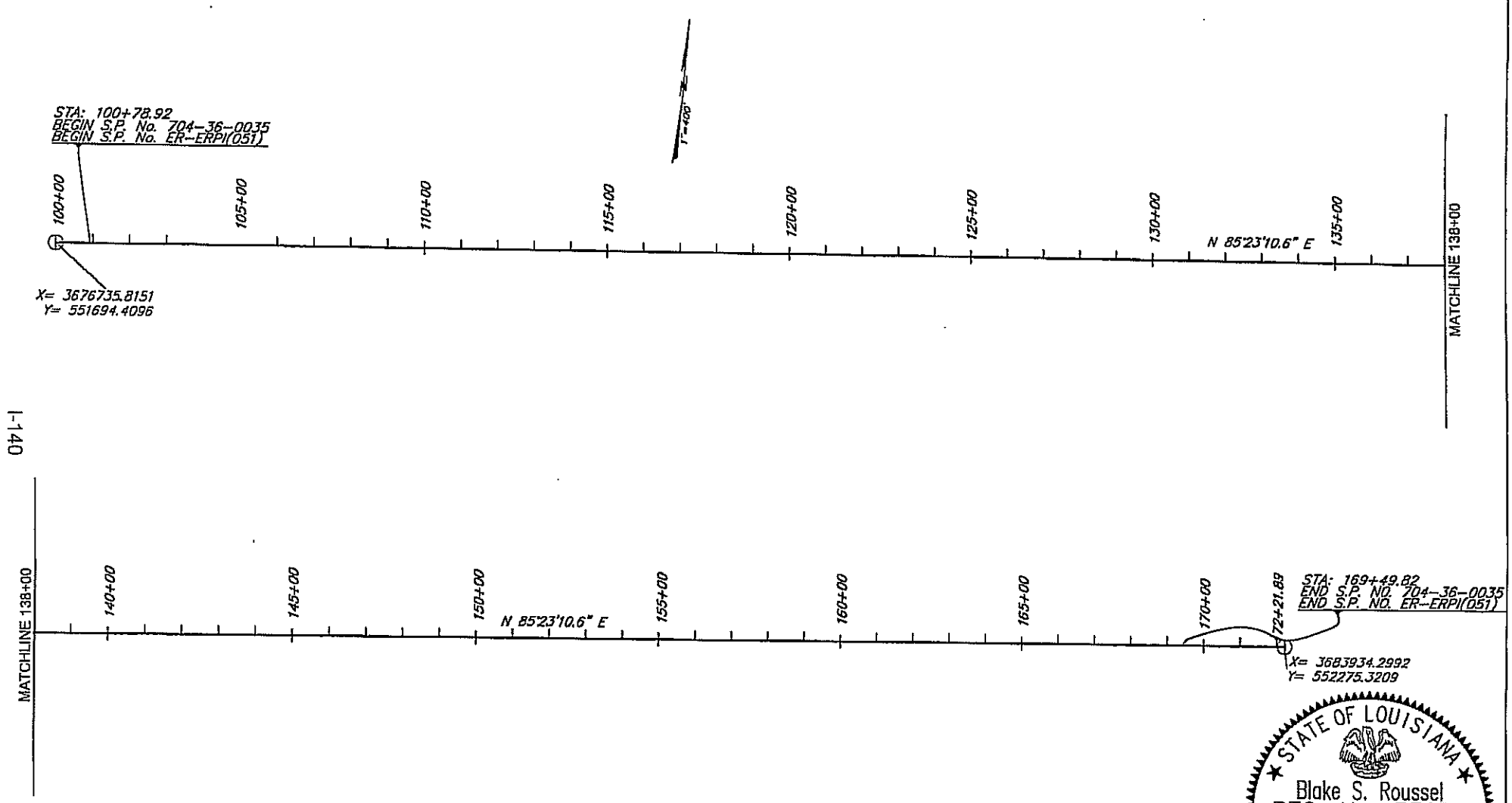
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Stanley Consultants, Inc.	FILMORE AVENUE	DESIGNED BSR / CHECKED JRS	PARISH	ORLEANS	SHEET NUMBER 31
	PLAN SHEET	DETAILED BAS / CHECKED JRS	FEDERAL PROJECT	ER-ERP1(051).	
	NO. DATE REVISION DESCRIPTION BY	DATE JAN 2009 SHEET 6 OF 6	STATE PROJECT	704-36-0035	

FINAL PLANS

$DATE$ $TIME$



NOTES:

1. HORIZONTAL CONTROL POINTS WERE ESTABLISHED BY G.P.S. STATIC OBSERVATIONS ON APRIL 2, 2008.
2. COORDINATES SHOWN HEREON ARE NAD83, HARN (HPGN) STATE PLANE, 1702 LA SOUTH ZONE, US SURVEY FOOT.
3. VERTICAL CONTROL NOT REQUIRED.

STATE OF LOUISIANA
Blake S. Rousse!
REG. No. 33279
REGISTERED
PROFESSIONAL ENGINEER
CIVIL ENGINEERING
1/28/09

Stanley Consultants, Inc.

DOTD TRANSPORTATION AND DEVELOPMENT

FILMORE AVENUE

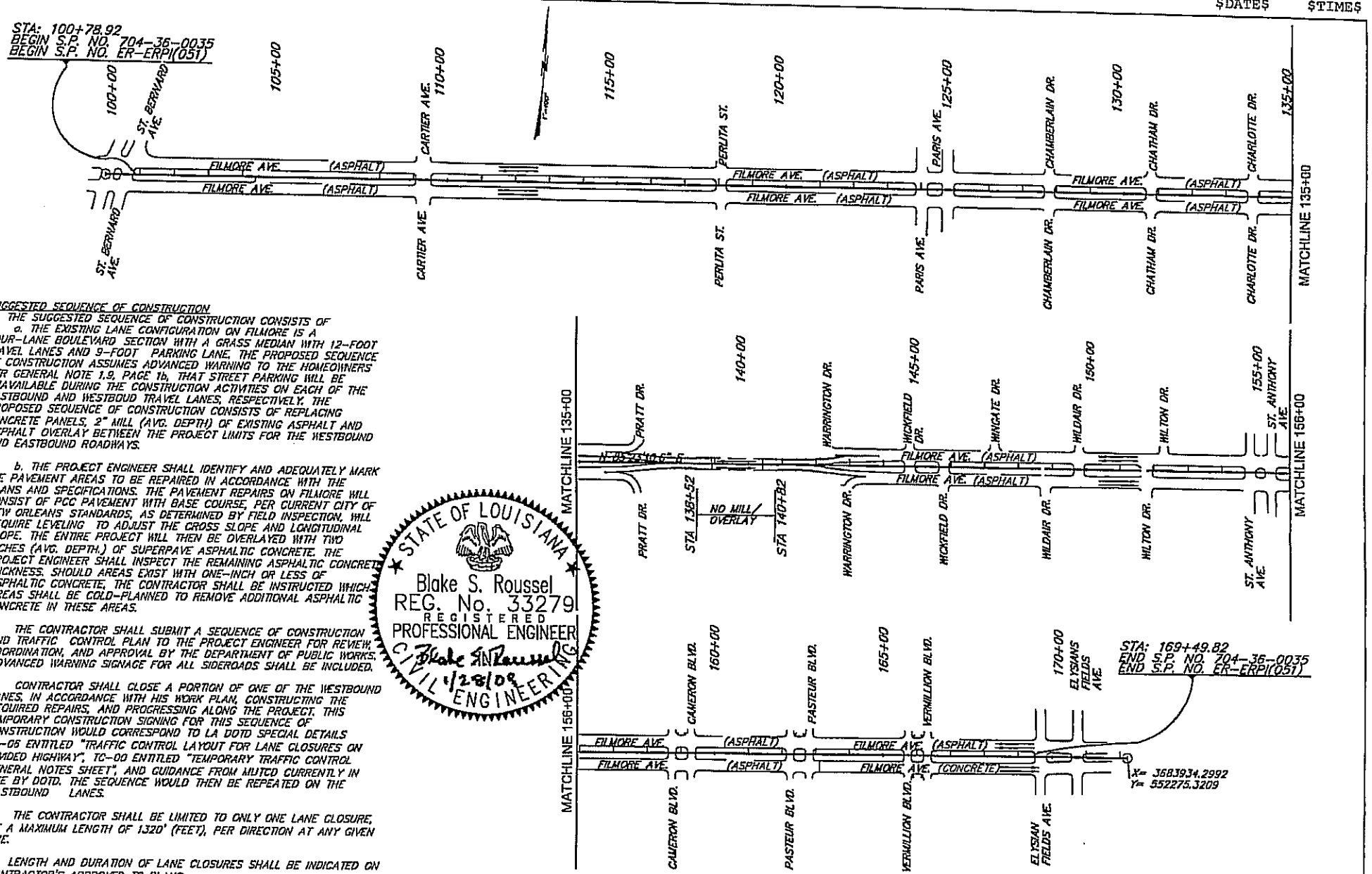
GEOMETRIC LAYOUT

DESIGNED / CHECKED	BSR / JRS	PARISH	ORLEANS
DETAILED / CHECKED	AKW / BSR	FEDERAL PROJECT	ER-ERP1(051)
DATE	DEC 2008	STATE PROJECT	704-36-0035

SHEET NUMBER 32

FINAL PLANS

$DATE$ $TIME$



SUGGESTED SEQUENCE OF CONSTRUCTION

1. a. THE SUGGESTED SEQUENCE OF CONSTRUCTION CONSISTS OF THE EXISTING LANE CONFIGURATION ON FILMORE IS A FOUR-LANE BOULEVARD SECTION WITH A GRASS MEDIAN WITH 12-FOOT TRAVEL LANES AND 9-FOOT PARKING LANE. THE PROPOSED SEQUENCE OF CONSTRUCTION ASSUMES ADVANCED WARNING TO THE HOMEOWNERS PER GENERAL NOTE 1.9, PAGE 1b, THAT STREET PARKING WILL BE UNAVAILABLE DURING THE CONSTRUCTION ACTIVITIES ON EACH OF THE EASTBOUND AND WESTBOUD TRAVEL LANES, RESPECTIVELY. THE PROPOSED SEQUENCE OF CONSTRUCTION CONSISTS OF REPLACING CONCRETE PANELS, 2" MILL (AVG. DEPTH) OF EXISTING ASPHALT AND ASPHALT OVERLAY BETWEEN THE PROJECT LIMITS FOR THE WESTBOUND AND EASTBOUND ROADWAYS.

b. THE PROJECT ENGINEER SHALL IDENTIFY AND ADEQUATELY MARK THE PAVEMENT AREAS TO BE REPAIRED IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS. THE PAVEMENT REPAIRS ON FILMORE WILL CONSIST OF PCC PAVEMENT WITH BASE COURSE, PER CURRENT CITY OF NEW ORLEANS' STANDARDS, AS DETERMINED BY FIELD INSPECTION. WILL REQUIRE LEVELING TO ADJUST THE CROSS SLOPE AND LONGITUDINAL SLOPE. THE ENTIRE PROJECT WILL THEN BE OVERLAYED WITH TWO INCHES (AVG. DEPTH.) OF SUPERPAVE ASPHALTIC CONCRETE. THE PROJECT ENGINEER SHALL INSPECT THE REMAINING ASPHALTIC CONCRETE THICKNESS. SHOULD AREAS EXIST WITH ONE-INCH OR LESS OF ASPHALTIC CONCRETE, THE CONTRACTOR SHALL BE INSTRUCTED WHICH AREAS SHALL BE COLD-PLANNED TO REMOVE ADDITIONAL ASPHALTIC CONCRETE IN THESE AREAS.

2. THE CONTRACTOR SHALL SUBMIT A SEQUENCE OF CONSTRUCTION AND TRAFFIC CONTROL PLAN TO THE PROJECT ENGINEER FOR REVIEW, COORDINATION, AND APPROVAL BY THE DEPARTMENT OF PUBLIC WORKS. ADVANCED WARNING SIGNAGE FOR ALL SIDEROADS SHALL BE INCLUDED.

3. CONTRACTOR SHALL CLOSE A PORTION OF ONE OF THE WESTBOUND LANES, IN ACCORDANCE WITH HIS WORK PLAN, CONSTRUCTING THE REQUIRED REPAIRS, AND PROGRESSING ALONG THE PROJECT. THIS TEMPORARY CONSTRUCTION SIGNING FOR THIS SEQUENCE OF CONSTRUCTION WOULD CORRESPOND TO LA DOTD SPECIAL DETAILS TC-05 ENTITLED "TRAFFIC CONTROL LAYOUT FOR LANE CLOSURES ON DIVIDED HIGHWAY", TC-00 ENTITLED "TEMPORARY TRAFFIC CONTROL GENERAL NOTES SHEET", AND GUIDANCE FROM MUTCD CURRENTLY IN USE BY DOTD. THE SEQUENCE WOULD THEN BE REPEATED ON THE EASTBOUND LANES.

4. THE CONTRACTOR SHALL BE LIMITED TO ONLY ONE LANE CLOSURE, AT A MAXIMUM LENGTH OF 1320' (FEET), PER DIRECTION AT ANY GIVEN TIME.

5. LENGTH AND DURATION OF LANE CLOSURES SHALL BE INDICATED ON CONTRACTOR'S APPROVED TC PLANS.

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DOTD TRANSPORTATION AND DEVELOPMENT

FILMORE AVENUE

SUGGESTED SEQUENCE OF CONSTRUCTION

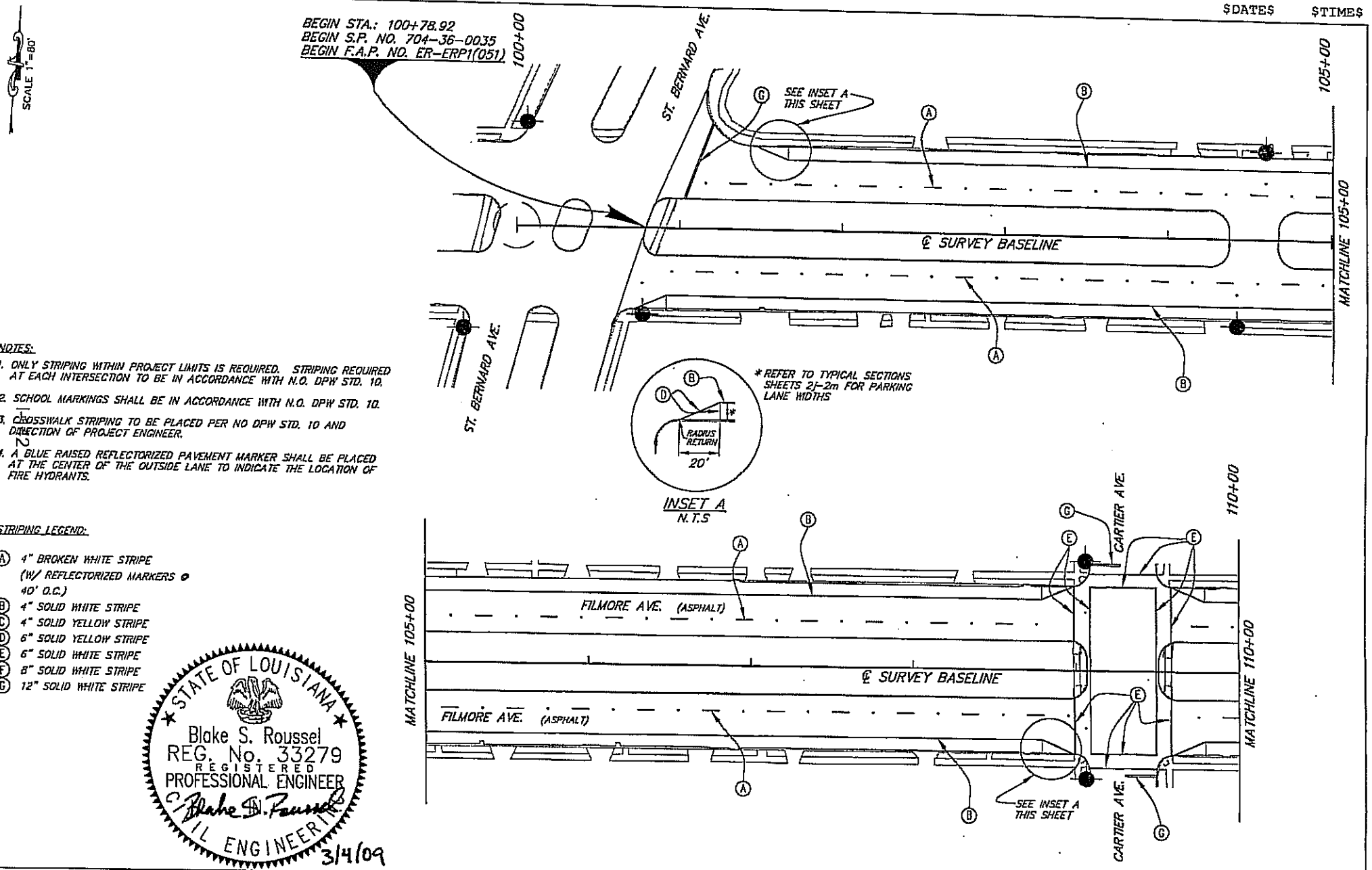
NO.	DATE	REVISION DESCRIPTION

DESIGNED	BSR	PARISH	ORLEANS
CHECKED	JRS		
DETAILED	AKW	FEDERAL PROJECT	ER-ERP1(051)
CHECKED	BSR		
DATE	DEC 2008	STATE PROJECT	704-36-0035
SHEET	1 OF 1		

SHEET NUMBER 13

FINAL PLANS

$DATE$ $TIME$



NOTES:

1. ONLY STRIPING WITHIN PROJECT LIMITS IS REQUIRED. STRIPING REQUIRED AT EACH INTERSECTION TO BE IN ACCORDANCE WITH N.O. DPW STD. 10.
2. SCHOOL MARKINGS SHALL BE IN ACCORDANCE WITH N.O. DPW STD. 10.
3. CROSSWALK STRIPING TO BE PLACED PER NO DPW STD. 10 AND DIRECTION OF PROJECT ENGINEER.
4. A BLUE RAISED REFLECTORIZED PAVEMENT MARKER SHALL BE PLACED AT THE CENTER OF THE OUTSIDE LANE TO INDICATE THE LOCATION OF FIRE HYDRANTS.

STRIPING LEGEND:

- (A) 4" BROKEN WHITE STRIPE (W/ REFLECTORIZED MARKERS @ 40' O.C.)
- (B) 4" SOLID WHITE STRIPE
- (C) 4" SOLID YELLOW STRIPE
- (D) 6" SOLID YELLOW STRIPE
- (E) 6" SOLID WHITE STRIPE
- (F) 8" SOLID WHITE STRIPE
- (G) 12" SOLID WHITE STRIPE

STATE OF LOUISIANA
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3/4/09

Stanley Consultants, Inc.

DOTD

FILMORE AVENUE

STRIPING SHEET

NO.	DATE	REVISION DESCRIPTION	BY

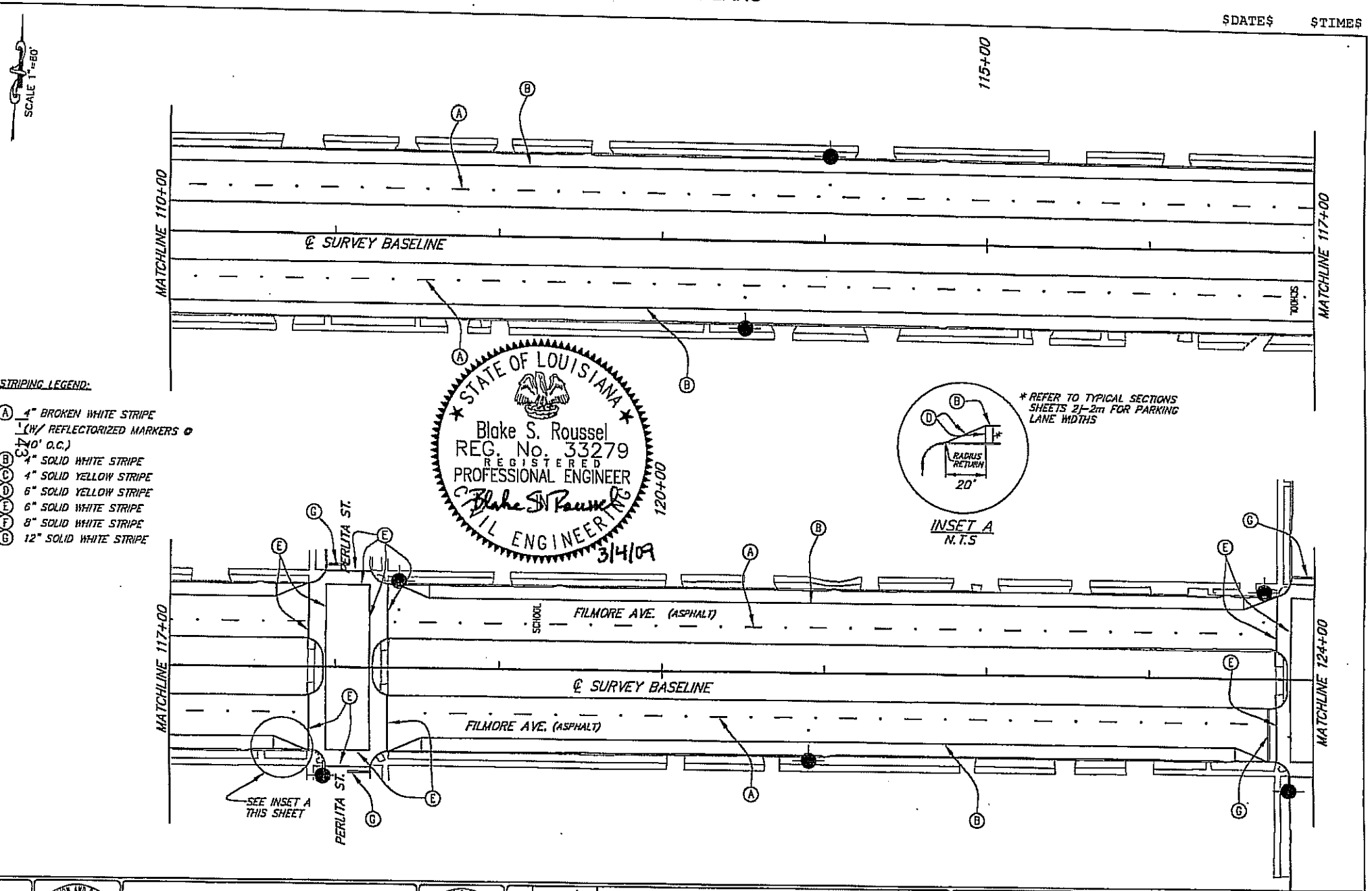
DESIGNED / CHECKED	BSR / JRS	PARISH	ORLEANS
DETAILED / CHECKED	BAS / JRS	FEDERAL PROJECT	ER-ERP1(051)
DATE / SHEET	FEB 2009 / 1 OF 5	STATE PROJECT	704-36-0035

SHEET NUMBER 34

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FINAL PLANS

$DATE$ $TIME$



STRIPING LEGEND:

- (A) 4" BROKEN WHITE STRIPE (W/ REFLECTORIZED MARKERS @ 40' O.C.)
- (B) 4" SOLID WHITE STRIPE
- (C) 4" SOLID YELLOW STRIPE
- (D) 6" SOLID YELLOW STRIPE
- (E) 6" SOLID WHITE STRIPE
- (F) 8" SOLID WHITE STRIPE
- (G) 12" SOLID WHITE STRIPE

Stanley Consultants, Inc.

DOTD

FILMORE AVENUE

STRIPING SHEET

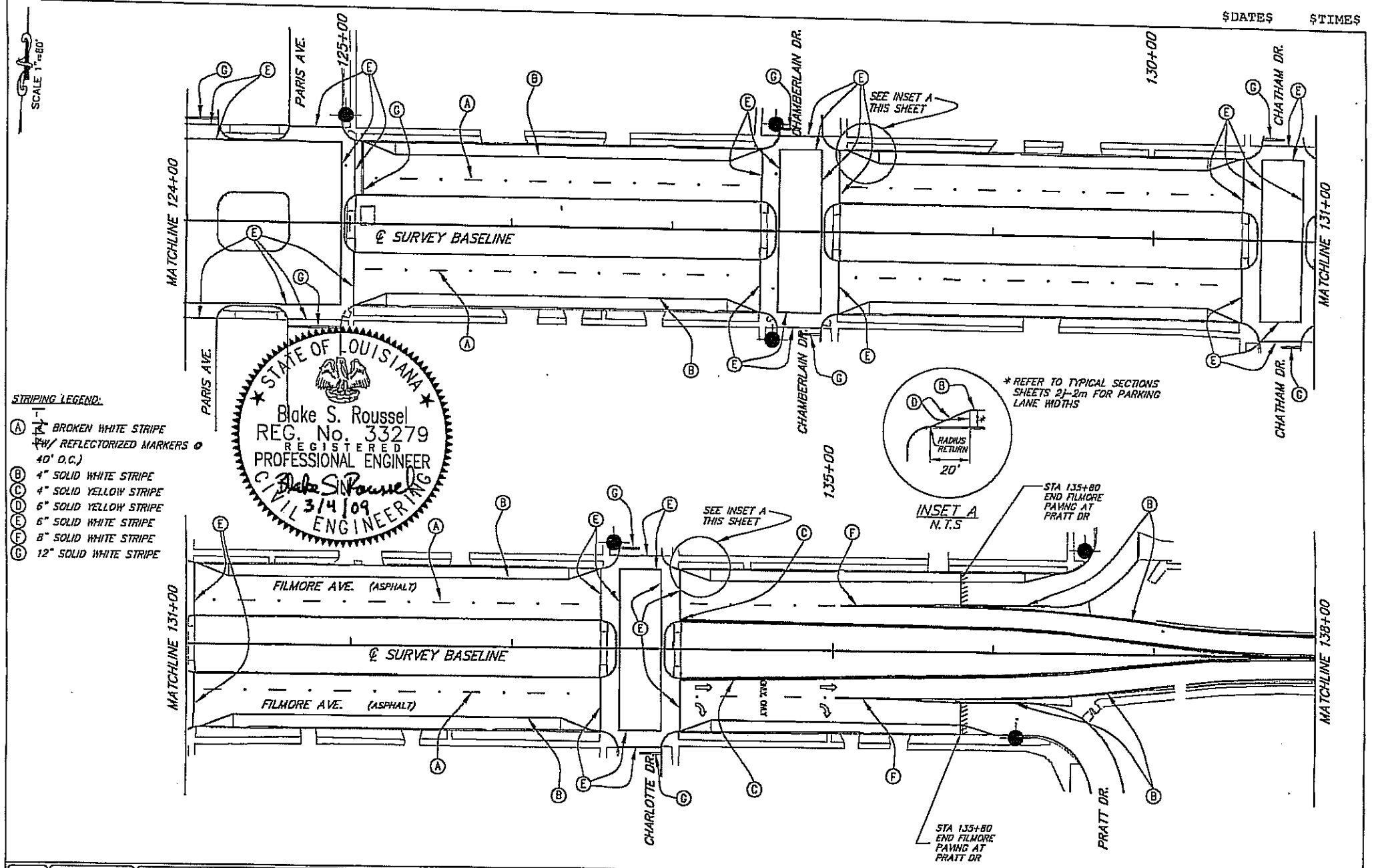
NO.	DATE	REVISION DESCRIPTION	BY

DESIGNED / CHECKED	BSR / JRS	PARISH	ORLEANS
DETAILED / CHECKED	BAS / JRS	FEDERAL PROJECT	ER-ERP1(051)
DATE / SHEET	FEB 2009 / 2 OF 6	STATE PROJECT	704-36-0035

SHEET NUMBER 35

FINAL PLANS

$DATE$ $TIME$



STRIPING LEGEND:

- (A) 4" BROKEN WHITE STRIPE (W/ REFLECTORIZED MARKERS @ 40' O.C.)
- (B) 4" SOLID WHITE STRIPE
- (C) 4" SOLID YELLOW STRIPE
- (D) 6" SOLID YELLOW STRIPE
- (E) 6" SOLID WHITE STRIPE
- (F) 8" SOLID WHITE STRIPE
- (G) 12" SOLID WHITE STRIPE

STATE OF LOUISIANA
Blake S. Roussel
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DOTD TRANSPORTATION AND DEVELOPMENT

FILMORE AVENUE

STRIPING SHEET

STATE OF LOUISIANA

NO	DATE	REVISION DESCRIPTION

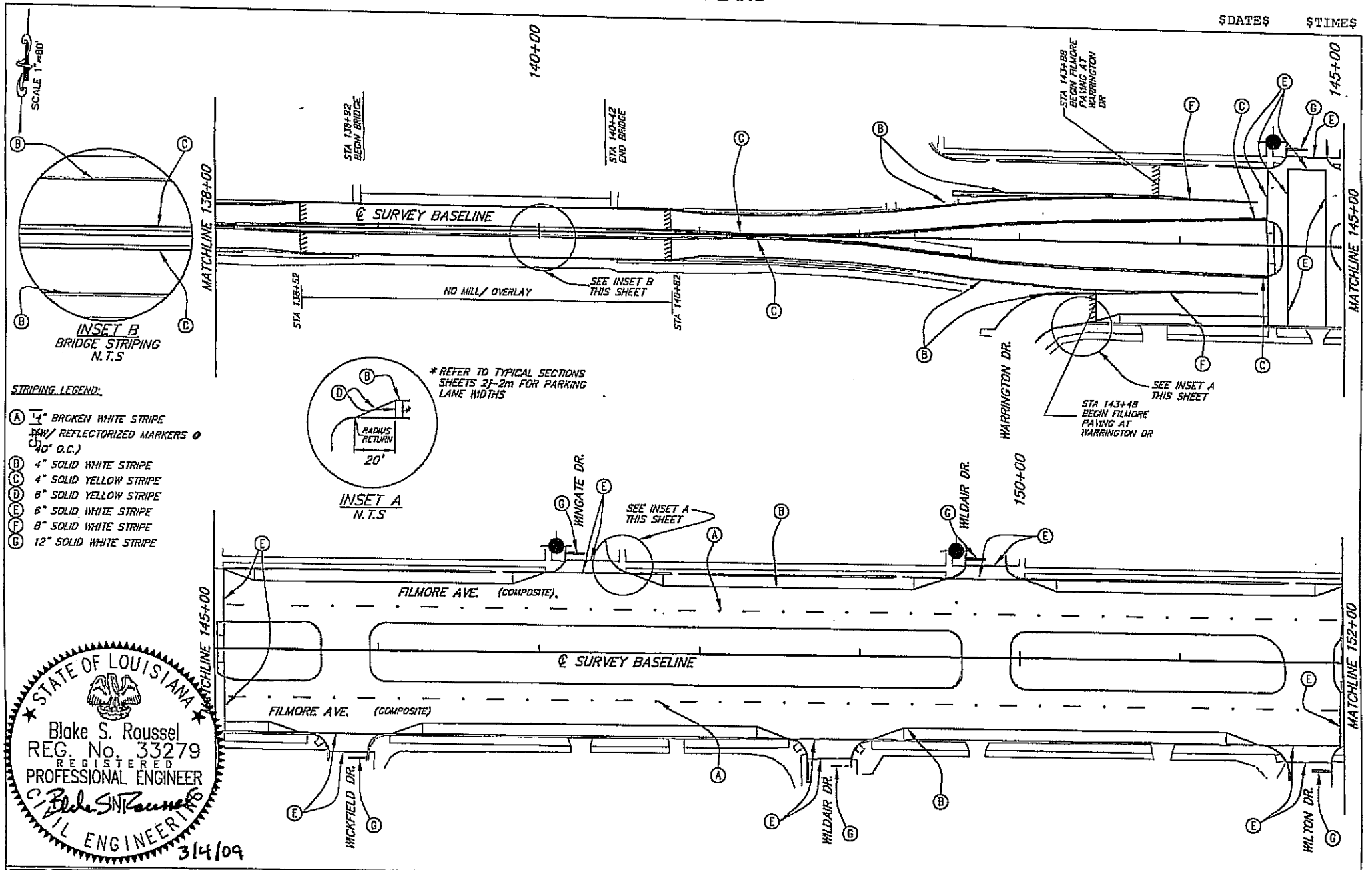
DESIGNED / CHECKED	BSR / JRS	PARISH	ORLEANS
DETAILED / CHECKED	BAS / JRS	FEDERAL PROJECT	ER-ERP1(051).
DATE / SHEET	FEB 2009 / 3 OF 5	STATE PROJECT	704-36-0035

SHEET NUMBER 36

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FINAL PLANS

$DATE$ $TIME$



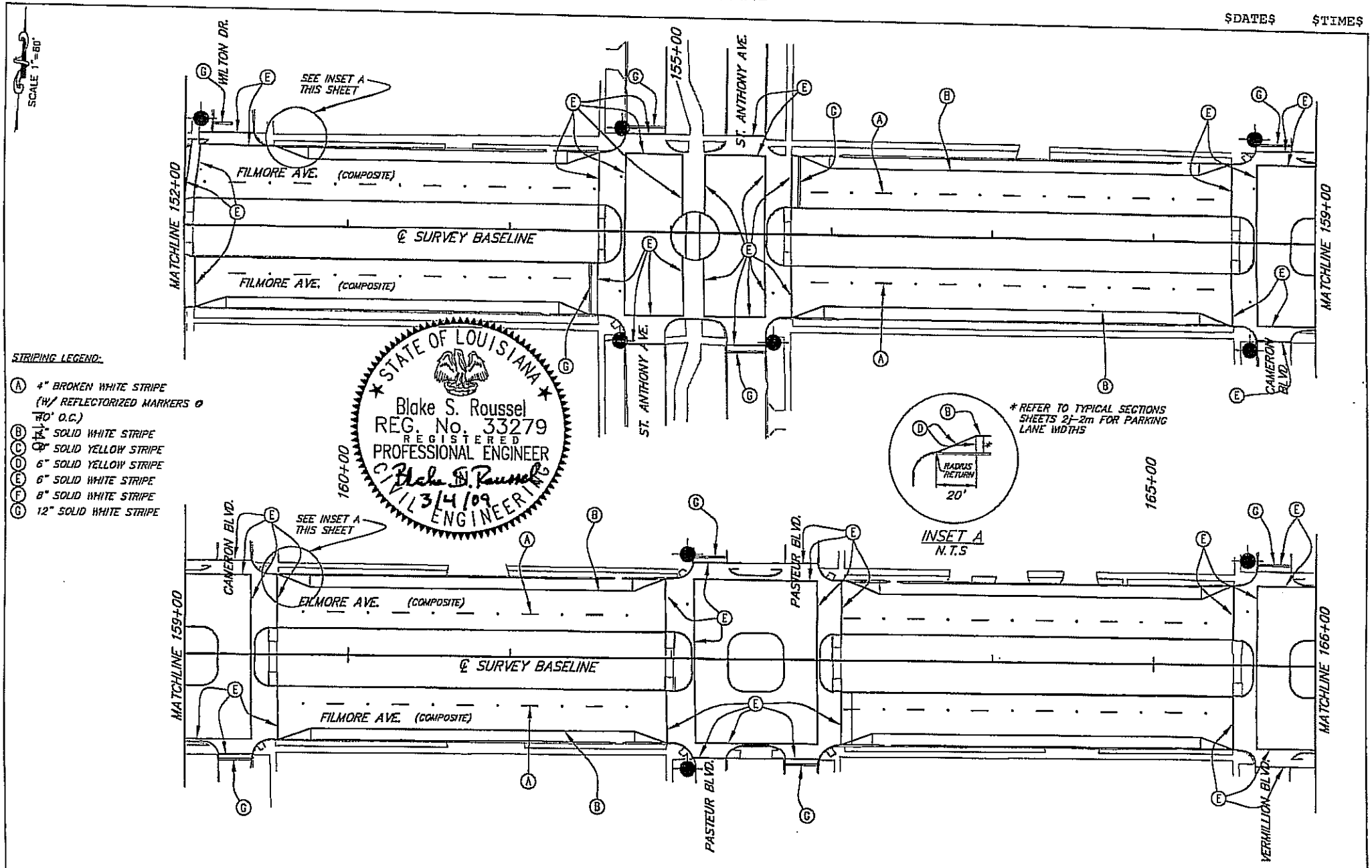
STATE OF LOUISIANA
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Stanley Consultants, Inc.	FILMORE AVENUE	DESIGNED BSR / CHECKED JRS	PARISH ORLEANS
DOTD	STRIPING SHEET	DETAILED BAS / CHECKED JRS	FEDERAL PROJECT ER-ERP1(051).
		DATE FEB 2009	STATE 704-75-0035

SHEET NUMBER 37

FINAL PLANS

$DATE$ $TIME$



STRIPING LEGEND:

- (A) 4" BROKEN WHITE STRIPE (W/ REFLECTORIZED MARKERS @ 40' O.C.)
- (B) 4" SOLID WHITE STRIPE
- (C) 4" SOLID YELLOW STRIPE
- (D) 6" SOLID YELLOW STRIPE
- (E) 6" SOLID WHITE STRIPE
- (F) 8" SOLID WHITE STRIPE
- (G) 12" SOLID WHITE STRIPE

STATE OF LOUISIANA
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FILMORE AVENUE

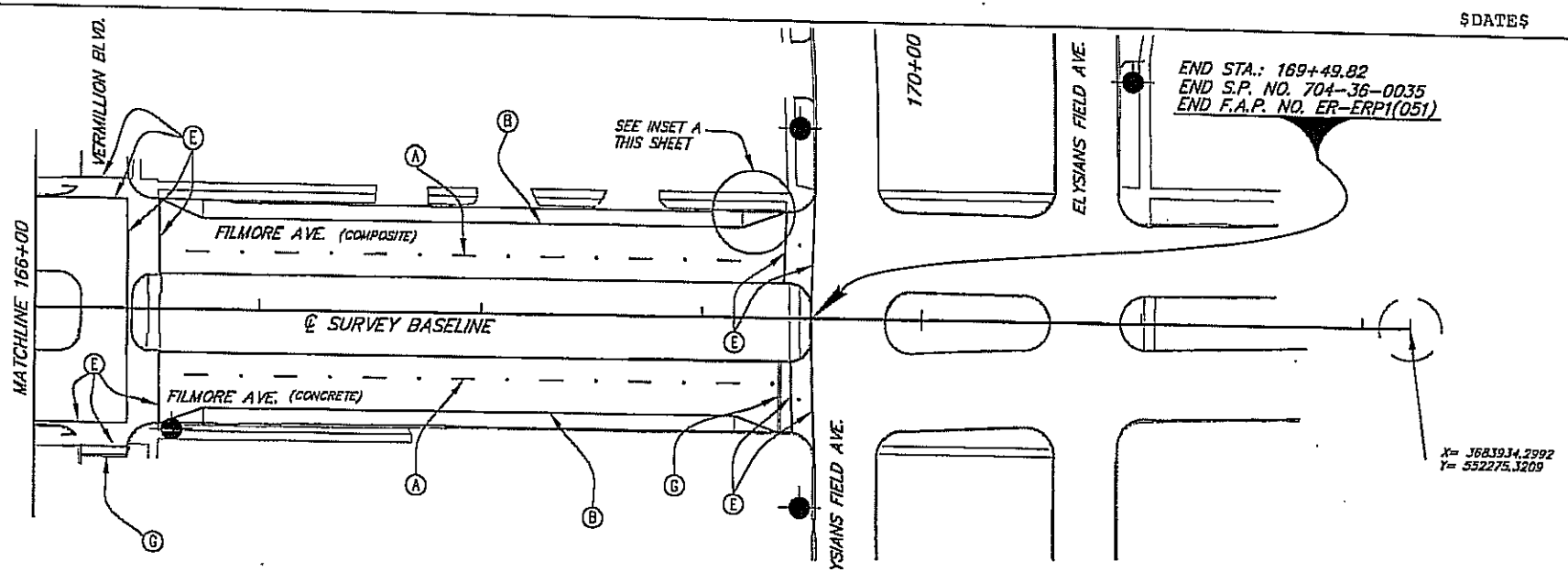
STRIPING SHEET

DESIGNED / CHECKED	BSR / JRS
DETAILED / CHECKED	BAS / JRS
DATE / SHEET	FEB 2009 / E OF E
PARISH	ORLEANS
FEDERAL PROJECT	ER-ERP1(051)
STATE PROJECT	704-36-0035
SHEET NUMBER	38

FINAL PLANS

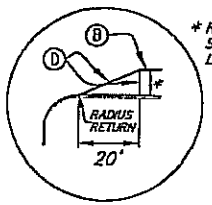
$DATE$ $TIME$

SCALE 1"=80'



STRIPING LEGEND:

- (A) 4" BROKEN WHITE STRIPE (W/ REFLECTORIZED MARKERS @ 40' O.C.)
- (B) 4" SOLID WHITE STRIPE
- (C) 4" SOLID YELLOW STRIPE
- (D) 6" SOLID YELLOW STRIPE
- (E) 6" SOLID WHITE STRIPE
- (F) 8" SOLID WHITE STRIPE
- (G) 12" SOLID WHITE STRIPE



INSET A
N.T.S

* REFER TO TYPICAL SECTIONS SHEETS 2j-2m FOR PARKING LANE WIDTHS

STATE OF LOUISIANA
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STRIPING SHEET

DESIGNED / CHECKED	BSR / JRS
DETAILED / CHECKED	BAS / JRS
DATE / SHEET	FEB 2009 / 6 OF 6
PARISH	ORLEANS
FEDERAL PROJECT	ER-ERP1(051).
STATE PROJECT	704-36-0035
SHEET NUMBER	39

FINAL PLANS

$DATE$ $TIME$

NOTES:

1. CONTRACTOR SHALL INSTALL AND MAINTAIN RAMPS FOR UTILITY STRUCTURES AND VERTICAL PAVEMENT FACES IN THE ROADWAYS TO MAINTAIN TRAFFIC BETWEEN MILLING AND OVERLAY OPERATIONS (NO DIRECT PAYMENT)
2. CONTRACTOR SHALL VERIFY HEIGHT CLEARANCE FOR TREE CANOPY AND OTHER OVERHEAD STRUCTURES PRIOR TO CONSTRUCTION. NOT ALL ARE SHOWN.
3. ONLY STRIPING WITHIN PROJECT LIMITS IS REQUIRED. STRIPING REQUIRED AT EACH INTERSECTION TO BE IN ACCORDANCE WITH N.O. DPW STD. 10.
4. UTILITIES HAVE BEEN LOCATED USING FIELD MARKINGS AND AS-BUILT INFORMATION. LOCATIONS TO BE FIELD VERIFIED BY CONTRACTOR. NOT ALL ARE SHOWN.
5. THE LIMITS OF CONSTRUCTION OF INTERSECTING STREETS ARE LOCATED AT THE BACK OF THE CURB RETURN POINTS OF TANGENCY UNLESS OTHERWISE DIRECTED BY THE PROJECT ENGINEER.
6. ALL REPAIR LOCATIONS AND DIMENSIONS ARE APPROXIMATE AND SUBJECT TO CHANGE BY THE PROJECT ENGINEER.
7. ANY NECESSARY CURB AND SIDEWALK REMOVAL REQUIRED FOR ADA RAMP WORK TO MEET ADA REQUIREMENTS SHALL BE INCIDENTAL TO ADA RAMP ITEM.

LEGEND:

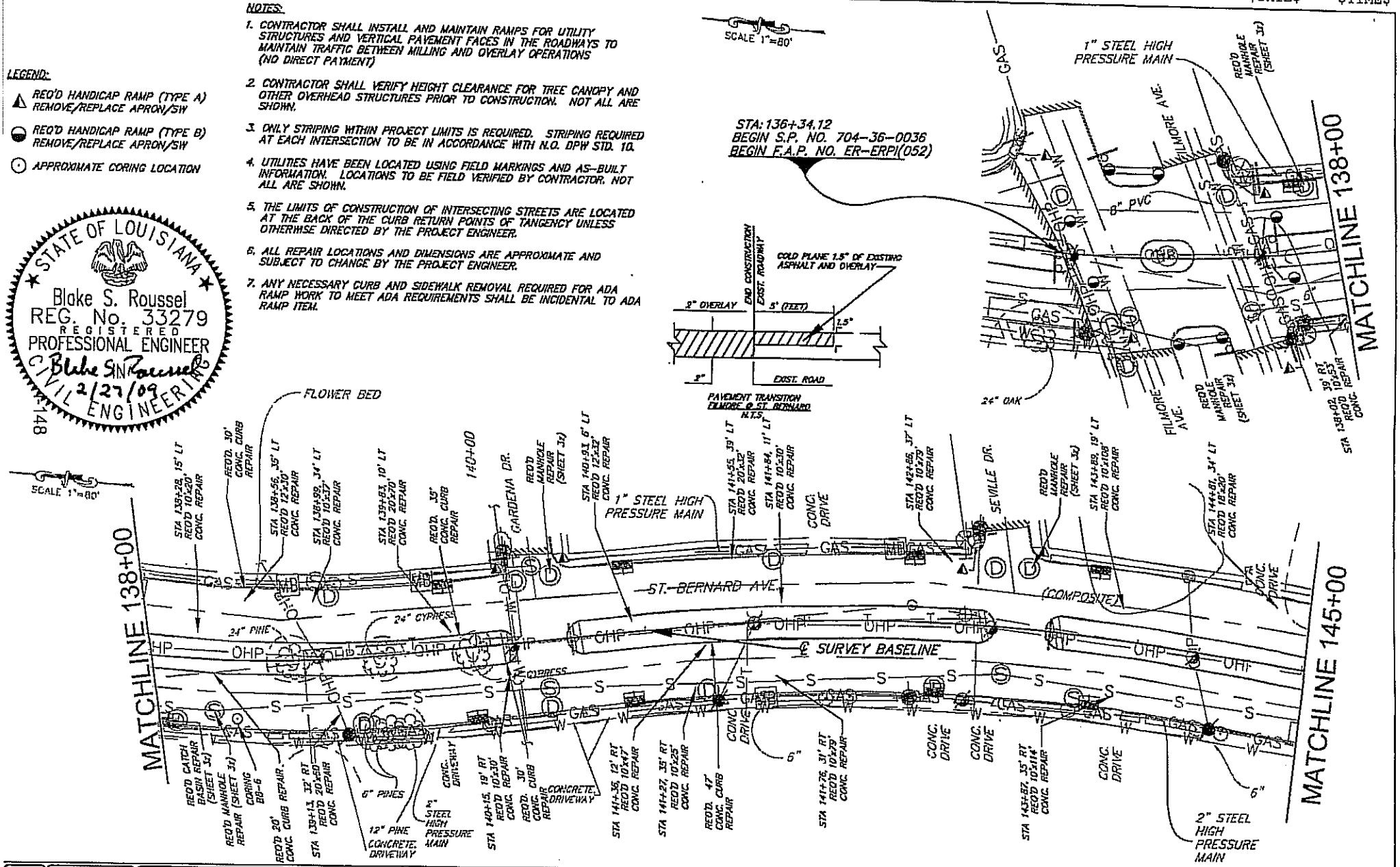
- ▲ REQ'D HANDICAP RAMP (TYPE A) REMOVE/REPLACE APRON/SW
- ◒ REQ'D HANDICAP RAMP (TYPE B) REMOVE/REPLACE APRON/SW
- ⊙ APPROXIMATE CORING LOCATION

STATE OF LOUISIANA
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2/27/09
148

SCALE 1"=80'

STA: 136+34.12
BEGIN S.P. NO. 704-36-0036
BEGIN F.A.P. NO. ER-ERP1(052)

COLD PLANE 1.5" OF EXISTING ASPHALT AND OVERLAY
2" OVERLAY
END CONSTRUCTION EXIST. ROADWAY
5' (FEET)
1.5"
2"
EXIST. ROAD
PAVEMENT TRANSITION
REMOVE @ ST. BERNARD
N.T.S.

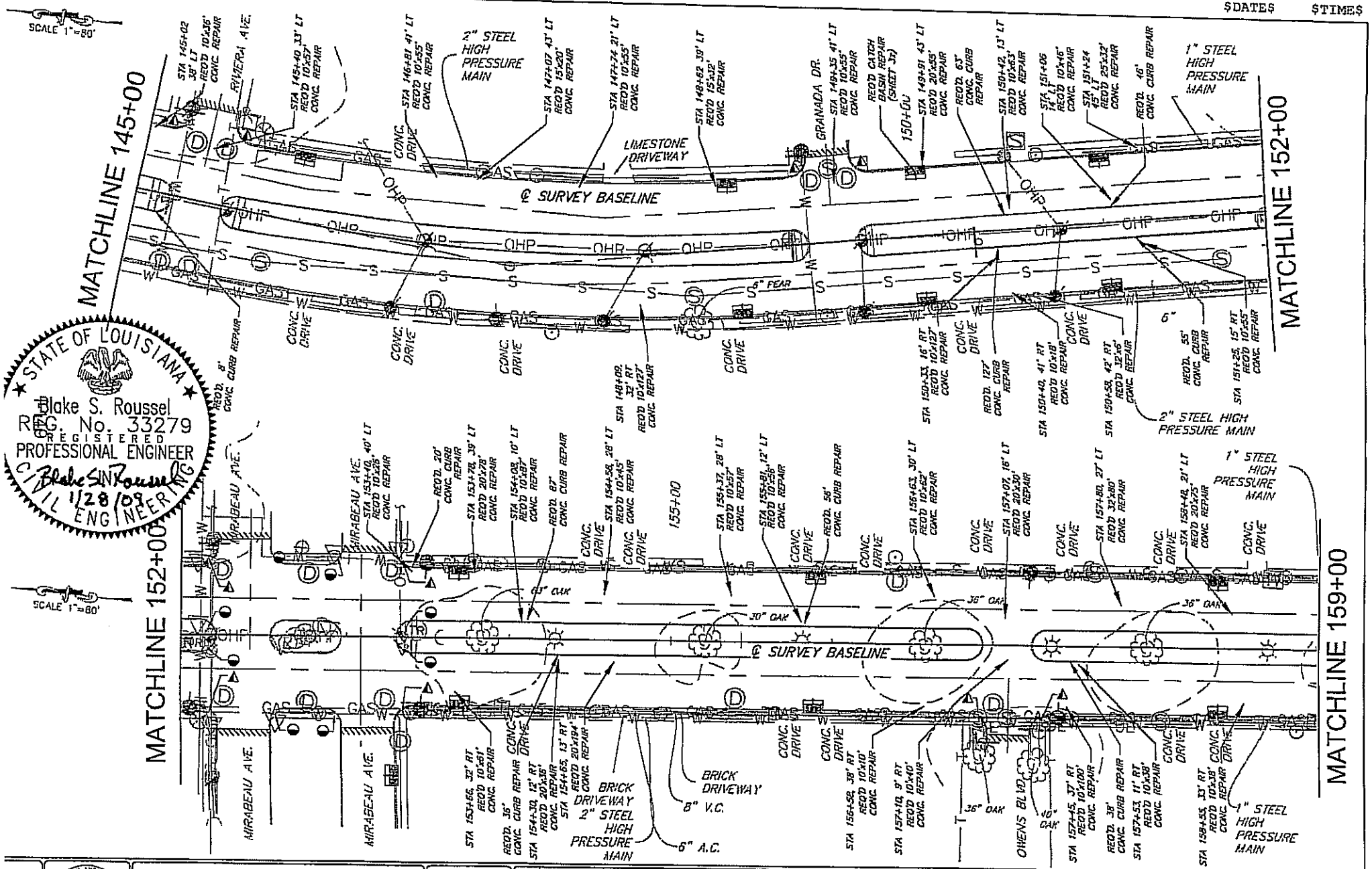


Stanley Consultants, Inc.	ST. BERNARD AVENUE	DESIGNED BSR / CHECKED JRS	PARISH ORLEANS
DOTD	PLAN SHEET	DETAILED BAS / CHECKED JRS	FEDERAL PROJECT ER-ERP1(052).
		DATE FEB 2009	STATE 704-36-0036

SHEET NUMBER 40

FINAL PLANS

$DATE$ $TIME$



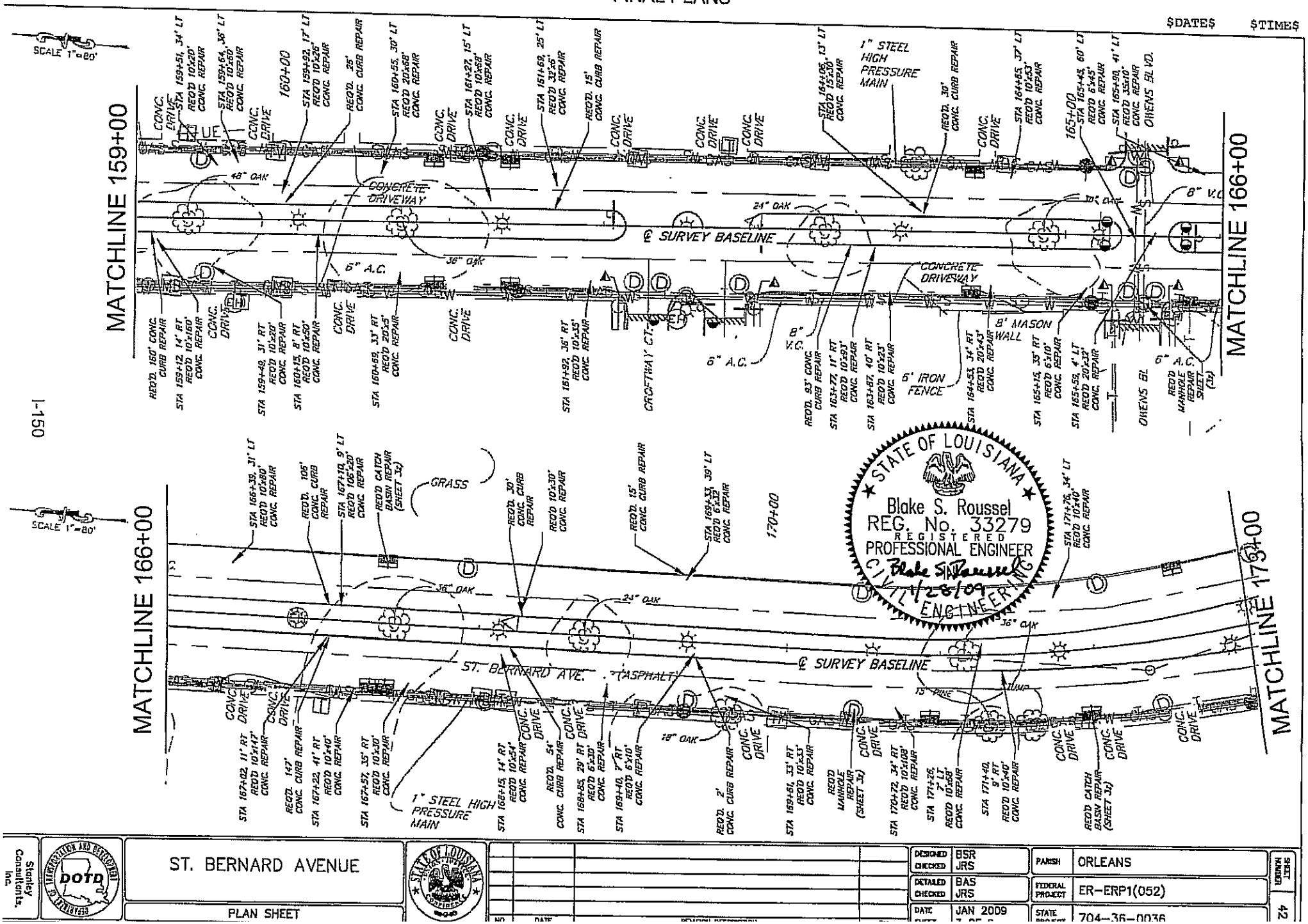
STATE OF LOUISIANA
Blake S. Roussel
REG. No. 33279
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PROFESSIONAL ENGINEER
1/28/09
CIVIL ENGINEERING

SCALE 1"=50'

Stanley Consultants, Inc.	ST. BERNARD AVENUE	DESIGNED BSR / CHECKED JRS	PARISH ORLEANS
DOTD	PLAN SHEET	DETAILED BAS / CHECKED JRS	FEDERAL PROJECT ER-ERP1(052)
		DATE JAN 2009	STATE 704-36-0076

SHEET NUMBER 41

FINAL PLANS



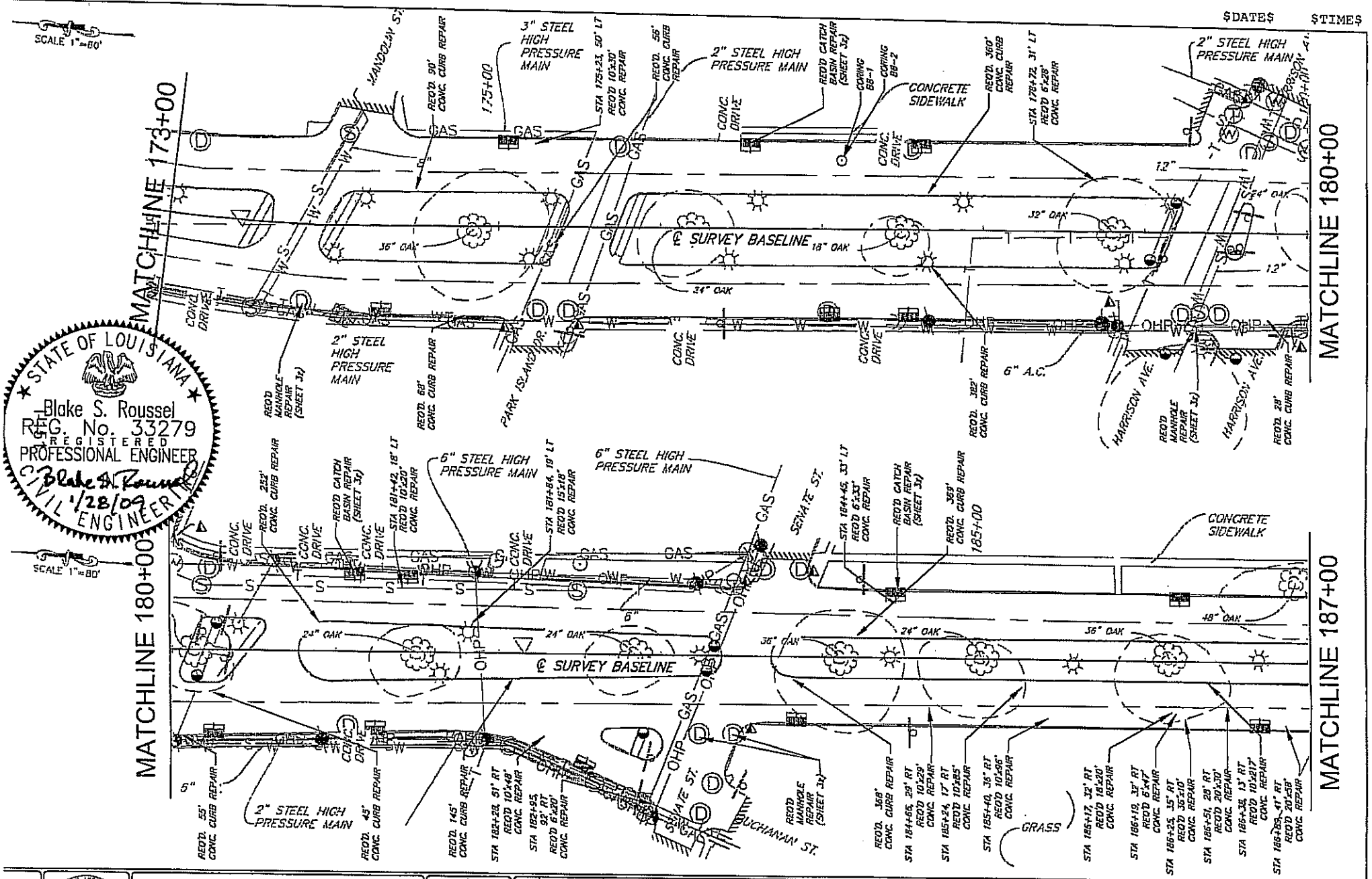
I-150

Stanley Consultants, Inc.	ST. BERNARD AVENUE	DESIGNED BSR / CHECKED JRS	PARISH ORLEANS
DOTD	PLAN SHEET	DETAILED BAS / CHECKED JRS	FEDERAL PROJECT ER-ERP1(052)
		DATE JAN 2009	STATE PROJECT 704-36-0036

SHEET NUMBER 42

FINAL PLANS

$DATE$ $TIME$



STATE OF LOUISIANA
Blake S. Roussel
REG. No. 33279
REGISTERED
PROFESSIONAL ENGINEER
Blake S. Roussel
1/28/09
CIVIL ENGINEER

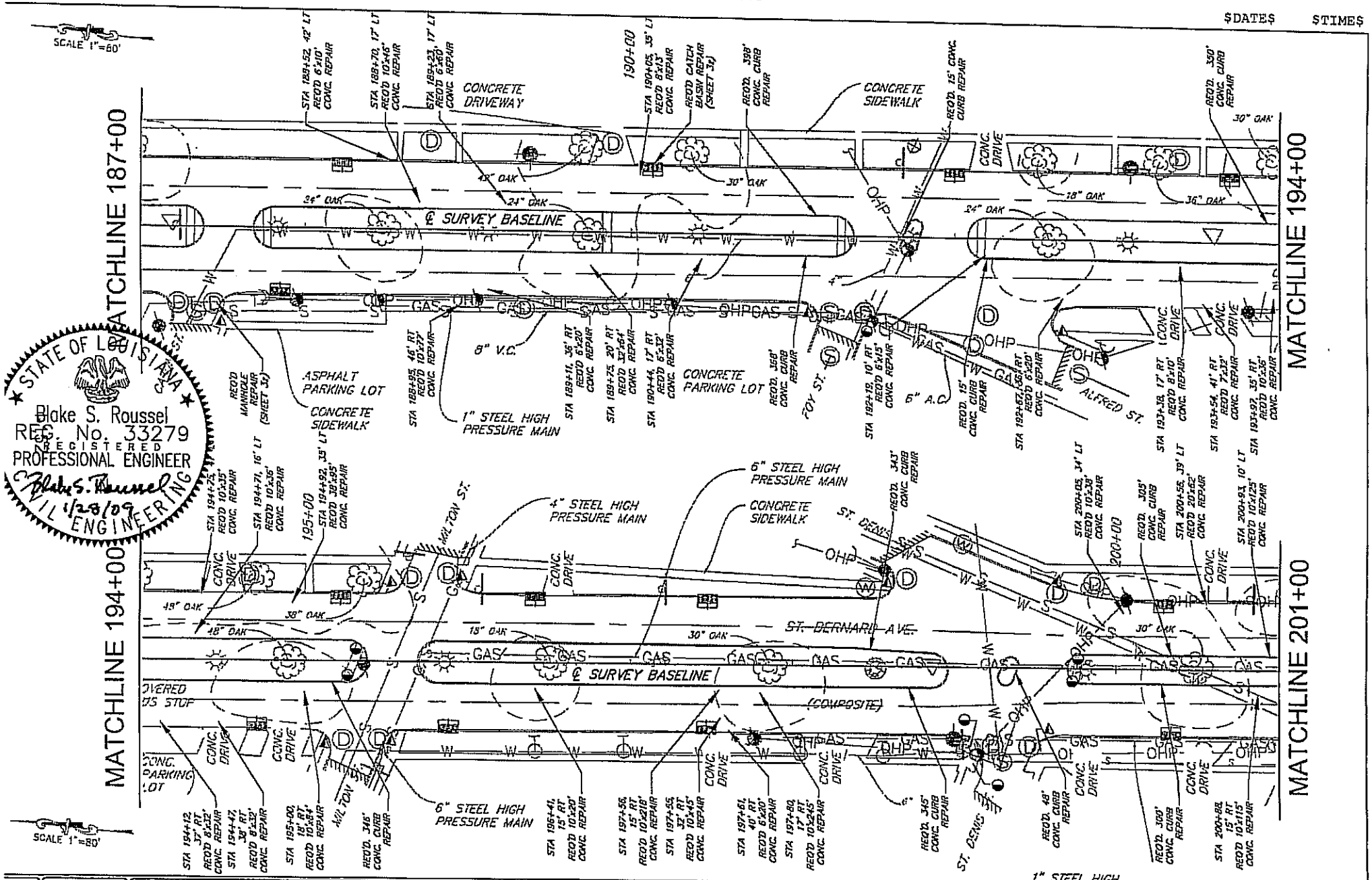
Stanley Consultants, Inc.	DOTD	ST. BERNARD AVENUE	DESIGNED BSR / CHECKED JRS	PARISH	ORLEANS
		PLAN SHEET	DETAILED BAS / CHECKED JRS	FEDERAL PROJECT	ER--ERP1(052)
			DATE JAN 2009	STATE PROJECT	704--36--0036

NO. DATE REVISION DESCRIPTION

SHEET NUMBER 43

FINAL PLANS

$DATE$ $TIME$



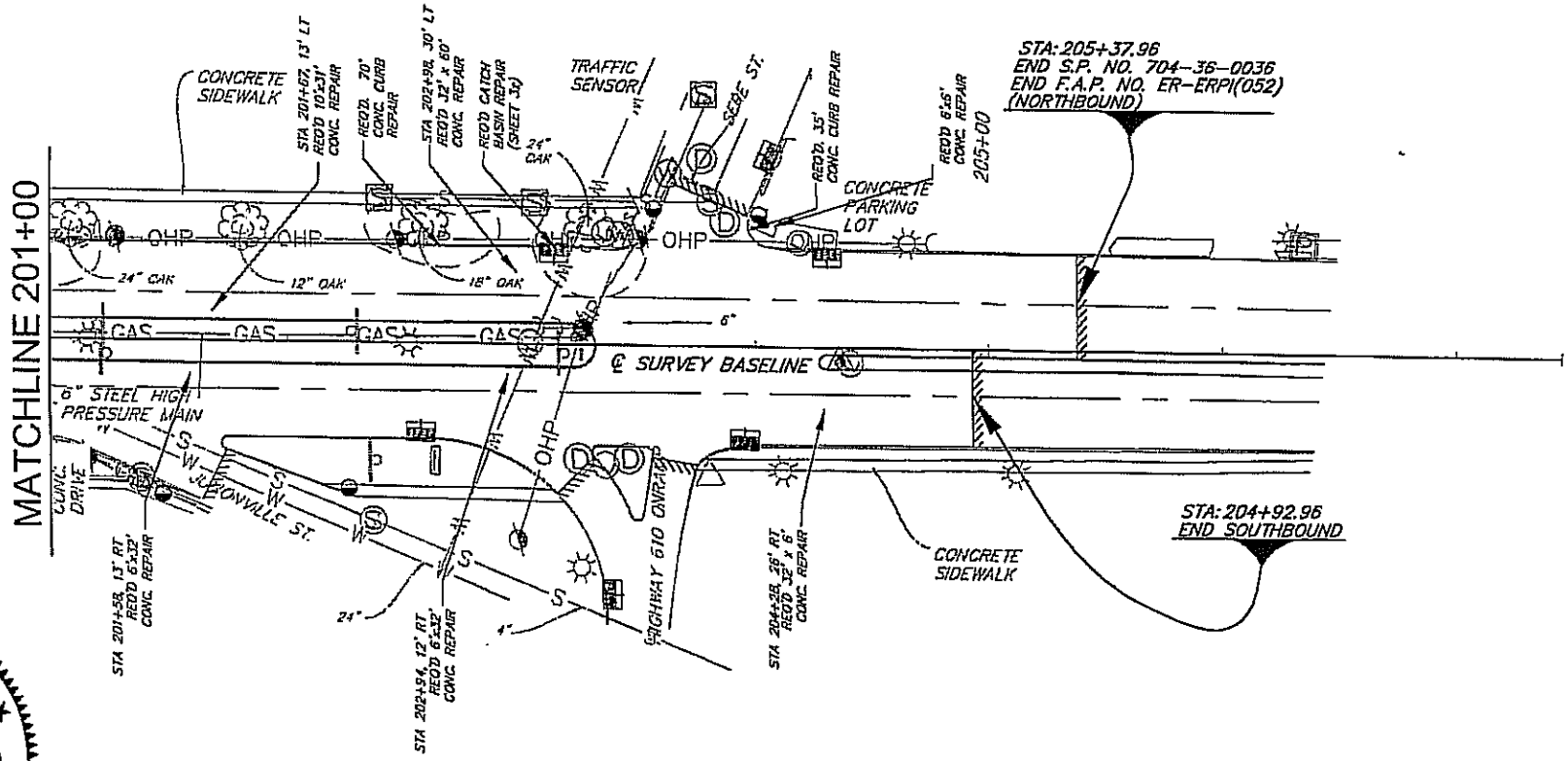
STATE OF LOUISIANA
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REG. No. 33279
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PROFESSIONAL ENGINEER
1/28/09
CIVIL ENGINEERING

Stanley Consultants, Inc.	DOTD	ST. BERNARD AVENUE	DESIGNED BSR / CHECKED JRS	PARISH	ORLEANS
		PLAN SHEET	DETAILED BAS / CHECKED JRS	FEDERAL PROJECT	ER-ERP1(052)
			DATE JAN 2009	STATE PROJECT	704-36-0036

NO. DATE REVISION DESCRIPTION

SHEET NUMBER 44

SCALE 1"=80'



I-153

STATE OF LOUISIANA
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CIVIL ENGINEERING
Blake S. Roussel 2/27/09

Stanley Consultants, Inc.

DOTD

ST. BERNARD AVENUE

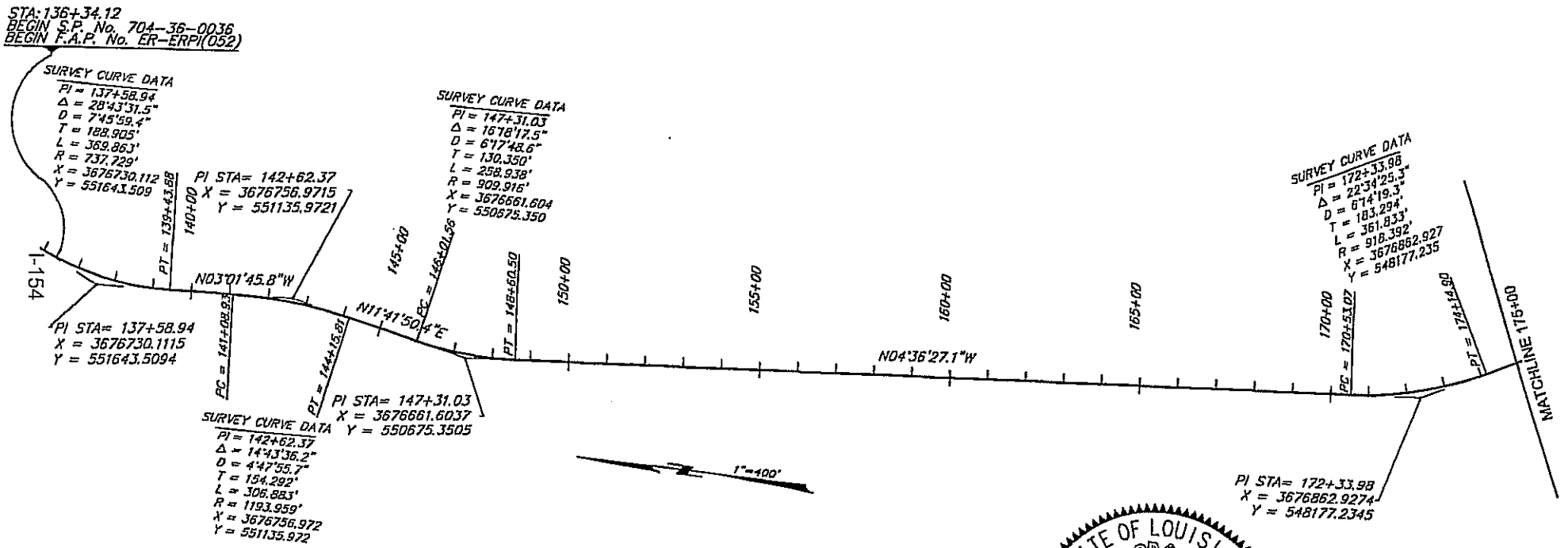
PLAN SHEET

DESIGNED / CHECKED	BSR / JRS	PARISH	ORLEANS
DETAILED / CHECKED	BAS / JSR	FEDERAL PROJECT	ER-ERP1(052)
DATE	FEB 2009	STATE	704-36-0036

SHEET NUMBER 45

FINAL PLANS

$DATE$ $TIME$



STATE OF LOUISIANA
Blake S. Roussel
REG. No. 33279
REGISTERED
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CIVIL
1/28/09

NOTES:

1. HORIZONTAL CONTROL POINTS WERE ESTABLISHED BY G.P.S. STATIC OBSERVATIONS ON APRIL 2, 2008.
2. COORDINATES SHOWN HEREON ARE NAD83, HARN (HPGN) STATE PLANE, 1702 LA SOUTH ZONE, US SURVEY FOOT.
3. VERTICAL CONTROL NOT REQUIRED.

Stanley Consultants, Inc.

DOTD

ST. BERNARD AVENUE

GEOMETRIC LAYOUT

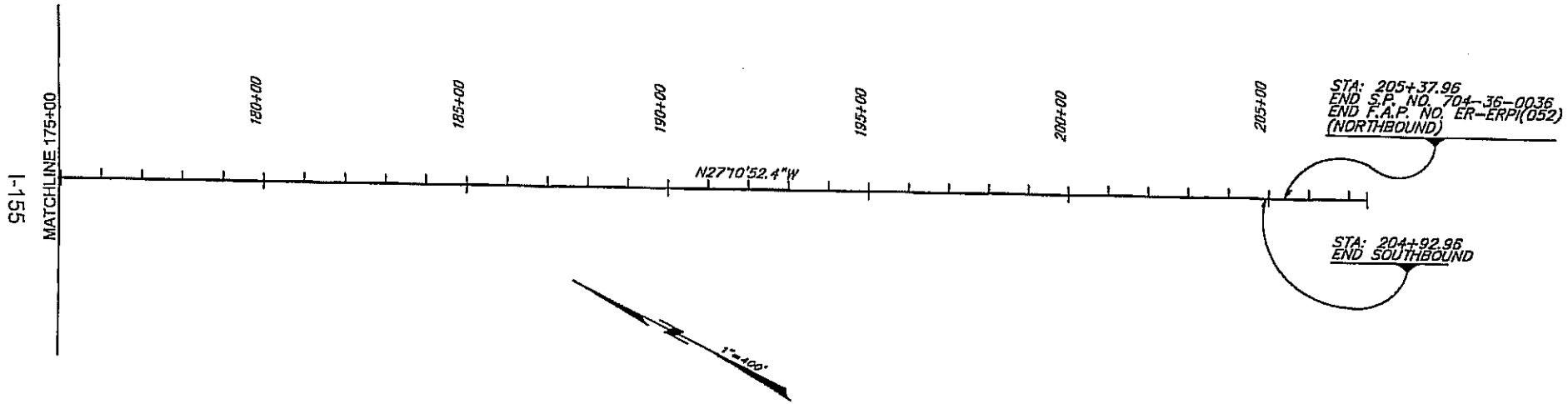
NO.	DATE	REVISION DESCRIPTION	BY

DESIGNED / CHECKED	BSR / JRS	PARISH	ORLEANS
DETAILED / CHECKED	AKW / BSR	FEDERAL PROJECT	ER-ERP1(052)
DATE / SHEET	DEC 2008 / 1 OF 2	STATE PROJECT	704-36-0036

SHEET NUMBER 46

FINAL PLANS

$DATE$ $TIME$



STATE OF LOUISIANA
Blake S. Roussel
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REGISTERED
PROFESSIONAL ENGINEER
1/28/09

NOTES:

1. *HORIZONTAL CONTROL POINTS WERE ESTABLISHED BY G.P.S. STATIC OBSERVATIONS ON APRIL 2, 2008.*
2. *COORDINATES SHOWN HEREON ARE NAD83, HARN (HPGN) STATE PLANE, 1702 LA SOUTH ZONE, US SURVEY FOOT.*
3. *VERTICAL CONTROL NOT REQUIRED.*

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DOTD TRANSPORTATION AND DEVELOPMENT

ST. BERNARD AVENUE

GEOMETRIC LAYOUT

STATE OF LOUISIANA

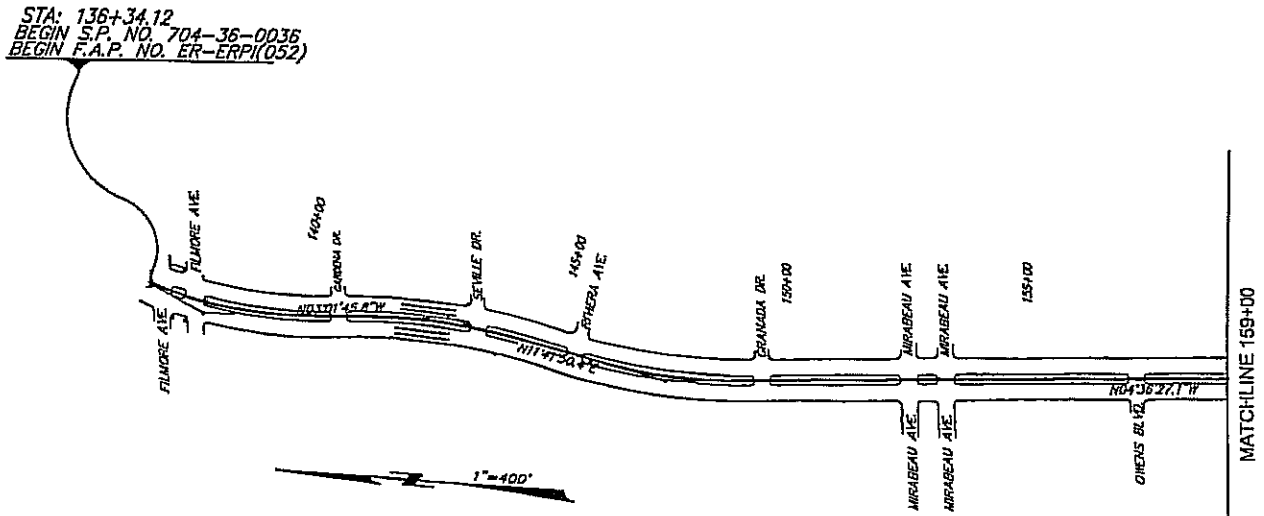
NO.	DATE	REVISION DESCRIPTION

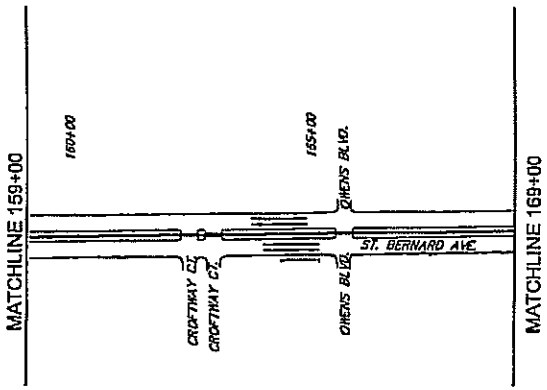
DESIGNED	BSR	PARISH	ORLEANS
CHECKED	JRS		
DETAILED	AKW	FEDERAL PROJECT	ER-ERP1(052)
CHECKED	BSR		
DATE	DEC 2008	STATE PROJECT	704-36-0036

SHEET NUMBER 47

FINAL PLANS

$DATE$ $TIME$





SUGGESTED SEQUENCE OF CONSTRUCTION

1. THE SUGGESTED SEQUENCE OF CONSTRUCTION CONSISTS OF
   a. THE EXISTING LANE CONFIGURATION ON ST. BERNARD IS A FOUR-LANE BOULEVARD SECTION WITH A GRASS MEDIAN WITH 12-FOOT TRAVEL LANES AND 8-FOOT PARKING LANE. THE PROPOSED SEQUENCE OF CONSTRUCTION ASSUMES ADVANCED WARNING TO THE HOMEOWNERS PER GENERAL NOTE 1.9, PAGE 1b, THAT STREET PARKING WILL BE UNAVAILABLE DURING THE CONSTRUCTION ACTIVITIES ON EACH OF THE NORTHBOUND AND SOUTHBOUD TRAVEL LANES, RESPECTIVELY. THE PROPOSED SEQUENCE OF CONSTRUCTION CONSISTS OF REPLACING CONCRETE PANELS, 2" (AVG DEPTH) MILL OF EXISTING ASPHALT AND ASPHALT OVERLAY BETWEEN THE PROJECT LIMITS FOR THE NORTHBOUND AND SOUTHBOUND ROADWAYS.

   b. THE PROJECT ENGINEER SHALL IDENTIFY AND ADEQUATELY MARK THE PAVEMENT AREAS TO BE REPAIRED IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS. THE PAVEMENT REPAIRS ON ST. BERNARD WILL CONSIST OF PCC PAVEMENT WITH BASE COURSE, PER CURRENT CITY OF NEW ORLEANS STANDARDS, AS DETERMINED BY FIELD INSPECTION, WILL REQUIRE LEVELING TO ADJUST THE CROSS SLOPE AND LONGITUDINAL SLOPE. THE ENTIRE PROJECT WILL THEN BE OVERLAYED WITH 2" (AVG. DEPTH) OF SUPERPAVE ASPHALTIC CONCRETE. THE PROJECT ENGINEER SHALL INSPECT THE REMAINING ASPHALTIC CONCRETE THICKNESS. SHOULD AREAS EXIST WITH ON-INCH OR LESS OF ASPHALTIC CONCRETE, THE CONTRACTOR SHALL BE INSTRUCTED WHICH AREAS SHALL BE COLD-PLANNED TO REMOVE ADDITIONAL ASPHALTIC CONCRETE IN THESE AREAS.

2. THE CONTRACTOR SHALL SUBMIT A SEQUENCE OF CONSTRUCTION AND TRAFFIC CONTROL PLAN TO THE PROJECT ENGINEER FOR REVIEW, COORDINATION, AND APPROVAL BY THE DEPARTMENT OF PUBLIC WORKS. ADVANCED WARNING SIGNAGE FOR ALL SIDEROADS SHALL BE INCLUDED.

3. CONTRACTOR SHALL CLOSE A PORTION OF ONE OF THE NORTHBOUND LANES, IN ACCORDANCE WITH HIS WORK PLAN, CONSTRUCTING THE REQUIRED REPAIRS, AND PROGRESSING ALONG THE PROJECT. THIS TEMPORARY CONSTRUCTION SIGNING FOR THIS SEQUENCE OF CONSTRUCTION WOULD CORRESPOND TO LA DOTD SPECIAL DETAILS TC-06 ENTITLED "TRAFFIC CONTROL LAYOUT FOR LANE CLOSURES ON DIVIDED HIGHWAY", TC-00 ENTITLED "TEMPORARY TRAFFIC CONTROL GENERAL NOTES SHEET", AND GUIDANCE FROM MUTCD CURRENTLY IN USE BY DOTD. THE SEQUENCE WOULD THEN BE REPEATED ON THE SOUTHBOUND LANES.

4. THE CONTRACTOR SHALL BE LIMITED TO ONLY ONE LANE CLOSURE, AT A MAXIMUM LENGTH OF 1320' (FEET), PER DIRECTION AT ANY GIVEN TIME.

5. LENGTH AND DURATION OF LANE CLOSURES SHALL BE INDICATED ON CONTRACTOR'S APPROVED TC PLANS.

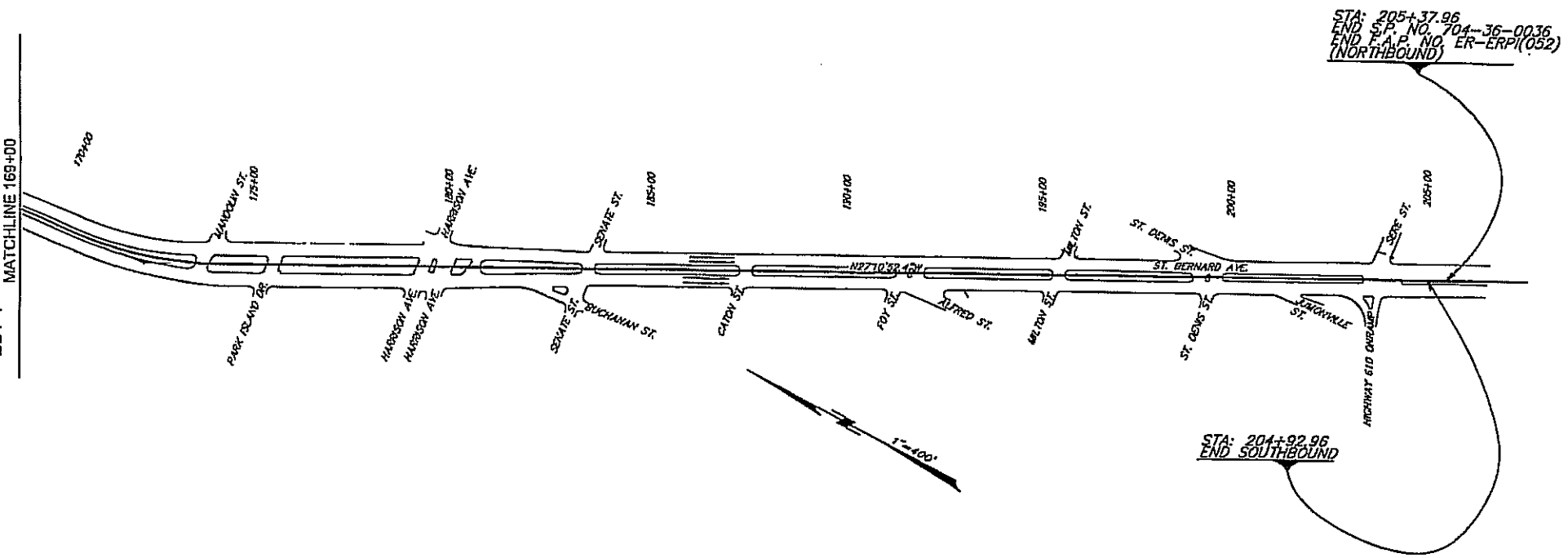
STATE OF LOUISIANA
Blake S. Roussel
REG. No. 33279
REGISTERED
PROFESSIONAL ENGINEER
CIVIL ENGINEERING
1/28/09

1-156

Stanley Consultants, Inc.	ST. BERNARD AVENUE	DESIGNED BSR / CHECKED JRS	PARISH	ORLEANS	SHEET NUMBER 48
	SUGGESTED SEQUENCE OF CONSTRUCTION	DETAILED AKW / CHECKED BSR	FEDERAL PROJECT	ER-ERP1(052)	
		DATE DEC 2008	STATE PROJECT	704-36-0036	

FINAL PLANS

$DATE$ $TIME$



STATE OF LOUISIANA
Blake S. Roussel
REG. No. 33279
REGISTERED
PROFESSIONAL ENGINEER
1/28/09

Stanley Consultants, Inc.

DOTD

ST. BERNARD AVENUE

SUGGESTED SEQUENCE OF CONSTRUCTION

NO.	DATE	REVISION DESCRIPTION	BY

DESIGNED / CHECKED	BSR / JRS	PARISH	ORLEANS
DETAILED / CHECKED	AKW / BSR	FEDERAL PROJECT	ER-ERP1(052)
DATE / SHEET	DEC 2008 / 2 OF 2	STATE PROJECT	704-36-0036

SHEET NUMBER 49

FINAL PLANS

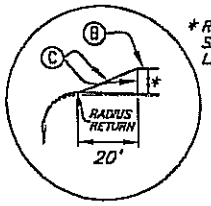
$DATE$ $TIME$

NOTES:

1. ONLY STRIPING WITHIN PROJECT LIMITS IS REQUIRED. STRIPING REQUIRED AT EACH INTERSECTION TO BE IN ACCORDANCE WITH N.O. DPW STD. 10.
2. SCHOOL MARKINGS SHALL BE IN ACCORDANCE WITH N.O. DPW STD. 10.
3. CROSSWALK STRIPING TO BE PLACED PER NO DPW STD. 10 AND DIRECTION OF PROJECT ENGINEER.
4. A BLUE RAISED REFLECTORIZED PAVEMENT MARKER SHALL BE PLACED AT THE CENTER OF THE OUTSIDE LANE TO INDICATE THE LOCATION OF FIRE HYDRANTS.

STRIPING LEGEND:

- (A) 4" BROKEN WHITE STRIPE (W/ REFLECTORIZED MARKERS @ 40' O.C.)
- (B) 4" SOLID WHITE STRIPE
- (C) 6" SOLID YELLOW STRIPE
- (D) 6" SOLID WHITE STRIPE
- (E) 8" SOLID WHITE STRIPE
- (F) 12" SOLID WHITE STRIPE

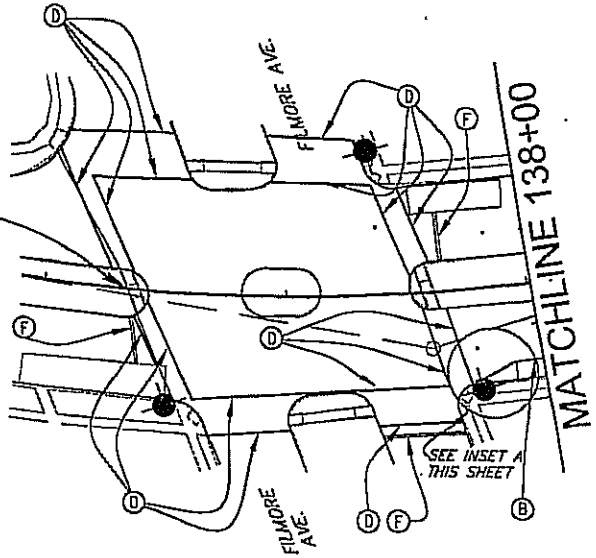


INSET A
N.T.S

* REFER TO TYPICAL SECTIONS SHEETS 2n–2q FOR PARKING LANE WIDTHS

SCALE 1"=80'

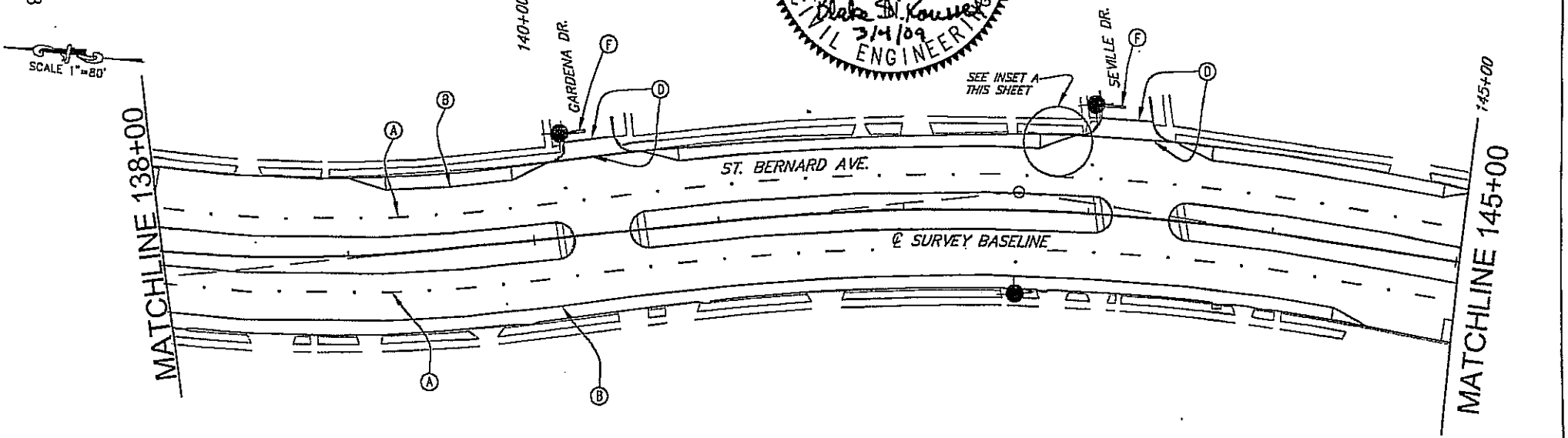
STA: 136+34.12
BEGIN S.P. NO. 704-36-0036
BEGIN F.A.P. NO. ER-ERP1(052)



STATE OF LOUISIANA
Blake S. Roussel
REG. No. 33279
REGISTERED
PROFESSIONAL ENGINEER
CIVIL ENGINEERING
Blake S. Roussel
3/4/09

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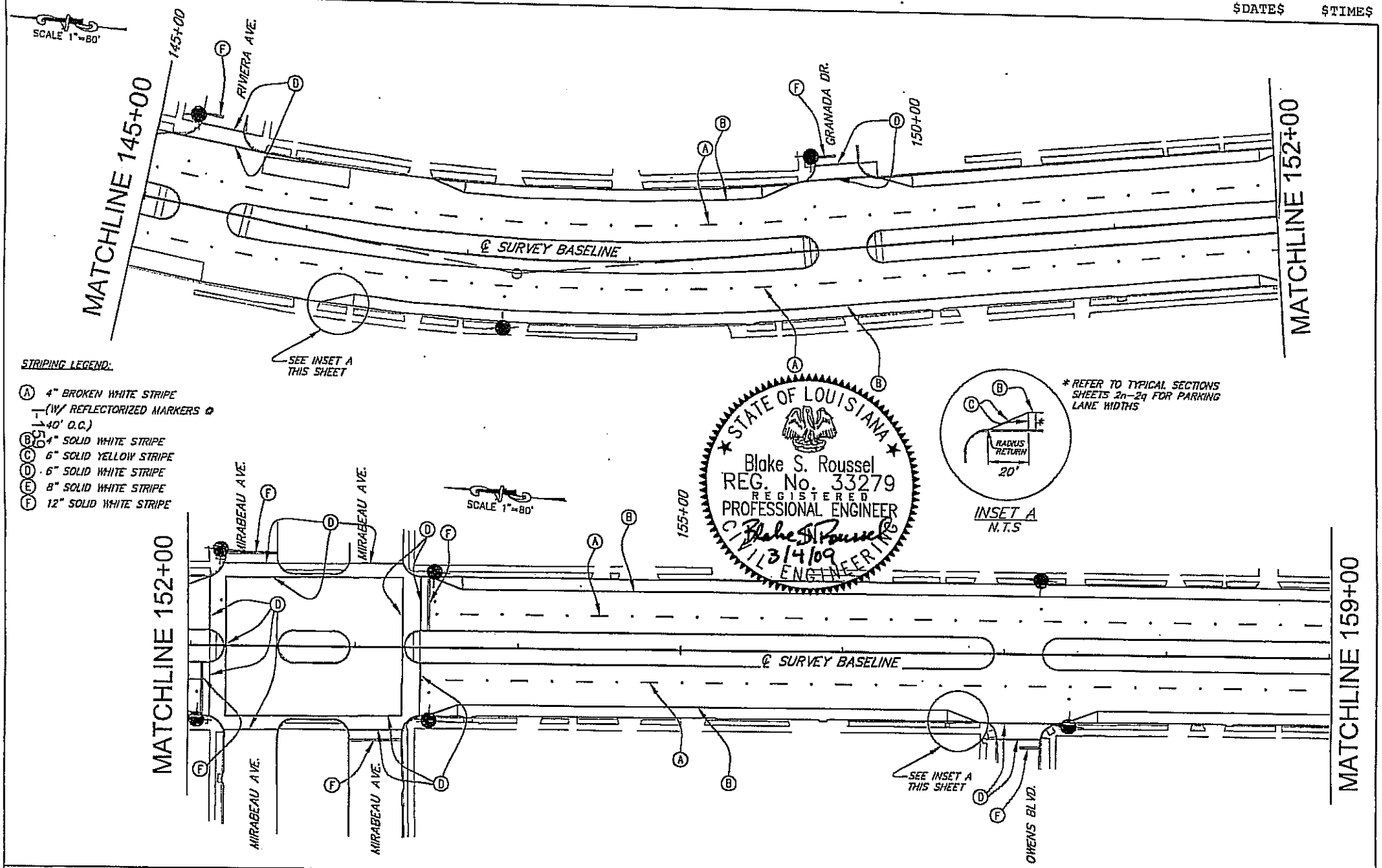
SCALE 1"=80'



Stanley Consultants, Inc.	ST. BERNARD AVENUE	DESIGNED BSR / CHECKED JRS	PARISH	ORLEANS	SHEET NUMBER 50
DOTD	STRIPING SHEET	DETAILED BAS / CHECKED JRS	FEDERAL PROJECT	ER-ERP1(052).	
	NO. DATE REVISION DESCRIPTION BY	DATE FEB 2009 / SHEET 1 OF 6	STATE PROJECT	704-36-0036	

FINAL PLANS

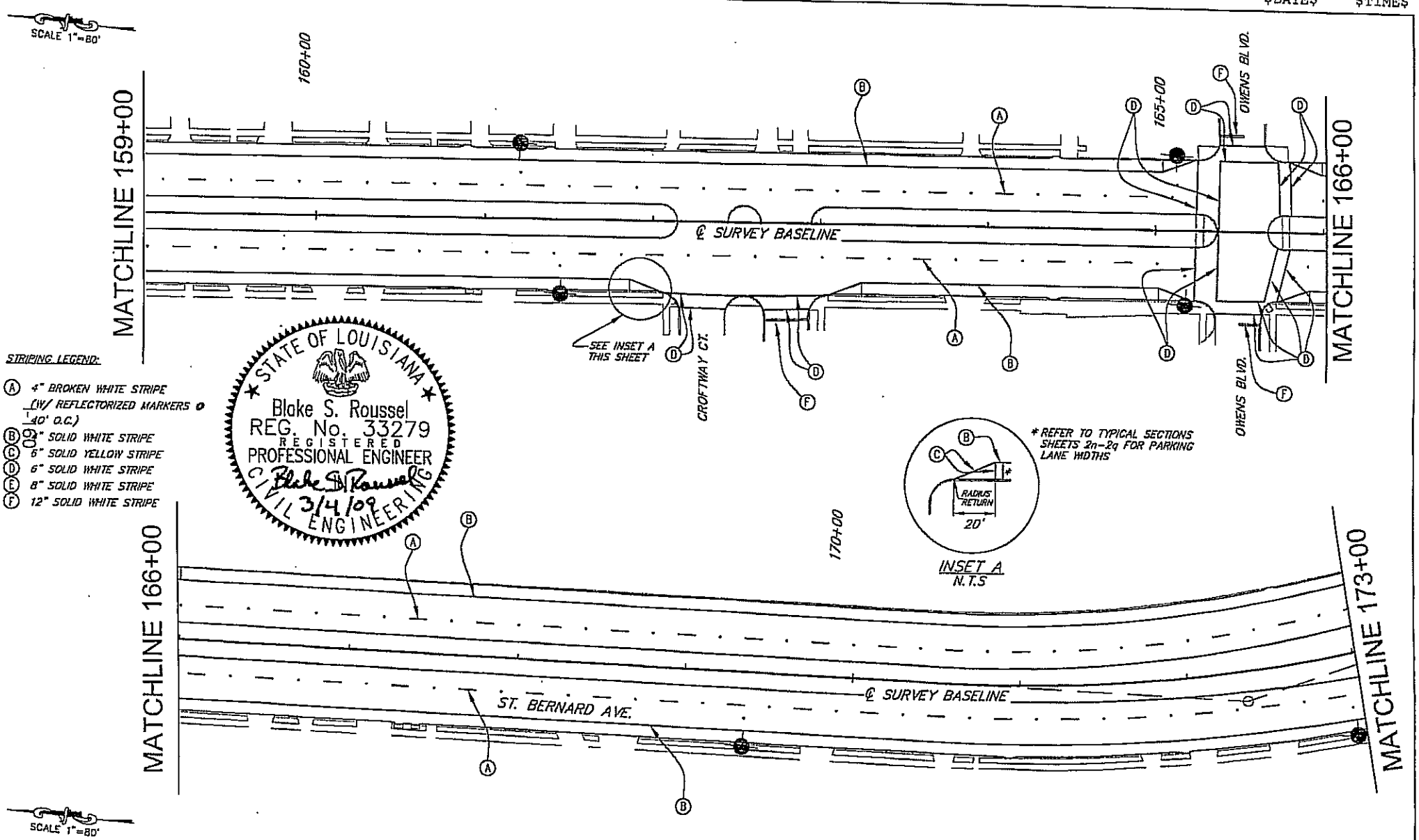
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Stanley Consultants, Inc.	ST. BERNARD AVENUE	DESIGNED BSR / CHECKED JRS	PARISH	ORLEANS	SHEET NUMBER 15
DOTD	STRIPING SHEET	DETAILED BAS / CHECKED JRS	FEDERAL PROJECT	ER-ERP1(052)	
	NO. DATE REVISION DESCRIPTION BY	DATE FEB 2009 / SHEET 2 OF 6	STATE PROJECT	704-36-0036	

FINAL PLANS

$DATE$ $TIME$

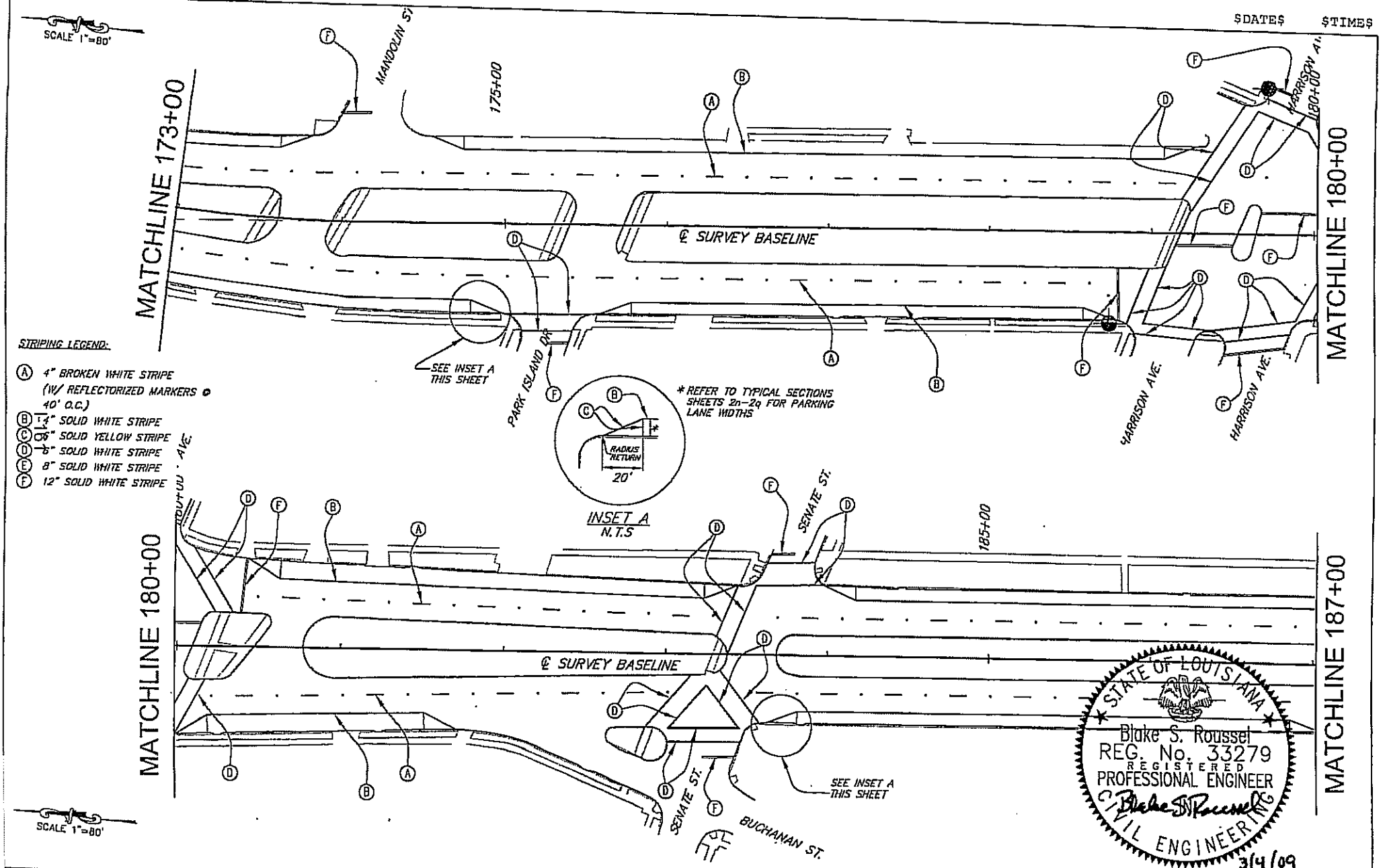


Stanley Consultants, Inc.	ST. BERNARD AVENUE	DESIGNED BSR / CHECKED JRS	PARISH ORLEANS
DOTD	STRIPING SHEET	DETAILED BAS / CHECKED JRS	FEDERAL PROJECT ER-ERP1(052)
		DATE FEB 2009	STATE PROJECT 704-36-0036

SHEET NUMBER 52

FINAL PLANS

$DATE$ $TIME$



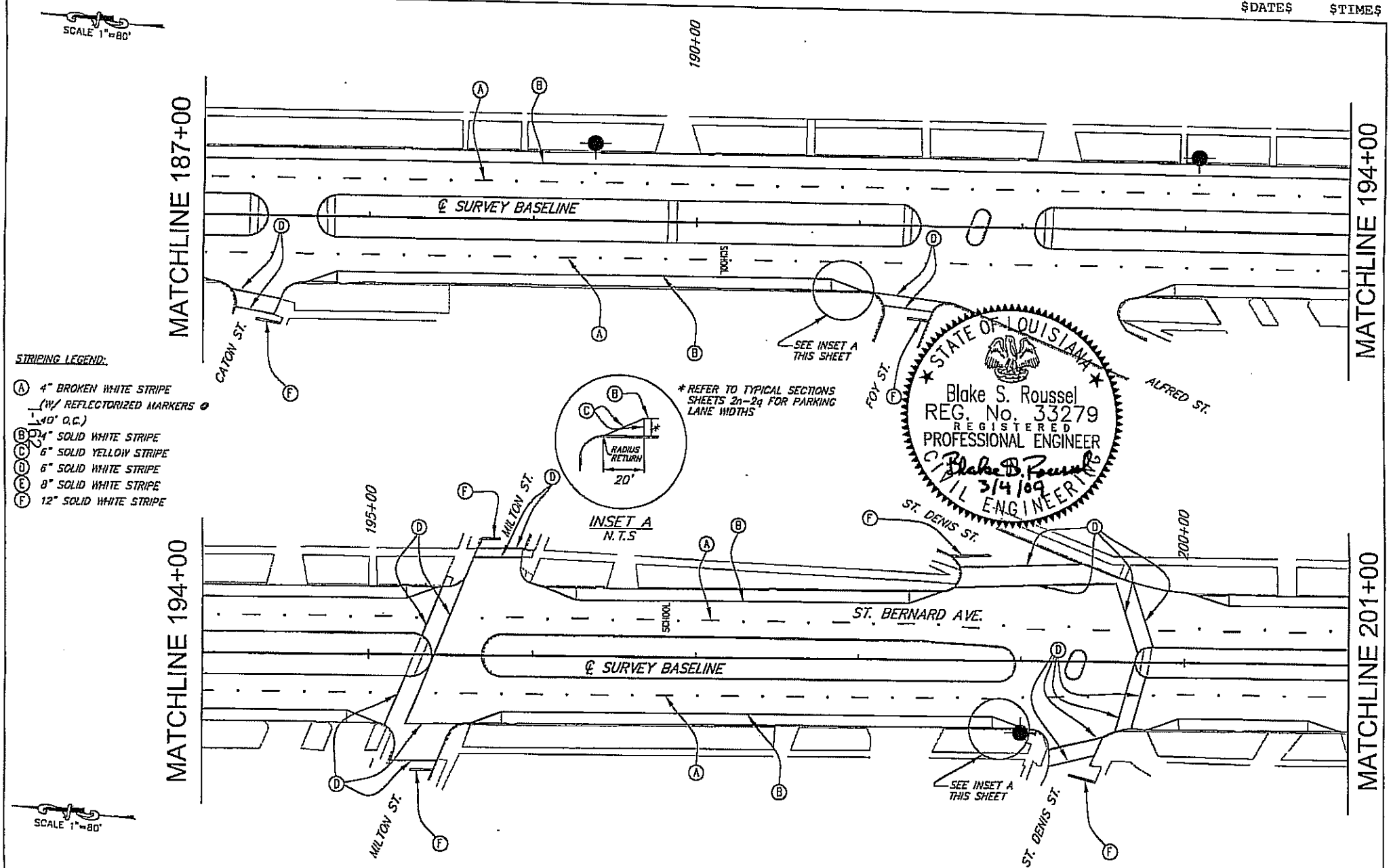
STATE OF LOUISIANA
Blake S. Roussel
REG. No. 33279
REGISTERED
PROFESSIONAL ENGINEER
CIVIL ENGINEERING
3/4/09

Stanley Consultants, Inc.	ST. BERNARD AVENUE	DESIGNED BSR / CHECKED JRS	PARISH ORLEANS
DOTD	STRIPING SHEET	DETAILED BAS / CHECKED JRS	FEDERAL PROJECT ER-ERP1(052)
		DATE FEB 2009	STATE 704-36-0036

SHEET NUMBER 53

FINAL PLANS

$DATE$ $TIME$



STATE OF LOUISIANA
Blake S. Roussel
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REGISTERED
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Blake B. Roussel
3/4/09
CIVIL ENGINEER

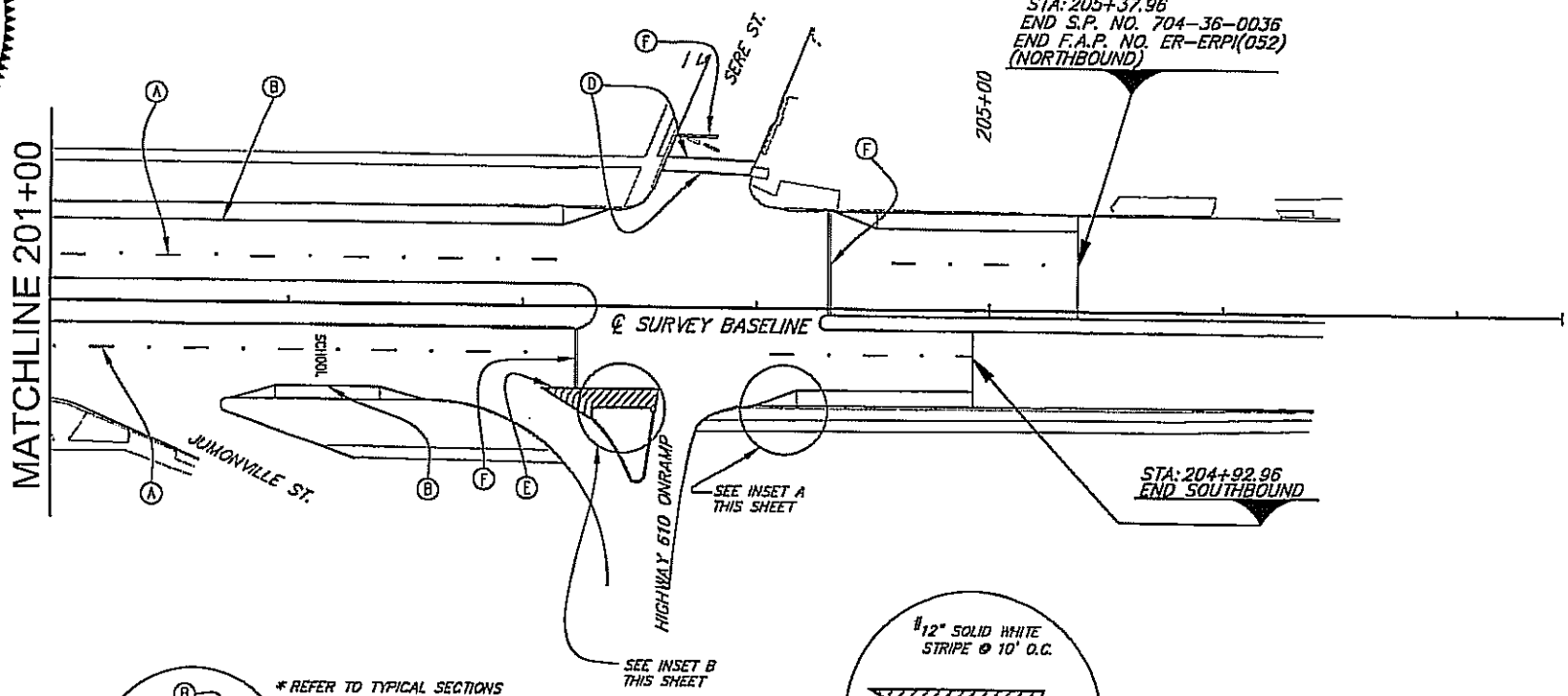
Stanley Consultants, Inc.	ST. BERNARD AVENUE	DESIGNED BSR / CHECKED JRS	PARISH ORLEANS
DOTD	STRIPING SHEET	DETAILED BAS / CHECKED JRS	FEDERAL PROJECT ER-ERP1(052)
		DATE FEB 2009	STATE PROJECT 704-36-0036

SHEET NUMBER 54

SCALE 1"=80'

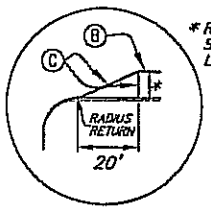
STATE OF LOUISIANA
Blake S. Roussel
REG. No. 33279
REGISTERED
PROFESSIONAL ENGINEER
CIVIL ENGINEERING
Blake S. Roussel
5/14/09

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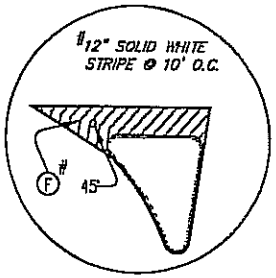
STRIPING LEGEND:

- (A) 4" BROKEN WHITE STRIPE (W/ REFLECTORIZED MARKERS @ 40' O.C.)
- (B) 4" SOLID WHITE STRIPE
- (C) 6" SOLID YELLOW STRIPE
- (D) 6" SOLID WHITE STRIPE
- (E) 8" SOLID WHITE STRIPE
- (F) 12" SOLID WHITE STRIPE



INSET A
N.T.S

* REFER TO TYPICAL SECTIONS SHEETS 2a-2q FOR PARKING LANE WIDTHS



INSET B
N.T.S

Stanley Consultants, Inc.	DOTD	ST. BERNARD AVENUE	DESIGNED BSR / CHECKED JRS	PARISH ORLEANS	SHEET NUMBER 55
		STRIPING SHEET	DETAILED BAS / CHECKED JSR	FEDERAL PROJECT ER-ERP1(052)	
			DATE FEB 2009	STATE PROJECT 704-36-0036	

FINAL PLANS

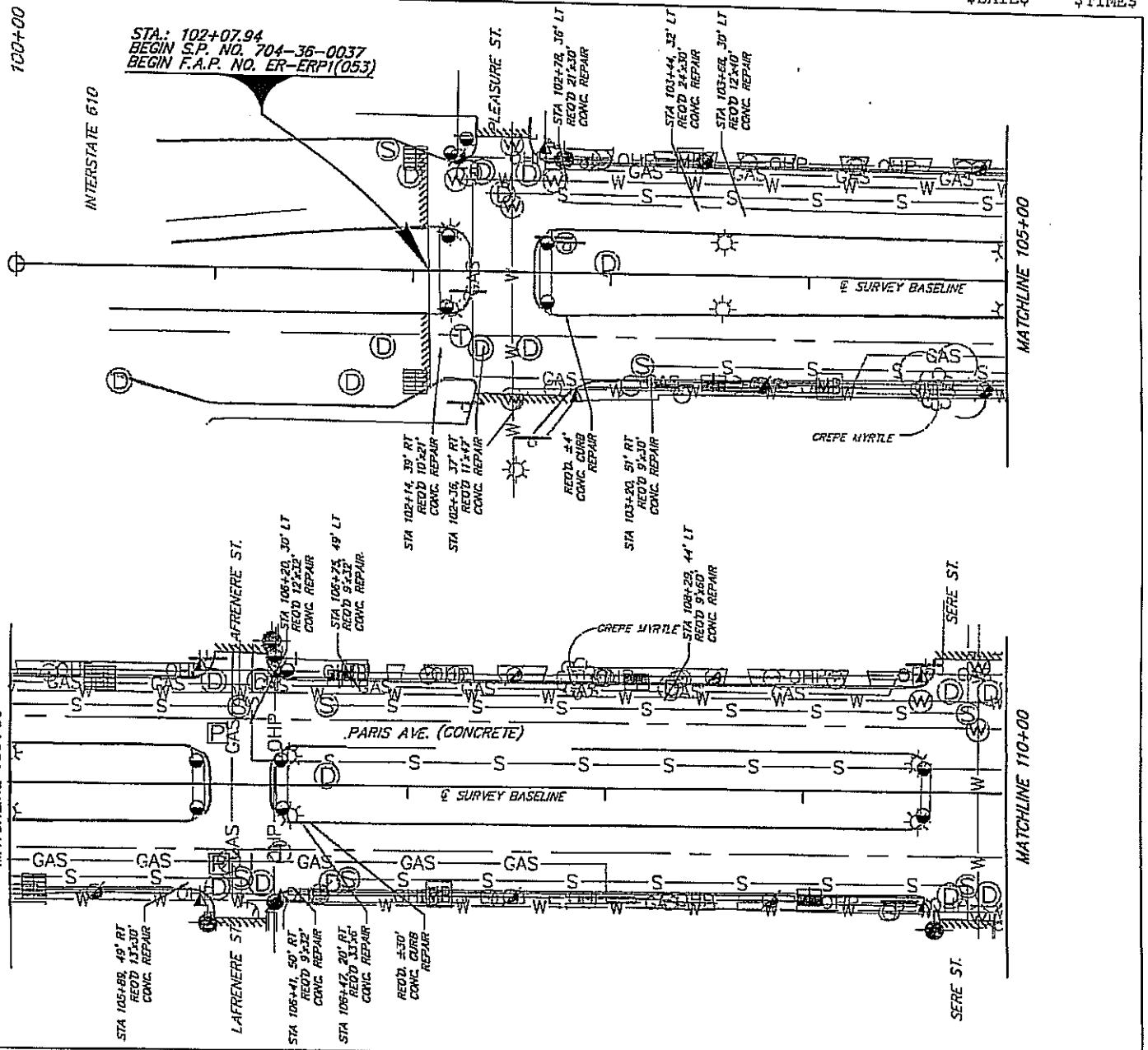
$DATE$ $TIME$

NOTES:

1. CONTRACTOR SHALL INSTALL AND MAINTAIN RAMPS FOR UTILITY STRUCTURES AND VERTICAL PAVEMENT FACES IN THE ROADWAYS TO MAINTAIN TRAFFIC BETWEEN MILLING AND OVERLAY OPERATIONS (NO DIRECT PAYMENT)
2. CONTRACTOR SHALL VERIFY HEIGHT CLEARANCE FOR TREE CANOPY AND OTHER OVERHEAD STRUCTURES PRIOR TO CONSTRUCTION. NOT ALL ARE SHOWN.
3. ONLY STRIPING WITHIN PROJECT LIMITS IS REQUIRED. STRIPING REQUIRED AT EACH INTERSECTION TO BE IN ACCORDANCE WITH N.O. DPW STD. 10.
4. UTILITIES HAVE BEEN LOCATED USING FIELD MARKINGS AND AS-BUILT INFORMATION. LOCATIONS TO BE FIELD VERIFIED BY CONTRACTOR. NOT ALL ARE SHOWN.
5. THE LIMITS OF CONSTRUCTION OF INTERSECTING STREETS ARE LOCATED AT THE BACK OF THE CURB RETURN POINTS OF TANGENCY UNLESS OTHERWISE DIRECTED BY THE PROJECT ENGINEER.
6. ALL REPAIR LOCATIONS AND DIMENSIONS ARE APPROXIMATE AND SUBJECT TO CHANGE BY THE PROJECT ENGINEER.
7. ANY NECESSARY CURB AND SIDEWALK REMOVAL REQUIRED FOR ADA RAMP WORK TO MEET ADA REQUIREMENTS SHALL BE INCIDENTAL TO ADA RAMP ITEM.

LEGEND:

- REQ'D HANDICAP RAMP (TYPE A) REMOVE/REPLACE APRON/SW
- REQ'D HANDICAP RAMP (TYPE B) REMOVE/REPLACE APRON/SW
- APPROXIMATE CORING LOCATION

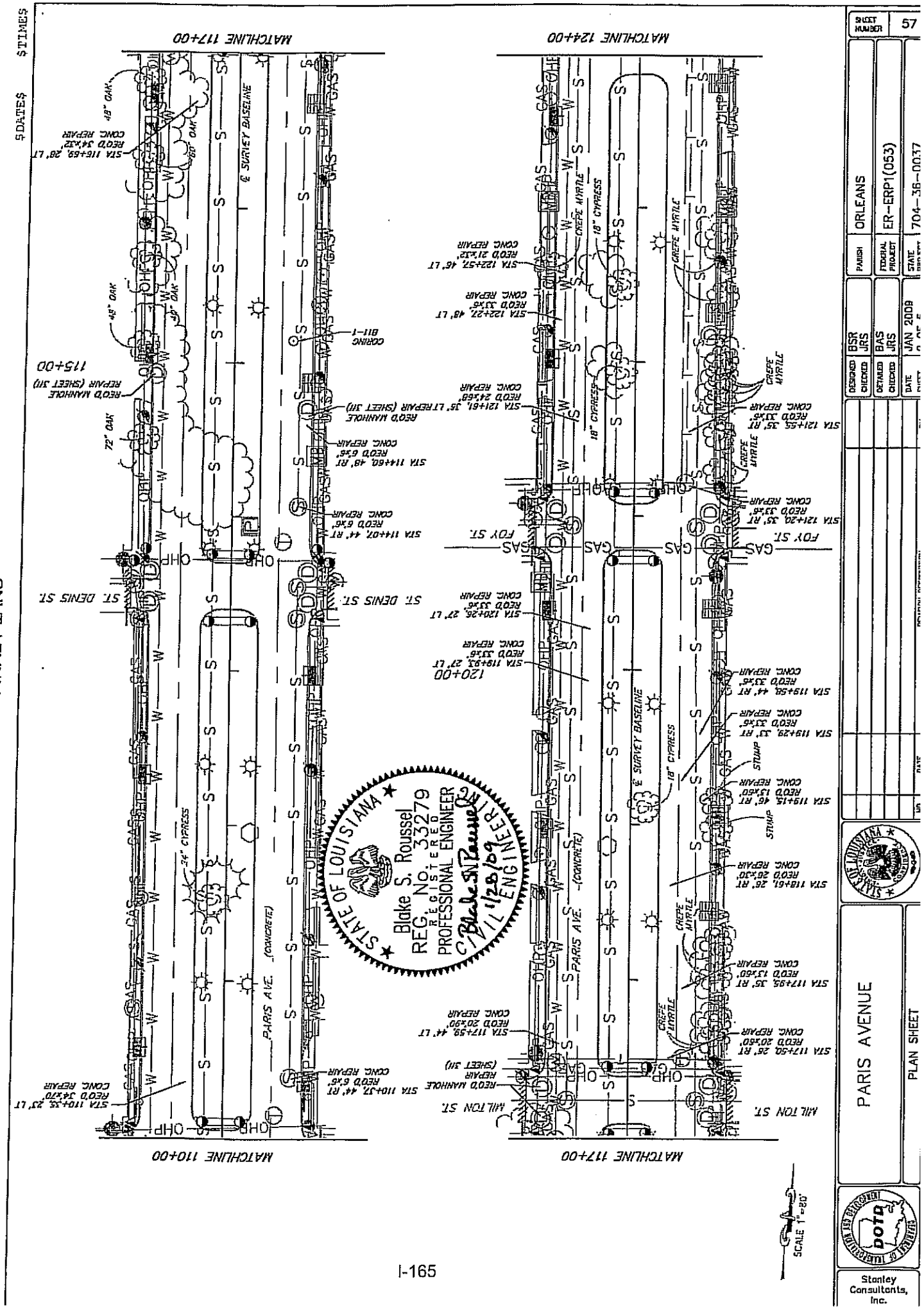


SCALE 1"=80'

STATE OF LOUISIANA
Blake S. Roussel
REG. No. 33279
REGISTERED
PROFESSIONAL ENGINEER
Blake S. Roussel
IL 1/28/09
ENGINEERING

Stanley Consultants, Inc.	PARIS AVENUE	DESIGNED BSR / CHECKED JRS	PARISH ORLEANS
DOTD	PLAN SHEET	DETAILED BAS / CHECKED JRS	FEDERAL PROJECT ER-ERP1(053)
		DATE JAN 2009	STATE PROJECT 704-36-0037

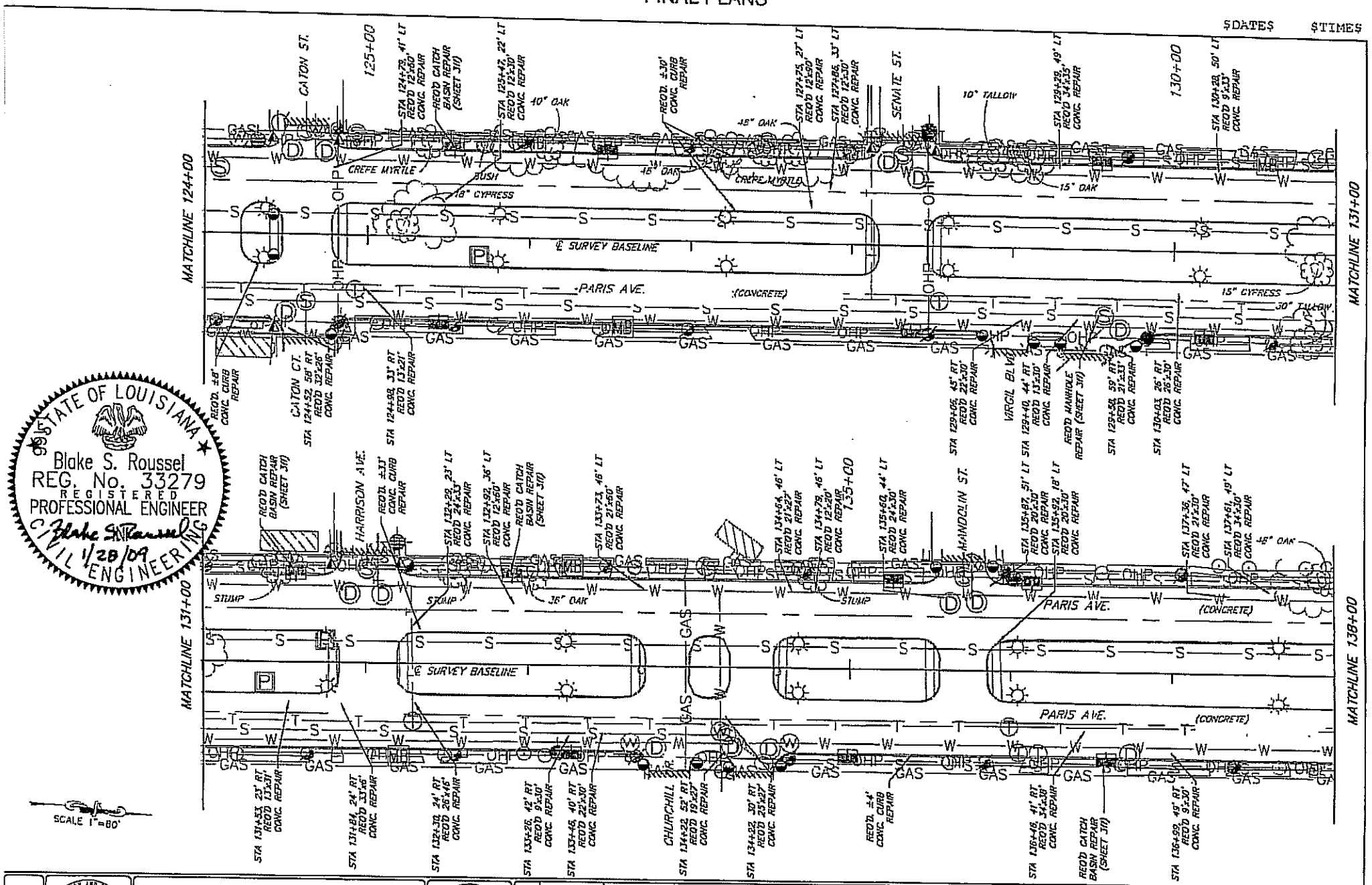
SHEET NUMBER 56



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FINAL PLANS

$DATE$ $TIME$



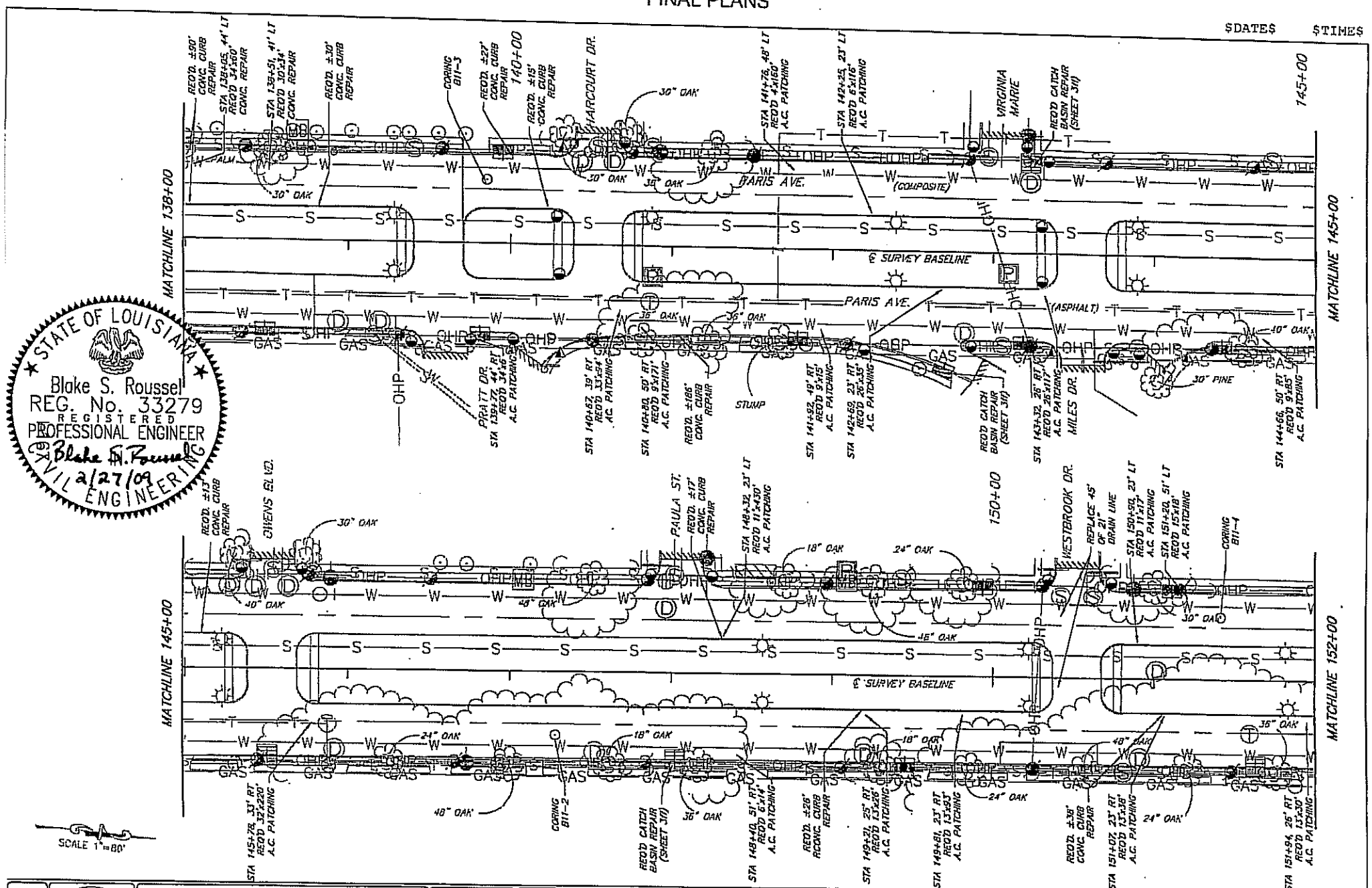
STATE OF LOUISIANA
Blake S. Roussel
REG. No. 33279
REGISTERED
PROFESSIONAL ENGINEER
CIVIL ENGINEERING
1/28/09

Stanley Consultants, Inc.	DOTD	PARIS AVENUE		DESIGNED BSR / CHECKED JRS	PARISH ORLEANS
		PLAN SHEET		DETAILED BAS / CHECKED JRS	FEDERAL PROJECT ER-ERP1(053).
				DATE JAN 2009	STATE 704-36-0037

SHEET NUMBER 58

FINAL PLANS

$DATE$ $TIME$



STATE OF LOUISIANA
Blake S. Roussel
REG. No. 33279
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Blake S. Roussel
2/27/09
CIVIL ENGINEERING

Stanley Consultants, Inc.

DOTD TRANSPORTATION AND DEVELOPMENT

PARIS AVENUE

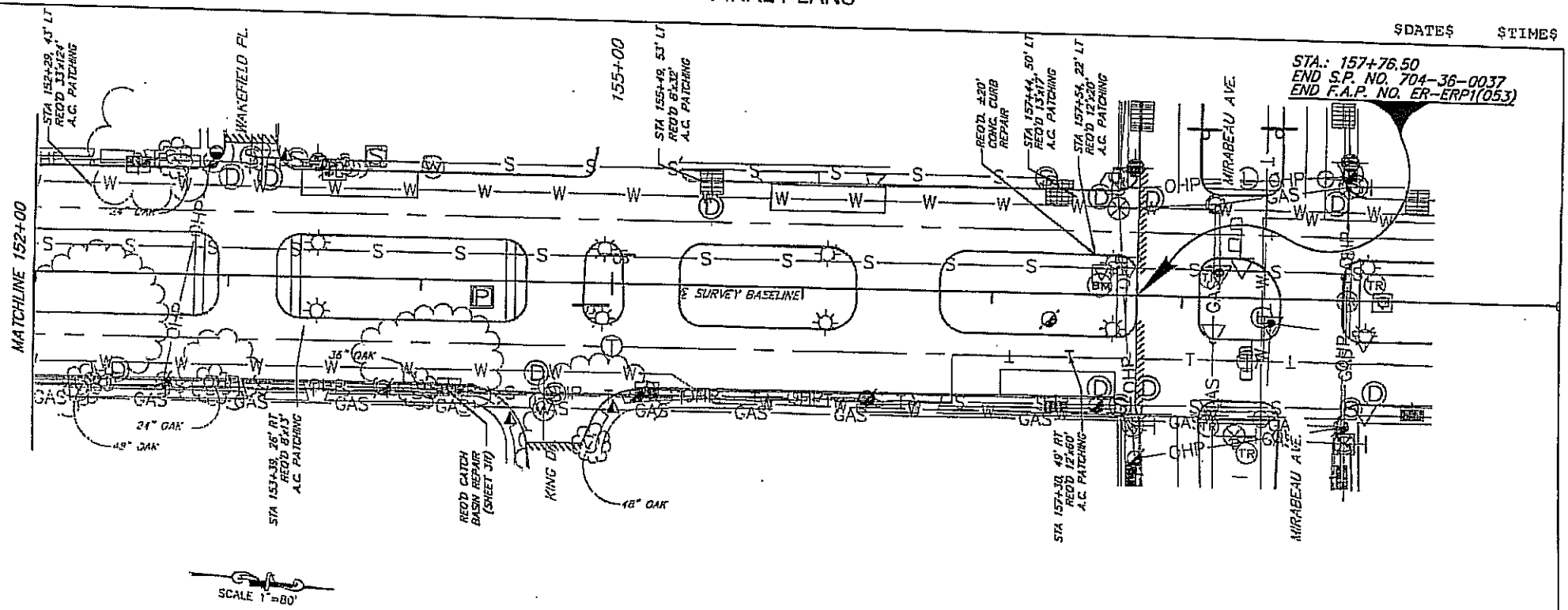
PLAN SHEET

DESIGNED	BSR	PARISH	ORLEANS
CHECKED	JRS		
DETAILED	BAS	FEDERAL PROJECT	ER-ERP1(053)
CHECKED	JRS		
DATE	FEB 2009	STATE	704-36-0037

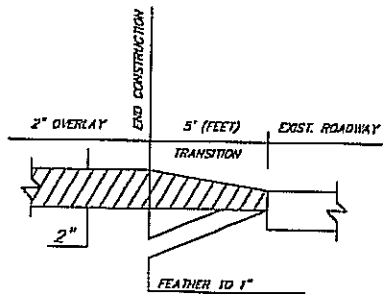
SHEET NUMBER 58

FINAL PLANS

$DATE$ $TIME$



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PAVEMENT TRANSITION
PARIS @ MIRABEAU
N.T.S

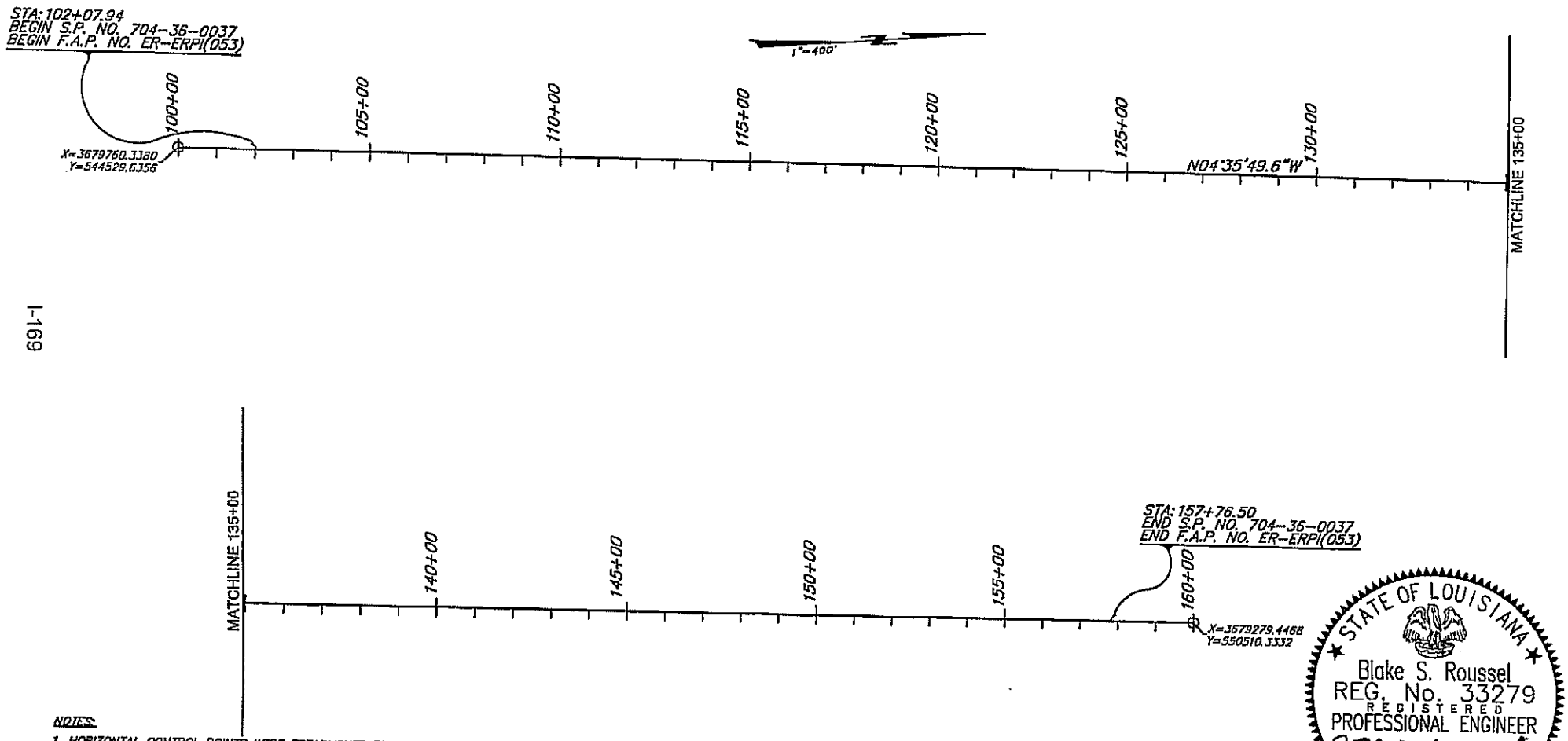
STATE OF LOUISIANA
Blake S. Roussel
REG. No. 33279
REGISTERED
PROFESSIONAL ENGINEER
CIVIL ENGINEERING
Blake S. Roussel
2/27/09

Stanley Consultants, Inc.	PARIS AVENUE	DESIGNED BSR / CHECKED JRS	PARISH ORLEANS
DOTD	PLAN SHEET	DETAILED BAS / CHECKED JRS	FEDERAL PROJECT ER-ERP1(053)
		DATE FEB 2009	STATE 704-36-0037

SHEET NUMBER 60

FINAL PLANS

$DATE$ $TIME$



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NOTES:

1. HORIZONTAL CONTROL POINTS WERE ESTABLISHED BY G.P.S. STATIC OBSERVATIONS ON APRIL 2, 2008.
2. COORDINATES SHOWN HEREON ARE NAD83, HARN (HPGN) STATE PLANE, 1702 LA SOUTH ZONE, US SURVEY FOOT.
3. VERTICAL CONTROL NOT REQUIRED.

STATE OF LOUISIANA
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CIVIL ENGINEERING 1/28/09

Stanley Consultants, Inc.

DOTD

PARIS AVENUE

GEOMETRIC LAYOUT

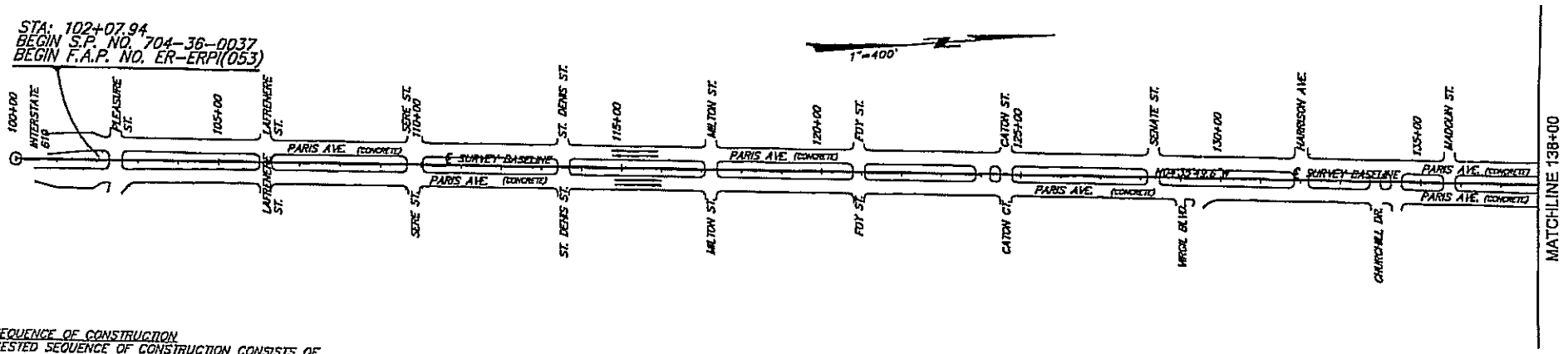
NO.	DATE	REVISION DESCRIPTION

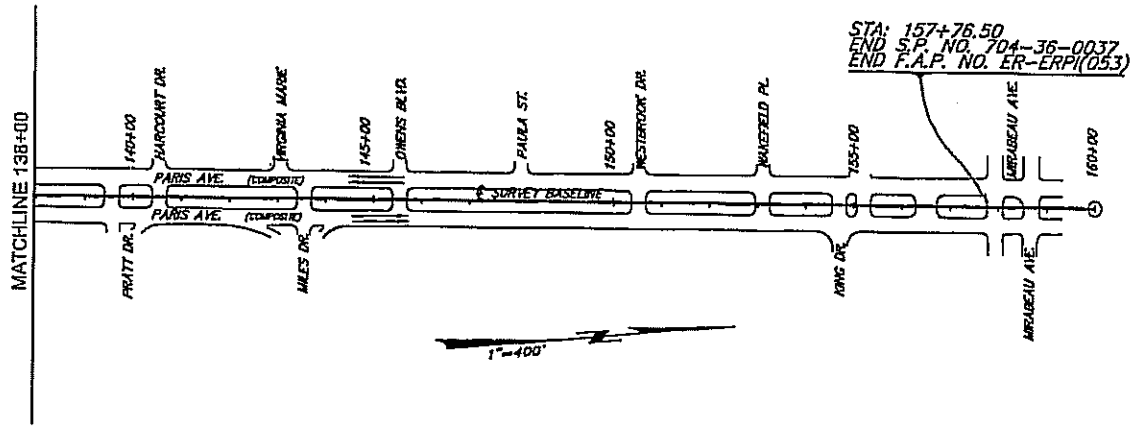
DESIGNED	BSR	PARISH	ORLEANS
CHECKED	JRS		
DETAILED	AKW	FEDERAL PROJECT	ER-ERP1(053)
CHECKED	BSR		
DATE	DEC 2008	STATE PROJECT	704-36-0037

SHEET NUMBER 61

FINAL PLANS

$DATE$ $TIME$





SUGGESTED SEQUENCE OF CONSTRUCTION

1. THE SUGGESTED SEQUENCE OF CONSTRUCTION CONSISTS OF
   a. THE EXISTING LANE CONFIGURATION ON PARIS IS A FOUR-LANE BOULEVARD SECTION WITH A GRASS MEDIAN WITH 12-FOOT TRAVEL LANES AND 9-FOOT PARKING LANE. THE PROPOSED SEQUENCE OF CONSTRUCTION ASSUMES ADVANCED WARNING TO THE HOMEOWNERS PER GENERAL NOTE 1.9, PAGE 1b, THAT STREET PARKING WILL BE UNAVAILABLE DURING THE CONSTRUCTION ACTIVITIES ON EACH OF THE NORTHBOUND AND SOUTHBOUD TRAVEL LANES, RESPECTIVELY. THE PROPOSED SEQUENCE OF CONSTRUCTION CONSISTS OF REPLACING CONCRETE PANELS, 2" MILL (AVG. DEPTH) OF EXISTING ASPHALT AND ASPHALT OVERLAY BETWEEN THE PROJECT LIMITS FOR THE NORTHBOUND AND SOUTHBOUND ROADWAYS.

   b. THE PROJECT ENGINEER SHALL IDENTIFY AND ADEQUATELY MARK THE PAVEMENT AREAS TO BE REPAIRED IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS. THE PAVEMENT REPAIRS ON PARIS WILL CONSIST OF PCC PAVEMENT WITH BASE COURSE, PER CURRENT CITY OF NEW ORLEANS STANDARDS, AS DETERMINED BY FIELD INSPECTION, WILL REQUIRE LEVELING TO ADJUST THE CROSS SLOPE AND LONGITUDINAL SLOPE. THE ENTIRE PROJECT WILL THEN BE OVERLAYED WITH TWO INCHES (AVG. DEPTH) OF SUPERPAVE ASPHALTIC CONCRETE. THE PROJECT ENGINEER SHALL INSPECT THE REMAINING ASPHALTIC CONCRETE THICKNESS. SHOULD AREAS EXIST WITH ONE-INCH OR LESS OF ASPHALTIC CONCRETE, THE CONTRACTOR SHALL BE INSTRUCTED WHICH AREAS SHALL BE COLD-PLANNED TO REMOVE ADDITIONAL ASPHALTIC CONCRETE IN THESE AREAS.

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4. THE CONTRACTOR SHALL BE LIMITED TO ONLY ONE LANE CLOSURE, AT A MAXIMUM LENGTH OF 1320' (FEET), PER DIRECTION AT ANY GIVEN TIME.

5. LENGTH AND DURATION OF LANE CLOSURES SHALL BE INDICATED ON CONTRACTOR'S APPROVED TC PLANS.

STATE OF LOUISIANA
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REG. No. 33279
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PROFESSIONAL ENGINEER
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1/28/09
CIVIL ENGINEER

Stanley Consultants, Inc.

DOTD DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT

PARIS AVENUE

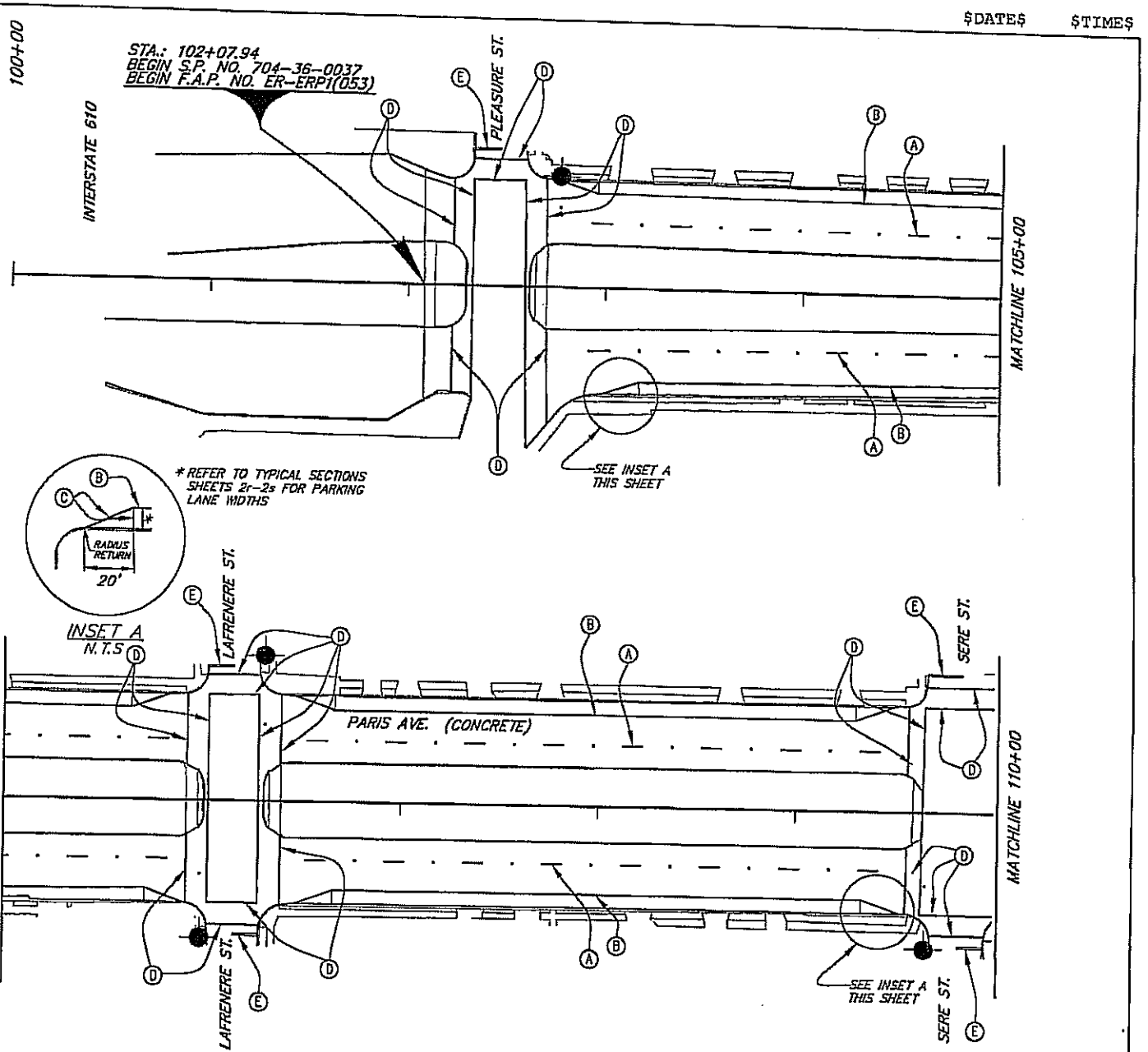
SUGGESTED SEQUENCE OF CONSTRUCTION

DESIGNED	BSR	PARISH	ORLEANS
CHECKED	JRS		
DETAILED	AKW	FEDERAL PROJECT	ER-ERP1(053)
CHECKED	BSR		
DATE	DEC 2008	STATE	704-36-0037

SHEET NUMBER 62

FINAL PLANS

$DATE$ $TIME$



NOTES:

1. ONLY STRIPING WITHIN PROJECT LIMITS IS REQUIRED. STRIPING REQUIRED AT EACH INTERSECTION TO BE IN ACCORDANCE WITH N.O. DPW STD. 10.
2. SCHOOL MARKINGS SHALL BE IN ACCORDANCE WITH N.O. DPW STD. 10.
3. CROSSWALK STRIPING TO BE PLACED PER NO DPW STD. 10 AND DIRECTION OF PROJECT ENGINEER.
4. A BLUE RAISED REFLECTORIZED PAVEMENT MARKER SHALL BE PLACED AT THE CENTER OF THE OUTSIDE LINE TO INDICATE THE LOCATION OF FIRE HYDRANTS.

STRIPING LEGEND:

- (A) 4" BROKEN WHITE STRIPE (W/ REFLECTORIZED MARKERS @ 40' O.C.)
- (B) 4" SOLID WHITE STRIPE
- (C) 6" SOLID YELLOW STRIPE
- (D) 6" SOLID WHITE STRIPE
- (E) 12" SOLID WHITE STRIPE

STATE OF LOUISIANA
Blake S. Roussel
REG. No. 33279
REGISTERED
PROFESSIONAL ENGINEER
CIVIL ENGINEERING
Blake S. Roussel
4/28/09

SCALE 1"=80'

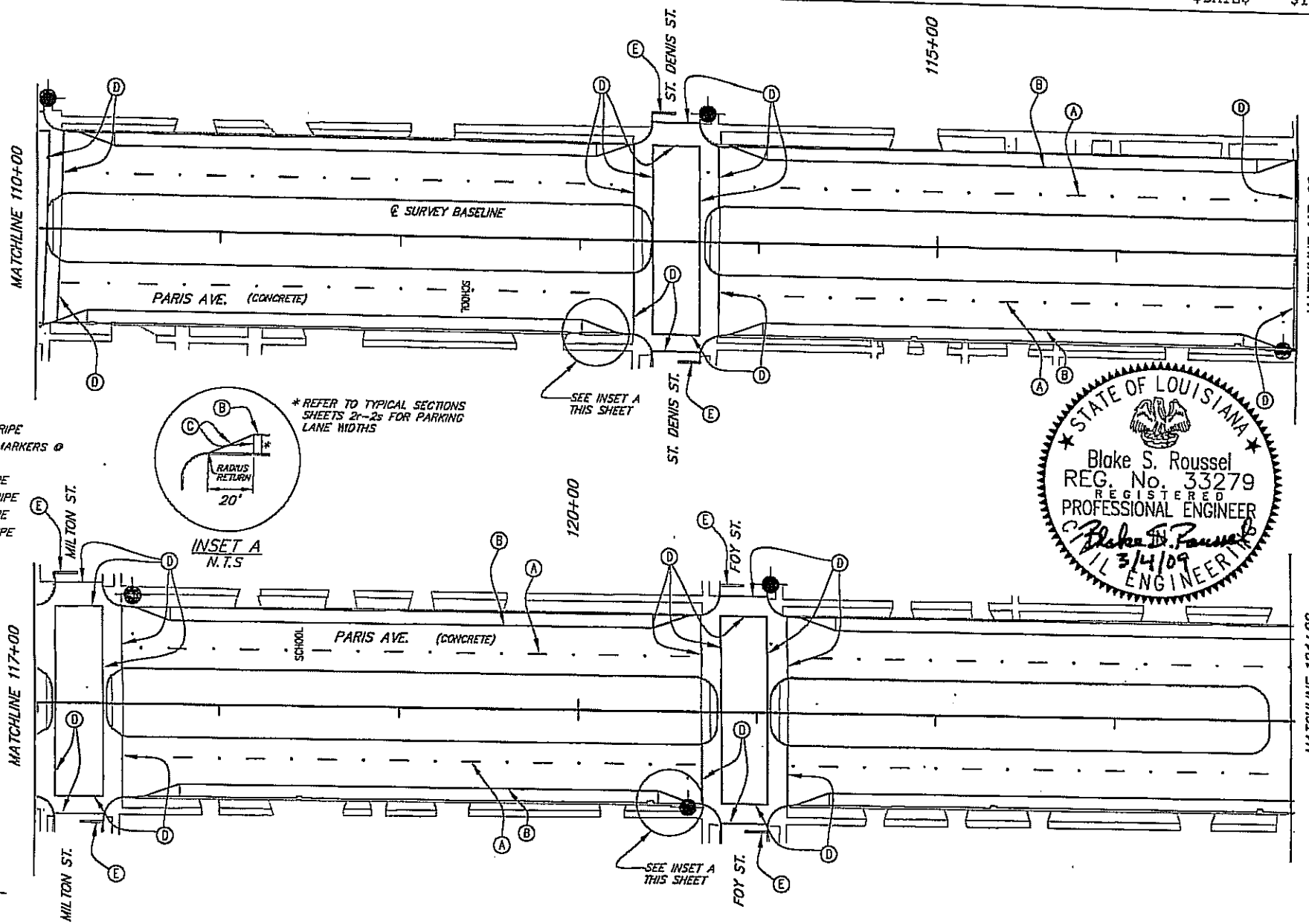
Stanley Consultants, Inc.	DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT DOTD	PARIS AVENUE STRIPING SHEET	STATE OF LOUISIANA DEPARTMENT OF PUBLIC WORKS	NO. / DATE / REVISION DESCRIPTION / BY	DESIGNED BSR CHECKED JRS DETAILED BAS CHECKED JRS DATE FEB 2009 SHEET 1 OF 5

PARISH	ORLEANS
FEDERAL PROJECT	ER-ERP1(053)
STATE PROJECT	704-36-0037
SHEET NUMBER	63

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FINAL PLANS

$DATE$ $TIME$



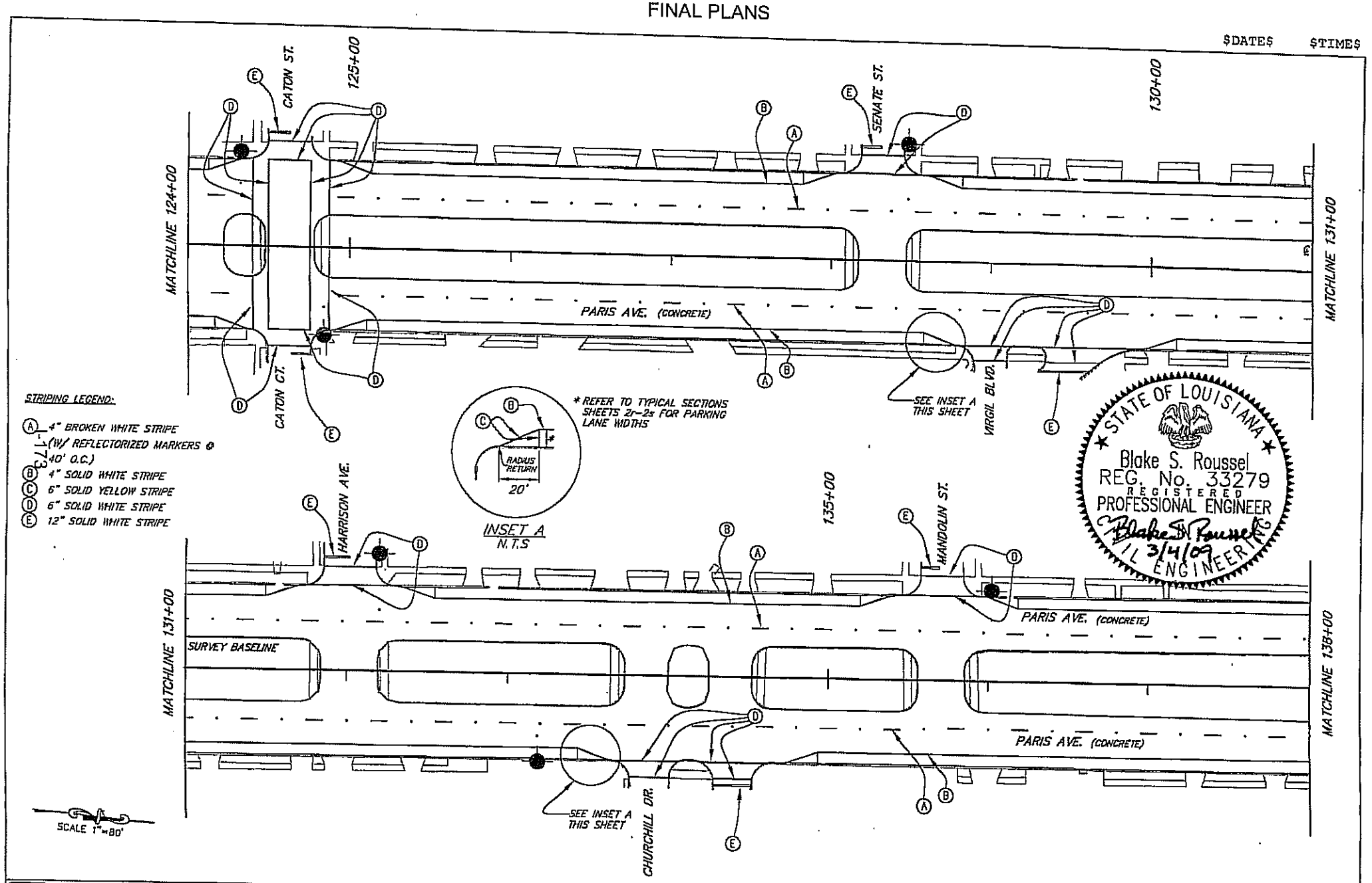
STATE OF LOUISIANA
Blake S. Roussel
REG. No. 33279
REGISTERED
PROFESSIONAL ENGINEER
3/4/09

Stanley Consultants, Inc.	PARIS AVENUE	DESIGNED BSR / CHECKED JRS	PARISH ORLEANS
DOTD	STRIPING SHEET	DETAILED BAS / CHECKED JRS	FEDERAL PROJECT ER-ERP1(053)
	NO. DATE	DATE FEB 2009	STATE 704-36-0037

SHEET NUMBER 64

FINAL PLANS

$DATE$ $TIME$



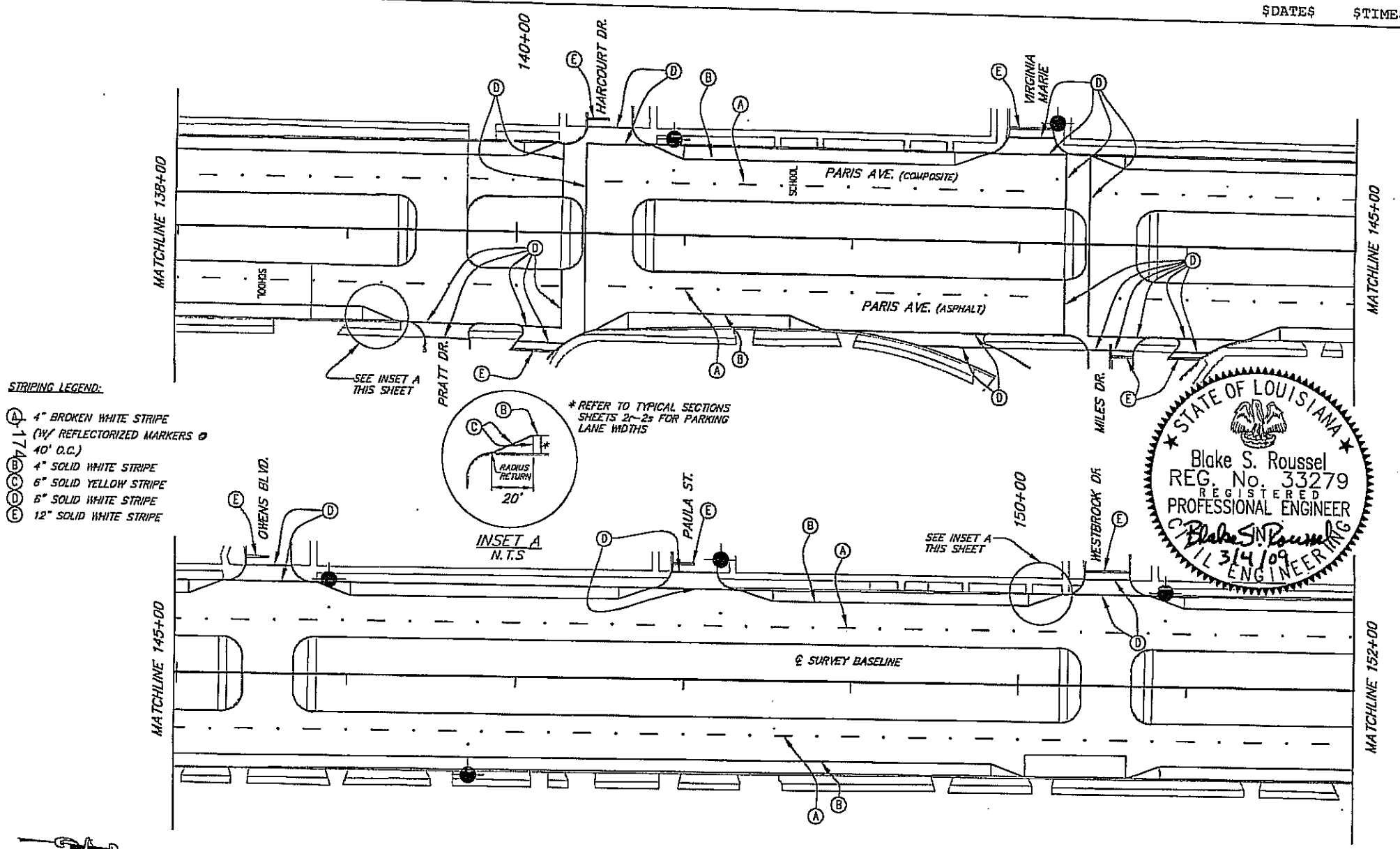
STATE OF LOUISIANA
Blake S. Roussel
REG. No. 33279
REGISTERED
PROFESSIONAL ENGINEER
Blake S. Roussel
3/4/09
ENGINEERING

Stanley Consultants, Inc.	PARIS AVENUE	DESIGNED BSR / CHECKED JRS	PARISH ORLEANS
DOTD	STRIPING SHEET	DETAILED BAS / CHECKED JRS	FEDERAL PROJECT ER-ERP1(053).
	NO. DATE	DATE FEB 2009	STATE 704-36-0037

SHEET NUMBER 65

FINAL PLANS

$DATE$ $TIME$



STRIPING LEGEND:

- (A) 4" BROKEN WHITE STRIPE (W/ REFLECTORIZED MARKERS @ 40' O.C.)
- (B) 4" SOLID WHITE STRIPE
- (C) 6" SOLID YELLOW STRIPE
- (D) 6" SOLID WHITE STRIPE
- (E) 12" SOLID WHITE STRIPE

SCALE 1"=80'

STATE OF LOUISIANA
Blake S. Roussel
REG. No. 33279
REGISTERED
PROFESSIONAL ENGINEER
Blake S. Roussel
3/4/09
CIVIL ENGINEERING

Stanley Consultants, Inc.

DOTD

PARIS AVENUE

STRIPING SHEET

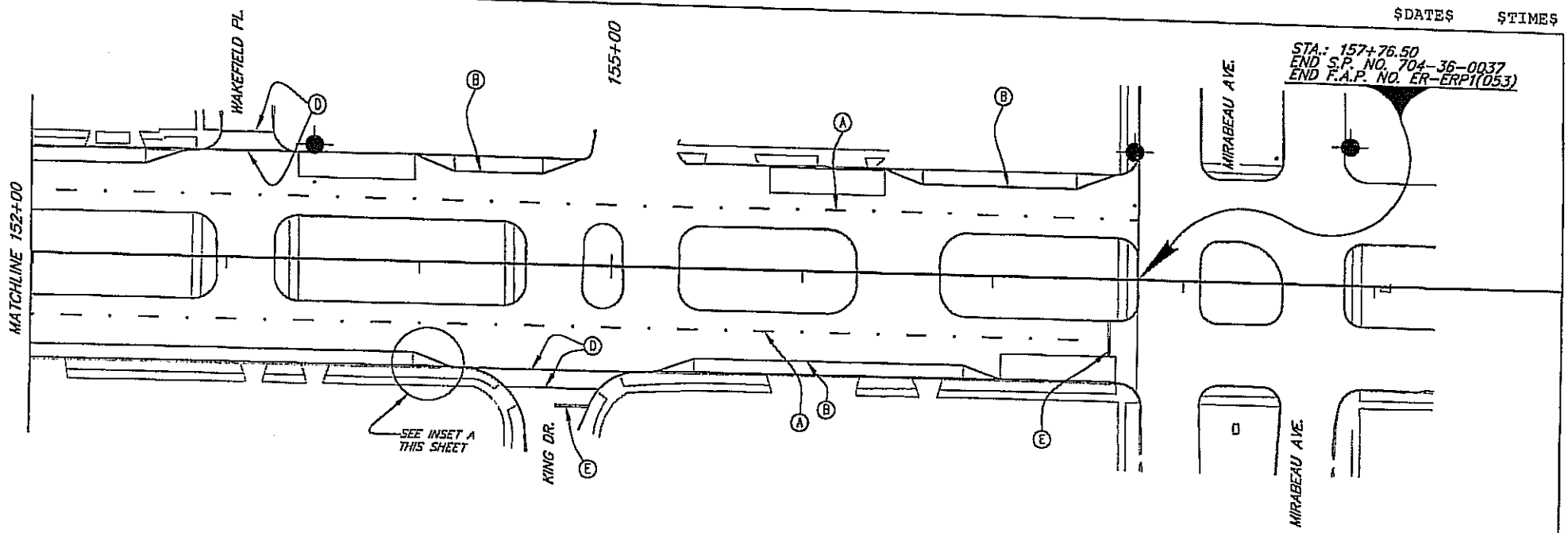
NO	DATE	

DESIGNED / CHECKED	BSR / JRS	PARISH	ORLEANS
DETAILED / CHECKED	BAS / JRS	FEDERAL PROJECT	ER-ERP1(053)
DATE	FEB 2009	STATE PROJECT	704-36-0037

SHEET NUMBER 66

FINAL PLANS

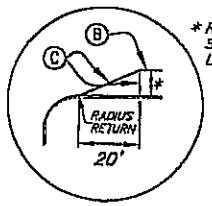
$DATE$ $TIME$



SCALE 1"=80'

STRIPING LEGEND:

- (A) 4" BROKEN WHITE STRIPE (W/ REFLECTORIZED MARKERS @ 40' O.C.)
- (B) 4" SOLID WHITE STRIPE
- (C) 6" SOLID YELLOW STRIPE
- (D) 6" SOLID WHITE STRIPE
- (E) 12" SOLID WHITE STRIPE



INSET A
N.T.S

* REFER TO TYPICAL SECTIONS SHEETS 2r-2s FOR PARKING LANE WIDTHS

STATE OF LOUISIANA
Blake S. Roussel
REG. No. 33279
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PROFESSIONAL ENGINEER
CIVIL ENGINEERING
Blake S. Roussel
4/28/09

Stanley Consultants, Inc.	PARIS AVENUE	DESIGNED BSR / CHECKED JRS	PARISH ORLEANS
DOTD	STRIPING SHEET	DETAILED BAS / CHECKED JRS	FEDERAL PROJECT ER-ERP1(053)
	NO. DATE REVISION DESCRIPTION	DATE FEB 2009	STATE PROJECT 704-36-0037

SHEET NUMBER 67

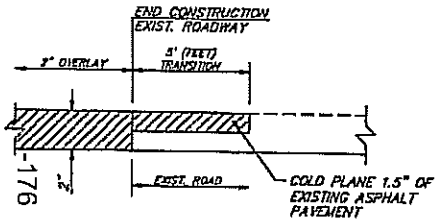
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FINAL PLANS

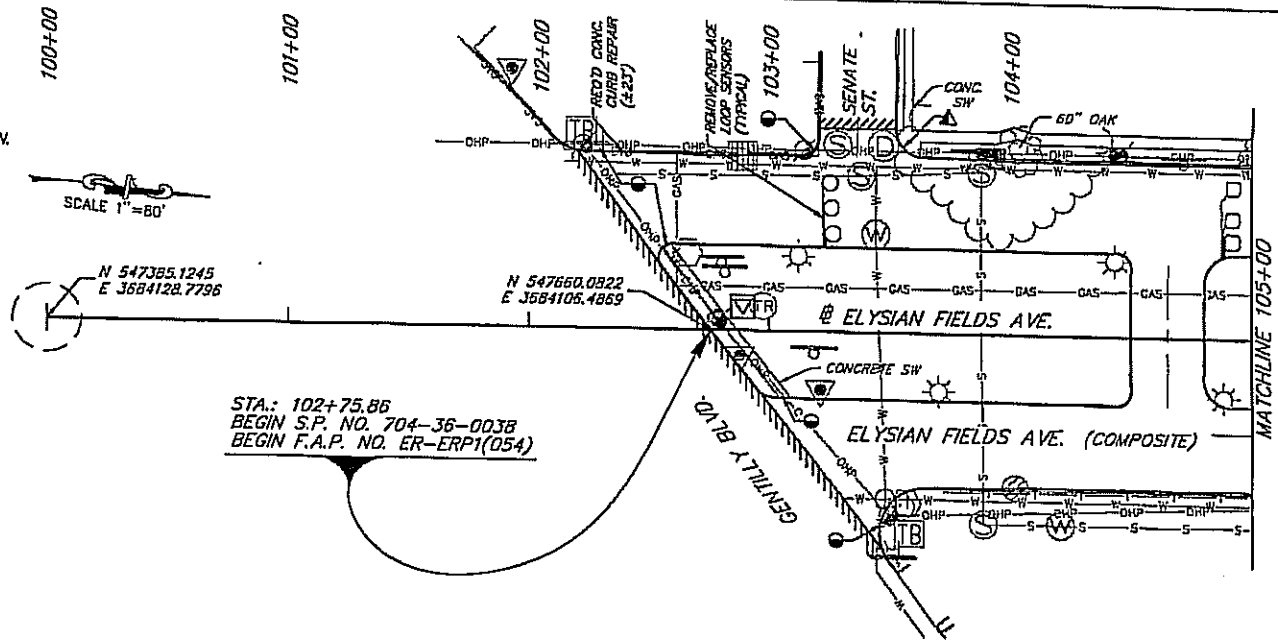
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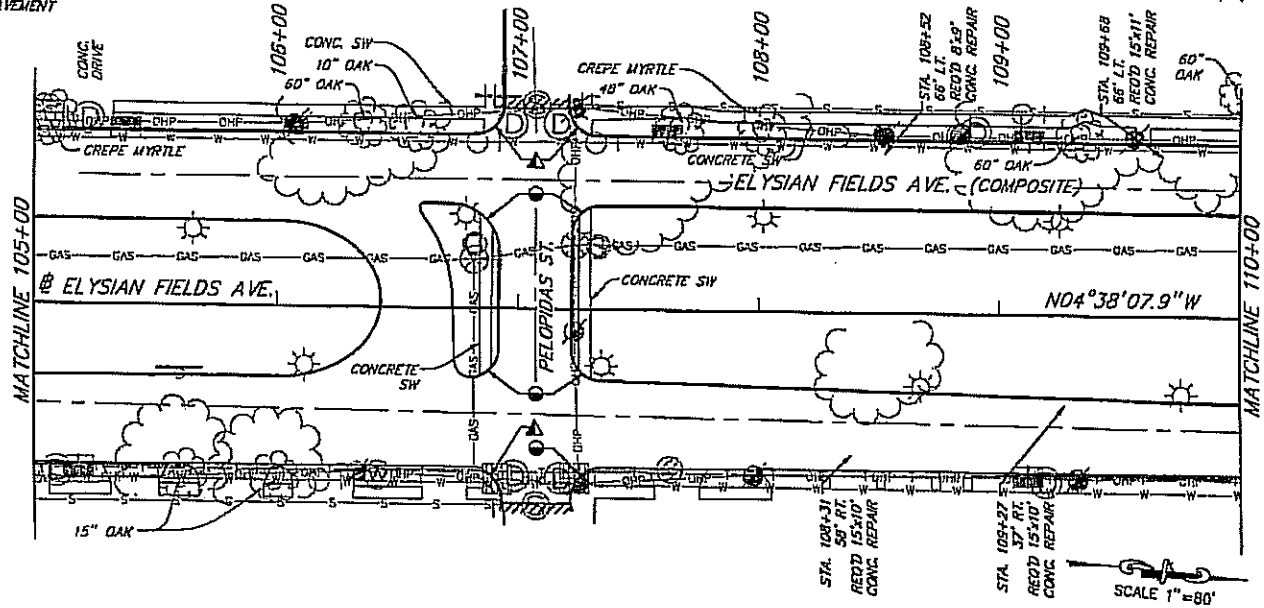
NOTES:

1. CONTRACTOR SHALL INSTALL AND MAINTAIN RAMPS FOR UTILITY STRUCTURES AND VERTICAL CONC. REPAIR FACES IN THE ROADWAYS TO MAINTAIN TRAFFIC BETWEEN MILLING AND OVERLAY OPERATIONS (NO DIRECT PAYMENT).
2. CONTRACTOR SHALL VERIFY HEIGHT CLEARANCE FOR TREE CANOPY AND OTHER OVERHEAD STRUCTURES PRIOR TO CONSTRUCTION. NOT ALL ARE SHOWN.
3. ONLY STRIPING WITHIN PROJECT LIMITS IS REQUIRED. STRIPING REQUIRED AT EACH INTERSECTION TO BE IN ACCORDANCE WITH N.O. DPW STD. 10.
4. UTILITIES HAVE BEEN LOCATED USING FIELD MARKINGS AND AS-BUILT INFORMATION. LOCATIONS TO BE FIELD VERIFIED BY CONTRACTOR. NOT ALL ARE SHOWN.
5. LIMITS OF CONSTRUCTION OF INTERSECTING STREETS ARE LOCATED AT THE BACK OF THE CURB RETURN POINTS OF TANGENCY UNLESS OTHERWISE DIRECTED BY THE PROJECT ENGINEER.
6. REPAIR LOCATIONS AND DIMENSIONS ARE APPROXIMATE AND SUBJECT TO CHANGE BY THE PROJECT ENGINEER.
7. ANY NECESSARY CURB AND SIDEWALK REMOVAL REQUIRED FOR ADA RAMP WORK TO MEET ADA REQUIREMENTS SHALL BE INCIDENTAL TO ADA RAMP ITEM.



ELYSIAN FIELDS AVENUE PAVEMENT TRANSITION
N.T.S.





LEGEND

- ▲ REQ'D HANDICAP RAMP (TYPE A) REMOVE/REPLACE APRON/SW
- ◒ REQ'D HANDICAP RAMP (TYPE B) REMOVE/REPLACE APRON/SW

STATE OF LOUISIANA
NICHOLAS J. OLIVIER
License No. 33351
PROFESSIONAL ENGINEER
CIVIL ENGINEERING
1/28/09

CIVIL DESIGN & CONSTRUCTION

DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT — DOTD

ELYSIAN FIELDS AVENUE

PLAN SHEET

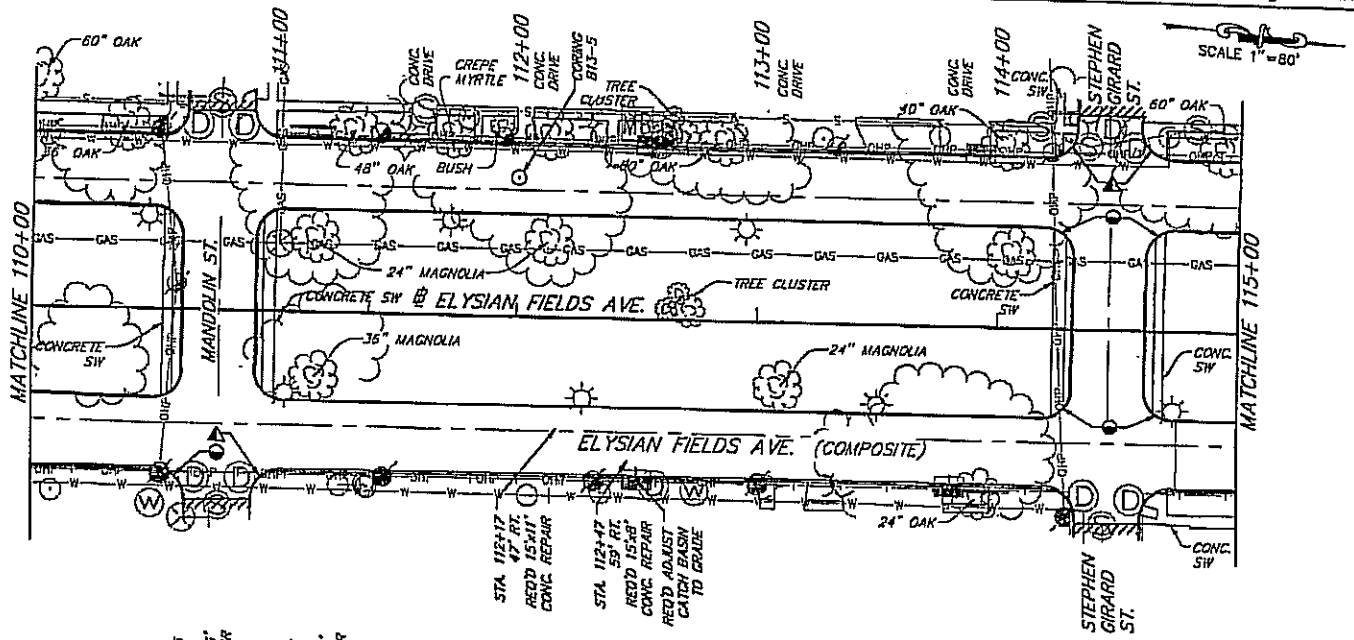
STATE OF LOUISIANA — DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT

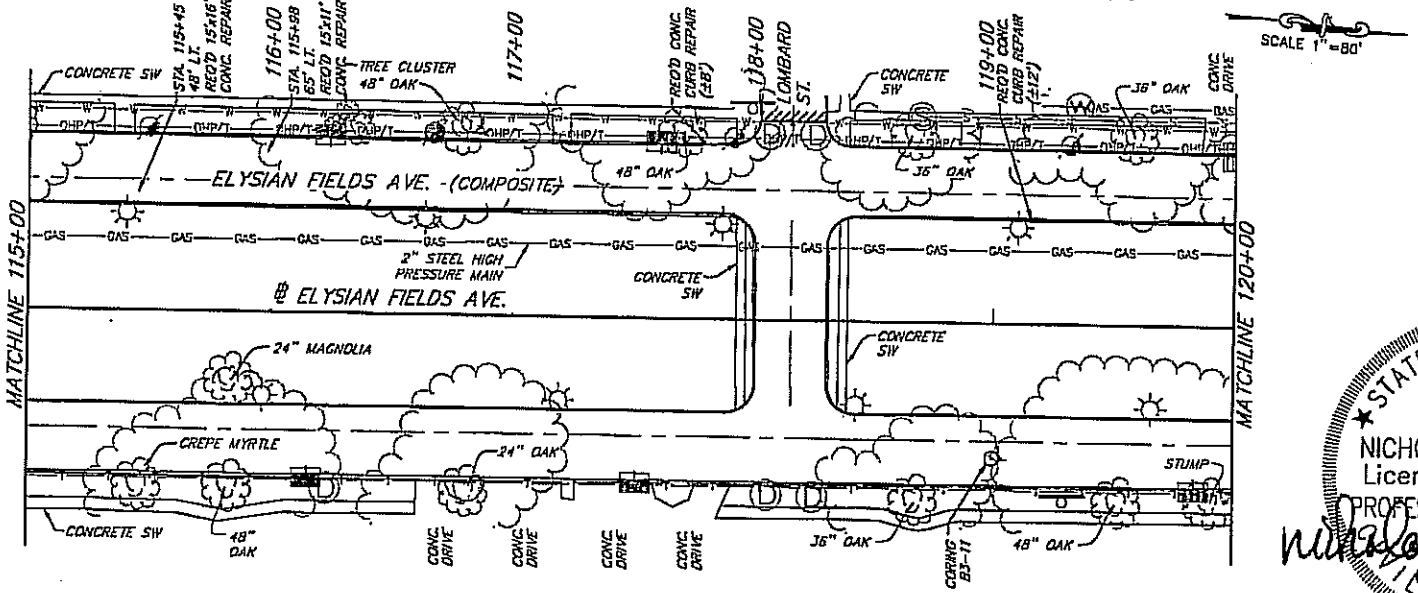
NO.	DATE	REVISION DESCRIPTION

DESIGNED / CHECKED	NJO / KEW	PARISH	ORLEANS
DETAILED / CHECKED	CMR / NJO	FEDERAL PROJECT	ER-ERP1(054)
DATE / SHEET	DEC. 2008 / 1 OF 11	STATE PROJECT	704-36-0038

SHEET NUMBER 68

FINAL PLANS





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LEGEND

- ▲ REQ'D HANDICAP RAMP (TYPE A) REMOVE/REPLACE APRON/SW
- ● REQ'D HANDICAP RAMP (TYPE B) REMOVE/REPLACE APRON/SW
- ⊙ APPROXIMATE CORING LOCATION

STATE OF LOUISIANA
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TRANSPORTATION AND DEVELOPMENT DOTD

ELYSIAN FIELDS AVENUE

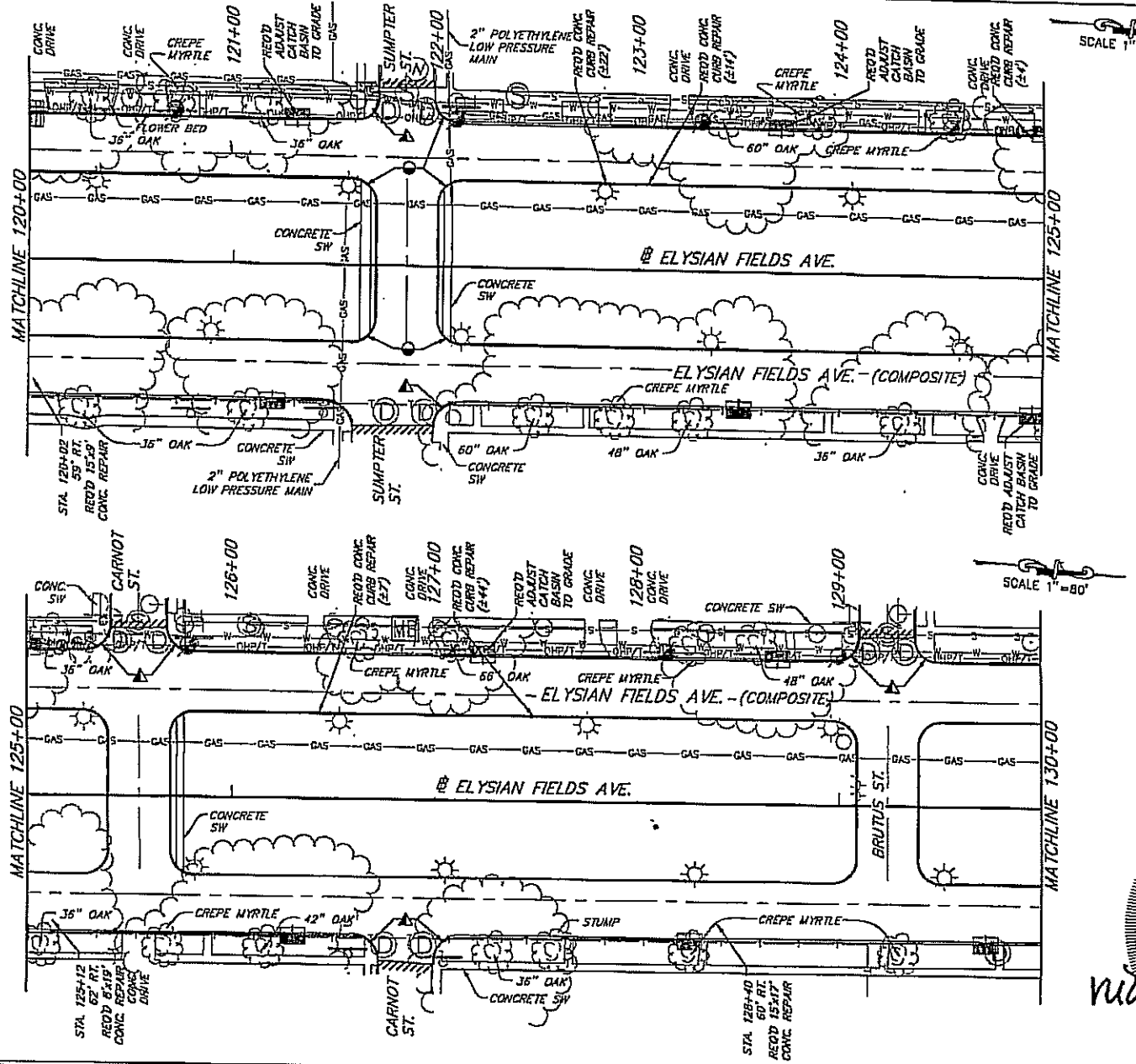
PLAN SHEET

NO.	DATE	REVISION DESCRIPTION

DESIGNED / CHECKED	NJO / KEW	PARISH	ORLEANS
DETAILED / CHECKED	CMR / NJO	FEDERAL PROJECT	ER-ERP1(054)
DATE	DEC. 2008	STATE PROJECT	704-36-0038

SHEET NUMBER 69

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LEGEND

- REO'D HANDICAP RAMP (TYPE A) REMOVE/REPLACE APRON/SW
- REO'D HANDICAP RAMP (TYPE B) REMOVE/REPLACE APRON/SW

STATE OF LOUISIANA
NICHOLAS J. OLIVIER
License No. 33351
PROFESSIONAL ENGINEER
CIVIL ENGINEERING
1/28/09

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DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT DOTD

ELYSIAN FIELDS AVENUE

PLAN SHEET

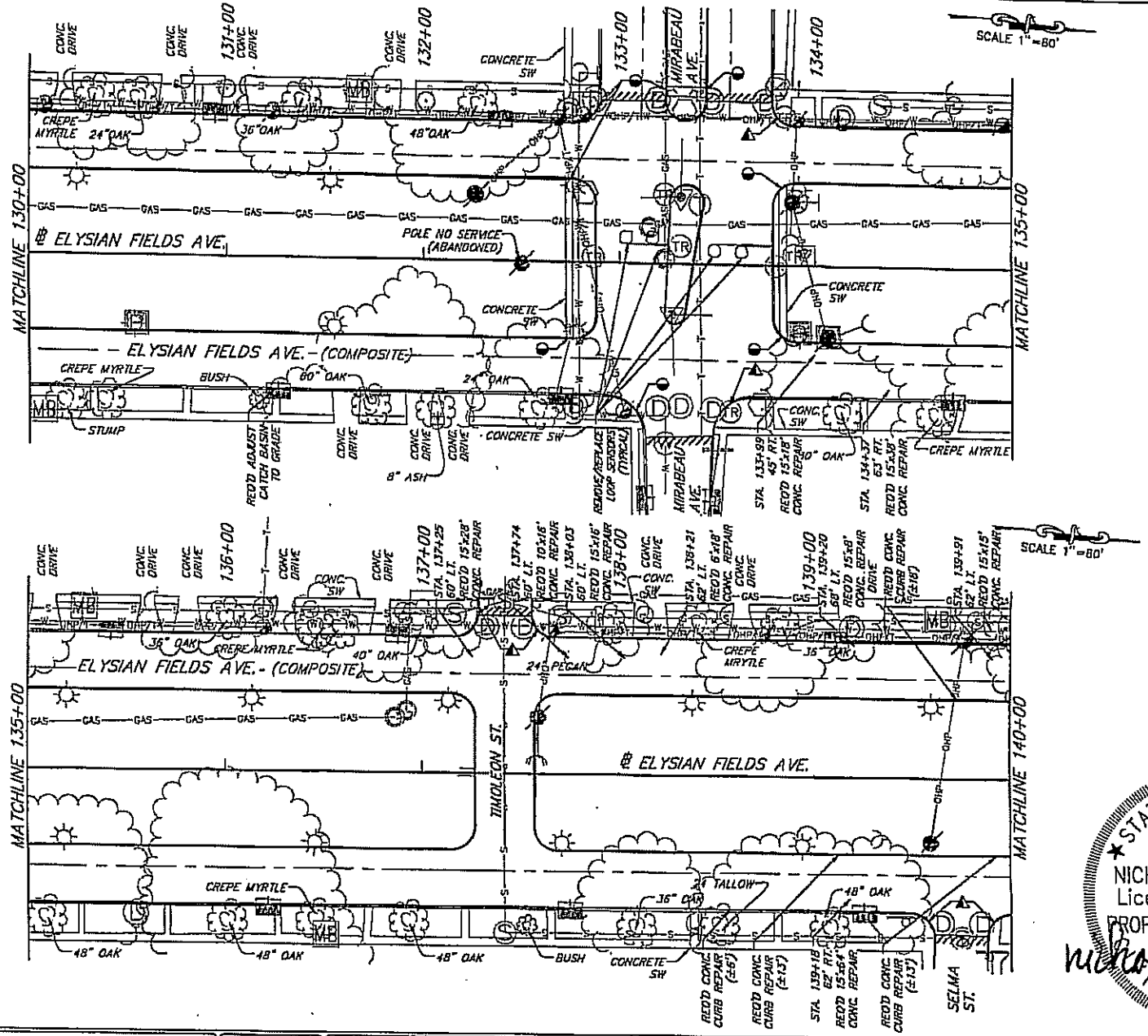
STATE OF LOUISIANA

NO.	DATE	REVISION DESCRIPTION	BY

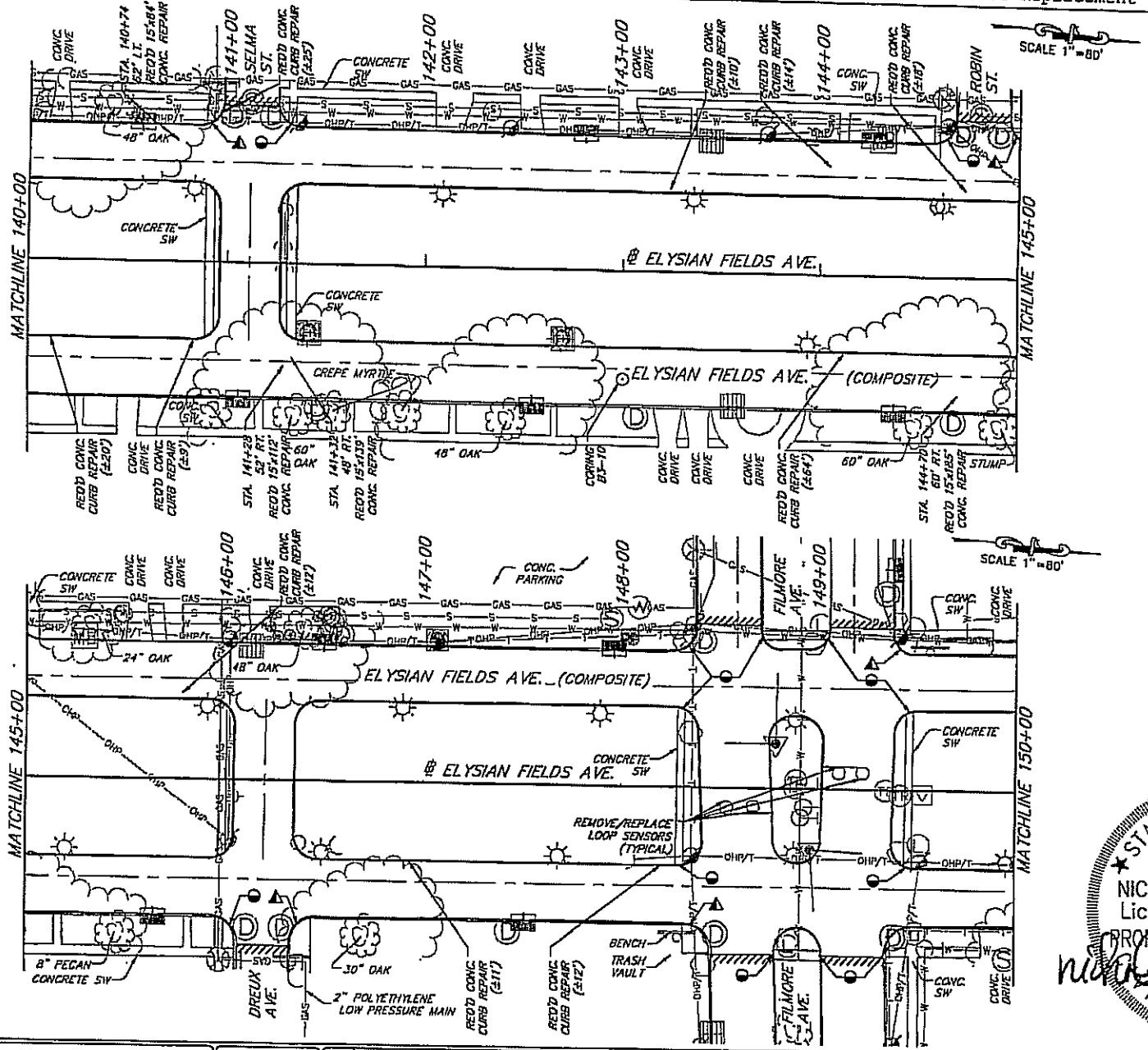
DESIGNED / CHECKED	NJO / KEW	PARISH	ORLEANS
DETAILED / CHECKED	CMR / NJO	FEDERAL PROJECT	ER-ERP1(054)
DATE / SHEET	DEC. 2008 / 3 OF 11	STATE PROJECT	704-36-0038

SHEET NUMBER 70

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SCALE 1"=80'
MATCHLINE 130+00
MATCHLINE 135+00
MATCHLINE 140+00
ELYSIAN FIELDS AVE.
ELYSIAN FIELDS AVE. - (COMPOSITE)
MIRABEAU AVE.
TIMOLEON ST.
SELMA ST.
CONCRETE SW
CONC. DRIVE
CREPE MYRTLE
POLE NO SERVICE (ABANDONED)
REMOVE/REPLACE LOOP SENSORS (TYPICAL)
REO'D ADJUST CATCH BASIN TO GRADE
REO'D CONC. CURB REPAIR (±45')
REO'D CONC. CURB REPAIR (±13')
REO'D CONC. CURB REPAIR (±13')
REO'D CONC. CURB REPAIR
REO'D CONC. CURB REPAIR
REO'D CONC. CURB REPAIR

FINAL PLANS



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LEGEND

- ▲ REQ'D HANDICAP RAMP (TYPE A) REMOVE/REPLACE APRON/SW
- ● REQ'D HANDICAP RAMP (TYPE B) REMOVE/REPLACE APRON/SW
- ⊙ APPROXIMATE CORING LOCATION

STATE OF LOUISIANA
NICHOLAS J. OLIVIER
License No. 33351
PROFESSIONAL ENGINEER
1/28/09

CIVIL DESIGN & CONSTRUCTION

DOTD — DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT

ELYSIAN FIELDS AVENUE

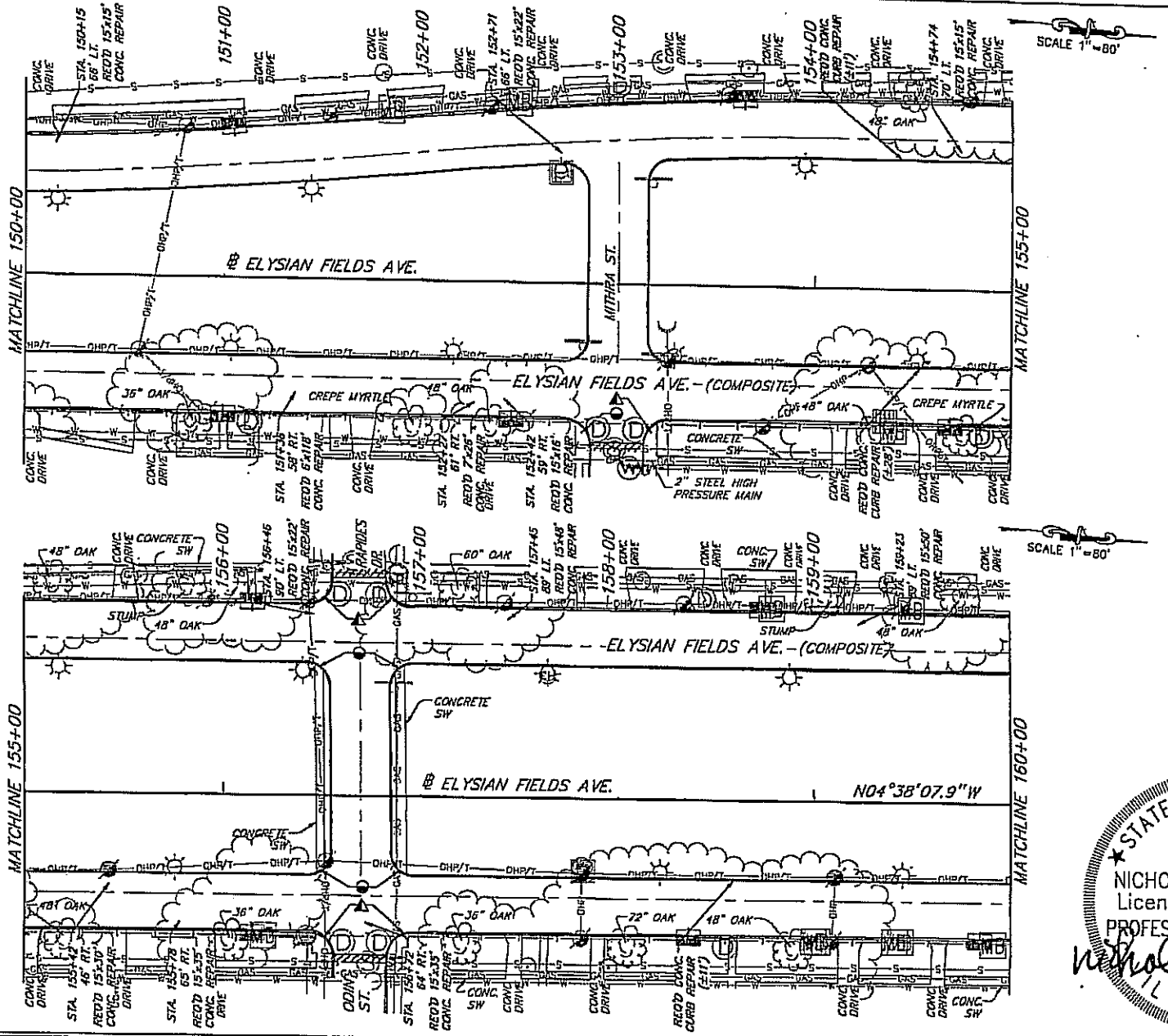
PLAN SHEET

NO.	DATE	REVISION DESCRIPTION	BY

DESIGNED / CHECKED	NJO / KEW	PARISH	ORLEANS
DETAILED / CHECKED	CMR / NJO	FEDERAL PROJECT	ER-ERP1(054)
DATE / SHEET	DEC. 2008 / 5 OF 11	STATE PROJECT	704-36-0038

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LEGEND

▲ REQ'D HANDICAP RAMP (TYPE A) REMOVE/REPLACE APRON/SIW

● REQ'D HANDICAP RAMP (TYPE B) REMOVE/REPLACE APRON/SIW

STATE OF LOUISIANA
NICHOLAS J. OLIVIER
License No. 33351
PROFESSIONAL ENGINEER
1/28/09

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CIVIL DESIGN & CONSTRUCTION INC.

DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT dotd

ELYSIAN FIELDS AVENUE

PLAN SHEET

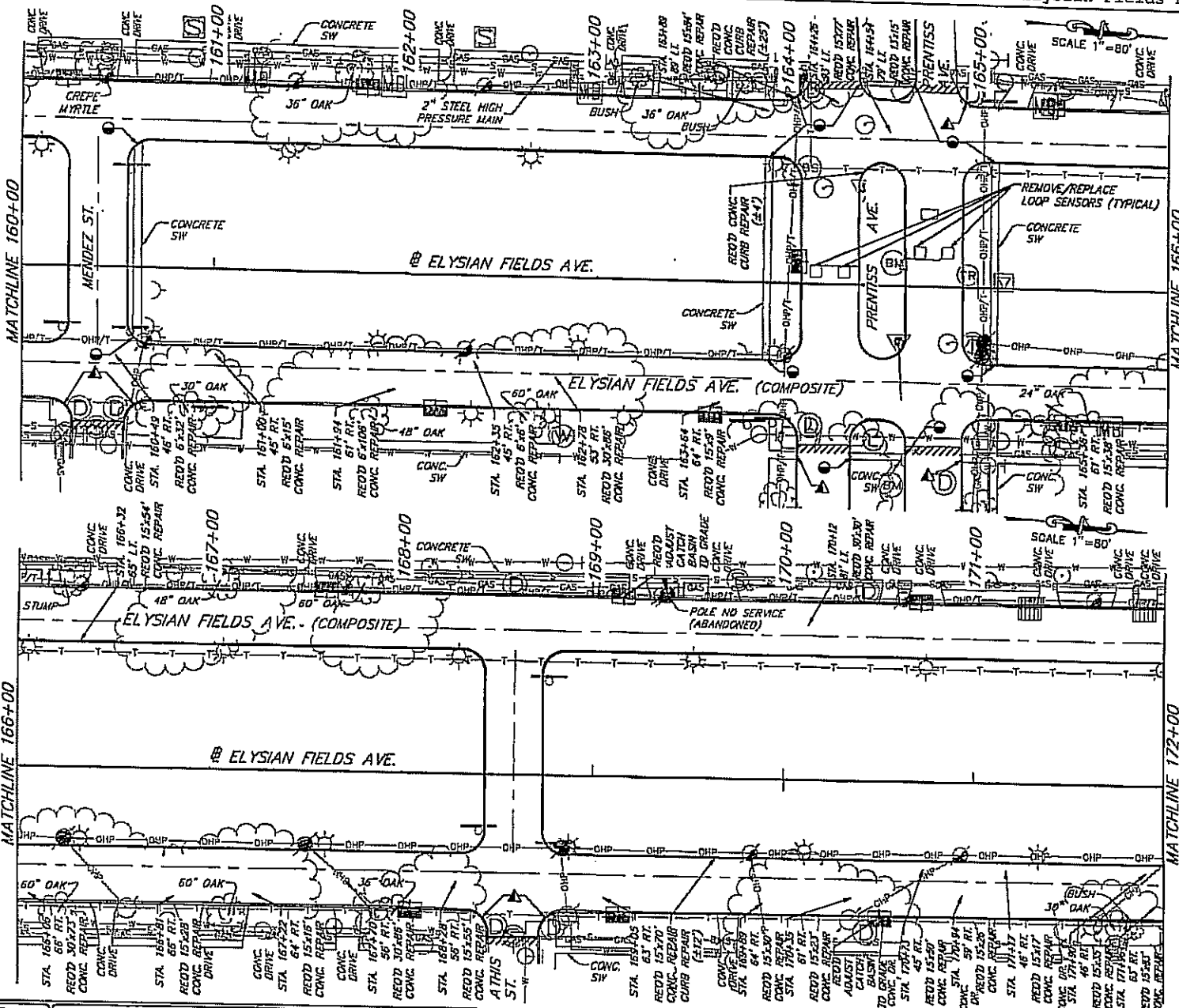
STATE OF LOUISIANA

NO.	DATE	REVISION DESCRIPTION	BY

DESIGNED / CHECKED	NJO / KEW	PARISH	ORLEANS
DETAILED / CHECKED	CMR / NJO	FEDERAL PROJECT	ER-ERP1(054)
DATE / SHEET	DEC. 2008 / 6 OF 11	STATE PROJECT	704-36-0038

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NICHOLAS J. OLIVIER
License No. 33351
PROFESSIONAL ENGINEER
IL ENGINEERING
1/28/09

CIVIL DESIGN & CONSTRUCTION INC.

DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT — DOTD

ELYSIAN FIELDS AVENUE

PLAN SHEET

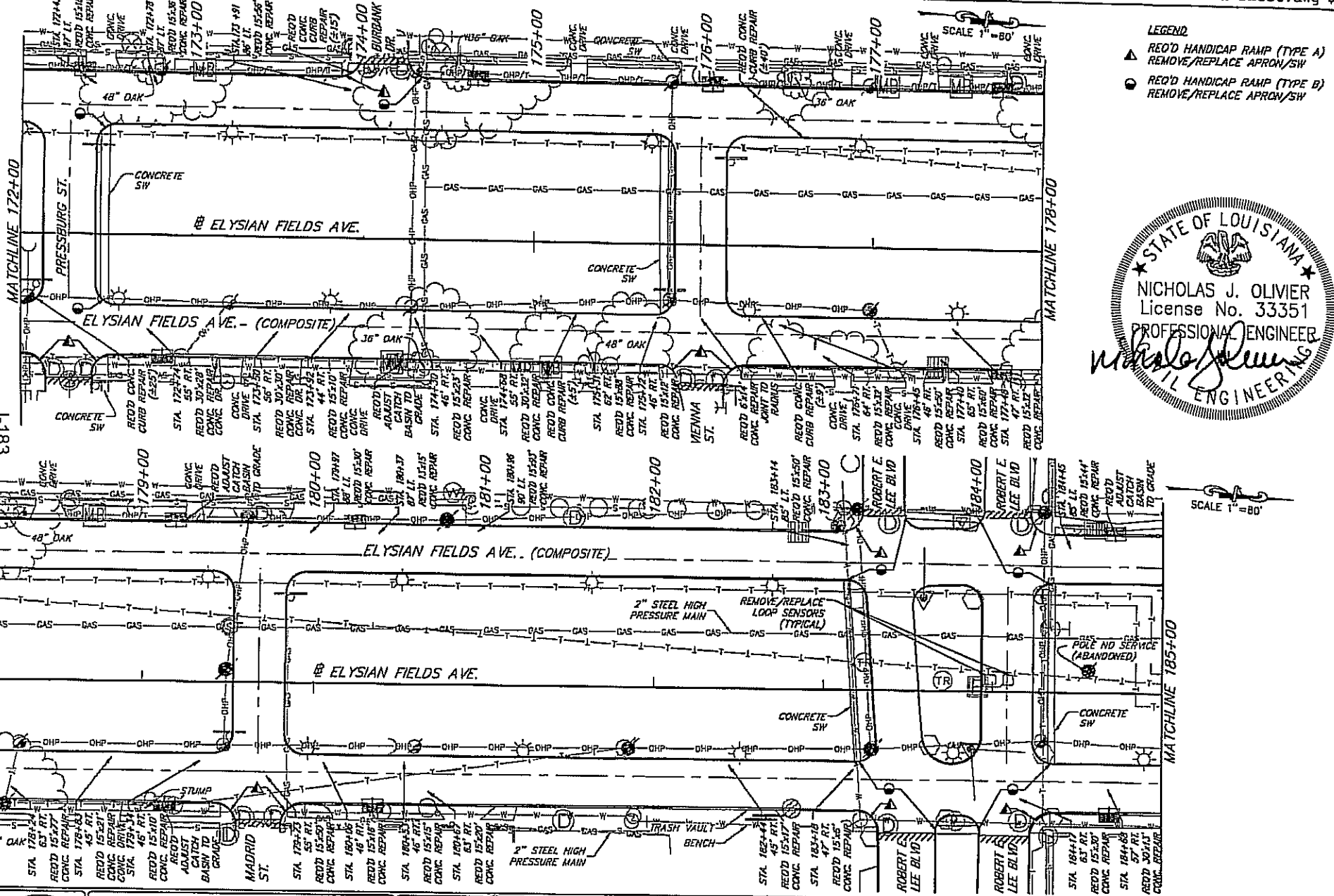
NO.	DATE	REVISION DESCRIPTION	BY

DESIGNED	NJO	PARISH	ORLEANS
CHECKED	KEW		
DETAILED	CMR	FEDERAL PROJECT	ER-ERP1(054)
CHECKED	NJO		
DATE	DEC. 2008	STATE PROJECT	704-36-0038
SHEET	7 OF 11		

SHEET NUMBER 74

FINAL PLANS

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NICHOLAS J. OLIVIER
License No. 33351
PROFESSIONAL ENGINEER
CIVIL ENGINEERING

CIVIL DESIGN & CONSTRUCTION

DOTD

ELYSIAN FIELDS AVENUE

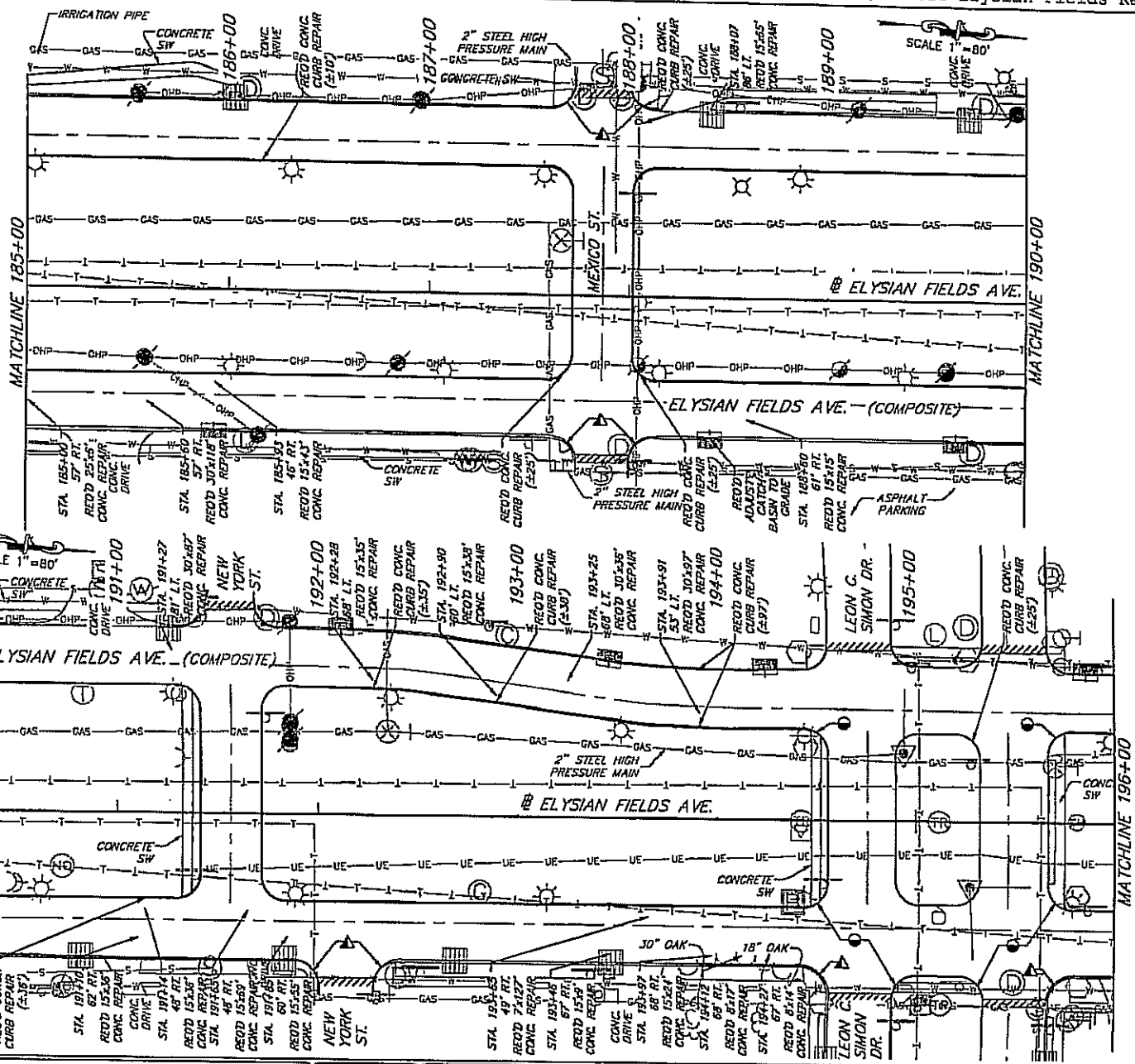
PLAN SHEET

NO.	DATE	REVISION DESCRIPTION	BY

DESIGNED	NJO	PARISH	ORLEANS
CHECKED	KEW		
DETAILED	CMR	FEDERAL PROJECT	ER-ERP1(054)
CHECKED	NJO		
DATE	DEC. 2008	STATE PROJECT	704-36-0038
SHEET	8 OF 11		

SHEET NUMBER 75

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PROFESSIONAL ENGINEER
CIVIL ENGINEERING
2/28/09

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CIVIL DESIGN & CONSTRUCTION

ELYSIAN FIELDS AVENUE

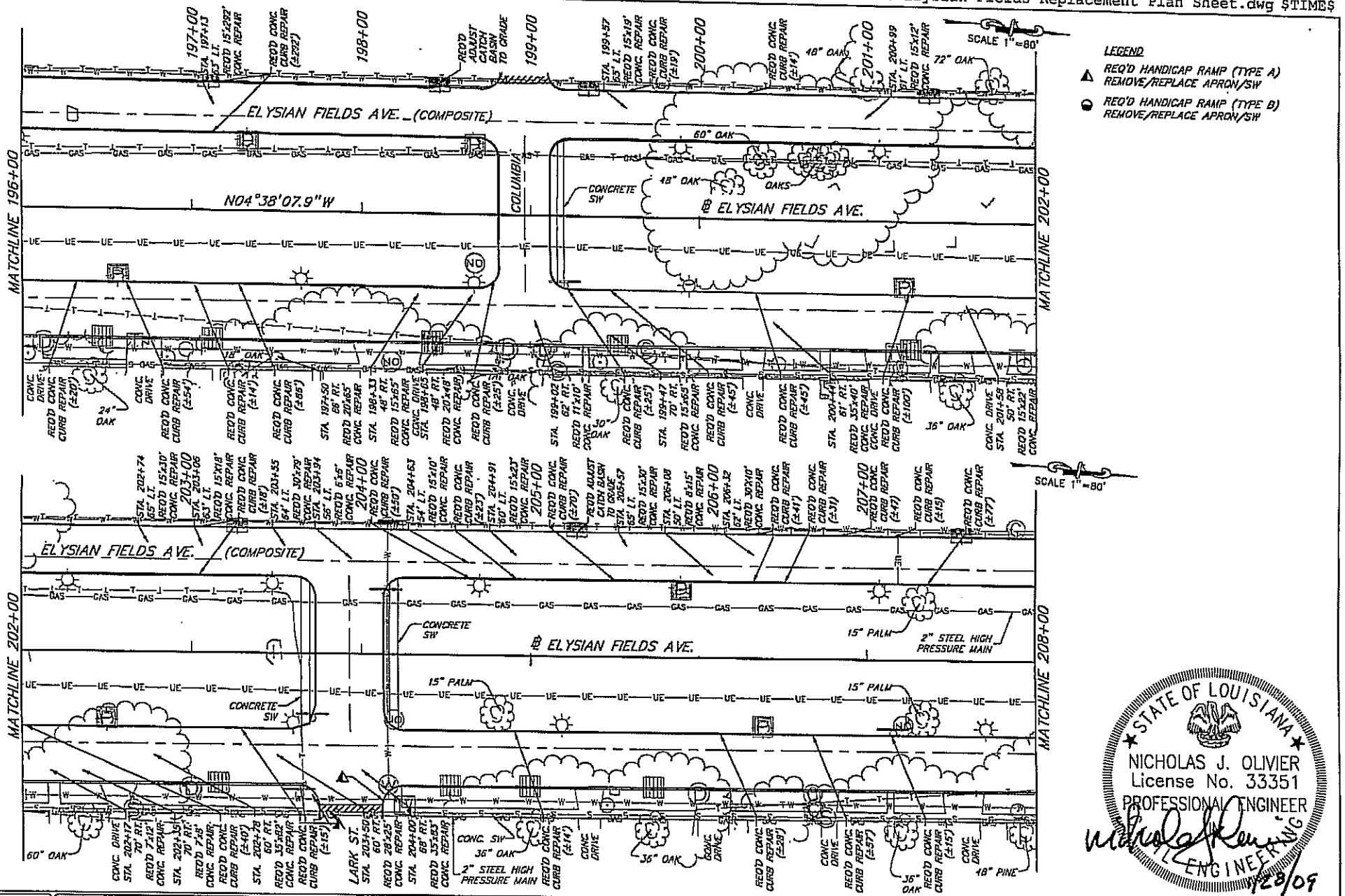
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NO.	DATE	REVISION DESCRIPTION	BY

DESIGNED / CHECKED	NJD / KEW	PARISH	ORLEANS
DETAILED / CHECKED	CMR / NJD	FEDERAL PROJECT	ER-ERP1(054)
DATE / SHEET	DEC. 2008 / 9 OF 11	STATE PROJECT	704-36-0038

SHEET NUMBER 76

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STATE OF LOUISIANA
NICHOLAS J. OLIVIER
License No. 33351
PROFESSIONAL ENGINEER
12/8/09

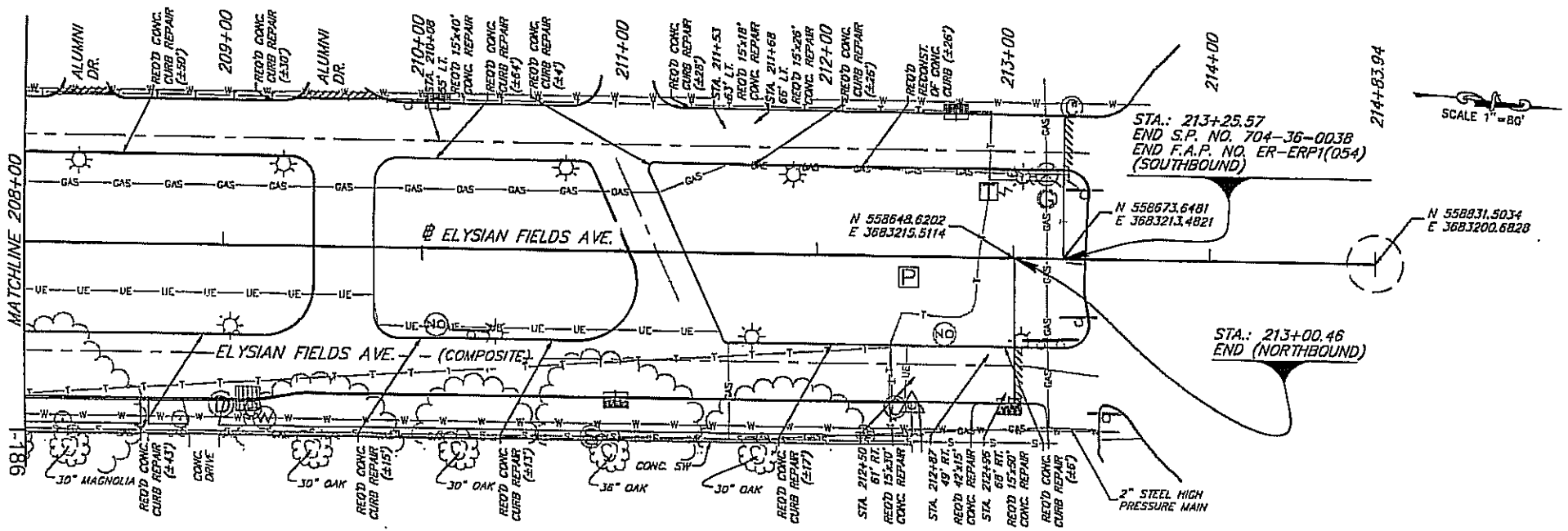
CIVIL DESIGN & CONSTRUCTION INC.	DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT DOTD	ELYSIAN FIELDS AVENUE	PLAN SHEET	STATE OF LOUISIANA ENGINEER	NO. / DATE / REVISION DESCRIPTION / BY

DESIGNED / CHECKED	NJO / KEW	PARISH	ORLEANS
DETAILED / CHECKED	CMR / NJO	FEDERAL PROJECT	ER-ERP1(054)
DATE / SHEET	DEC. 2008 / 10 OF 11	STATE PROJECT	704-36-0038

SHEET NUMBER 77

FINAL PLANS

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STATE OF LOUISIANA
NICHOLAS J. OLIVIER
License No. 33351
PROFESSIONAL ENGINEER
IN
ENGINEERING
1/28/09

CIVIL DESIGN & CONSTRUCTION INC.

DOTD

ELYSIAN FIELDS AVENUE

PLAN SHEET

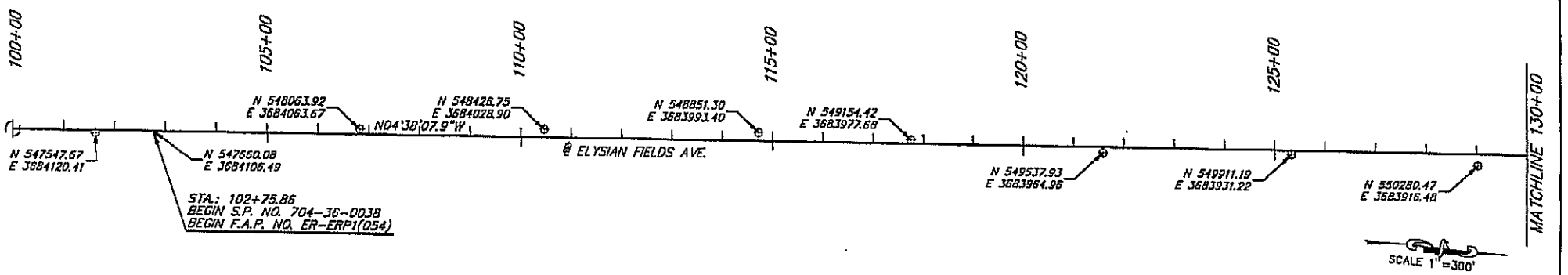
NO.	DATE	REVISION DESCRIPTION	BY

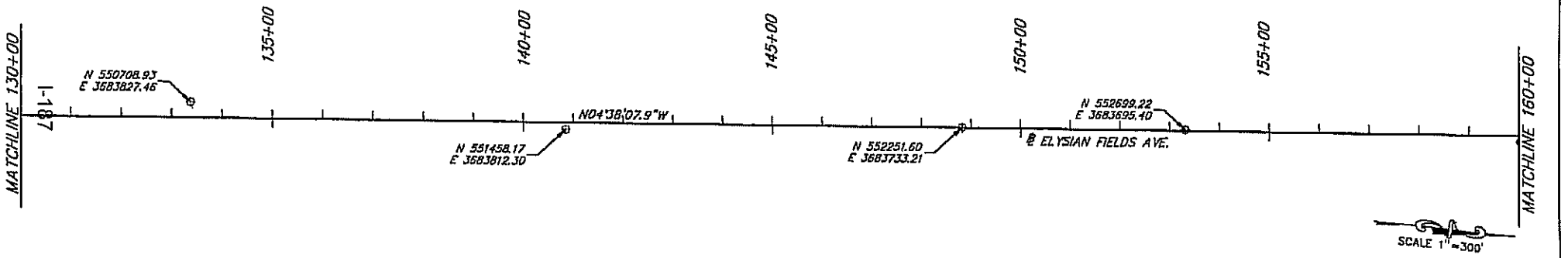
DESIGNED	NJO	PARISH	ORLEANS
CHECKED	KEW		
DETAILED	CMR	FEDERAL PROJECT	ER-ERP1(054)
CHECKED	NJO		
DATE	DEC. 2008	STATE PROJECT	704-36-0038
SHEET	11 OF 11		

SHEET NUMBER 78

FINAL PLANS

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NOTES:

1. HORIZONTAL CONTROL POINTS WERE ESTABLISHED BY G.P.S. STATIC OBSERVATIONS ON APRIL 2, 2008.
2. COORDINATES SHOWN HEREON ARE NAD83, HARN (HPGN) STATE PLANE, 1702 LA SOUTH ZONE, US SURVEY FOOT.
3. VERTICAL CONTROL NOT REQUIRED.

STATE OF LOUISIANA
NICHOLAS J. OLIVIER
License No. 33351
PROFESSIONAL ENGINEER
CIVIL ENGINEERING
12/8/08

CIVIL DESIGN & CONSTRUCTION

DOTD

ELYSIAN FIELDS AVENUE

GEOMETRIC LAYOUT

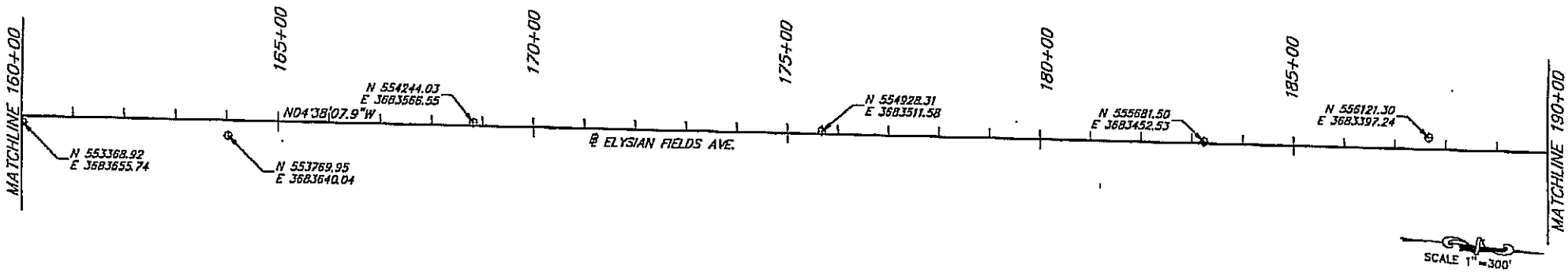
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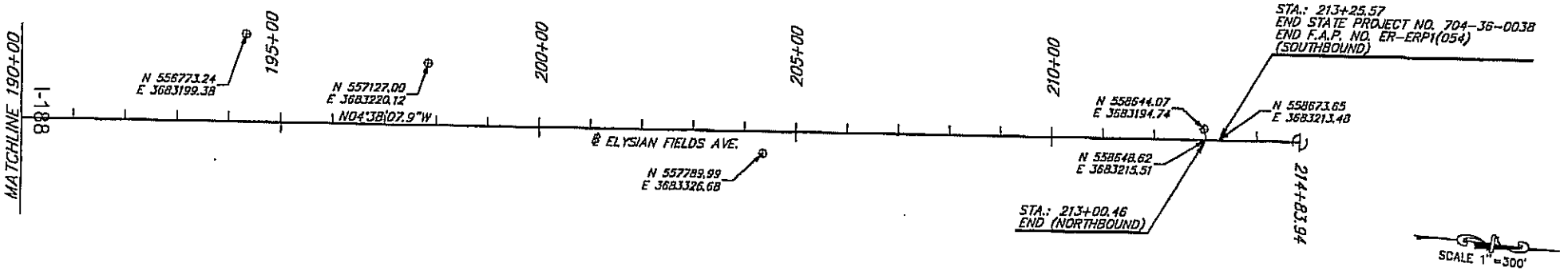
DESIGNED / CHECKED	NJO / KEW	PARISH	ORLEANS
DETAILED / CHECKED	CMR / NJO	FEDERAL PROJECT	ER-ERP1(054)
DATE / SHEET	DEC. 2008 / 1 of 2	STATE PROJECT	704-36-0038

SHEET NUMBER 79

Q:\PROJECTS\08-4626 New Orleans Roads Grp 6\Drawings\Revised Final Plans 012709\Elysian Fields Ave\08-4626 Elysian Fields Replacement Geometric Layout.dwg $TIME$

FINAL PLANS





NOTES:

1. HORIZONTAL CONTROL POINTS WERE ESTABLISHED BY G.P.S. STATIC OBSERVATIONS ON APRIL 2, 2008.
2. COORDINATES SHOWN HEREON ARE NAD83, HARN (HPGN) STATE PLANE, 1702 LA SOUTH ZONE, US SURVEY FOOT.
3. VERTICAL CONTROL NOT REQUIRED.

STATE OF LOUISIANA
NICHOLAS J. OLIVIER
License No. 33351
PROFESSIONAL ENGINEER
IN
CIVIL ENGINEERING
1/29/09

CIVIL DESIGN & CONSTRUCTION

DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT — DOTD

ELYSIAN FIELDS AVENUE

GEOMETRIC LAYOUT

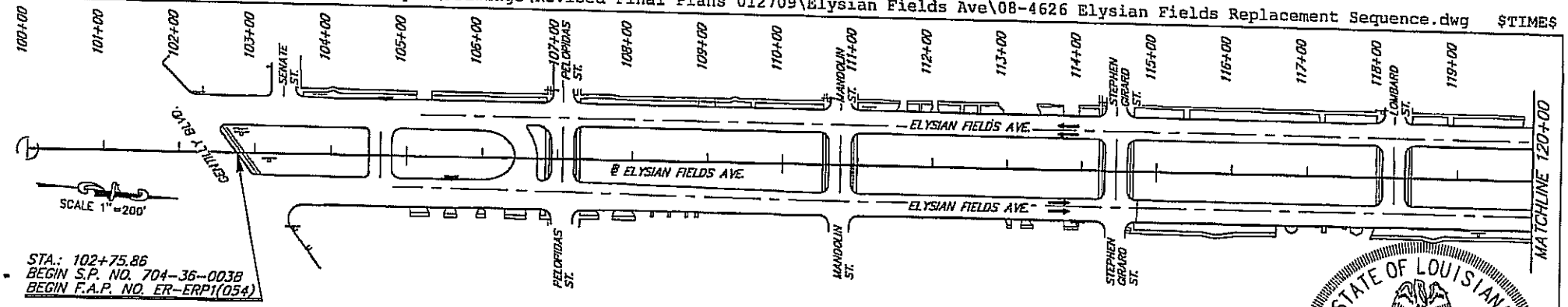
NO.	DATE	REVISION DESCRIPTION	BY

DESIGNED	NJD	PARISH	ORLEANS
CHECKED	KEW		
DETAILED	CMR	FEDERAL PROJECT	ER-ERP1(054)
CHECKED	NJD		
DATE	DEC. 2008	STATE PROJECT	704-36-0038
SHEET	2 of 2		

SHEET NUMBER 80

FINAL PLANS

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STATE OF LOUISIANA
NICHOLAS J. OLIVIER
License No. 33351
PROFESSIONAL ENGINEER
IN CIVIL ENGINEERING
1/29/09

SUGGESTED SEQUENCE OF CONSTRUCTION FOR ELYSIAN FIELDS AVE.

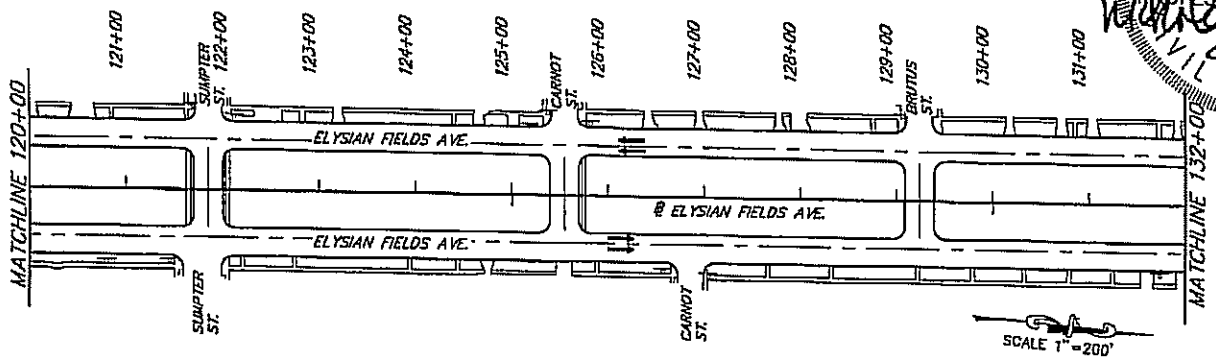
a. THE SUGGESTED SEQUENCE OF CONSTRUCTION CONSISTS OF THE EXISTING LANE CONFIGURATION ON ELYSIAN FIELDS AVE CONSISTS OF A FOUR-LANE BOULEVARD SECTION WITH A GRASS MEDIAN WITH 10-12 FOOT TRAVEL LANES AND 7-11 FOOT PARKING LANES. THE PROPOSED SEQUENCE OF CONSTRUCTION ASSUMES ADVANCED WARNING TO THE HOMEOWNERS PER GENERAL NOTE 1.9 PAGE 1B, THAT STREET PARKING WILL BE UNAVAILABLE DURING THE CONSTRUCTION ACTIVITIES ON EACH OF THE NORTHBOUND AND SOUTHBOUND TRAVEL LANES, RESPECTIVELY. THE PROPOSED SEQUENCE OF CONSTRUCTION CONSISTS OF REPLACING CONCRETE PANELS, 2" AVG. DEPTH MILL OF EXISTING ASPHALT OVERLAY BETWEEN THE PROJECT LIMITS FOR THE NORTHBOUND AND SOUTHBOUND ROADWAYS. THE PROJECT ENGINEER SHALL INSPECT THE REMAINING ASPHALTIC CONCRETE THICKNESS. SHOULD AREAS EXIST WITH ONE INCH (1") OR LESS OF ASPHALTIC CONCRETE, THE CONTRACTOR SHALL BE INSTRUCTED WHICH AREAS SHALL BE COLD PLANED TO REMOVE ADDITIONAL ASPHALTIC CONCRETE.

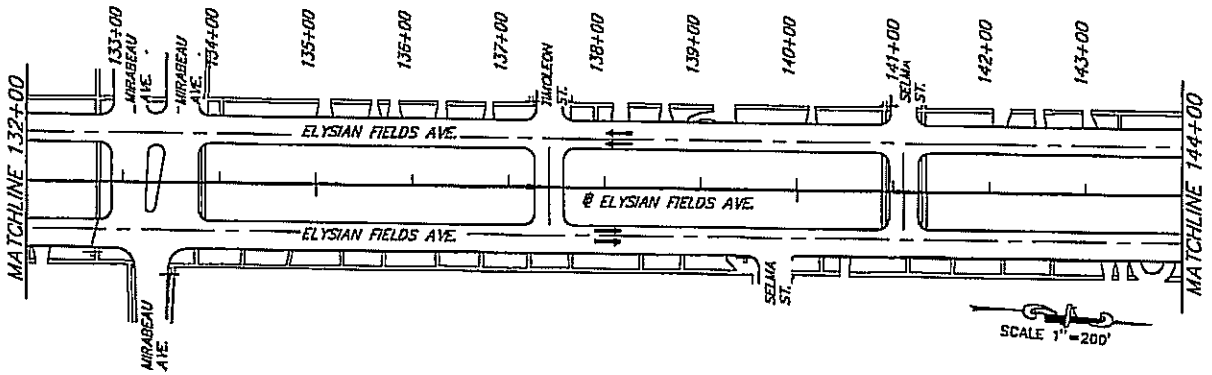
b. THE PROJECT ENGINEER SHALL IDENTIFY AND ADEQUATELY MARK THE PAVEMENT AREAS TO BE REPAIRED IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS. THE PAVEMENT REPAIRS ON ELYSIAN FIELDS AVE BLVD. WILL CONSISTS OF PCC PAVEMENT WITH BASE COURSE, PER CURRENT CITY OF NEW ORLEANS STANDARDS, AS DETERMINED BY FIELD INSPECTION. CERTAIN SECTIONS OF THE ROADWAY WILL REQUIRE LEVELING TO ADJUST THE CROSS SLOPE AND LONGITUDINAL SLOPE. THE ENTIRE PROJECT WILL THEN BE OVERLAYED WITH TWO INCHES AVG. DEPTH OF SUPERPAVE ASPHALTIC CONCRETE.

. THE CONTRACTOR SHALL SUBMIT A SEQUENCE OF CONSTRUCTION AND TRAFFIC CONTROL PLAN TO THE PROJECT ENGINEER FOR REVIEW, COORDINATION, AND APPROVAL BY THE DEPARTMENT OF PUBLIC WORKS. ADVANCED WARNING SIGNAGE FOR ALL SIDEROADS SHALL BE INCLUDED.

. CONTRACTOR SHALL CLOSE A PORTION OF ONE OF THE WESTBOUND LANES, IN ACCORDANCE WITH HIS WORK PLAN, CONSTRUCTING THE REQUIRED REPAIRS, AND PROGRESSING ALONG THE PROJECT. THIS TEMPORARY CONSTRUCTION SIGNING FOR THIS SEQUENCE OF CONSTRUCTION WOULD CORRESPOND TO LA DOTD SPECIAL DETAILS TC-06 ENTITLED "TRAFFIC CONTROL LAYOUT FOR LANE CLOSURES ON DIVIDED HIGHWAY", TC-00 ENTITLED "TEMPORRARY TRAFFIC CONTROL GENERAL NOTES SHEET", AND GUIDANCE FROM MUTCD CURRENTLY IN USE BY DOTD. THE SEQUENCE WOULD THEN BE REPEATED ON THE EASTBOUND LANES OF ELYSIAN FIELDS AVE.

. THE CONTRACTOR SHALL BE LIMITED TO ONLY ONE LANE CLOSURE, AT A MAXIMUM LENGTH OF 1320 FEET, PER DIRECTION, AT ANY GIVEN TIME.





CIVIL DESIGN & CONSTRUCTION INC.

DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT DOTD

ELYSIAN FIELDS AVENUE

SUGGESTED SEQUENCE OF CONSTRUCTION

STATE OF LOUISIANA

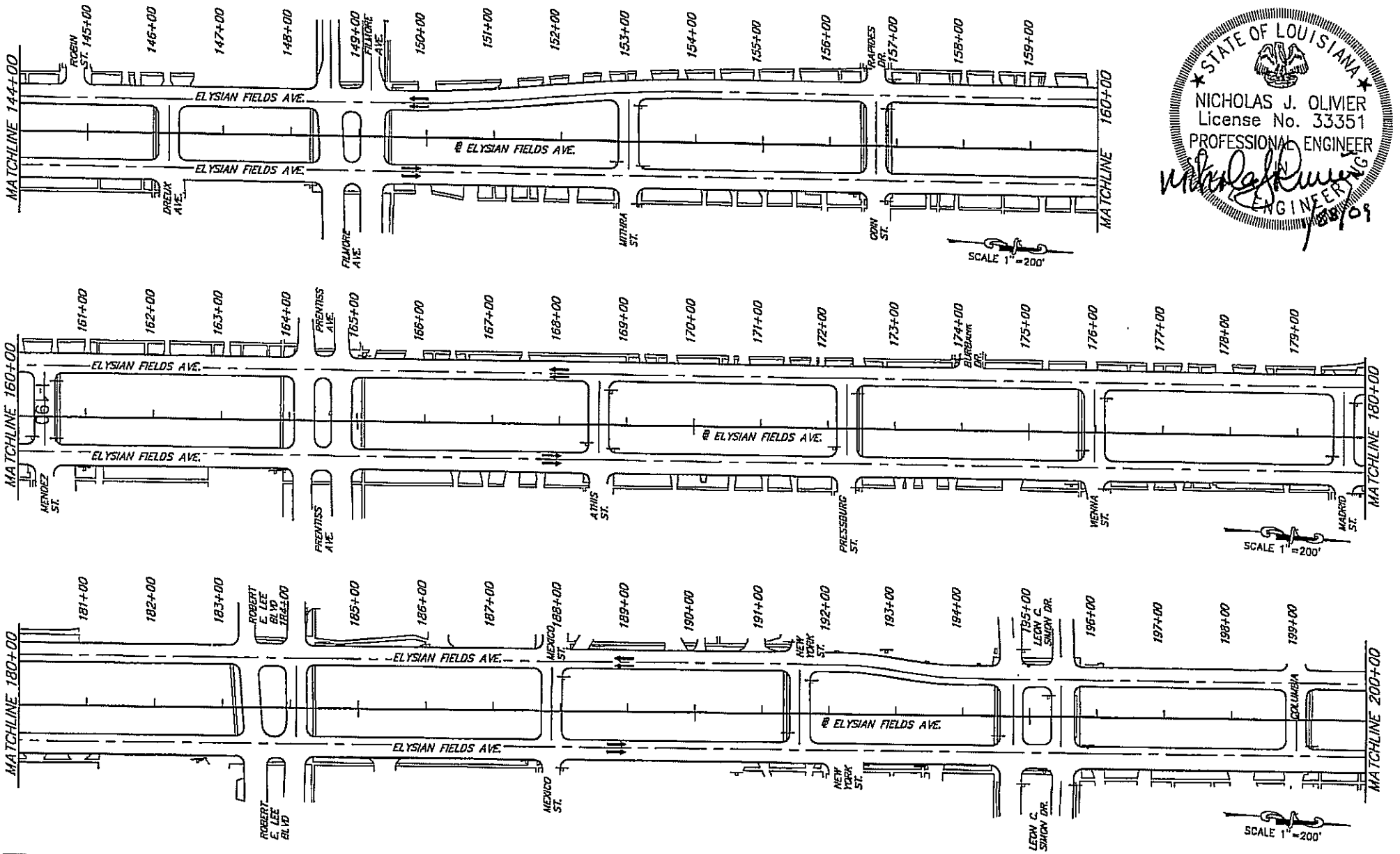
NO.	DATE	REVISION DESCRIPTION	BY

DESIGNED	NJO	PARISH	ORLEANS
CHECKED	KEW		
DETAILED	CMR	FEDERAL PROJECT	ER-ERP1(054)
CHECKED	NJO		
DATE	DEC. 2008	STATE PROJECT	704-36-0038
SHEET	1 OF 3		

SHEET NUMBER 18

FINAL PLANS

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STATE OF LOUISIANA
NICHOLAS J. OLIVIER
License No. 33351
PROFESSIONAL ENGINEER
IN CIVIL ENGINEERING
1/28/09

CIVIL DESIGN & CONSTRUCTION

DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT — DOTD

ELYSIAN FIELDS AVENUE

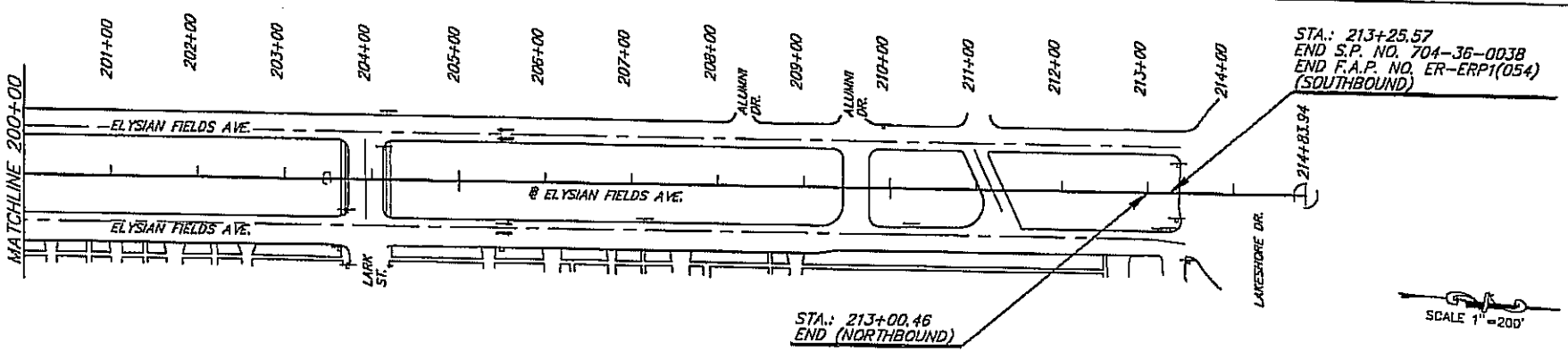
SUGGESTED SEQUENCE OF CONSTRUCTION

NO.	DATE	REVISION DESCRIPTION	BY

DESIGNED	NJO	PARISH	ORLEANS
CHECKED	KEW		
DETAILED	CMR	FEDERAL PROJECT	ER-ERP1(054)
CHECKED	NJO		
DATE	DEC. 2008	STATE PROJECT	704-36-0038
SHEET	2 OF 3		

SHEET NUMBER 28

Q:\PROJECTS\08-4626 New Orleans Roads Grp 6\Drawings\Revised Final Plans 012709\Elysian Fields Ave\08-4626 Elysian Fields Replacement Sequence.dwg $TIME$



STATE OF LOUISIANA
NICHOLAS J. OLIVIER
License No. 33351
PROFESSIONAL ENGINEER
12/8/09

CIVIL DESIGN & CONSTRUCTION

DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT

DOTD

ELYSIAN FIELDS AVENUE

SUGGESTED SEQUENCE OF CONSTRUCTION

STATE OF LOUISIANA

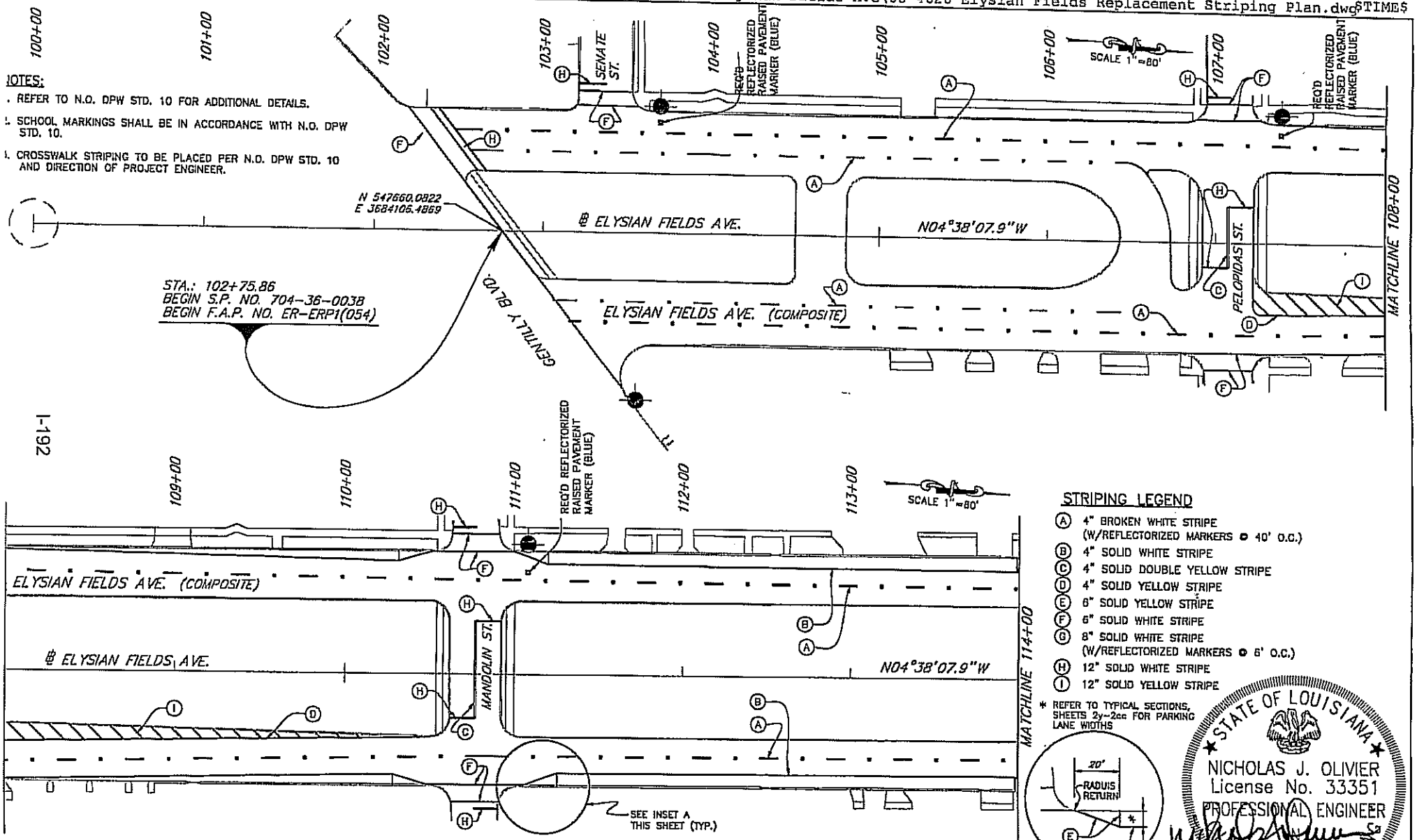
NO.	DATE	REVISION DESCRIPTION	BY

DESIGNED / CHECKED	NJO / KEW	PARISH	ORLEANS
DETAILED / CHECKED	CMR / NJO	FEDERAL PROJECT	ER-ERP1(054)
DATE / SHEET	DEC. 2008 / 3 OF 3	STATE PROJECT	704-36-0038

SHEET NUMBER 83

FINAL PLANS

\PROJECTS\08-4626 New Orleans Roads Grp 6\Drawings\Revised Final Plans 040809\Elysian Fields Ave\08-4626 Elysian Fields Replacement Striping Plan.dwg $TIME$



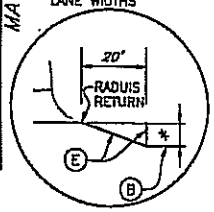
NOTES:

1. REFER TO N.O. DPW STD. 10 FOR ADDITIONAL DETAILS.
2. SCHOOL MARKINGS SHALL BE IN ACCORDANCE WITH N.O. DPW STD. 10.
3. CROSSWALK STRIPING TO BE PLACED PER N.O. DPW STD. 10 AND DIRECTION OF PROJECT ENGINEER.

STRIPING LEGEND

- (A) 4" BROKEN WHITE STRIPE (W/REFLECTORIZED MARKERS @ 40' O.C.)
- (B) 4" SOLID WHITE STRIPE
- (C) 4" SOLID DOUBLE YELLOW STRIPE
- (D) 4" SOLID YELLOW STRIPE
- (E) 6" SOLID YELLOW STRIPE
- (F) 6" SOLID WHITE STRIPE
- (G) 8" SOLID WHITE STRIPE (W/REFLECTORIZED MARKERS @ 6' O.C.)
- (H) 12" SOLID WHITE STRIPE
- (I) 12" SOLID YELLOW STRIPE

* REFER TO TYPICAL SECTIONS, SHEETS 2y-2cc FOR PARKING LANE WIDTHS



INSET A
N.T.S.

STATE OF LOUISIANA
NICHOLAS J. OLIVIER
License No. 33351
PROFESSIONAL ENGINEER
CIVIL ENGINEERING
4/17/09

CIVIL DESIGN & CONSTRUCTION

DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT DOTD

ELYSIAN FIELDS AVENUE

STRIPING PLAN

STATE OF LOUISIANA

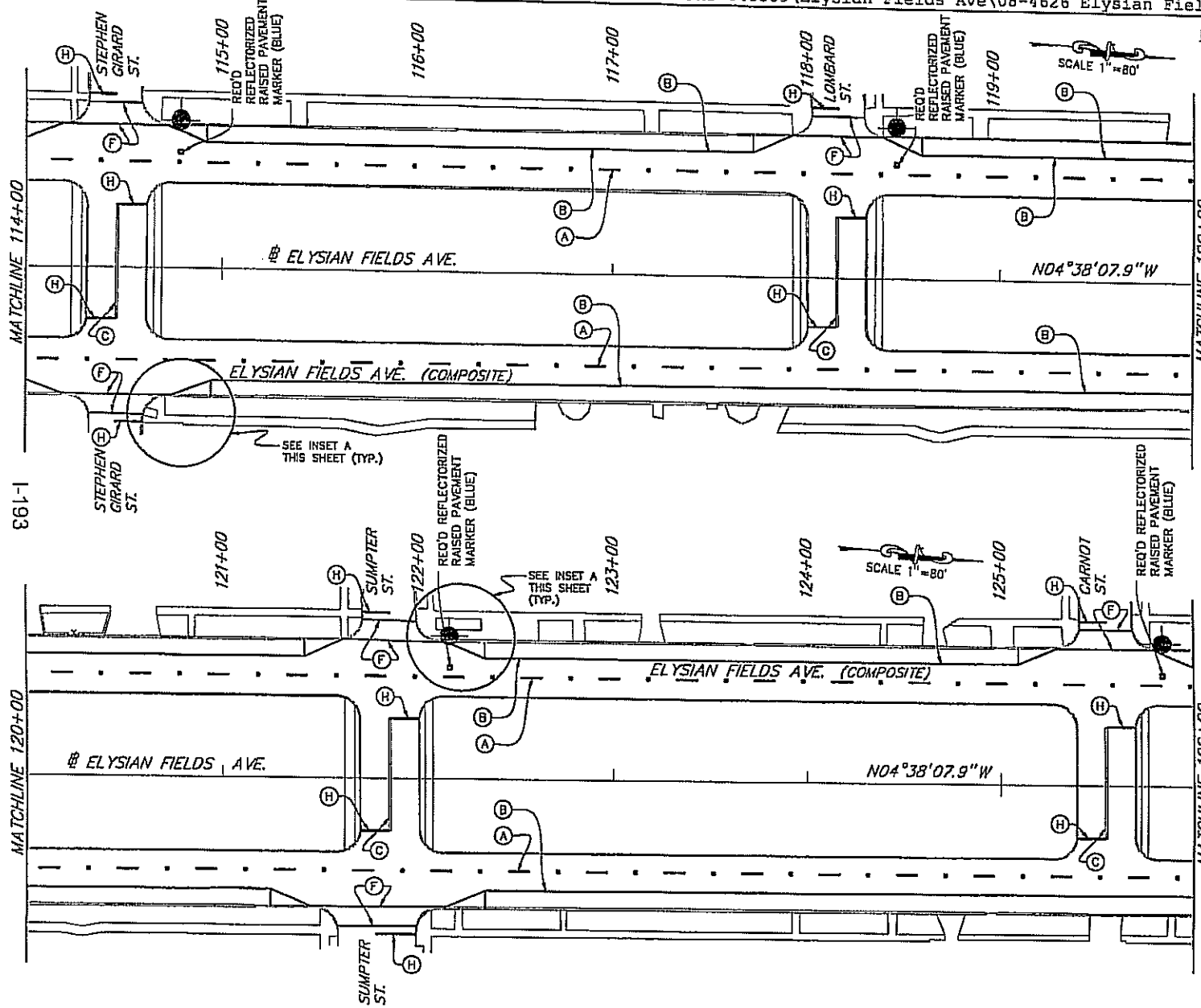
NO.	DATE	REVISION DESCRIPTION	BY

DESIGNED	NJO	PARISH	ORLEANS
CHECKED	KEW		
DETAILED	CMR	FEDERAL PROJECT	ER-ERP1(054)
CHECKED	NJO		
DATE	FEB. 2009	STATE PROJECT	704-36-0038
SHEET	1 OF 9		

SHEET NUMBER 84

FINAL PLANS

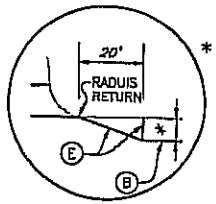
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I-193

NOTES:

1. REFER TO N.O. DPW STD. 10 FOR ADDITIONAL DETAILS.
2. SCHOOL MARKINGS SHALL BE IN ACCORDANCE WITH N.O. DPW STD. 10.
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* REFER TO TYPICAL SECTIONS, SHEETS 2y-2cc FOR PARKING LANE WIDTHS

INSET A
N.T.S.

STRIPING LEGEND

- (A) 4" BROKEN WHITE STRIPE (W/REFLECTORIZED MARKERS @ 40' O.C.)
- (B) 4" SOLID WHITE STRIPE
- (C) 4" SOLID DOUBLE YELLOW STRIPE
- (D) 4" SOLID YELLOW STRIPE
- (E) 6" SOLID YELLOW STRIPE
- (F) 6" SOLID WHITE STRIPE
- (G) 8" SOLID WHITE STRIPE (W/REFLECTORIZED MARKERS @ 6' O.C.)
- (H) 12" SOLID WHITE STRIPE
- (I) 12" SOLID YELLOW STRIPE

STATE OF LOUISIANA
NICHOLAS J. OLIVIER
License No. 33351
PROFESSIONAL ENGINEER
CIVIL ENGINEERING

4/17/09

CIVIL DESIGN & CONSTRUCTION

DOTD DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT

ELYSIAN FIELDS AVENUE

STRIPING PLAN

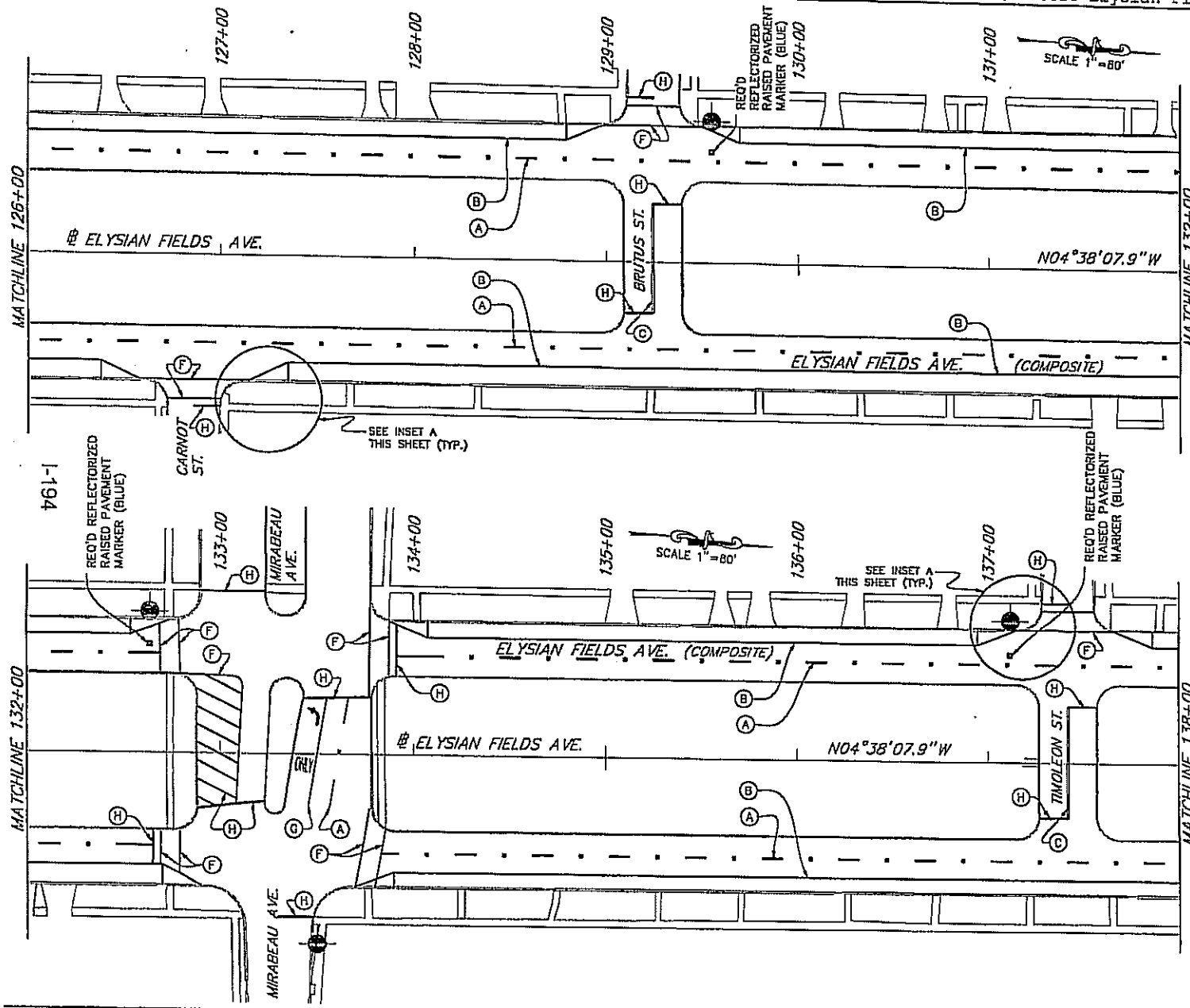
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DESIGNED	NJO	PARISH	ORLEANS
CHECKED	KEW		
DETAILED	CMR	FEDERAL PROJECT	ER-ERP1(054)
CHECKED	NJO		
DATE	FEB. 2009	STATE PROJECT	704-36-0038
SHEET	2 OF 9		

SHEET NUMBER 85

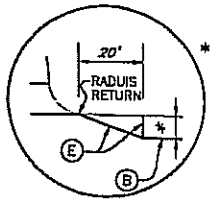
FINAL PLANS

\PROJECTS\08-4626 New Orleans Roads Grp 6\Drawings\Revised Final Plans 040809\Elysian Fields Ave\08-4626 Elysian Fields Replacement Striping Plan.dwg $TIME$



NOTES:

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* REFER TO TYPICAL SECTIONS, SHEETS 2y-2cc FOR PARKING LANE WIDTHS

INSET A
N.T.S.

STRIPING LEGEND

- (A) 4" BROKEN WHITE STRIPE (W/REFLECTORIZED MARKERS @ 40' O.C.)
- (B) 4" SOLID WHITE STRIPE
- (C) 4" SOLID DOUBLE YELLOW STRIPE
- (D) 4" SOLID YELLOW STRIPE
- (E) 6" SOLID YELLOW STRIPE
- (F) 6" SOLID WHITE STRIPE
- (G) 8" SOLID WHITE STRIPE (W/REFLECTORIZED MARKERS @ 6' O.C.)
- (H) 12" SOLID WHITE STRIPE
- (I) 12" SOLID YELLOW STRIPE

STATE OF LOUISIANA
NICHOLAS J. OLIVIER
License No. 33351
PROFESSIONAL ENGINEER
ENGINEERING
4/17/09

CIVIL DESIGN & CONSTRUCTION

DOTD

ELYSIAN FIELDS AVENUE

STRIPING PLAN

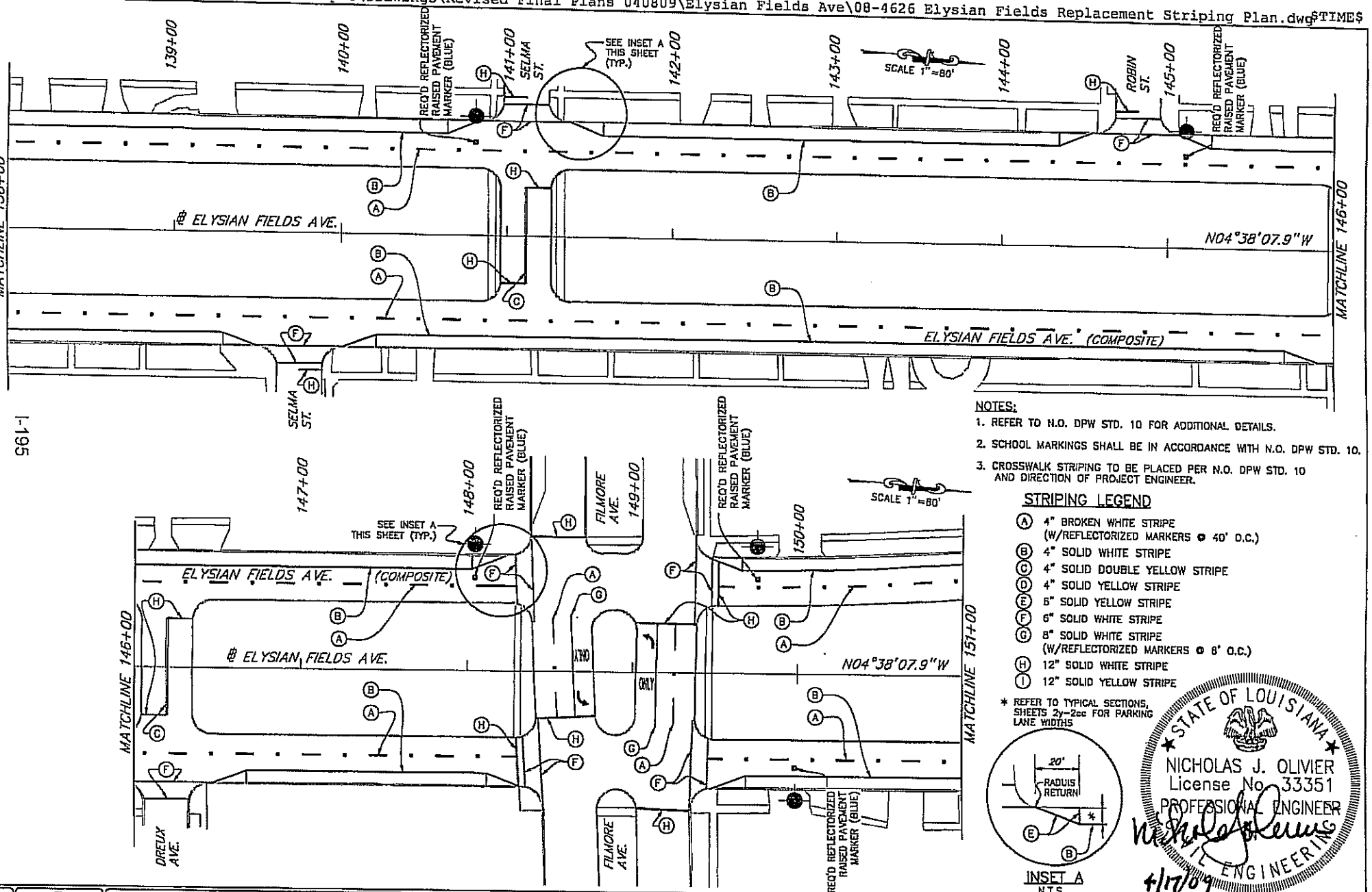
NO.	DATE	REVISION DESCRIPTION

DESIGNED	NJO	PARISH	ORLEANS
CHECKED	KEW		
DETAILED	CMR	FEDERAL PROJECT	ER-ERP1(054)
CHECKED	NJO		
DATE	FEB. 2009	STATE PROJECT	704-36-0038

SHEET NUMBER 88

FINAL PLANS

\PROJECTS\08-4626 New Orleans Roads Grp 6\Drawings\Revised Final Plans 040809\Elysian Fields Ave\08-4626 Elysian Fields Replacement Striping Plan.dwg $TIME$



NOTES:

1. REFER TO N.O. DPW STD. 10 FOR ADDITIONAL DETAILS.
2. SCHOOL MARKINGS SHALL BE IN ACCORDANCE WITH N.O. DPW STD. 10.
3. CROSSWALK STRIPING TO BE PLACED PER N.O. DPW STD. 10 AND DIRECTION OF PROJECT ENGINEER.

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- (A) 4" BROKEN WHITE STRIPE (W/REFLECTORIZED MARKERS @ 40' O.C.)
- (B) 4" SOLID WHITE STRIPE
- (C) 4" SOLID DOUBLE YELLOW STRIPE
- (D) 4" SOLID YELLOW STRIPE
- (E) 6" SOLID YELLOW STRIPE
- (F) 6" SOLID WHITE STRIPE
- (G) 8" SOLID WHITE STRIPE (W/REFLECTORIZED MARKERS @ 8' O.C.)
- (H) 12" SOLID WHITE STRIPE
- (I) 12" SOLID YELLOW STRIPE

* REFER TO TYPICAL SECTIONS, SHEETS 2y-2cc FOR PARKING LANE WIDTHS

INSET A
N.T.S.

STATE OF LOUISIANA
NICHOLAS J. OLIVIER
License No. 33351
PROFESSIONAL ENGINEER
CIVIL ENGINEERING
4/17/09

CIVIL DESIGN & CONSTRUCTION

DOTD

ELYSIAN FIELDS AVENUE

STRIPING PLAN

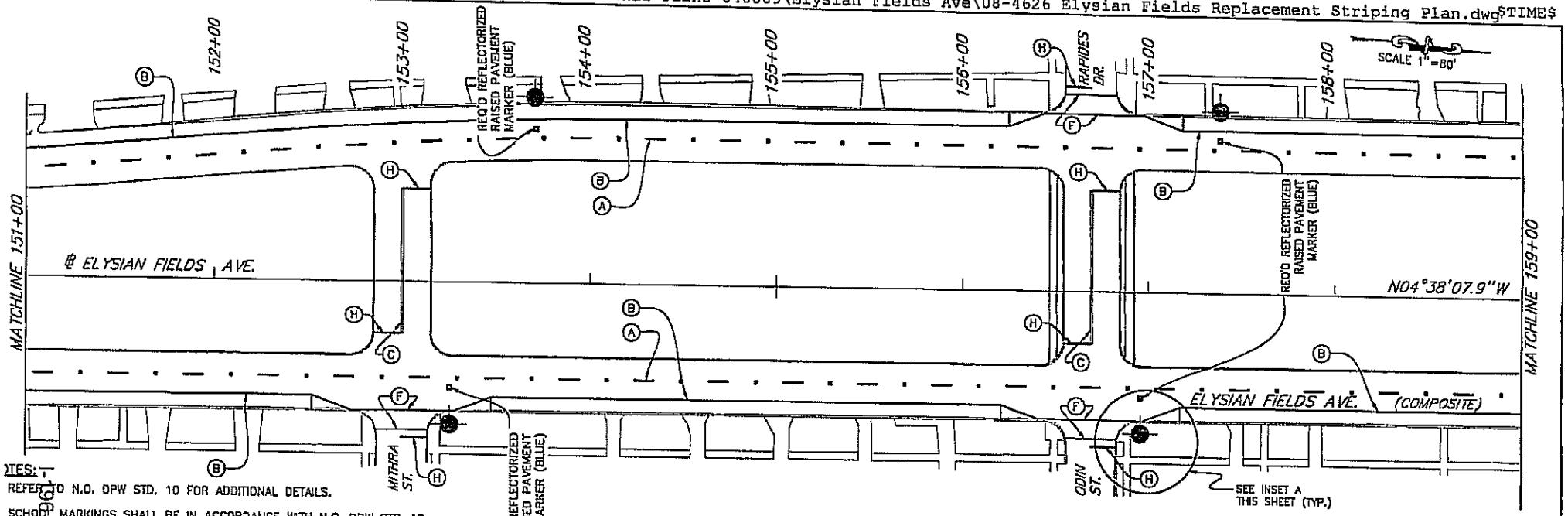
NO.	DATE	REVISION DESCRIPTION

DESIGNED / CHECKED	NJO / KEW	PARISH	ORLEANS
DETAILED / CHECKED	CMR / NJO	FEDERAL PROJECT	ER-ERP1(054)
DATE / SHEET	FEB. 2009 / 4 OF 9	STATE PROJECT	704-36-0038

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FINAL PLANS

\PROJECTS\08-4626 New Orleans Roads Grp 6\Drawings\Revised Final Plans 040809\Elysian Fields Ave\08-4626 Elysian Fields Replacement Striping Plan.dwg $TIME$

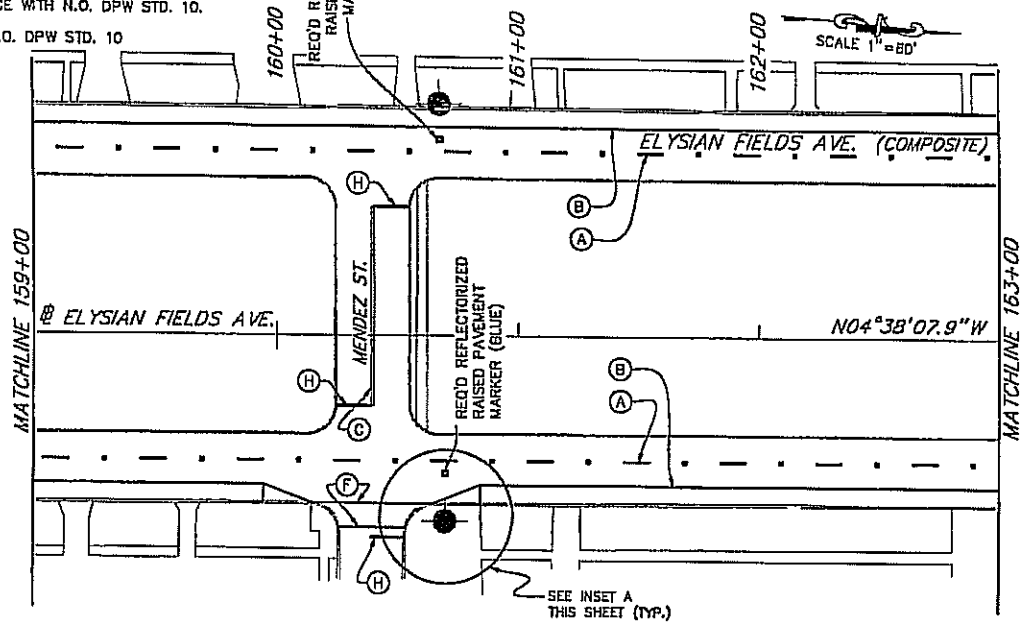


NOTES:

REFER TO N.O. DPW STD. 10 FOR ADDITIONAL DETAILS.

SCHOOL MARKINGS SHALL BE IN ACCORDANCE WITH N.O. DPW STD. 10.

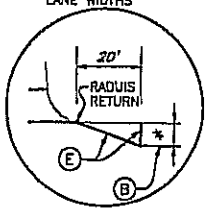
CROSSWALK STRIPING TO BE PLACED PER N.O. DPW STD. 10 AND DIRECTION OF PROJECT ENGINEER.



STRIPING LEGEND

- (A) 4" BROKEN WHITE STRIPE (W/REFLECTORIZED MARKERS @ 40' O.C.)
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- (C) 4" SOLID DOUBLE YELLOW STRIPE
- (D) 4" SOLID YELLOW STRIPE
- (E) 6" SOLID YELLOW STRIPE
- (F) 6" SOLID WHITE STRIPE
- (G) 8" SOLID WHITE STRIPE (W/REFLECTORIZED MARKERS @ 6' O.C.)
- (H) 12" SOLID WHITE STRIPE
- (I) 12" SOLID YELLOW STRIPE

* REFER TO TYPICAL SECTIONS, SHEETS 2y-2cc FOR PARKING LANE WIDTHS



INSET A
N.T.S.

STATE OF LOUISIANA
NICHOLAS J. OLIVIER
License No. 33351
PROFESSIONAL ENGINEER
CIVIL ENGINEERING
4/17/09

CIVIL DESIGN & CONSTRUCTION

TRANSPORTATION AND DEVELOPMENT DOTD

ELYSIAN FIELDS AVENUE

STRIPING PLAN

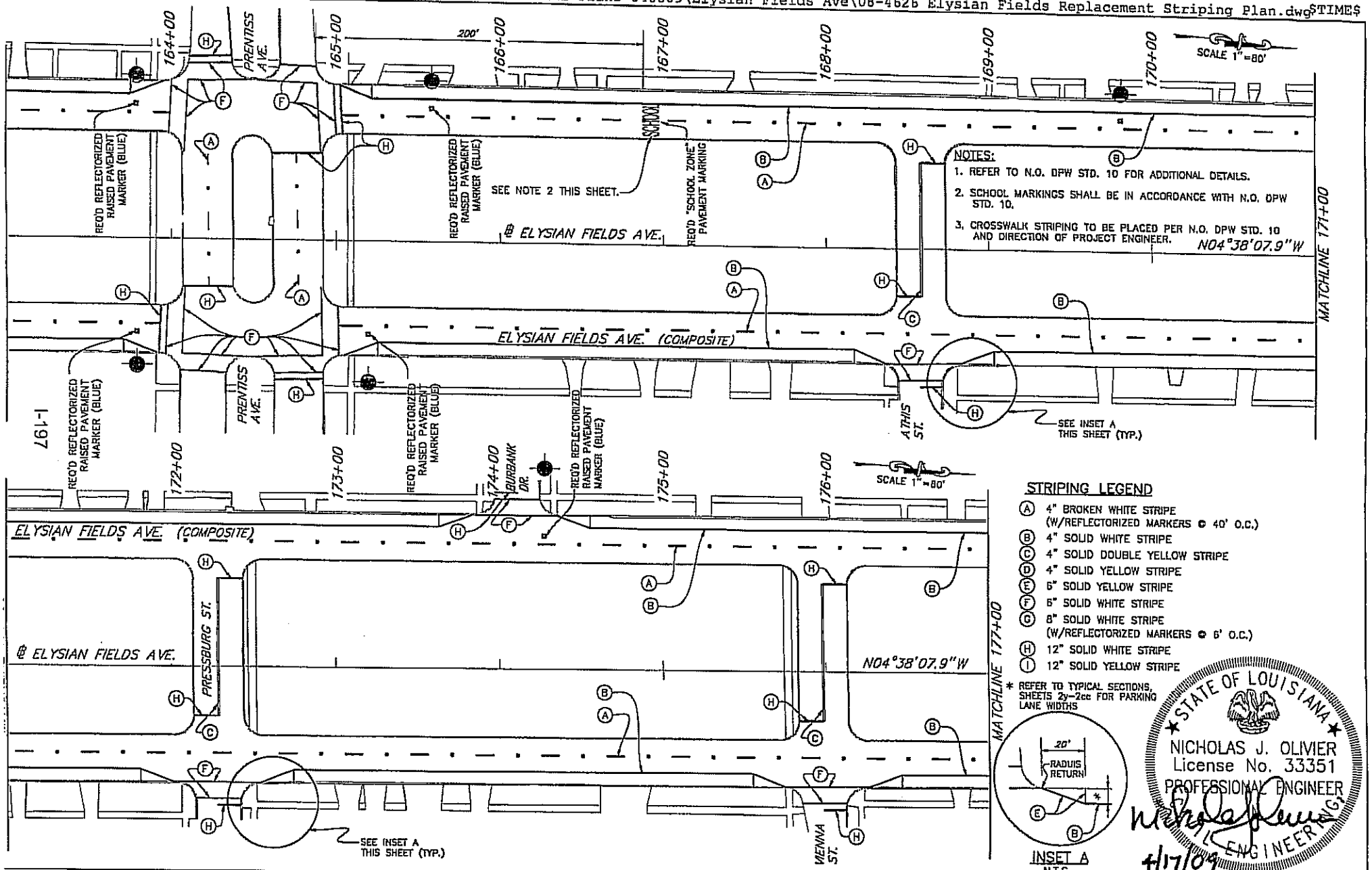
NO.	DATE	REVISION DESCRIPTION	BY

DESIGNED	NJO	PARISH	ORLEANS
CHECKED	KEW		
DETAILED	CMR	FEDERAL PROJECT	ER-ERP1(054)
CHECKED	NJO		
DATE SHEET	FEB. 2009 5 OF 9	STATE PROJECT	704-36-0038

SHEET NUMBER 88

FINAL PLANS

\PROJECTS\08-4626 New Orleans Roads Grp 6\Drawings\Revised Final Plans 040809\Elysian Fields Ave\08-4626 Elysian Fields Replacement Striping Plan.dwg $TIME$



STRIPING LEGEND

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* REFER TO TYPICAL SECTIONS, SHEETS 2y–2cc FOR PARKING LANE WIDTHS

INSET A
N.T.S.

STATE OF LOUISIANA
NICHOLAS J. OLIVIER
License No. 33351
PROFESSIONAL ENGINEER
4/17/09

CIVIL DESIGN & CONSTRUCTION

DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT — DOTD

ELYSIAN FIELDS AVENUE

STRIPING PLAN

STATE OF LOUISIANA — REGISTERED PROFESSIONAL ENGINEER

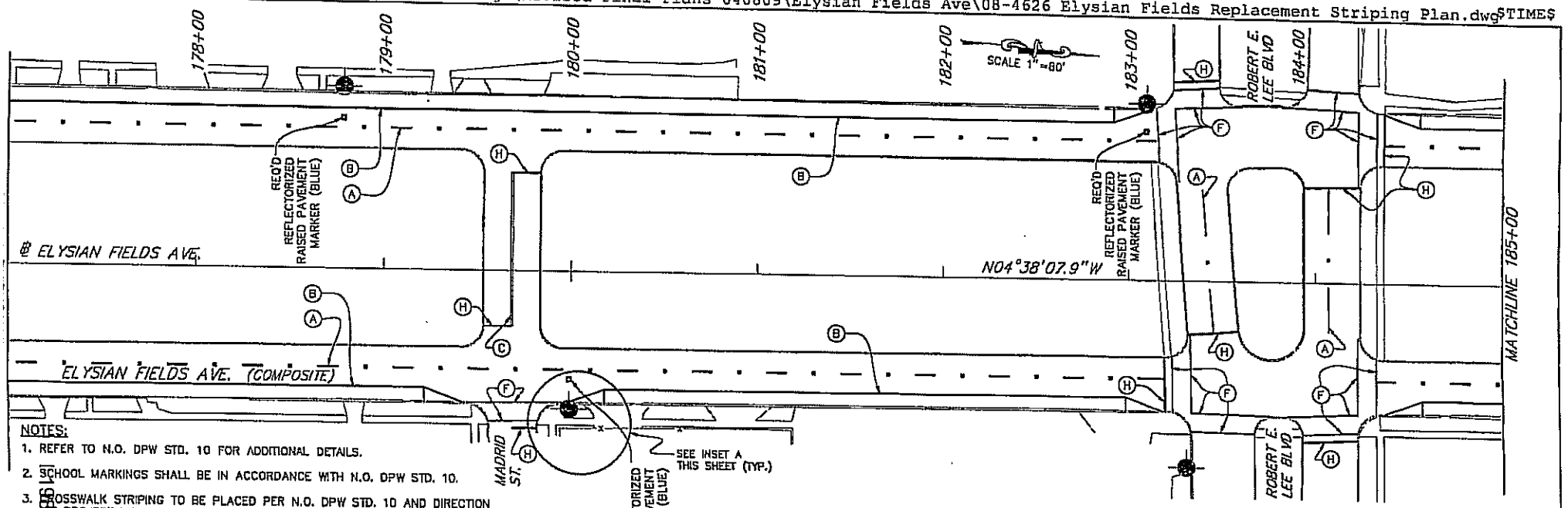
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DETAILED / CHECKED	CMR / NJO	FEDERAL PROJECT	ER-ERP1(054)
DATE / SHEET	FEB. 2009 / 6 OF 9	STATE PROJECT	704-36-0038

SHEET NUMBER 89

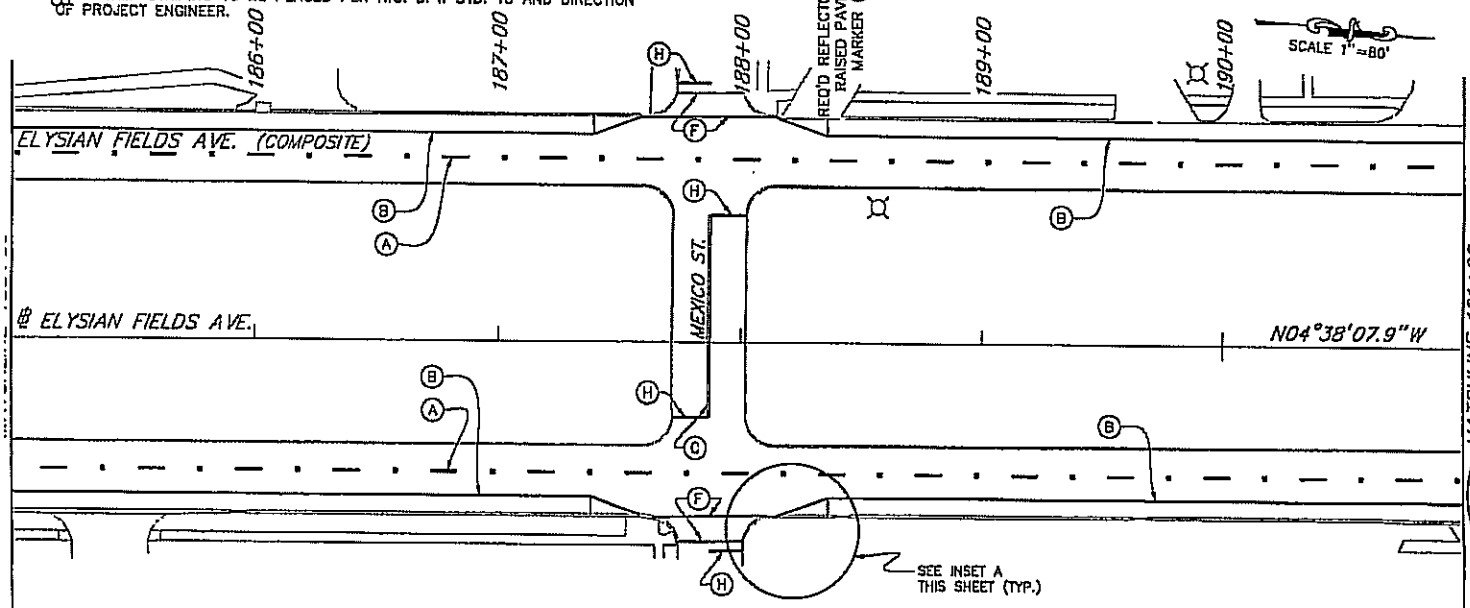
FINAL PLANS

\PROJECTS\08-4626 New Orleans Roads Grp 6\Drawings\Revised Final Plans 040809\Elysian Fields Ave\08-4626 Elysian Fields Replacement Striping Plan.dwg $TIME$



NOTES:

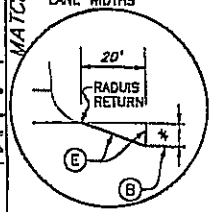
1. REFER TO N.O. DPW STD. 10 FOR ADDITIONAL DETAILS.
2. SCHOOL MARKINGS SHALL BE IN ACCORDANCE WITH N.O. DPW STD. 10.
3. CROSSWALK STRIPING TO BE PLACED PER N.O. DPW STD. 10 AND DIRECTION OF PROJECT ENGINEER.



STRIPING LEGEND

- (A) 4" BROKEN WHITE STRIPE (W/REFLECTORIZED MARKERS @ 40' O.C.)
- (B) 4" SOLID WHITE STRIPE
- (C) 4" SOLID DOUBLE YELLOW STRIPE
- (D) 4" SOLID YELLOW STRIPE
- (E) 6" SOLID YELLOW STRIPE
- (F) 6" SOLID WHITE STRIPE
- (G) 8" SOLID WHITE STRIPE (W/REFLECTORIZED MARKERS @ 5' O.C.)
- (H) 12" SOLID WHITE STRIPE
- (I) 12" SOLID YELLOW STRIPE

* REFER TO TYPICAL SECTIONS, SHEETS 2y-2cc FOR PARKING LANE WIDTHS



INSET A
N.T.S.

STATE OF LOUISIANA
NICHOLAS J. OLIVIER
License No. 33351
PROFESSIONAL ENGINEER
ENGINEERING
4/17/09

CIVIL DESIGN & CONSTRUCTION

DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT — DOTD

ELYSIAN FIELDS AVENUE

STRIPING PLAN

STATE OF LOUISIANA — DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT — CONFIDENTIAL — 2008

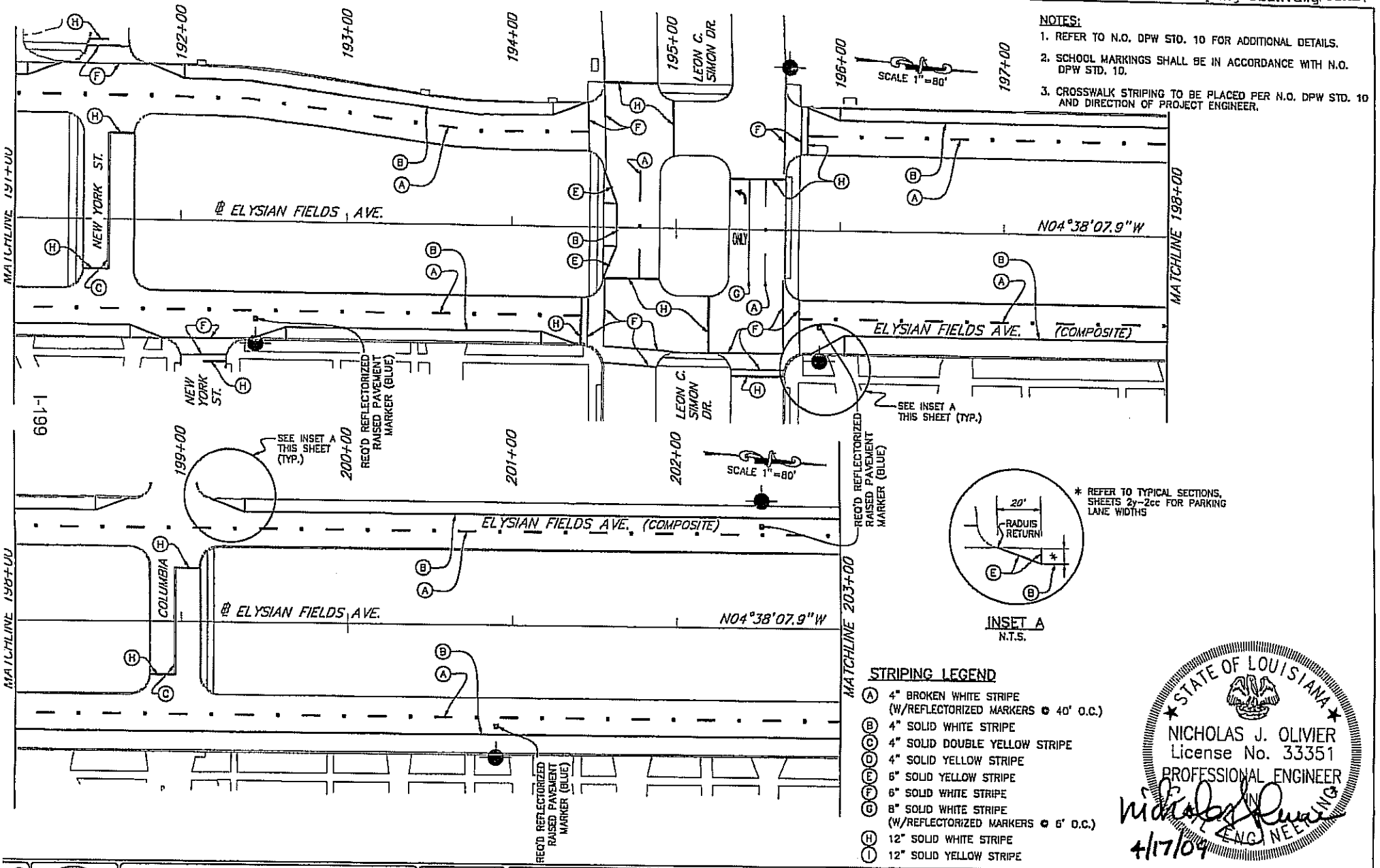
NO	DATE	PROJECT REFERENCE

DESIGNED / CHECKED	NJD / KEW	PARISH	ORLEANS
DETAILED / CHECKED	CMR / NJD	FEDERAL PROJECT	ER-ERP1(054)
DATE / SHEET	FEB. 2009 / 7 OF 9	STATE PROJECT	704-36-0038

SHEET NUMBER 90

FINAL PLANS

\PROJECTS\08-4626 New Orleans Roads Grp 6\Drawings\Revised Final Plans 040809\Elysian Fields Ave\08-4626 Elysian Fields Replacement Striping Plan.dwg$TIME$



NOTES:

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2. SCHOOL MARKINGS SHALL BE IN ACCORDANCE WITH N.O. DPW STD. 10.
3. CROSSWALK STRIPING TO BE PLACED PER N.O. DPW STD. 10 AND DIRECTION OF PROJECT ENGINEER.

* REFER TO TYPICAL SECTIONS, SHEETS 2y-2cc FOR PARKING LANE WIDTHS

INSET A
N.T.S.

STRIPING LEGEND

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- (E) 6" SOLID YELLOW STRIPE
- (F) 6" SOLID WHITE STRIPE
- (G) 8" SOLID WHITE STRIPE (W/REFLECTORIZED MARKERS @ 6' O.C.)
- (H) 12" SOLID WHITE STRIPE
- (I) 12" SOLID YELLOW STRIPE

STATE OF LOUISIANA
NICHOLAS J. OLIVIER
License No. 33351
PROFESSIONAL ENGINEER
IN
CIVIL ENGINEERING
4/17/09

CIVIL DESIGN & CONSTRUCTION

DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT DOTD

ELYSIAN FIELDS AVENUE

STRIPING PLAN

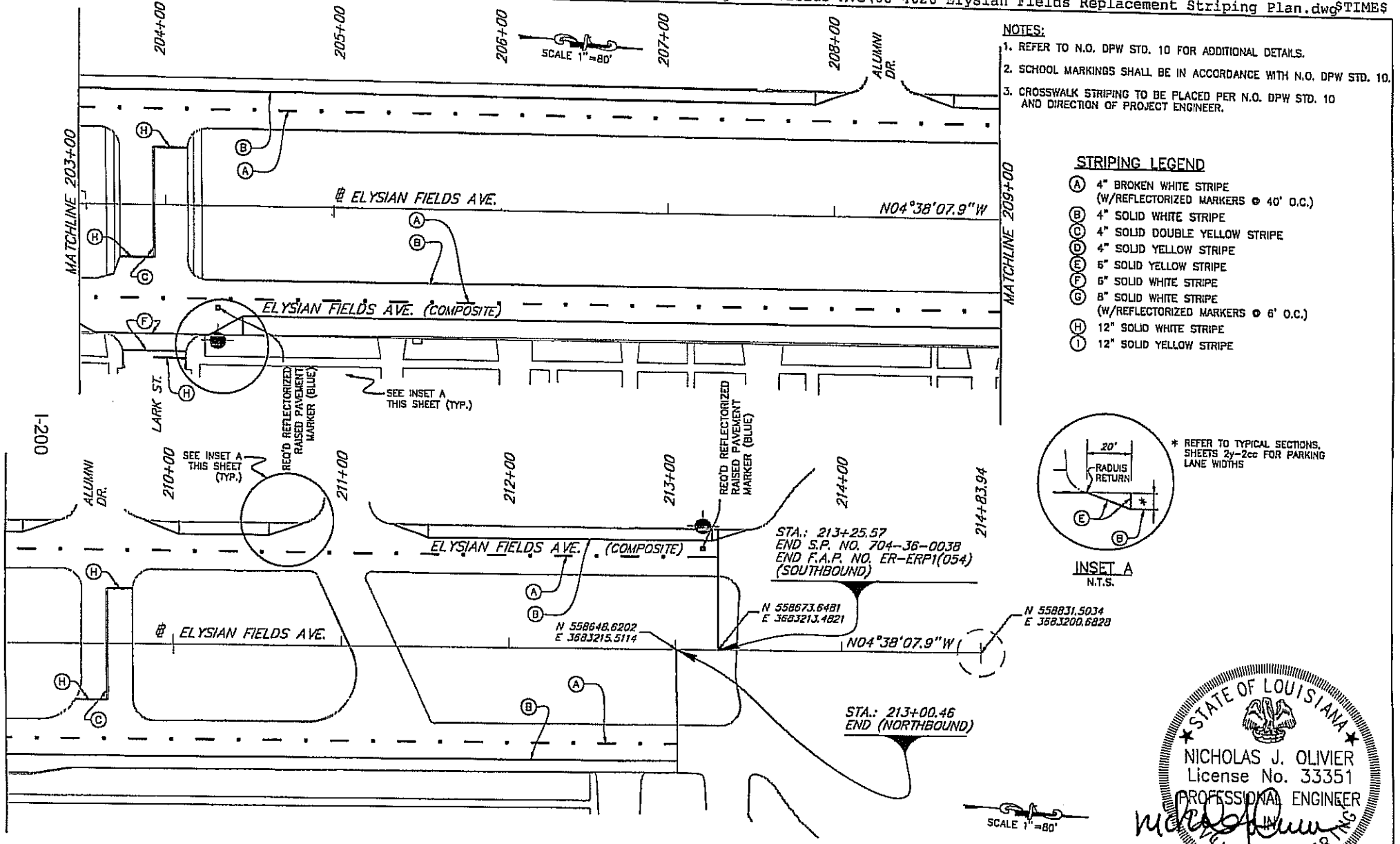
NO.	DATE	REVISION DESCRIPTION	BY

DESIGNED / CHECKED	NJO / KEW	PARISH	ORLEANS
DETAILED / CHECKED	CMR / NJO	FEDERAL PROJECT	ER-ERP1(054)
DATE / SHEET	FEB. 2009 / 8 OF 9	STATE PROJECT	704-36-0038

SHEET NUMBER 91

FINAL PLANS

\PROJECTS\08-4626 New Orleans Roads Grp 6\Drawings\Revised Final Plans 040809\Elysian Fields Ave\08-4626 Elysian Fields Replacement Striping Plan.dwg $TIME$



NOTES:

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STRIPING LEGEND

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- (E) 6" SOLID YELLOW STRIPE
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- (G) 8" SOLID WHITE STRIPE (W/REFLECTORIZED MARKERS @ 6' O.C.)
- (H) 12" SOLID WHITE STRIPE
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INSET A
N.T.S.

* REFER TO TYPICAL SECTIONS, SHEETS 2y-2cc FOR PARKING LANE WIDTHS

STATE OF LOUISIANA
NICHOLAS J. OLIVIER
License No. 33351
PROFESSIONAL ENGINEER
IN CIVIL ENGINEERING
4/17/09

CIVIL DESIGN & CONSTRUCTION	DOTD	ELYSIAN FIELDS AVENUE		DESIGNED NJO	PARISH ORLEANS	SHEET NUMBER 62
		STRIPING PLAN		CHECKED KEW		
				DETAILED CMR	FEDERAL PROJECT ER-ERP1(054)	
				CHECKED NJO		
		NO. DATE REVISION DESCRIPTION BY		DATE FEB. 2009	STATE PROJECT 704-36-0038	
				SHEET 9 OF 9		

GENERAL PROVISIONS

- All Temporary Traffic Control Devices used shall be in accordance with the LaDOTD Standard Specifications for Roads and Bridges, the Manual on Uniform Traffic Control Devices (MUTCD), and shall meet the National Cooperative Highway Research Program (NCHRP) 350 for Test Level 3 requirements.
- Materials used for Temporary Traffic Controls shall be in accordance with the LaDOTD Standard Specifications for Roads and Bridges and when applicable the LaDOTD Qualified Products List (QPL).
- No temporary traffic controls shall be erected without the approval of the Project Engineer and until work is about to begin, unless they are covered.
- No lane closures, lane shifts, diversions, or detours shall occur without the authorization of the Project Engineer.
- Responsibility is hereby placed upon the contractor for the installation, maintenance, and operation of all temporary traffic control devices called for in these plans or required by the Project Engineer for the protection of the traveling public as well as all Department and construction personnel.
- The contractor shall also be responsible for the maintenance of all permanent signs and pavement markings left in place as essential to the safe movement and guidance of traffic within the project limits.
- The District Traffic Operations Engineer (DTOE) shall serve as a technical advisor to the Project Engineer for all Traffic Control matters.
- "Road Work Next XX Miles" sign shall be required on all projects equal to or greater than 2 miles and located at the begining of the project unless otherwise noted. The distance on the sign shall be stated to the nearest whole mile. The sign shall be a minimum 36"x60" unless otherwise noted.
- Warning signs used for lane closures or lane shifts in which the roadway shall be returned to full public use within 12 hours or less may be placed on NCHRP350 approved portable sign frames.
- If the spacing on the plans need to be altered, the new spacings need to be approved by the Project Engineer.

SPEED LIMITS

- Speed limits shall be lowered by 10 mph for any construction, maintenance, or utility operation that requires one or more of the following:
  (A) the condition of the original highway is degraded due to milled surfaces or uneven pavements;
  (B) work is in progress in the immediate vicinity of the travel way requiring lane closures, lane width reductions, or low speed diversions; (C) workers present on the shoulder within 2' of the edge of traveled way without barrier protection.
- The reduced speed zone shall only apply to those portions of the project limits affected. The Project Engineer may allow SPEED LIMIT WHEN FLASHING signs to supplement reduced speed zones.
- At the end of the reduced speed zone, a speed limit sign displaying the original speed limit before construction shall be installed.
- If conditions warrant, the District Traffic Operations Engineer may authorize the reduction of the speed limit by more than 10 mph.

PAVEMENT MARKINGS (see QPL)

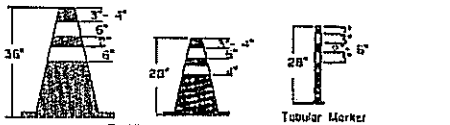
- All pavement markings within the limits of the project that are in conflict with the project signing or the required traffic movements shall be removed from the pavement by blast cleaning or grinding. Existing striping shall not be painted over with black paint or covered with tape.
- If special pavement markings are needed, they shall be reflectorized, removable, and accompanied by the proper signage.
- Temporary Raised Pavement Markers (RPMs) may be added to supplement temporary striping in areas of transition, in tapers, in detours, and in other areas at need as directed by the Project Engineer.
- Materials and placement of temporary pavement markings shall conform to section 713 of the Standard Specifications. If no pay item exists, temporary markings will be considered incidental to traffic control.

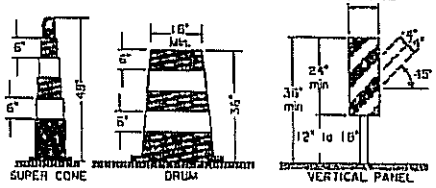
SIGNS

- All signs used for temporary traffic controls shall follow the Department's Traffic Control (TC) details and the MUTCD. Signs shown in the TC illustrations are typical and may vary with each specific condition.
- More appropriate signing for a specific condition may be required or substituted with the approval of the Project Engineer and reviewed by the District Traffic Operations Engineer.
- When projects are separated by less than one mile, they shall be signed as one project.
- At no time shall signs warning against a particular operation be left in place once the operation has been completed or where the obstacle has been removed.
- Signs over 10 sq ft shall be mounted on two post and signs over 20 sq ft shall be mounted on at least three post.
- Signs shall have a minimum of two bolts per post.
- Permanent signs no longer applicable or in conflict shall be removed or covered with a strong, lightweight, opaque material.
- Warning signs used for temporary traffic controls shall meet the following guidelines unless otherwise noted in the plans: (A) size shall be 48" x 48", (B) see the Departments Standard Specifications and the QPL for sheeting information, (C) a minimum of a 2 lb U-Channel post shall be used driven to a minimum depth of 3', (D) sign height shall be a minimum of 5' above the roadway surface unless there is a concern for pedestrians or bicycle traffic in which it shall be a minimum of 7', (E) lateral distance of signs shall be a minimum of 6' from the edge of shoulder or edge of pavement if no shoulder exist and 2' from the back of curb in urban areas.
- Vinyl Roll Up signs will be allowed for short term (less than 12 hours) daytime work provided that they meet all size, color, retroreflectivity requirements, and NCHRP 350.
- Mesh rollup signs shall not be allowed on any project.
- All signs shall be removed or covered when no longer applicable.
- Contractor shall use caution not to damage existing signs which remain in place. Any DOTD signs damaged by work operations shall be replaced.

CHANNELIZING DEVICES

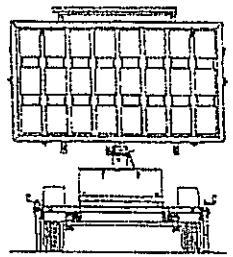
- The following devices may be used:
  Tubular Markers, Vertical Panels, Cones, Drums, and Super Cones. Drums (at standard spacing) and Super Cones (at ½ standard spacing) are the only devices allowed to be used in taper areas on the interstate system during daylight hours. Only drums can be used in tapers during night operations.
- The spacing of channelizing devices in a taper should not exceed a distance in feet equal to 1.0 times the posted speed limit in mph (with a maximum of 50 feet).
- The spacing of channelizing devices in a tangent should not exceed a distance in feet equal to 2.0 times the posted speed limit in mph (with a maximum of 100 feet) unless otherwise noted.
- Retroreflective material pattern used on super cones shall match that used on drums.
- 28" traffic cones are not allowed on: 1) Interstates, 2) Highways with speeds greater than 40 mph. During night time operations: 1) 28" and 36" cones are not allowed, 2) drums are the only device allowed in the taper.





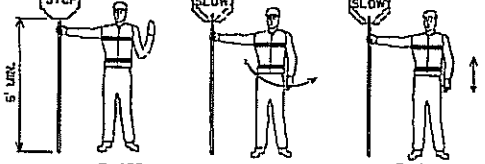
PORTABLE CHANGEABLE MESSAGE SIGNS

- When working within the traveled way, including shoulders and auxiliary lanes, Changeable Message Signs (CMS) shall be used on all Interstate Highways and on all other roadways (where space is available) with an ADT greater than 20,000 and should be delineated with retroreflective TTC devices. CMS will be paid for by each.
- When used in advance of a lane closure or a lane shift, the CMS should be placed on the right hand side of the road a minimum distance of 2 miles in advance of the taper for interstates and to be determined by the Engineer on other highways.
- If vehicles are queing beyond the 2 mile CMS, an additional CMS should be placed on the right hand side of the road approximately 5 miles in advance of the taper for interstates.
- CMS messages shall be approved by the District Traffic Operations Engineer (DTOE).
- When Portable Changeable Message signs are not being used, they should be removed; if not removed, they should be shielded by guardrail or barriers; or if the previous two options are not feasible, they should be delineated with retroreflective TTC devices.



FLAGGERS

- All flaggers must be qualified. The contractor shall be responsible for training or ensuring that all flaggers are qualified to perform flagging duties. A Qualified Flagger is one that has completed courses such as those offered by the American Traffic Safety Services Association (ATSSA), The Associated General Contractors of America (AGC) or other courses approved by the Louisiana DOTD's Work Zone Task Force. The contractor shall be responsible for getting the flagger course approved.
- When utilized, a flagger shall use a minimum 18 inch octagonal shape sign on a minimum 6' staff/slow paddle and wear ANSI Class 2 Lime Green vest during day time operations and ANSI Class 3 Lime Green ensemble during night operations. In all flagging operations, the flagger must be visible from the flagger advance warning sign.



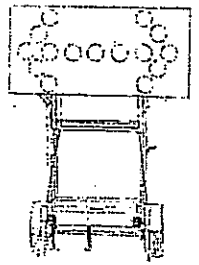
TYPE III BARRICADES

- All barricades shall use Type 3 High Intensity Sheeting on both sides of the barricade.
- All Type III Barricades shall be a minimum of 8 feet in length and must meet NCHRP 350 requirements.
- When signs and lights are to be mounted to a barricade, they must meet NCHRP 350 requirements.

MUTCD Website:
http://mutcd.fhwa.dot.gov/

FLASHING ARROW PANELS

- Flashing Arrow Panels shall be used for lane closures on all facilities with 2 or more lanes in a single direction and a speed limit greater than 35 mph.
- When used, flashing arrow panels should be located on the shoulder at the beginning of the taper.
- Where the shoulder width is limited, the flashing arrow panel should be placed within the closed lane as close to the beginning of the taper as practical.
- All Flashing Arrow Panels used on high speed roadways (45 mph and greater) shall be 4' x 8' Type C.
- When Flashing Arrow Panels signs are not being used, they should be removed; if not removed, they should be shielded by guardrail or barriers; or if the previous two options are not feasible, they should be delineated with retroreflective TTC devices.

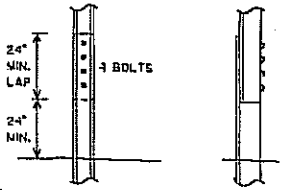


LIGHTING (see QPL)

- When used for overnight closures, lighting shall supplement all barricades that are placed in a closed lane or that extend across a highway. Two Type B High Intensity lights shall be used per lane closed in rural areas. In urban areas two Type A Low Intensity Lights may be used where adequate ambient lighting is available.
- One Type B High Intensity light shall be used to supplement the first sign for pair of signs that gives warning about a lane closure during night time operations.
- Type C steady burn lights shall be used on all channelizing devices in the taper as well as the first two devices in the tangent, for night use.

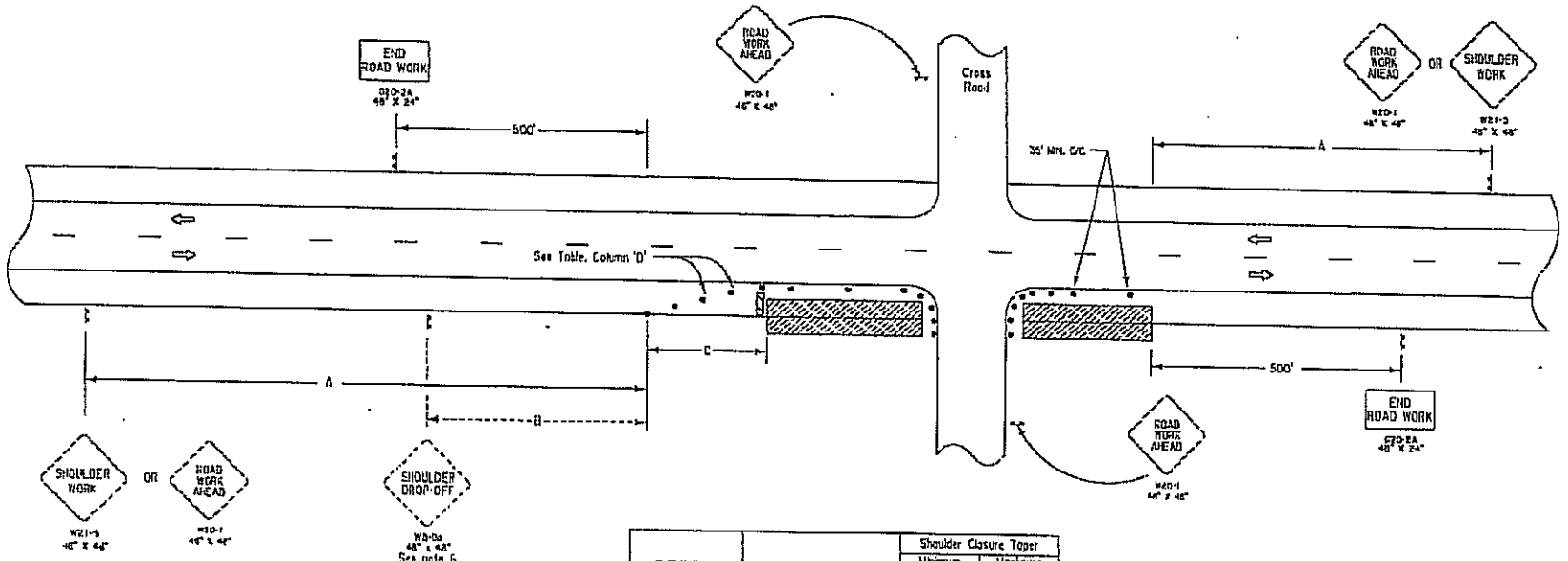
ALLOWABLE LAP SPLICE FOR U-CHANNEL POST

- U-Channel posts may be spliced where long lengths are required. The upper section shall overlap the lower section by at least 24 inches. The bottom edge of the upper section of the splice shall be a minimum of 24 inches above the ground. The spliced sections shall be secured with at least four ⅜ inch diameter hex bolts spaced equally along the splice.



STATE OF LOUISIANA
CARL E. COMVILLE
REG. NO. 29331
REGISTERED
PROFESSIONAL
ENGINEER
January 15, 2008

TEMPORARY TRAFFIC CONTROL
GENERAL NOTES SHEET
TC-00
TRAFFIC ENGINEERING



SPEED LIMIT	Spacing		Shoulder Closure Taper	
			Minimum Taper Length	Maximum Device Spacing
	'A'	'B'	'C'	'D'
35 mph	500'	250'	100'	25'
45 mph	1000'	350'	200'	45'
≥55 mph	1500'	500'	250'	50'

If horizontal curve radius is less than 300', devices spacing shall be 25'.

LEGEND

- Traffic Sign
- Channelizing Devices
- Work Area
- Type III Barricades

NOTES

THIS SHEET SHALL BE USED WITH THE "TEMPORARY TRAFFIC CONTROL GENERAL NOTES SHEET (TC-00)".

1. THIS LAYOUT REPRESENTS TRAFFIC CONTROLS REQUIRED FOR WORKERS AND EQUIPMENT OPERATING WITHIN THE CLEAR ZONE FOR MORE THAN 1 HOUR. LESS THAN 1 HOUR, SEE FIG. TA-4 OF THE MUTCD. PORTABLE SIGNS MAY BE USED FOR WORK LASTING LESS THAN 3 DAYS.

2. NO SIGNS OR BARRICADES ARE REQUIRED FOR EQUIPMENT OPERATING OR WORK IN PROGRESS OUTSIDE THE CLEAR ZONE.

3. SIGNS AND BARRICADES SHALL BE COVERED OR REMOVED DURING NONWORKING HOURS UNLESS A DROP-OFF OR PHYSICAL OBSTRUCTION REMAINS WITHIN THE CLEAR ZONE.

4. TRAFFIC CONES MAY BE USED AS CHANNELIZING DEVICES ALONG THE WORK AREA DURING DAYLIGHT HOURS ONLY.

5. WORK OR EQUIPMENT CONFINED TO A SPOT LOCATION (LESS THAN 200 FEET) SHALL BE MARKED BY CHANNELIZING DEVICES SPACED AT 25 FEET OR BY A VEHICLE WITH A YELLOW REVOLVING LIGHT OR YELLOW STROBE LIGHT VISIBLE TO ONCOMING TRAFFIC. WORK EXTENDING MORE THAN 200 FEET OF ROADWAY LENGTH SHALL BE MARKED WITH APPROPRIATE DEVICES SPACED AS NOTED IN THE TABLE.

6. SHOULDER DROP-OFFS

   A. WHEN A SHOULDER DROP-OFF GREATER THAN 2" BUT LESS THAN 6" EXISTS, A "SHOULDER DROP-OFF" SIGN WILL FOLLOW THE "SHOULDER WORK" SIGN. WHEN THE DROP-OFF EXCEEDS 6", THE "SHOULDER DROP-OFF" SIGN SHALL BE REPLACED BY A "NO SHOULDER" SIGN.

   B. IF THE SPEED LIMIT IS GREATER THAN 45 MPH AND THE DROPOFF IS 10" OR GREATER WITHIN 2' OF THE TRAVEL LANE DURING NONWORKING HOURS, A PORTABLE BARRIER SHALL BE USED.

7. A TEMPORARY EDGELINE OR CHANNELIZING DEVICE SHALL BE PLACED AT THE PAVEMENT EDGE ADJACENT TO THE DROP-OFF DURING NONWORKING HOURS WHEN THE DROPOFF IS GREATER THAN 2".

8. SPEED LIMIT IN THE ABOVE TABLE REFERS TO THE LEGALLY ESTABLISHED SPEED LIMIT BEFORE CONSTRUCTION. IF WORKERS ARE PRESENT WITHIN 2' OF TRAVEL LANE, SPEED LIMIT MAY NEED TO BE REDUCED.

9. WHEN A WORK AREA HAS BEEN ESTABLISHED ON ONE SIDE OF THE ROADWAY ONLY, THERE SHALL BE NO CONFLICTING OPERATIONS OR PARKING ON THE OPPOSITE SHOULDER WITHIN 500 FEET OF THE WORK AREA.

10. ANY SIGNS IN CONFLICT WITH CONSTRUCTION SIGNING SHALL BE REMOVED OR COVERED.

11. MINIMUM CONSTRUCTION SIGNING: ANY ADDITIONAL SIGNS SHOWN IN THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" AND REQUIRED BY THE PROJECT ENGINEER SHALL BE INSTALLED UNDER ITEM 713-01.

12. TYPE III BARRICADES SHALL BE PLACED IN THE CLOSED LANE AT A 1000' INTERVAL WHERE NO ACTIVE WORK IS ON GOING AND THE LANE MUST REMAIN CLOSED. TYPE III BARRICADES ARE ALSO REQUIRED BEFORE EACH OR GROUP OF UNFILLED HOLES OR HOLES FILLED WITH TEMPORARY MATERIAL, OR WHERE UNCURED CONCRETE EXISTS.

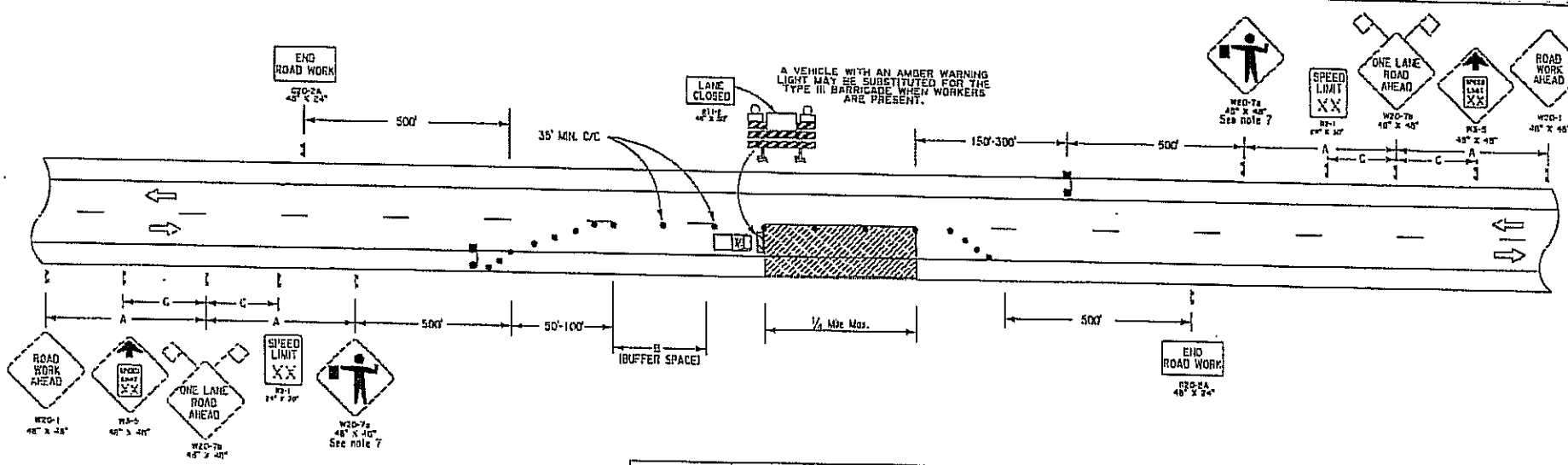
STATE OF LOUISIANA
CARL E. CORVILLE
REG. OR EXISTS
PROFESSIONAL ENGINEER
JANUARY 15, 2008

DISTRICT 07 — ORLEANS
DESIGNED: CORVILLE
DETAILED: COLVIN
CHECKED: SONNIER
QUANTITIES: COLVIN
DATE: 01/25/2008
SHEET: 94

TRAFFIC CONTROL LAYOUT
FOR WORK LESS THAN 15' FROM THE TRAVELED LANE
TC-01

DOTD
TRAFFIC ENGINEERING

I-202



SPEED LIMIT (See note 5)	Spacing		
	"A"	"B"	"C"
35 mph	500'	250'	N/A
45 mph	1000'	360'	500'
55 mph	1500'	495'	800'

SIGN SPACING TO BE ADJUSTED FOR HORIZONTAL & VERTICAL CURVES.

LEGEND

- Traffic Sign
- Flagger
- Channelizing Devices
- Type III Barricades
- Work Area
- Type B Light

NOTES

THIS SHEET SHALL BE USED WITH THE "TEMPORARY TRAFFIC CONTROL GENERAL NOTES SHEET (TC-001".

1. CONDITIONS REPRESENTED ARE FOR WORK WHICH REQUIRES CLOSING TRAFFIC LANES DURING DAYLIGHT HOURS ONLY. PORTABLE SIGNS MAY BE USED FOR WORK LASTING LESS THAN 3 DAYS.
2. WHEN A WORK AREA HAS BEEN ESTABLISHED ON ONE SIDE OF THE ROADWAY ONLY, THERE SHALL BE NO PARKING ON THE OPPOSITE SHOULDER WITHIN 500 FEET OF THE WORK AREA.
3. CHANNELIZING DEVICES MAY BE PLACED UP TO 2' BEYOND CENTER-LINE ONLY AT SPECIFIC LOCATIONS WHERE ACTUAL WORK ACTIVITY IS TAKING PLACE. A 10' MINIMUM TRAVELED LANE SHOULD BE MAINTAINED WHERE PRACTICAL. CHANNELIZING DEVICES SHALL BE RETURNED TO THE CENTERLINE WHEN THE WORK ACTIVITY HAS PASSED.
4. SPACING OF CHANNELIZING DEVICES IN THE TAPER SHOULD BE NO MORE THAN 20'. A MINIMUM OF 3 CHANNELIZING DEVICES ARE TO BE USED IN THE TAPER.
5. SPEED LIMIT REFERS TO THE LEGALLY ESTABLISHED SPEED LIMIT BEFORE CONSTRUCTION.
6. TO PREVENT VEHICLES FROM ENTERING THE WORK AREA AGAINST THE FLOW OF TRAFFIC, AN ADDITIONAL FLAGGER SHALL BE STATIONED AT EACH INTERSECTION, MAJOR DRIVEWAY, RAILROAD CROSSING OR CROSSING WITHIN THE WORK AREA.
7. VISUAL OR RADIO CONTACT SHALL BE REQUIRED BETWEEN FLAGGERS AT ALL TIMES. THE FLAGGER SHALL BE VISIBLE FROM FLAGGER SIGN.
8. ANY SIGNS IN CONFLICT WITH CONSTRUCTION SIGNING SHALL BE REMOVED OR COVERED BY THE CONTRACTOR.
9. MINIMUM CONSTRUCTION SIGNING: ANY ADDITIONAL SIGNS SHOWN IN THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" AND REQUIRED BY THE PROJECT ENGINEER SHALL BE INSTALLED UNDER ITEM 713-01.
10. TYPE III BARRICADES SHALL BE PLACED IN THE CLOSED LANE AT A 1000' INTERVAL WHERE NO ACTIVE WORK IS ON GOING AND THE LANE MUST REMAIN CLOSED. TYPE III BARRICADES ARE ALSO REQUIRED BEFORE EACH OR GROUP OF UNFILLED HOLES OR HOLES FILLED WITH TEMPORARY MATERIAL, OR WHERE UNCURED CONCRETE EXISTS.
11. NEITHER WORK ACTIVITY NOR STORAGE OF EQUIPMENT, VEHICLES, OR MATERIALS SHALL OCCUR WITHIN THE BUFFER SPACE.

STATE OF LOUISIANA
CARL E. COURVILLE
NO. 19015
REGISTERED PROFESSIONAL ENGINEER
CIVIL ENGINEER

January 15, 2008

TRAFFIC CONTROL LAYOUT
FOR LANE CLOSURE LESS THAN ¼ MILE IN LENGTH

TC-02

TRAFFIC ENGINEERING

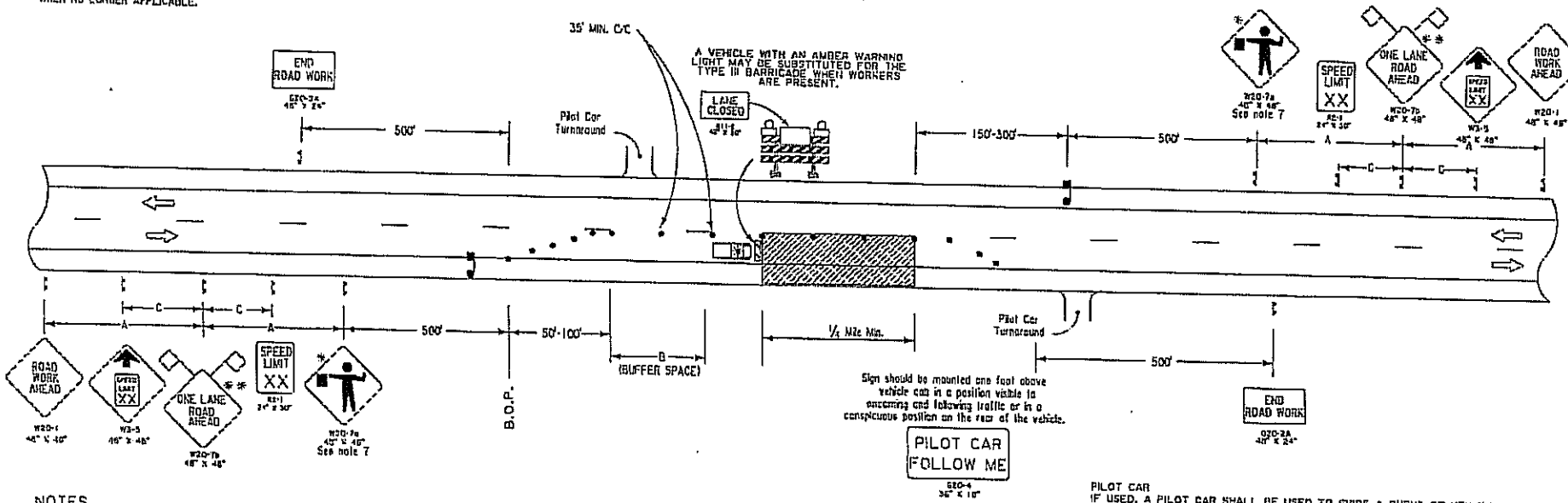
ORLEANS

01/25/2008

95

I-203

* REMOVE OR COVER WHEN NO LONGER APPLICABLE.
** REPLACE WITH "ROAD WORK 1/2 MILE" WHEN NO LONGER APPLICABLE.



NOTES

THIS SHEET SHALL BE USED WITH THE "TEMPORARY TRAFFIC CONTROL GENERAL NOTES SHEET (TC-001)".

1. WHEN A WORK AREA HAS BEEN ESTABLISHED ON ONE SIDE OF THE ROADWAY ONLY, THERE SHALL BE NO PARKING ON THE OPPOSITE SHOULDER WITHIN 500 FEET OF THE WORK AREA.

2. CHANNELIZING DEVICES MAY BE PLACED UP TO 2' BEYOND CENTERLINE ONLY AT SPECIFIC LOCATIONS WHERE ACTUAL WORK ACTIVITY IS TAKING PLACE. A 10' MINIMUM TRAVELED LANE SHOULD BE MAINTAINED WHERE PRACTICAL. CHANNELIZING DEVICES SHALL BE RETURNED TO THE CENTERLINE WHEN THE WORK ACTIVITY HAS PASSED.

3. SPACING OF CHANNELIZING DEVICES IN THE TAPER SHOULD BE NO MORE THAN 20'. A MINIMUM OF 5 CHANNELIZING DEVICES ARE TO BE USED IN THE TAPER.

4. SPEED LIMIT REFERS TO THE LEGALLY ESTABLISHED SPEED LIMIT BEFORE CONSTRUCTION.

5. TO PREVENT VEHICLES FROM ENTERING THE WORK AREA AGAINST THE FLOW OF TRAFFIC, AN ADDITIONAL FLAGGER SHALL BE STATIONED AT EACH INTERSECTION, MAJOR DRIVEWAY, RAILROAD CROSSING OR CROSSING WITHIN THE WORK AREA.

6. WITH THE APPROVAL OF THE ENGINEER, THE LENGTH OF THE WORK AREA MAY, FOR A SHORT DURATION, BE CHANGED TO AS MUCH AS ONE-HALF MILE MAXIMUM TO IMPROVE THE SIGHT DISTANCE TO THE FLAGGER. VISUAL OR RADIO CONTACT SHALL BE REQUIRED BETWEEN THE FLAGGERS AT ALL TIMES.

7. FOR PROJECTS IN RURAL AREAS THE DISTANCE BETWEEN FLAGGERS SHALL NOT EXCEED 2.5 MILES FOR A.D.T. (AVERAGE DAILY TRAFFIC) OF LESS THAN 2,500 AND 3.0 MILES FOR A.D.T. FROM 2,500 TO 5,000. DISTANCE BETWEEN FLAGGERS SHALL NOT EXCEED 1.5 MILES FOR A.D.T. GREATER THAN 5,000 VEHICLES.

8. THE CONTRACTOR MAY EXTEND THE LANE CLOSURE AN ADDITIONAL 1.0 MILE UNDER THE FOLLOWING PROVISIONS:

   (A) THE LANE CLOSURE EXTENSION IS PERMITTED ONLY DURING NON-PEAK HOURS.

   (B) ONCE THE TRAFFIC CONTROL DEVICES HAVE BEEN PLACED TO EXTEND THE LANE CLOSURE, THE TRAFFIC CONTROL DEVICES AT THE BEGINNING OF THE TRAFFIC CONTROL SHALL BE MOVED DOWNSTREAM TO LIMIT THE WORK AREA TO THE DISTANCE DEFINED IN NOTE 7.

9. ANY SIGNS IN CONFLICT WITH CONSTRUCTION SIGNING SHALL BE REMOVED OR COVERED.

10. MINIMUM CONSTRUCTION SIGNING: ANY ADDITIONAL SIGNS SHOWN IN THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" AND REQUIRED BY THE PROJECT ENGINEER SHALL BE INSTALLED UNDER ITEM 713-01.

11. VISUAL OR RADIO CONTACT SHALL BE REQUIRED BETWEEN FLAGGERS AT ALL TIMES. THE FLAGGER SHALL BE VISIBLE FROM FLAGGER SIGN.

12. TYPE III BARRICADES SHALL BE PLACED IN THE CLOSED LANE AT A 1000' INTERVAL WHERE NO ACTIVE WORK IS OR GOING AND THE LANE MUST REMAIN CLOSED. TYPE III BARRICADES ARE ALSO REQUIRED BEFORE EACH OR GROUP OF UNFILLED HOLES OR HOLES FILLED WITH TEMPORARY MATERIAL, OR WHERE UNCURED CONCRETE EXISTS.

13. THE CONTRACTOR CAN USE EITHER A PILOT CAR OR CHANNELIZING DEVICES IN THE TANGENT SECTION. IF A PILOT CAR IS REQUIRED THEN THE CONTRACTOR IS NOT REQUIRED TO HAVE CHANNELIZING DEVICES IN THE TANGENT SECTION.

14. NEITHER WORK ACTIVITY NOR STORAGE OF EQUIPMENT, VEHICLES, OR MATERIALS SHALL OCCUR WITHIN THE BUFFER SPACE.

PILOT CAR
IF USED, A PILOT CAR SHALL BE USED TO GUIDE A QUEUE OF VEHICLES THROUGH THE TEMPORARY TRAFFIC CONTROL ZONE OR DETOUR. IT SHALL BE USED IN RESTRICTED VISIBILITY OPERATIONS SUCH AS LIME OR CEMENT STABILIZATION, CHIP SEALS, OR OPERATIONS IN HILLY OR CURVY TERRAINS WHERE FLAGGERS CANT SEE EACH OTHER (REQUIRE A CLEAR LINE-OF-SIGHT). PILOT CARS ARE NOT REQUIRED IN CONFINED OPERATIONS SUCH AS STRIPING OR OTHER LIMITED LANE CLOSURE OPERATIONS LESS THAN 250' (i.e. CROSS DRAIN INSTALLATIONS UNLESS THERE ARE MULTIPLE CROSS DRAINS WITH A CONTINUOUS LANE CLOSURE). THE OPERATION OF THE PILOT VEHICLE SHALL BE COORDINATED WITH FLAGGING OPERATIONS OR OTHER CONTROLS AT EACH END OF THE ONE-LANE SECTION.

SPEED LIMIT (See note 4)	Spacing		
	"A"	"B"	"C"
35 mph	500'	250'	N/A
45 mph	1000'	360'	500'
55 mph	1500'	495'	000'

CARL E. COURVILLE REG. No. 23319 REGISTERED PROFESSIONAL ENGINEER
JANUARY 15 2008

LEGEND
- Traffic Sign
- Flagger
- Channelizing Devices
- Type III Barricades
- Work Area
- Type B Light

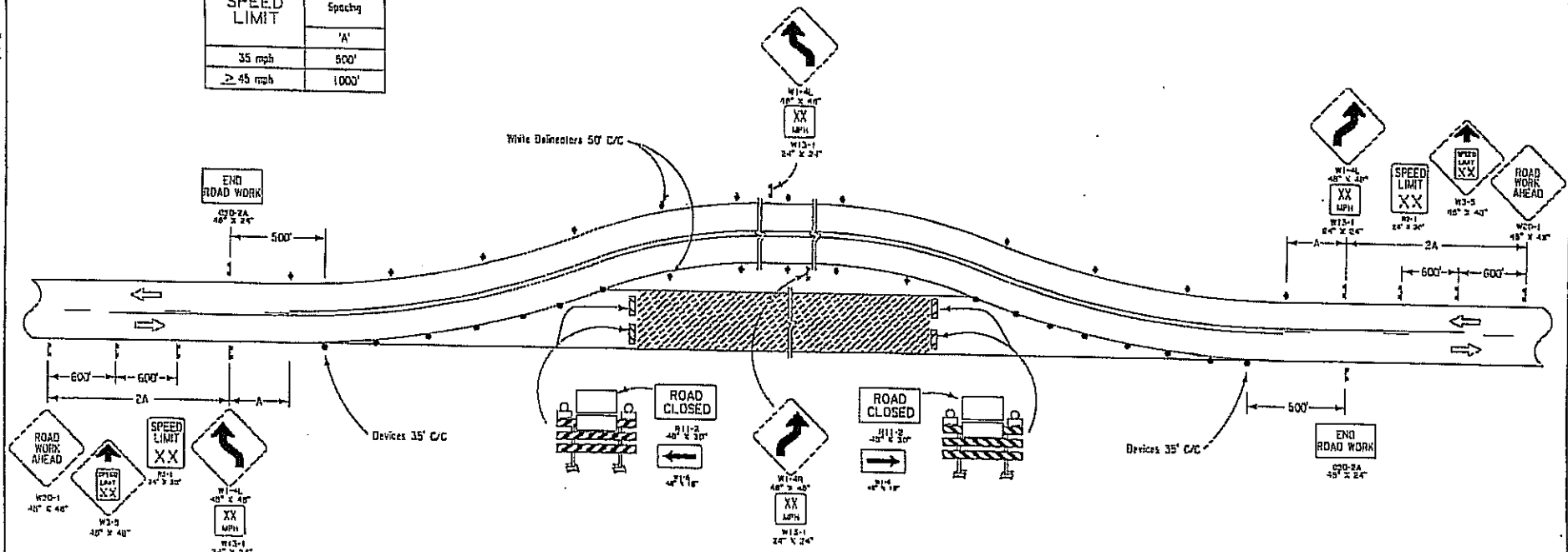
TRAFFIC CONTROL LAYOUT
FOR LANE CLOSURE GREATER THAN 1/4 MILE IN LENGTH (SUITABLE FOR MOVING OPERATIONS)

TRAFFIC ENGINEERING

ORLEANS | CARL E. COURVILLE | 01/25/2008 | SHEET NUMBER 96 | TC-03

I-204

SPEED LIMIT	Spacing
	'A'
35 mph	600'
≥ 45 mph	1000'



NOTES

THIS SHEET SHALL BE USED WITH THE "TEMPORARY TRAFFIC CONTROL GENERAL NOTES SHEET (TC-001".

1. SPEED LIMIT REFERS TO THE LEGALLY ESTABLISHED SPEED LIMIT BEFORE CONSTRUCTION AND NOT THE SPEED LIMIT DURING CONSTRUCTION.
2. THE TRAFFIC ENGINEER MAY REDUCE THE ADVISORY SPEED IF DEEMED APPROPRIATE. IF REDUCED BELOW 35 MPH, THE REVERSE CURVE SIGNS (W1-4L OR W1-4R) WILL BE CHANGED TO REVERSE TURN SIGN (W1-3LA OR W1-3RA).
3. ADVISORY SPEED TO BE DETERMINED IN THE FIELD BY THE DISTRICT TRAFFIC OPERATIONS ENGINEER.
4. ALL CONFLICTING PAVEMENT MARKINGS SHALL BE REMOVED. (NO DIRECT PAY)
5. THE TEMPORARY DIVERSON STRUCTURE SHALL MEET ALL NCHRP 350 STANDARDS FOR APPROACH END TREATMENTS.
6. ANY SIGNS IN CONFLICT WITH CONSTRUCTION SIGNING SHALL BE REMOVED OR COVERED.
7. MINIMUM CONSTRUCTION SIGNING: ANY ADDITIONAL SIGNS SHOWN IN THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" AND REQUIRED BY THE PROJECT ENGINEER SHALL BE INSTALLED UNDER ITEM 713-01.
8. IF THE RIGHT OF WAY PROHIBITS THE DIVERSION FROM BEING CONSTRUCTED FOR THE LEGALLY ESTABLISHED SPEED LIMIT, THE DISTRICT TRAFFIC OPERATIONS ENGINEER MAY REDUCE THE SPEED LIMIT BY INTERVALS OF 10 mph.
9. THE DIVERSION SHALL BE STRIPED WITH DOUBLE YELLOW SOLID LINES AND RAISED PAVEMENT MARKINGS AS PER PM-01.

LEGEND

- Traffic Sign
- Channelizing Devices
- Type III Barricades
- Single White Delineators
- Type B Light

CARL F. COGNEVILLE
REG. NO. 23315
REGISTERED
PROFESSIONAL
ENGINEER
STATE OF LOUISIANA

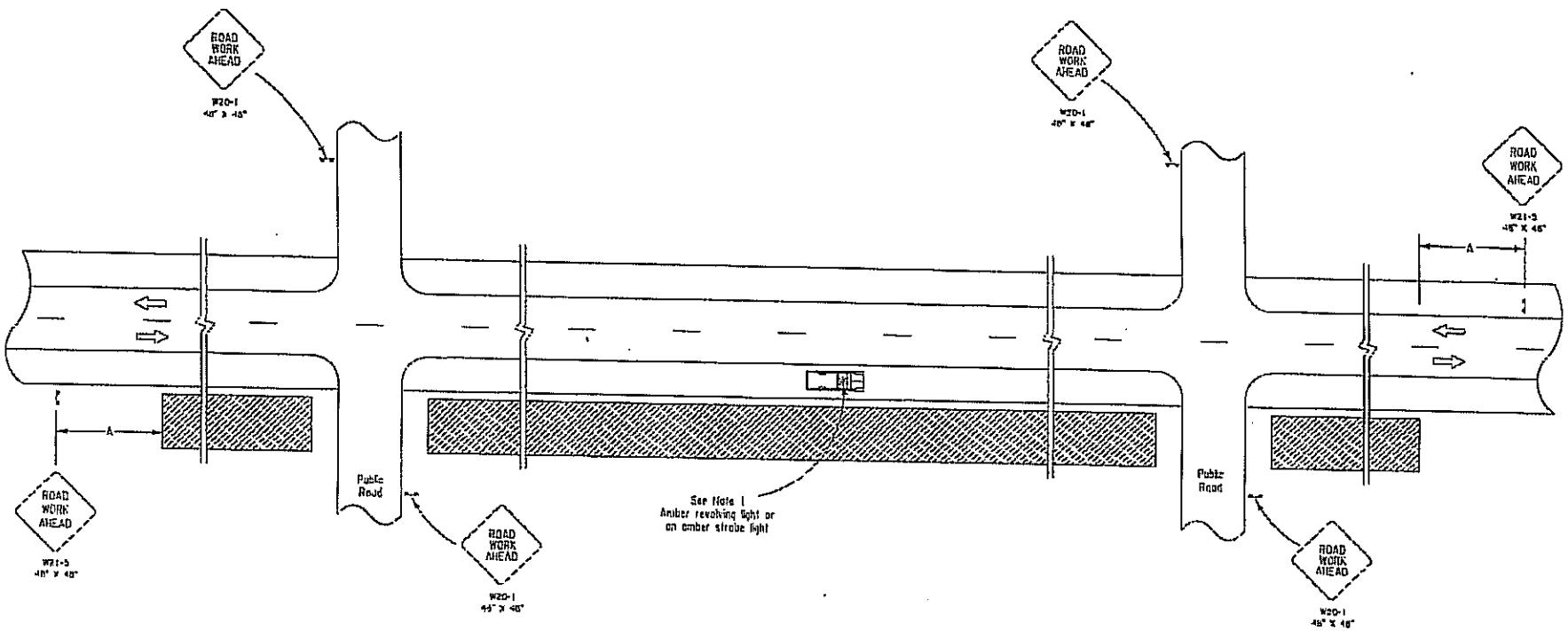
JANUARY 15, 2003

I-205

TRAFFIC CONTROL LAYOUT
FOR PAVED ON SITE DIVERSION
WITH TWO-WAY TRAFFIC

TC-04

TRAFFIC ENGINEERING



LEGEND

Traffic Sign

Work Area

SPEED LIMIT	Spacing
	'A'
35 mph	500'
45 mph	1000'
55 mph	1500'

NOTES

THIS SHEET SHALL BE USED WITH THE "TEMPORARY TRAFFIC CONTROL GENERAL NOTES SHEET (TC-00)".

1. THIS LAYOUT REPRESENTS TRAFFIC CONTROLS REQUIRED FOR WORKERS AND EQUIPMENT OPERATING OUTSIDE OF CLEAR ZONE. IF THE OPERATION RESULTS IN EQUIPMENT OR OTHER VEHICLES BEING PARKED WITHIN THE CLEAR ZONE, BUT NOT WITHIN THE ROADWAY EACH VEHICLE SHALL HAVE AN AMBER LIGHT.
2. WHEN A WORK AREA HAS BEEN ESTABLISHED ON ONE SIDE OF THE ROADWAY ONLY, THERE SHALL BE NO PARKING ON THE OPPOSITE SHOULDER WITHIN 500 FEET OF THE WORK AREA.
3. SPEED LIMIT REFERS TO THE LEGALLY ESTABLISHED SPEED LIMIT BEFORE CONSTRUCTION.
4. AN ADDITIONAL "ROAD WORK AHEAD" SIGN SHALL BE PLACED AT EACH PUBLIC ROAD INTERSECTING THE PROJECT WITHIN THE WORK AREA.
5. ANY SIGNS IN CONFLICT WITH CONSTRUCTION SIGNING SHALL BE REMOVED OR COVERED.
6. MINIMUM CONSTRUCTION SIGNING: ANY ADDITIONAL SIGNS SHOWN IN THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" AND REQUIRED BY THE PROJECT ENGINEER SHALL BE INSTALLED UNDER ITEM 713-01.

STATE OF LOUISIANA
CARL E. COURVILLE
REGISTERED
PROFESSIONAL
ENGINEER
CIVIL ENGINEER
January 15 2001

98

ORLEANS

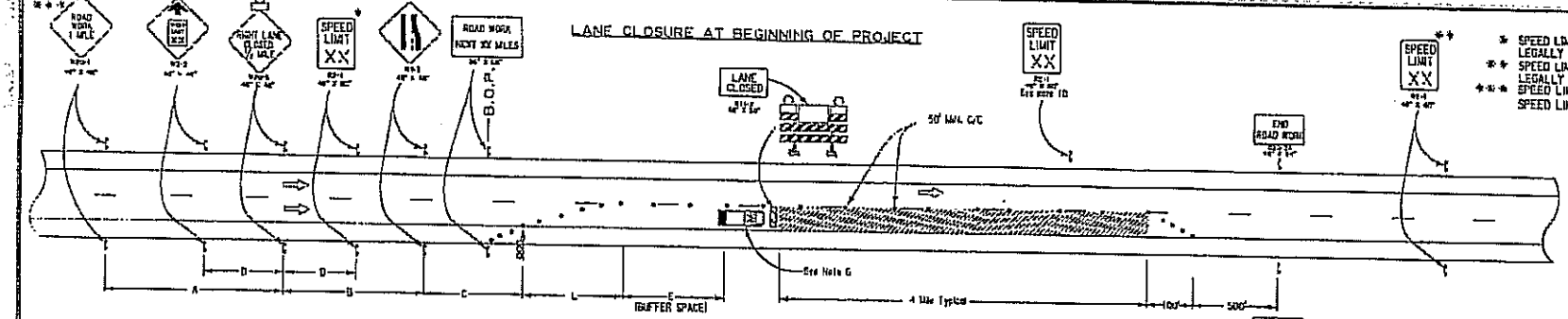
C. COURVILLE
J. COLVIN
D. EDWARDS
C.D. VINH
01/25/2000

TRAFFIC CONTROL LAYOUT
FOR WORK GREATER THAN 15' FROM THE TRAVELED LANE

TC-05

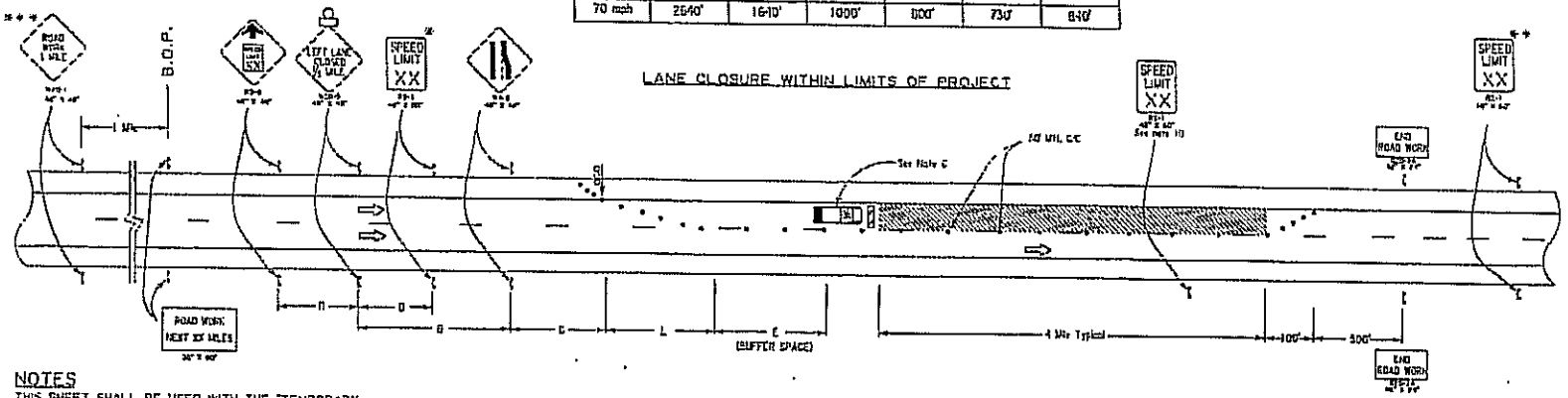
TRAFFIC ENGINEERING

206



* SPEED LIMIT IS TO BE 10 MPH LESS THAN LEGALLY ESTABLISHED SPEED LIMIT
** SPEED LIMIT IS TO BE RETURNED TO LEGALLY ESTABLISHED SPEED LIMIT
*** SPEED LIMIT > 45 MPH USE "ROAD WORK 1 MILE"
SPEED LIMIT ≤ 45 MPH USE "ROAD WORK AHEAD"

SPEED LIMIT	Spacing					
	'A'	'B'	'C'	'D'	'E'	'L'
45 mph	1140'	1000'	500'	500'	360'	540'
55 mph	2610'	1640'	1000'	800'	495'	660'
60 mph	2640'	1640'	1000'	800'	570'	720'
65 mph	2640'	1640'	1000'	800'	645'	780'
70 mph	2640'	1640'	1000'	800'	730'	840'



LEGEND
- Traffic Sign
- Channelizing Devices
- Type III Barricades
- Flashing Arrow Panel
- Work Area
- Type B Light

NOTES

THIS SHEET SHALL BE USED WITH THE "TEMPORARY TRAFFIC CONTROL GENERAL NOTES SHEET (TC-001)".

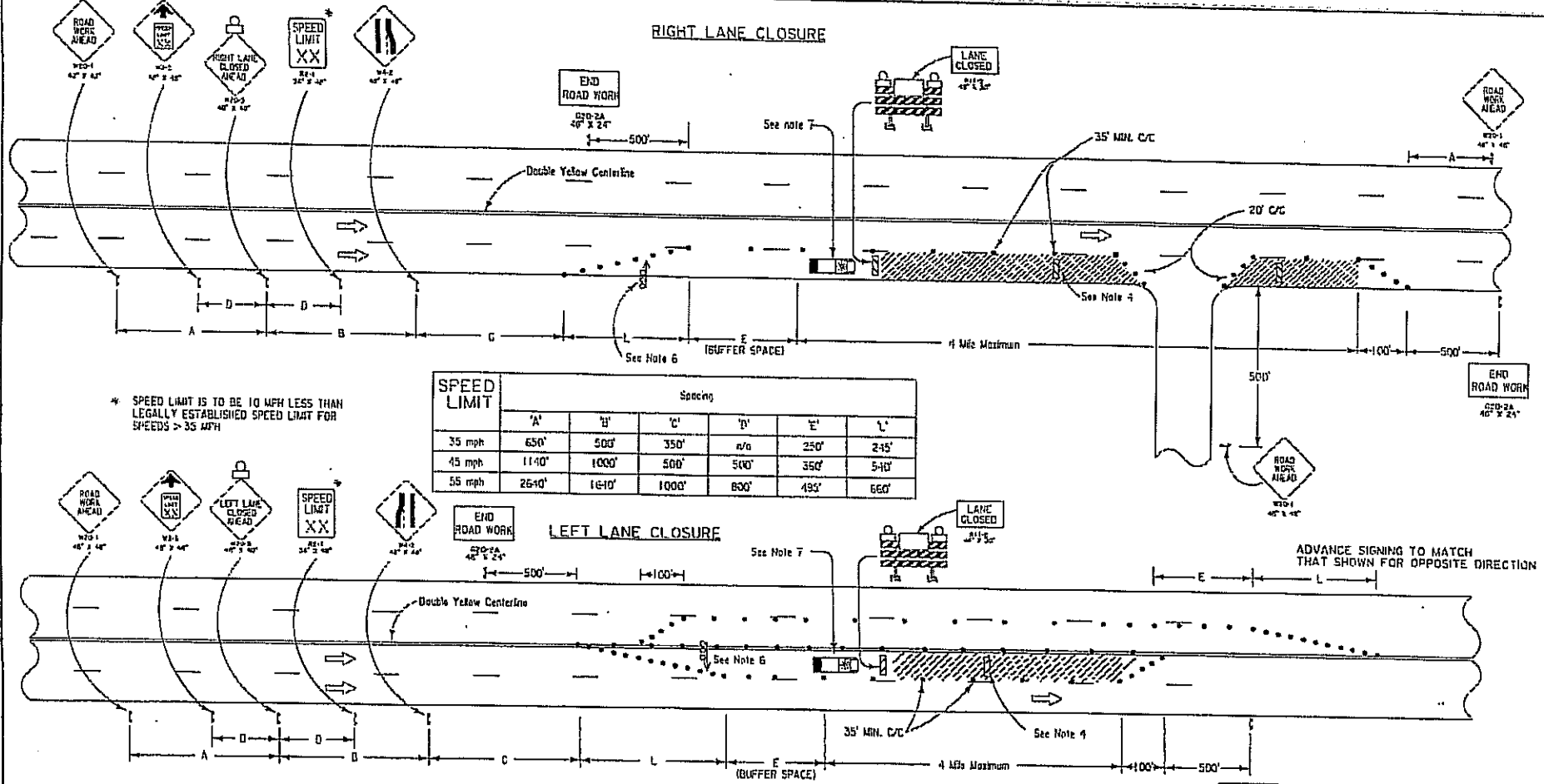
1. SPEED LIMIT REFERS TO THE LEGALLY ESTABLISHED SPEED LIMIT BEFORE CONSTRUCTION.
2. WHEN DOING ANY INTERSTATE WORK, A MINIMUM OF TWO DYNAMIC MESSAGE SIGNS PER DIRECTION SHALL BE PLACED IN ADVANCE OF THE LANE CLOSURE. ORDANCE AS TO PLACEMENT IS SHOWN ON TC-00; HOWEVER, SPECIFIC DISTANCES TO BE SET BY THE PROJECT ENGINEER.
3. DOWNSTREAM TAPERS SHALL BE 100' PER LANE WITH CHANNELIZING DEVICES SPACED AT A SPACING OF 20'.
4. TYPE III BARRICADES SHALL BE PLACED IN THE CLOSED LANE AT A 1000' INTERVAL WHERE NO ACTIVE WORK IS BEING DONE AND THE LANE MUST REMAIN CLOSED. TYPE III BARRICADES ARE ALSO REQUIRED BEFORE EACH OR GROUP OF UNFILLED HOLES OR HOLES FILLED WITH TEMPORARY MATERIAL, OR WHERE UNCURED CONCRETE EXISTS.
5. IF A RAMP ENTRANCE OR EXIT TAPER FALLS WITHIN THE WORK AREA, REFER TO STANDARD ROAD PLANS TC-09 AND TC-09 FOR TRAFFIC CONTROL DETAILS.
6. A VEHICLE WITH A FLASHING AMBER LIGHT AND A TRUCK MOUNTED ATTENUATOR SHALL BE USED IN ADVANCE OF AREAS WHERE WORKERS ARE PRESENT WITHOUT POSITIVE BARRIER PROTECTION.
7. CHANNELIZING DEVICES MAY ENCROACH UP TO 2 FEET FROM CENTERLINE INTO THE OPEN LANE ONLY AT SPECIFIC LOCATIONS WHERE ACTUAL WORK ACTIVITY IS TAKING PLACE. CHANNELIZING DEVICES SHALL BE RETURNED TO TO THE CLOSED LANE WHEN THE WORK ACTIVITY HAS PASSED. IN NO CASE SHALL THE MAINLINE WIDTH OF THE TRAVEL LANE BE LESS THAN 10'.
8. A FLAGGER SHALL BE USED TO ALERT MOTORISTS WHEN EQUIPMENT OR WORKERS ENCROACH WITHIN 2 FEET OF AN OPEN LANE. THE FLAGGER SHALL BE POSTED ADJACENT TO THE OPEN TRAVEL LANE AND IMMEDIATELY UPSTREAM OF EACH OPERATION. ENCROACHMENT SHALL BE HELD TO A MINIMUM.
9. WHEN THE LENGTH OF CLOSURE IS GREATER THAN 1 MILE, INSTALL SPEED LIMIT SIGNS AT 1 MILE INTERVALS.
10. IF CONDITIONS RESULT IN A DROPOFF OR RISE, BETWEEN LANE CLOSURE AND TRAVEL LANE, WHICH EXCEEDS 2 INCHES OVERNIGHT, THE CONTRACTOR SHALL PLACE A TEMPORARY EDGE LINE IN THE OPEN LANE, A MINIMUM OF 1 FOOT FROM THE DROPOFF OR RISE. IF THE CONTRACTOR CHOOSES TO USE DRUMS FOR THE CHANNELIZING DEVICES, THE TEMPORARY EDGE LINE MAY BE OMITTED AS LONG AS THE DEVICE SPACING IS 90' OR LESS. IN EITHER CASE, THE CHANNELIZING DEVICES SHALL BE PLACED IN THE CLOSED LANE DURING NONWORKING HOURS.
11. HIGH INTENSITY FLASHING LIGHTS SHALL BE USED TO MARK THE SECOND ADVANCE WARNING SIGN (_____LANE CLOSED ½ MILE). LOW INTENSITY FLASHING LIGHTS SHALL BE USED TO MARK ALL OTHER HAZARDS OFF THE TRAVEL WAY. STEADY BURNING LIGHTS SHALL BE USED ON ALL TRAFFIC CONTROL DEVICES USED FOR MERGING TAPER, INCLUDING THE FIRST TWO DEVICES AFTER THE TAPER ENDS. FIRST LIGHT IN A MERGING TAPER SHALL BE FLASHING.
12. THE MAXIMUM SPACING BETWEEN CHANNELIZING DEVICES IN A MERGING TAPER AND SHIFTING TAPER SHALL NOT BE GREATER THAN 50'.
13. ANY SIGNS IN CONFLICT WITH CONSTRUCTION SIGNING SHALL BE REMOVED OR COVERED.
14. MINIMUM CONSTRUCTION SIGNING: ANY ADDITIONAL SIGNS SHOWN IN THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" AND REQUIRED BY THE PROJECT ENGINEER SHALL BE INSTALLED UNDER ITEM 713-01.
15. NEITHER WORK ACTIVITY NOR STORAGE OF EQUIPMENT, VEHICLES, OR MATERIALS SHALL OCCUR WITHIN THE BUFFER SPACE.

CARL E. COURVILLE, REG. No. 23512, REGISTERED PROFESSIONAL ENGINEER, STATE OF LOUISIANA
January 25, 2001

TRAFFIC CONTROL LAYOUT FOR LANE CLOSURES ON DIVIDED HIGHWAYS
TC-05

DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT
TRAFFIC ENGINEERING

99 | ORLEANS | DESIGNED E. COURVILLE | DRAWN E. COURVILLE | CHECKED D. COURVILLE | DATE 01/25/2001 | SHEET 1-01



* SPEED LIMIT IS TO BE 10 MPH LESS THAN LEGALLY ESTABLISHED SPEED LIMIT FOR SPEEDS > 35 MPH

SPEED LIMIT	Spacing					
	'A'	'B'	'C'	'D'	'E'	'L'
35 mph	650'	500'	350'	n/a	250'	245'
45 mph	1140'	1000'	500'	500'	350'	540'
55 mph	2640'	1640'	1000'	800'	495'	660'

NOTES

THIS SHEET SHALL BE USED WITH THE "TEMPORARY TRAFFIC CONTROL GENERAL NOTES SHEET (TC-00)".

1. SPEED LIMIT REFERS TO THE LEGALLY ESTABLISHED SPEED LIMIT BEFORE CONSTRUCTION.
2. DOWNSTREAM TAPERS SHALL BE 100' PER LANE WITH DEVICES SPACED AT A SPACING OF 20'.
3. THE MAXIMUM SPACING BETWEEN CHANNELIZING DEVICES IN A MERGING TAPER SHALL BE APPROXIMATELY EQUAL IN FEET TO THE SPEED LIMIT.
4. TYPE III BARRICADES SHALL BE PLACED IN THE CLOSED LANE AT A 1000' INTERVAL WHERE NO ACTIVE WORK IS ON GOING AND THE LANE MUST REMAIN CLOSED. TYPE III BARRICADES ARE ALSO REQUIRED BEFORE EACH OR GROUP OF UNFILLED HOLES OR HOLES FILLED WITH TEMPORARY MATERIAL, OR WHERE UNCURED CONCRETE EXISTS.
5. A FLAGGER SHALL BE USED TO ALERT MOTORISTS WHEN EQUIPMENT OR WORKERS ENCROACH WITHIN 2 FEET OF AN OPEN LANE. THE FLAGGER SHALL BE POSTED ADJACENT TO THE OPEN TRAFFIC LANE AND IMMEDIATELY UPSTREAM OF EACH OPERATION. ENCROACHMENT SHALL BE HELD TO A MINIMUM.
6. WHEN THERE IS NO SHOULDER OR MEDIAN AREA, THE ARROW PANEL SHALL BE PLACED WITHIN THE CLOSED LANE BEHIND THE CHANNELIZING DEVICES AND AS CLOSE TO THE BEGINNING OF THE TAPER AS PRACTICAL. IN NO CASE SHALL ARROW PANEL ENCROACH ON OPPOSING LANE.
7. A VEHICLE WITH A FLASHING AMBER LIGHT AND A TRUCK MOUNTED ATTENUATOR SHALL BE USED IN ADVANCE OF AREAS WHERE WORKERS ARE PRESENT WITHOUT POSITIVE BARRIER PROTECTION.
8. CHANNELIZING DEVICES MAY BE PLACED UP TO 2' BEYOND THE LANE LINE ONLY AT SPECIFIC LOCATIONS WHERE ACTUAL WORK ACTIVITY IS TAKING PLACE. CHANNELIZING DEVICES SHALL BE RETURNED TO ITS ORIGINAL POSITION WHEN THE WORK ACTIVITY HAS PASSED.
9. IF CONDITIONS RESULT IN A DROPOFF OR RISE, BETWEEN LANE CLOSURE AND TRAVEL LANE, WHICH EXCEEDS 2 INCHES OVERNIGHT, THE CONTRACTOR SHALL PLACE A TEMPORARY EDGE LINE IN THE OPEN LANE. A MINIMUM OF ONE FOOT FROM THE DROPOFF OR RISE. IF THE CONTRACTOR CHOOSES TO USE DRUMS FOR THE CHANNELIZING DEVICES, THE TEMPORARY EDGE LINE MAY BE OMITTED AS LONG AS THE DEVICE SPACING IS 80'. IN EITHER CASE, THE CHANNELIZING DEVICES SHALL BE PLACED IN THE CLOSED LANE DURING NONWORKING HOURS.
10. ANY SIGNS IN CONFLICT WITH CONSTRUCTION SIGNING SHALL BE REMOVED OR COVERED.
11. MINIMUM CONSTRUCTION SIGNING: ANY ADDITIONAL SIGNS SHOWN IN THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" AND REQUIRED BY THE PROJECT ENGINEER SHALL BE INSTALLED UNDER ITEM 713-01.
12. HIGH INTENSITY FLASHING LIGHTS SHALL BE USED TO MARK THE SECOND ADVANCE WARNING SIGN (____LANE CLOSED AHEAD). LOW INTENSITY FLASHING LIGHTS SHALL BE USED TO MARK ALL OTHER HAZARDS OFF THE TRAVEL WAY. STEADY BURNING LIGHTS SHALL BE USED ON ALL TRAFFIC CONTROL DEVICES USED FOR MERGING TAPER. INCLUDING THE FIRST TWO DEVICES AFTER THE TAPER ENDS. FIRST LIGHT IN A MERGING TAPER SHALL BE FLASHING.
13. NEITHER WORK ACTIVITY NOR STORAGE OF EQUIPMENT, VEHICLES, OR MATERIALS SHALL OCCUR WITHIN THE BUFFER SPACE.

LEGEND

- Traffic Sign
- Channelizing Devices
- Type III Barricades
- Flashing Arrow Panel
- Work Area
- Type B Light

CARL E. COMBRILLE, P.E. No. 05317, REGISTERED PROFESSIONAL ENGINEER IN LOUISIANA

JANUARY 25 2008

I-208

TRAFFIC CONTROL LAYOUT FOR LANE CLOSURE ON FOUR-LANE UNDIVIDED HIGHWAYS

TC-07

TRAFFIC ENGINEERING

SHEET NUMBER 100

ORLEANS

DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT

01/25/2008

* SPEED LIMIT IS TO BE 10 MPH LESS THAN THE LEGALLY ESTABLISHED SPEED LIMIT

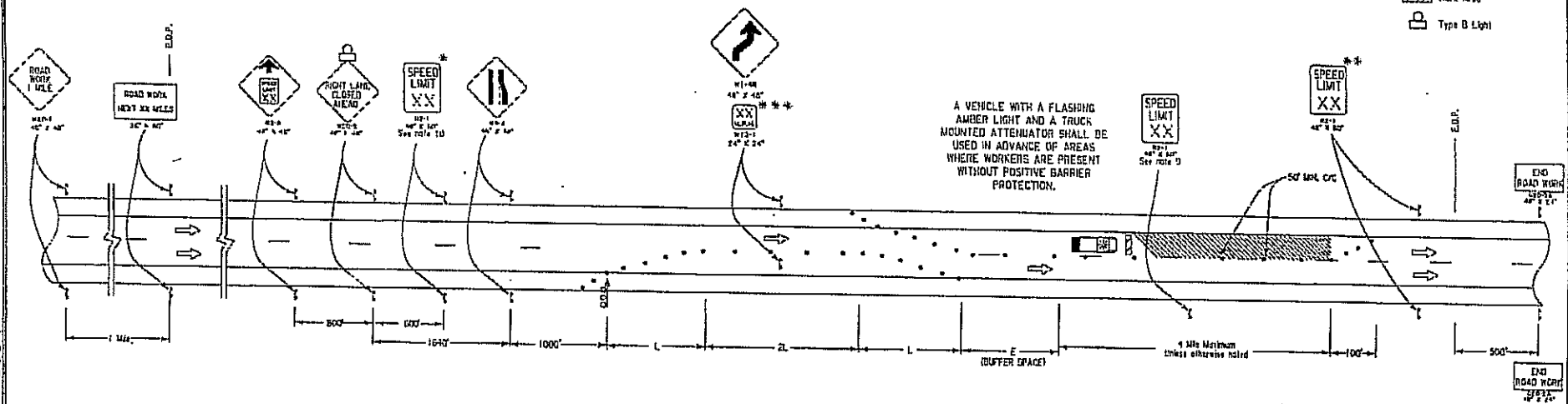
** SPEED LIMIT IS TO BE RETURNED TO THE LEGALLY ESTABLISHED SPEED LIMIT

*** MAY USE AN ADVISORY SPEED PLAQUE (W13-1) IF DEEMED NECESSARY. ADVISORY SPEED TO BE DETERMINED BY THE DISTRICT TRAFFIC OPERATIONS ENGINEER.

SPEED LIMIT	Spacing	
	"E"	"L"
60 mph	570'	720'
65 mph	645'	780'
70 mph	730'	840'

LEGEND

- Traffic Sign
- Channelizing Devices
- Type III Barricades
- Flashing Arrow Panel
- Work Area
- Type B Light



NOTES

THIS SHEET SHALL BE USED WITH THE "TEMPORARY TRAFFIC CONTROL GENERAL NOTES SHEET (TC-001".

1. WHEN DOING ANY INTERSTATE WORK, OR THE AVERAGE DAILY TRAFFIC (ADT) EXCEEDS 20,000 VEHICLES PER DAY OR WHEN THE TRAFFIC QUEUES BEYOND THE ADVANCED SIGNING, A MINIMUM OF TWO CMS SIGNS PER DIRECTION SHALL BE PLACED IN ADVANCE OF THE LANE CLOSURE. GUIDANCE AS TO PLACEMENT IS SHOWN ON TC-00; HOWEVER, SPECIFIC DISTANCES TO BE SET BY THE PROJECT ENGINEER.

2. THE MAXIMUM SPACING BETWEEN CHANNELIZING DEVICES IN A MERGING TAPER AND SHIFTING TAPER SHALL BE APPROXIMATELY EQUAL IN FEET TO THE SPEED LIMIT BEFORE ROAD WORK.

3. TYPE III BARRICADES SHALL BE PLACED IN THE CLOSED LANE AT A 1000' INTERVAL WHERE NO ACTIVE WORK IS ON GOING AND THE LANE MUST REMAIN CLOSED. TYPE III BARRICADES ARE ALSO REQUIRED BEFORE EACH OR GROUP OF UNFILLED HOLES OR HOLES FILLED WITH TEMPORARY MATERIAL, OR WHERE UNCURED CONCRETE EXISTS.

4. IF A RAMP ENTRANCE OR EXIT TAPER FALLS WITHIN THE WORK AREA, REFER TO STANDARD ROAD PLANS TC-08 AND TC-09 FOR TRAFFIC CONTROL DETAILS.

5. A FLAGGER SHALL BE USED TO ALERT MOTORISTS WHEN EQUIPMENT OR WORKERS ENCROACH WITHIN 2 FEET OF AN OPEN LANE. THE FLAGGER SHALL BE POSTED ADJACENT TO THE OPEN TRAFFIC LANE AND IMMEDIATELY UPSTREAM OF EACH OPERATION. ENCROACHMENT SHALL BE HELD TO A MINIMUM.

6. A VEHICLE WITH A FLASHING AMBER LIGHT AND A TRUCK MOUNTED ATTENUATOR SHALL BE USED IN ADVANCE OF AREAS WHERE WORKERS ARE PRESENT WITHOUT POSITIVE BARRIER PROTECTION.

7. UNDER NORMAL CLOSURE CONDITIONS, DEVICES SHOULD BE PLACED 2' FROM CENTERLINE INTO THE CLOSED LANE. CHANNELIZING DEVICES MAY ENCROACH UP TO 2' FROM CENTERLINE INTO THE OPEN LANE ONLY AT SPECIFIC LOCATIONS WHERE ACTUAL WORK ACTIVITY IS TAKING PLACE. CHANNELIZING DEVICES SHALL BE RETURNED TO THE CLOSED LANE WHEN THE WORK ACTIVITY HAS PASSED. IN NO CASE SHALL THE MAINLINE WIDTH OF THE TRAVEL LANE BE LESS THAN 10'.

8. WHEN THE LENGTH OF CLOSURE IS GREATER THAN 1 MILE, INSTALL SPEED LIMIT SIGNS AT 1 MILE INTERVALS.

FOR LANE-LINE DROPOFF OR RISE:

9. IF CONDITIONS RESULT IN A DROPOFF OR RISE WHICH EXCEEDS 2" OVERNIGHT, THE CONTRACTOR SHALL PLACE A TEMPORARY EDGE LINE IN THE OPEN LANE. A MINIMUM OF 1' FROM THE DROPOFF OR RISE. IF THE CONTRACTOR CHOOSES TO USE DRUMS FOR THE CHANNELIZING DEVICES, THE TEMPORARY EDGE LINE MAY BE OMITTED AS LONG AS THE DRUM SPACING IS 50'. IN EITHER CASE, THE CHANNELIZING DEVICES SHALL BE PLACED IN THE CLOSED LANE DURING NONWORKING HOURS.

10. HIGH INTENSITY FLASHING LIGHTS SHALL BE USED TO MARK THE SECOND ADVANCE WARNING SIGN (RIGHT LANE CLOSED AHEAD). LOW INTENSITY FLASHING LIGHTS SHALL BE USED TO MARK ALL OTHER HAZARDS OFF THE TRAVEL WAY. STEADY BURNING LIGHTS SHALL BE USED ON ALL TRAFFIC CONTROL DEVICES USED FOR MERGING TAPER, INCLUDING THE FIRST TWO DEVICES AFTER THE TAPER ENDS. FIRST LIGHT IN A MERGING TAPER SHALL BE FLASHING.

11. ANY SIGNS IN CONFLICT WITH CONSTRUCTION SIGNING SHALL BE REMOVED OR COVERED.

12. MINIMUM CONSTRUCTION SIGNING: ANY ADDITIONAL SIGNS SHOWN IN THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" AND REQUIRED BY THE PROJECT ENGINEER SHALL BE INSTALLED UNDER ITEM 713-01.

13. NEITHER WORK ACTIVITY NOR STORAGE OF EQUIPMENT, VEHICLES, OR MATERIALS SHALL occur WITHIN THE BUFFER SPACE.

CARL E. COURVILLE REG. NO. 25312 REGISTERED PROFESSIONAL ENGINEER IN LOUISIANA

JANUARY 25 2008

TRAFFIC CONTROL LAYOUT
FOR LOUISIANA LEFT ON INTERSTATE HIGHWAYS

TC-14

TRAFFIC ENGINEERING

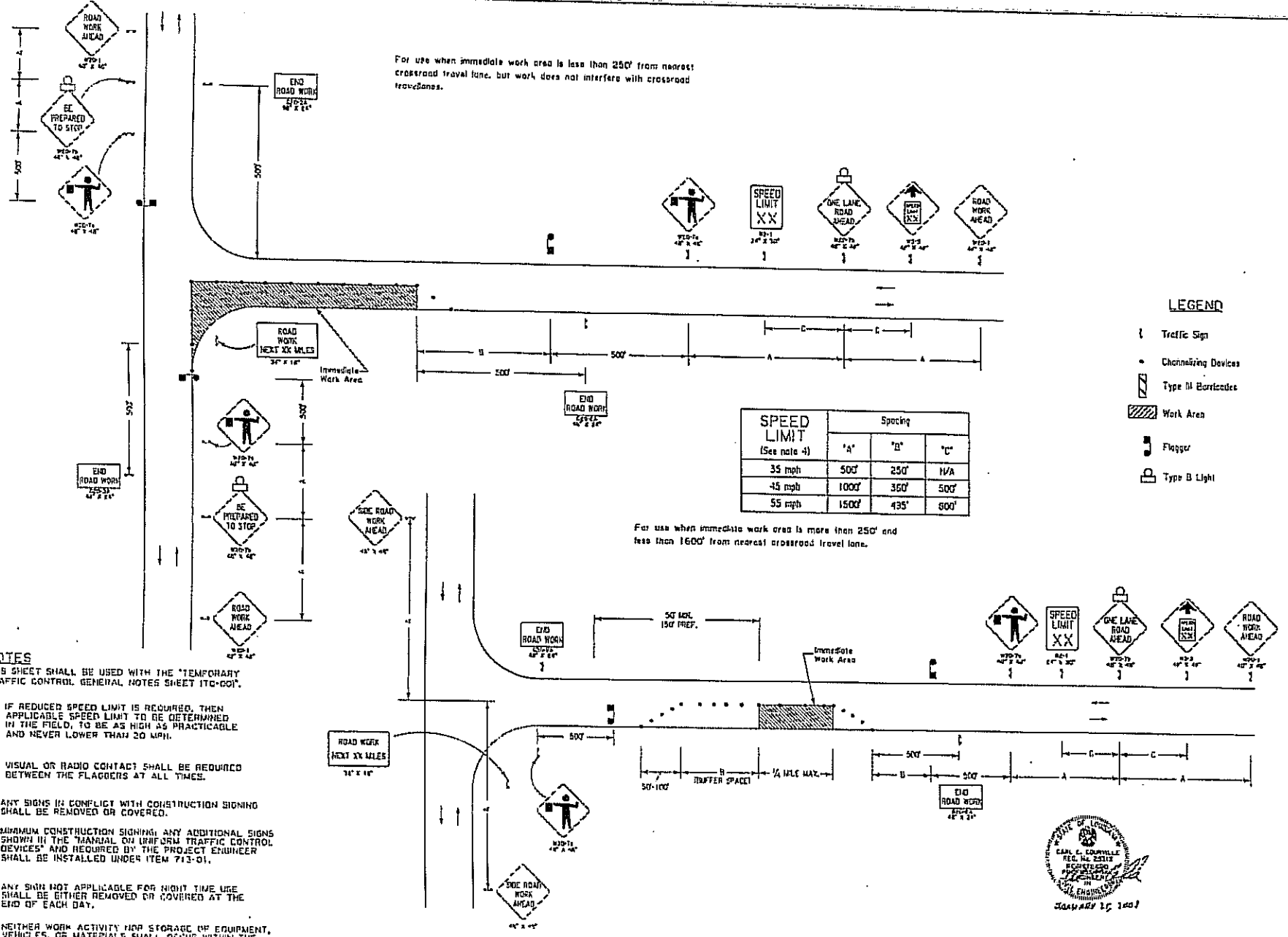
ORLEANS

DESIGNED COURVILLE
DRAWN COLVIN
CHECKED EDWARDS
QUANTITIES COLVIN

01/25/2008

SHEET NUMBER 101

I-209



SPEED LIMIT (See note 4)	Spacing		
	"A"	"B"	"C"
35 mph	500'	250'	N/A
45 mph	1000'	360'	500'
55 mph	1500'	435'	600'

For use when immediate work area is more than 250' and less than 1600' from nearest crossroad travel lane.

NOTES

THIS SHEET SHALL BE USED WITH THE "TEMPORARY TRAFFIC CONTROL GENERAL NOTES SHEET TTC-001".

1. IF REDUCED SPEED LIMIT IS REQUIRED, THEN APPLICABLE SPEED LIMIT TO BE DETERMINED IN THE FIELD, TO BE AS HIGH AS PRACTICABLE AND NEVER LOWER THAN 20 MPH.
2. VISUAL OR RADIO CONTACT SHALL BE REQUIRED BETWEEN THE FLAGGERS AT ALL TIMES.
3. ANY SIGNS IN CONFLICT WITH CONSTRUCTION SIGNING SHALL BE REMOVED OR COVERED.
4. MINIMUM CONSTRUCTION SIGNING. ANY ADDITIONAL SIGNS SHOWN IN THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" AND REQUIRED BY THE PROJECT ENGINEER SHALL BE INSTALLED UNDER ITEM 713-01.
5. ANY SIGN NOT APPLICABLE FOR NIGHT TIME USE SHALL BE EITHER REMOVED OR COVERED AT THE END OF EACH DAY.
6. NEITHER WORK ACTIVITY NOR STORAGE OF EQUIPMENT, VEHICLES, OR MATERIALS SHALL OCCUR WITHIN THE BUFFER SPACE.

CARL E. COURVILLE REG. No. 25312 REGISTERED PROFESSIONAL ENGINEER IN LOUISIANA
JANUARY 15, 2001

TRAFFIC CONTROL LAYOUT
FOR LANE CLOSURES ON TWO LANE UNDIVIDED HIGHWAYS DURING OVERLAYS AND MOVING OPERATIONS

TC-15

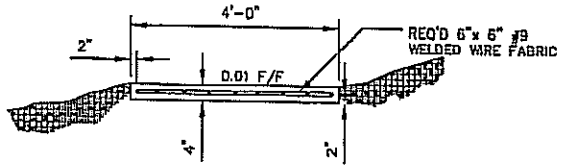
TRAFFIC ENGINEERING

DESIGNED C. COURVILLE
DETAILED J. COLVIN
CHECKED D. SOWARDS
QUANTITIES J. COLVIN
DATE 01/25/2000

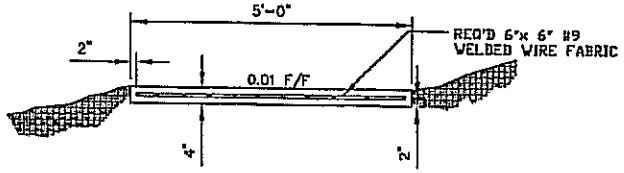
ORLEANS

102

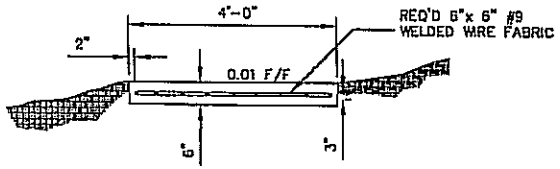
I-210



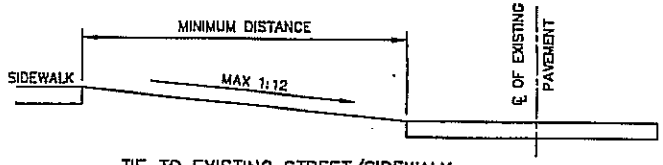
TYPICAL 4' SIDEWALK DETAIL (4" THICK)
N.T.S.



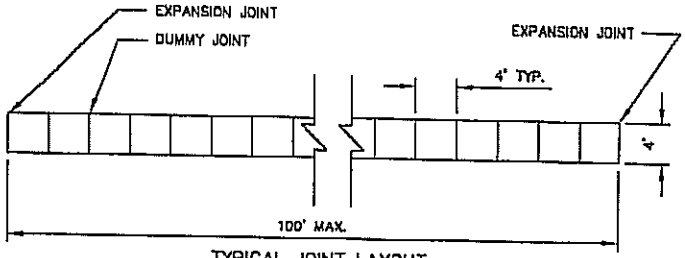
TYPICAL 5' SIDEWALK DETAIL (4" THICK)
N.T.S.



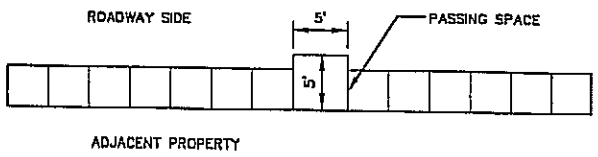
TYPICAL 4' SIDEWALK DETAIL (6" THICK)
N.T.S.



TIE TO EXISTING STREET/SIDEWALK
N.T.S.

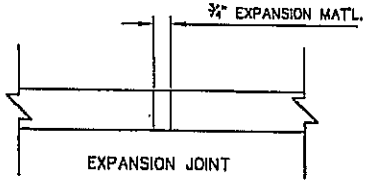


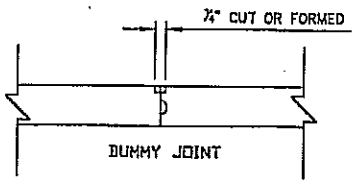
TYPICAL JOINT LAYOUT



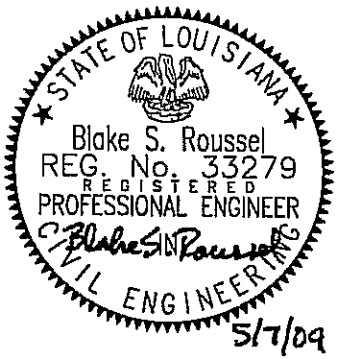
NOTE: ADDITIONAL SIDEWALK WIDTH FOR PASSING SPACE SHALL BE CONSTRUCTED TOWARD THE ROADWAY, NOT TOWARD THE ADJACENT PROPERTY.

ADA PASSING SPACE DETAIL

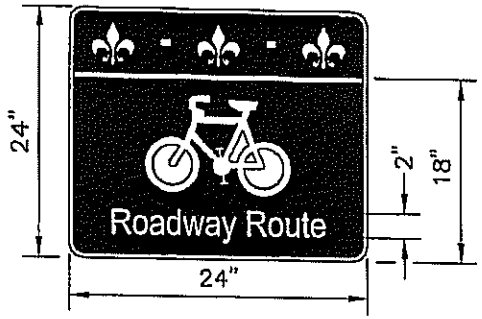




JOINT LAYOUTS
N.T.S.



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DETAIL 1

STANDARD SHARED USE ROADWAY ROUTE SIGNAGE

* REF: SUBMERGED ROADS NON-MOTORIZED FACILITIES GUIDANCE MANUAL

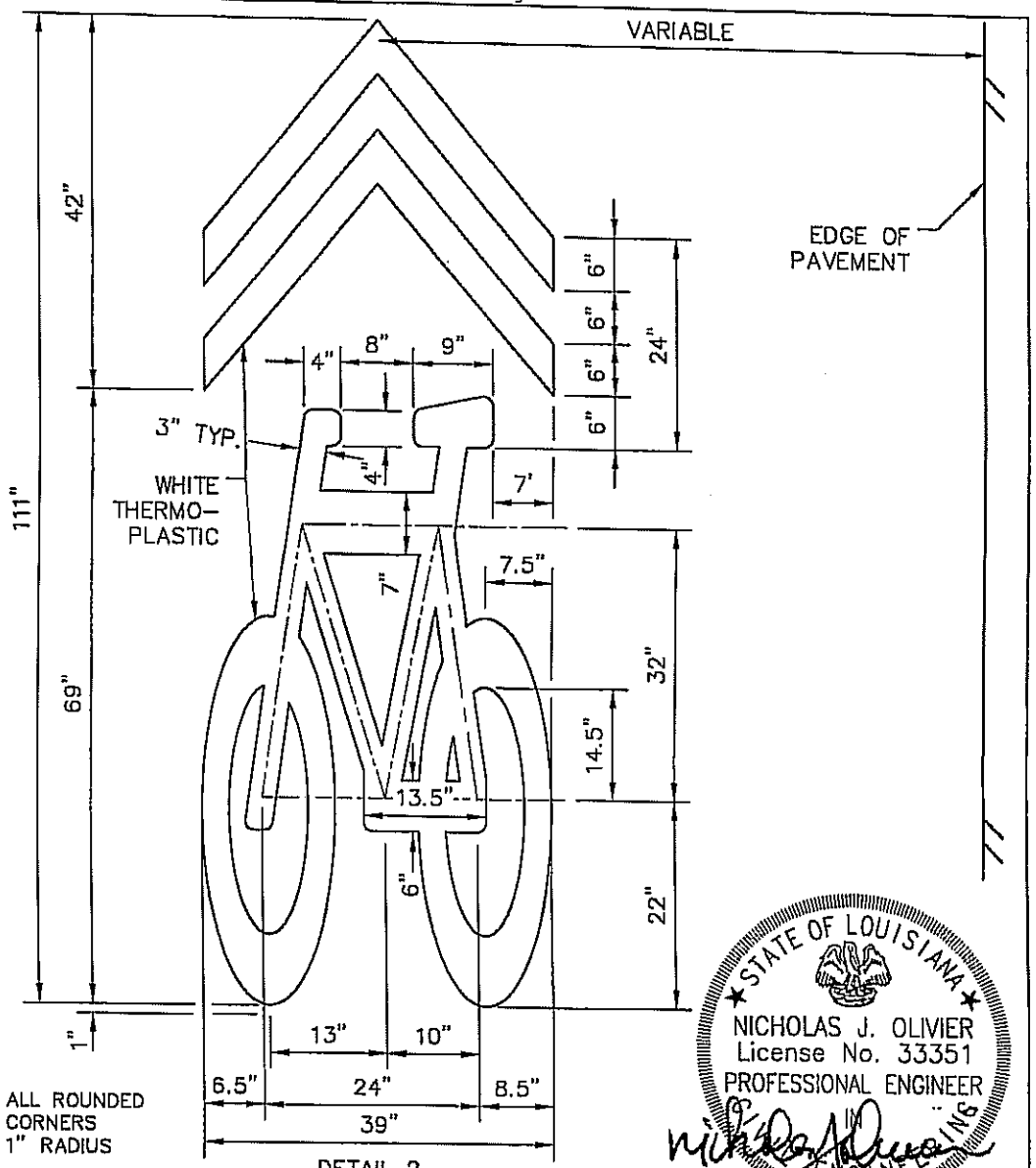
NEW ORLEANS BICYCLE SIGN DETAILS
MUTCD Code: D11-1 (Modified)
Size: 24"x 24"
Color: Legend - White (retroflective) Background - Green (retroflective) Top Border - Black background w/ white (retroflective)
Font: 2"
Bike Symbol: Typical (18.25"x 10.5")
Bike Symbol: Fleur-de-lis w/ square tile (size as shown)

I-212

NOTE:
SIGNAGE SPACING SHOULD FOLLOW MUTCD, CHAPTER 9.

NOTES:

1. BIKE-AND-CHEVRON MARKINGS SHOULD BE PLACED IN THE DIRECTION OF TRAVEL WITH A MINIMUM OF ONE PER BLOCK (ONE PER 300-400 FEET PLACED AT BEGINNING OF BLOCK).
2. THE LATERAL PLACEMENT OF THE BIKE-AND-CHEVRON MARKINGS SHOULD BE APPROXIMATELY 11 FEET FROM EDGE OF PAVEMENT WHEN PARKING LANE IS PRESENT. WHEN NO PARKING LANE IS PRESENT, BIKE-AND-CHEVRON MARKING SHOULD BE PLACED FROM 3 FEET TO 10 FEET FROM EDGE OF PAVEMENT (THIS IS DETERMINED ON A CASE-BY-CASE BASIS).



DETAIL 2

STANDARD SHARED USE ROADWAY PAVEMENT MARKING

* REF: SUBMERGED ROADS NON-MOTORIZED FACILITIES GUIDANCE MANUAL

STATE OF LOUISIANA
NICHOLAS J. OLIVIER
License No. 33351
PROFESSIONAL ENGINEER
IN ENGINEERING
5/6/09

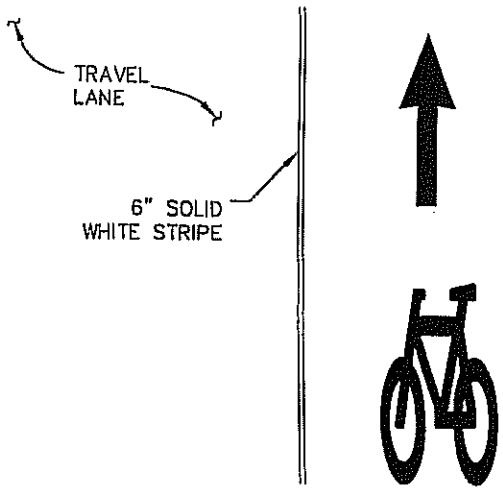
CIVIL DESIGN & CONSTRUCTION

BICYCLE ROUTE SIGNAGE & PAVEMENT MARKING DETAIL

STRIPING & SIGNAGE DETAILS

DESIGNED / CHECKED	NJO / KEW
DETAILED / CHECKED	NJO / KEW
DATE	MAY 2009
PARISH	ORLEANS
FEDERAL PROJECT	DI-DPI(840)-LEON C. SIMON DR. DI-DPI(862)-ST. BERNARD AVE. DI-DPI(800)-MIRAMEAU AVE. DI-DPI(863)-PARIS AVE. DI-DPI(801)-PLEURY AVE. DI-DPI(864)-CLYBURN FIELDS AVE.
STATE PROJECT	704-36-0032-LEON C. SIMON DR. 704-36-0034-ST. BERNARD AVE. 704-36-0034-MIRAMEAU AVE. 704-36-0037-PARIS AVE.

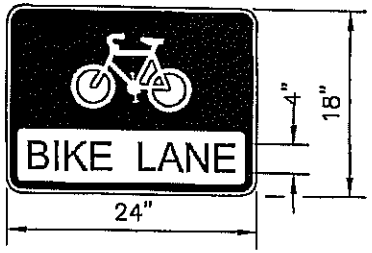
SHEET NUMBER 104



DETAIL 3

STANDARD DEDICATED BIKE LANE MARKING

* REF: SUBMERGED ROADS NON-MOTORIZED FACILITIES GUIDANCE MANUAL



DETAIL 4

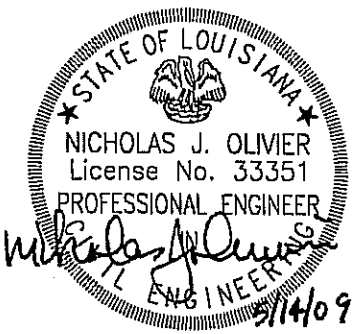
STANDARD DEDICATED BIKE LANE SIGNING

* REF: SUBMERGED ROADS NON-MOTORIZED FACILITIES GUIDANCE MANUAL

I-213

NOTES:

1. DEDICATED BIKE LANES SHALL INCLUDE
   a. R3-17 SIGN (DETAIL 4).
   b. 6" WHITE LANE LINE.
   c. THE STANDARD BICYCLE SYMBOL AND DIRECTIONAL ARROW ON THE PAVEMENT (DETAIL 3).
2. THESE ELEMENTS MUST COMPLY WITH CHAPTER 9 OF MUTCD.
3. THE STANDARD BIKE LANE (R3-17) SIGN SHALL BE INSTALLED AT THE BEGINNING OF EVERY BICYCLE LANE, AND SHOULD ALSO BE PLACED AS NEEDED AT PERIODIC INTERVALS ALONG THE LANE. IN ORDER TO AVOID SIGN CLUTTER IN URBAN AREAS, BIKE LANE SIGNS DO NOT NEED TO BE PLACED ADJACENT TO EVERY BICYCLE LANE SYMBOL.
4. STANDARD BICYCLE LANE PAVEMENT MARKINGS SHOULD BE PLACED AFTER EVERY INTERSECTION TO ALERT DRIVERS AND BICYCLISTS ENTERING THE ROADWAY OF THE EXCLUSIVE NATURE OF THE BIKE LANES. CARE MUST BE TAKEN TO AVOID PLACING SYMBOLS IN AN AREA WHERE MOTOR VEHICLES ARE EXPECTED TO CROSS A BIKE LANE (USUALLY DRIVEWAYS AND THE AREA IMMEDIATELY AFTER AN INTERSECTION).



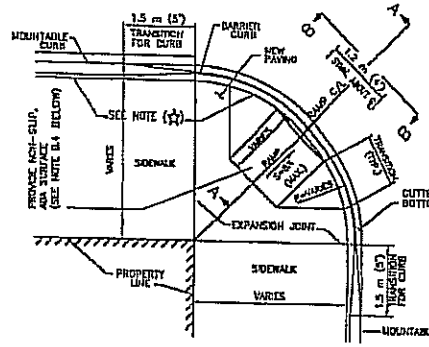
CIVIL DESIGN & CONSTRUCTION

BICYCLE ROUTE SIGNAGE & PAVEMENT MARKING DETAIL

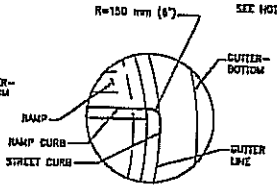
STRIPING & SIGNAGE DETAILS

DESIGNED / CHECKED	NJO / KEW	PARISH	ORLEANS
DETAILED / CHECKED	NJO / KEW	FEDERAL PROJECT	
DATE	MAY 2009	STATE PROJECT	

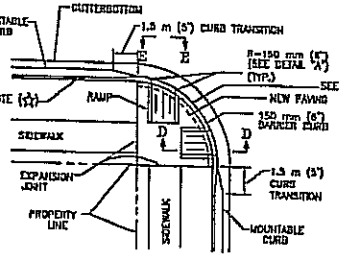
SHEET NUMBER 105



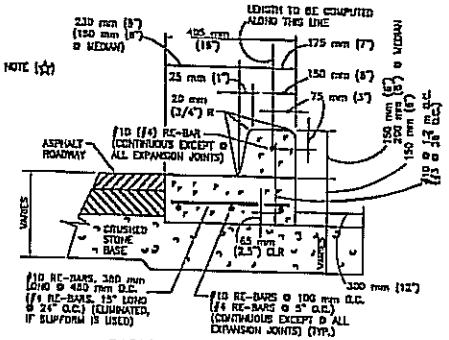
CONCRETE HANDICAPPED RAMP TYPE "A"
N.T.S.



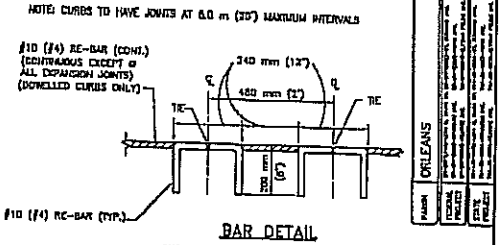
DETAIL "A"
N.T.S.



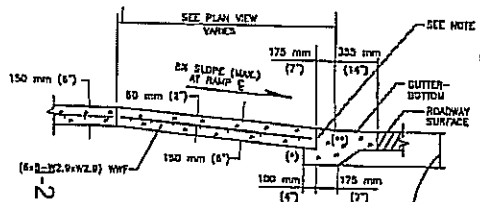
CONCRETE HANDICAP RAMP TYPE "B"
N.T.S.



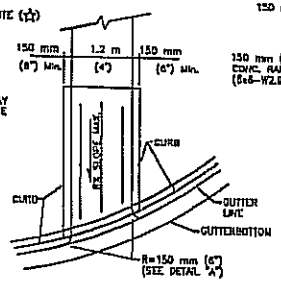
BARRIER CURB & GUTTERBOTTOM
N.T.S.



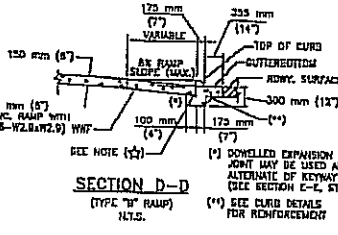
BAR DETAIL
SHOWING DIMENSIONS AND SPACING OF #10 (#4) DIST. REINF. STEEL BARS FOR CONC. CURB
N.T.S.



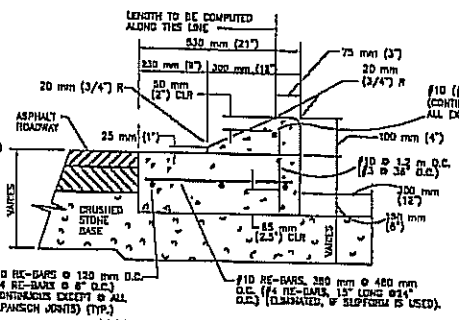
SECTION A-A
(TYPE "A" RAMP)
N.T.S.



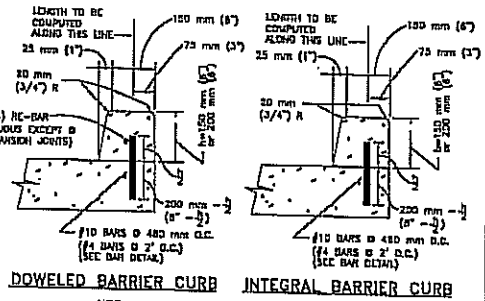
PLAN VIEW
(TYPE "B" RAMP)
N.T.S.



SECTION D-D
(TYPE "B" RAMP)
N.T.S.

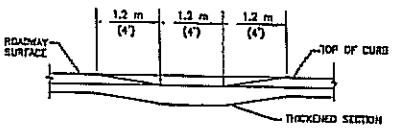


MOUNTABLE CURB & GUTTERBOTTOM
N.T.S.

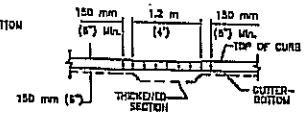


DOWELED BARRIER CURB
N.T.S.

INTEGRAL BARRIER CURB
N.T.S.



SECTION B-B
N.T.S.



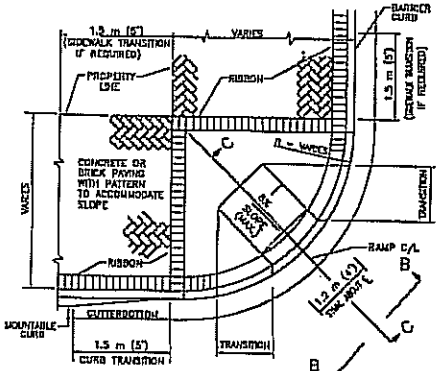
SECTION E-E
(TYPE "B" RAMP)
N.T.S.

NOTES:

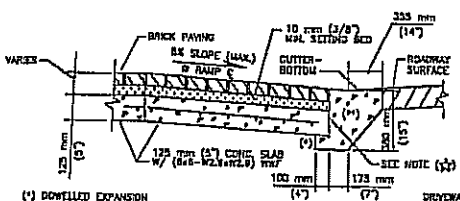
A. LOCATION
1. STREET INTERSECTIONS AS SHOWN ON DRAWINGS.
2. ACTUAL LOCATION OF RAMPS MAY VARY AS DIRECTED BY THE ENGINEER TO ACCOMMODATE EXISTING SITE CONDITIONS.
3. THE CONTRACTOR SHALL COORDINATE RAMP LOCATIONS WITH N.O.P.S.I. POWER POLE RELOCATIONS. RAMP LOCATIONS MAY SHIFT AS DIRECTED BY THE ENGINEER TO AVOID CONFLICT.

B. CONSTRUCTION
1. THE SLOPE OF THE RAMP SHALL NOT EXCEED 8%.
2. THE SLOPE OF THE SIDEWALK AND SIDEWALK TRANSITION SHALL NOT EXCEED 8%.
3. THE WIDTH OF THE RAMP SHALL NOT BE LESS THAN 1.2 m (4') BUT MAY EXCEED THIS WHERE NECESSARY.
4. SURFACE TEXTURE OF THE CONCRETE RAMP SHALL BE COMPLIED WITH ADA, THE LATEST EDITION.
5. ALL CONCRETE TO BE 23 MPa (3000 psi) EXCEPT AS OTHERWISE INDICATED.

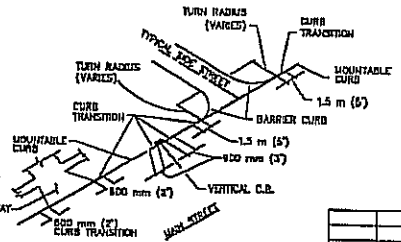
(☆) EXPANSION JOINT IS REQUIRED WHEN THE ENTIRE AREA IS PAVED.



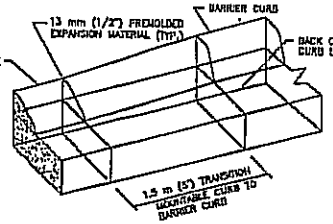
BRICK HANDICAPPED RAMP TYPE "A"
N.T.S.



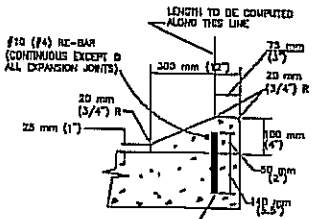
SECTION C-C
(BRICK RAMP)
N.T.S.



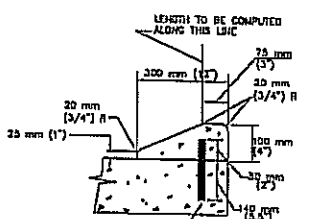
LOCATIONS OF CURB TRANSITION
N.T.S.



MOUNTABLE-BARRIER CURB TRANSITION
N. T. S.



DOWELED MOUNTABLE CURB
N.T.S.



INTEGRAL MOUNTABLE CURB
N.T.S.

GENERAL NOTES:
1. MEASUREMENTS AND UNITS IN ENGLISH SYSTEM ARE SHOWN IN PARENTHESES.
2. STRUCTURAL DESIGN HAS BEEN TAKEN INTO ACCOUNT IN CONVERTING REINFORCEMENT FROM METRIC TO ENGLISH SYSTEMS.

DATE	DESCRIPTION REVISIONS	ADDED	DELETED	INITIALS
4/04/07	CHANGED MOUNT. CURB HEIGHT FROM 125 mm (5") TO 100 mm (4"). ADDED VARIOUS NOTES.	H.D.B.	T.T.N.	H.D.B. T.T.N.

STANDARD PLAN STD1

MISCELLANEOUS DETAILS FOR STREET CONSTRUCTION

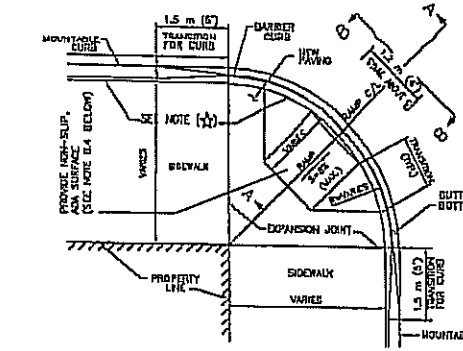
DATE APRIL 04, 1997

CITY OF NEW ORLEANS
DEPARTMENT OF PUBLIC WORKS

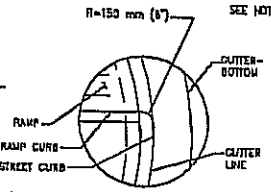
APPROVED DAVID F. FERGUSON DIRECTOR

SCALE NONE

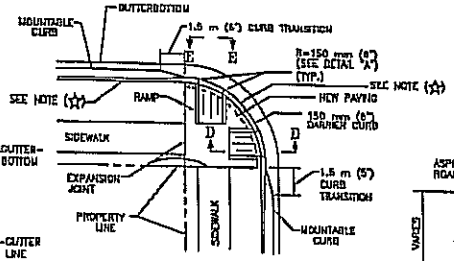
SHEET NUMBER 201
PARISH ORLEANS
FEDERAL PROJECT
STATE PROJECT



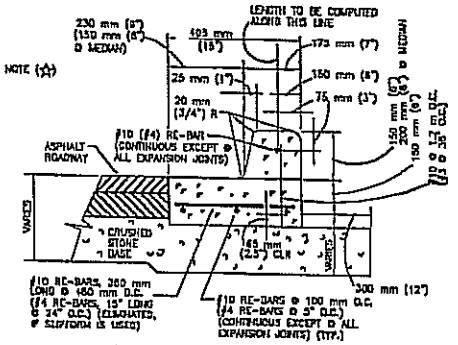
CONCRETE HANDICAPPED RAMP
TYPE "A"
N.T.S.



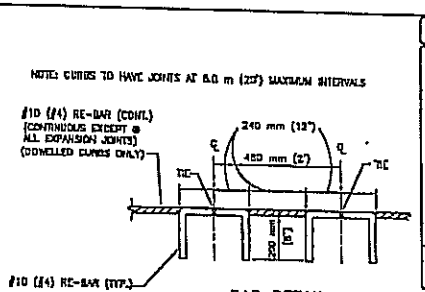
DETAIL "A"
N.T.S.



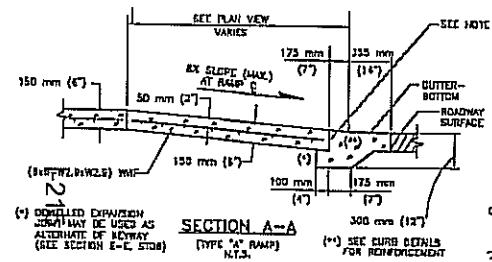
CONCRETE HANDICAP RAMP
TYPE "B"
N.T.S.



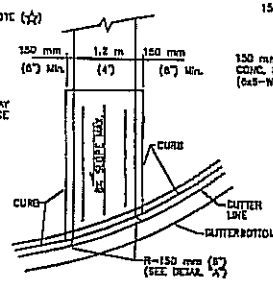
BARRIER CURB & GUTTERBOTTOM
N.T.S.



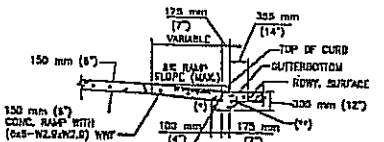
BAR DETAIL
SHOWING DIMENSIONS AND SPACING OF #10 (#4) DEF. REINF. STEEL BARS FOR CONC. CURB
N.T.S.



SECTION A-A
(TYPE "A" RAMP)
N.T.S.

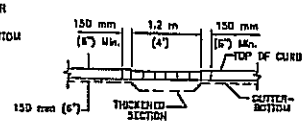


PLAN VIEW
(TYPE "D" RAMP)
N.T.S.

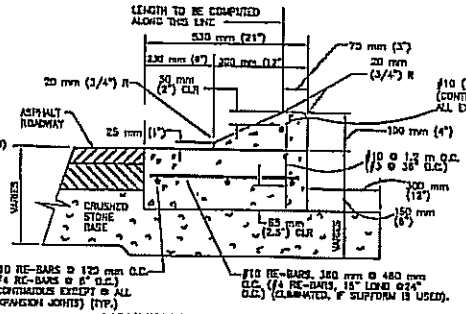


SECTION D-D
(TYPE "D" RAMP)
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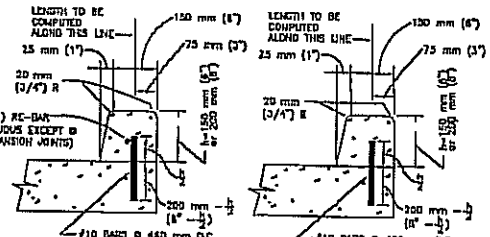
(*) DOWELLED EXPANSION JOINT MAY BE USED AS ALTERNATE OF KEYWAY (SEE SECTION E-E, STD8)
(**) SEE CURB DETAILS FOR REINFORCEMENT



SECTION E-E
(TYPE "D" RAMP)
N.T.S.

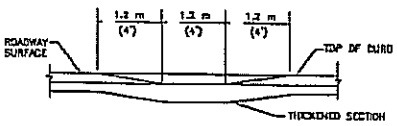


MOUNTABLE CURB & GUTTERBOTTOM
N.T.S.



DOWELED BARRIER CURB
N.T.S.

INTEGRAL BARRIER CURB
N.T.S.



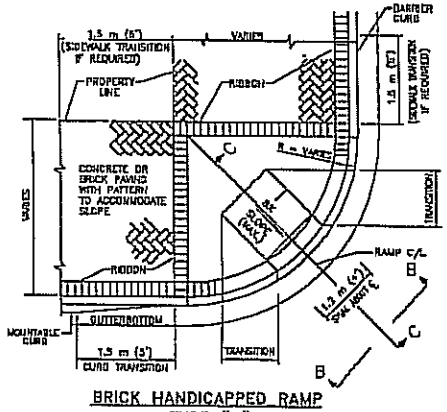
SECTION B-B
N.T.S.

NOTES:

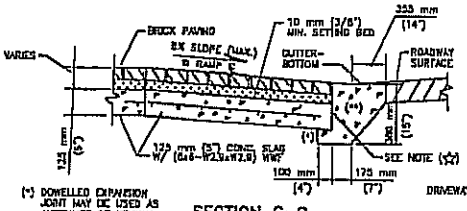
A. LOCATION
1. STREET INTERSECTIONS AS SHOWN ON DRAWINGS.
2. ACTUAL LOCATION OF RAMPS MAY VARY AS DIRECTED BY THE ENGINEER TO ACCOMMODATE EXISTING SITE CONDITIONS.
3. THE CONTRACTOR SHALL COORDINATE RAMP LOCATIONS WITH U.D.P.S.L. POWER POLE RELOCATIONS. RAMP LOCATIONS MAY SHIFT AS DIRECTED BY THE ENGINEER TO AVOID CONFLICT.

B. CONSTRUCTION
1. THE SLOPE OF THE RAMP SHALL NOT EXCEED 8%.
2. THE SLOPE OF THE SIDEWALK AND SIDEWALK TRANSITION SHALL NOT EXCEED 8%.
3. THE WIDTH OF THE RAMP SHALL NOT BE LESS THAN 1.2 m (4') BUT MAY EXCEED THIS WHERE NECESSARY.
4. SURFACE TEXTURE OF THE CONCRETE RAMP SHALL BE COMPLIED WITH ADA, THE LATEST EDITION.
5. ALL CONCRETE TO BE 21 MPa (3000 psi) EXCEPT AS OTHERWISE INDICATED.

(☆) EXPANSION JOINT IS REQUIRED WHEN THE ENTIRE AREA IS PAVED.

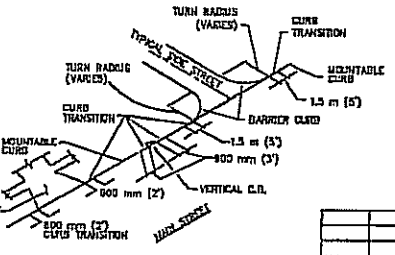


BRICK HANDICAPPED RAMP
TYPE "A"
N.T.S.

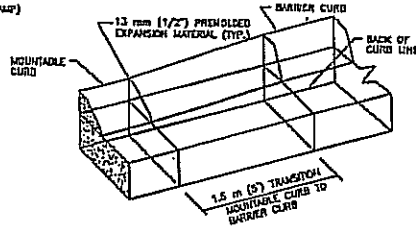


(*) DOWELLED EXPANSION JOINT MAY BE USED AS ALTERNATE OF KEYWAY (SEE SECTION E-E, STD8)
(**) SEE CURB DETAILS FOR REINFORCEMENT

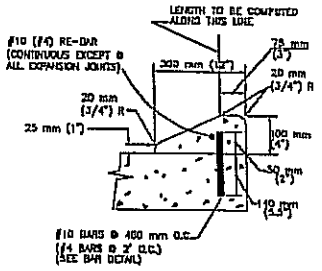
SECTION C-C
(BRICK RAMP)
N.T.S.



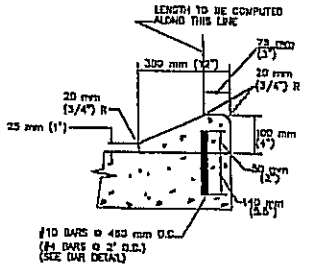
LOCATIONS OF CURB TRANSITION
N.T.S.



MOUNTABLE-BARRIER CURB TRANSITION
N. T. S.



DOWELED MOUNTABLE CURB
N.T.S.



INTEGRAL MOUNTABLE CURB
N.T.S.

GENERAL NOTES:

1. MEASUREMENTS AND UNITS IN ENGLISH SYSTEM ARE SHOWN IN PARENTHESES.
2. STRUCTURAL DESIGN HAS BEEN TAKEN INTO ACCOUNT IN CONVERTING REINFORCEMENT FROM METRIC TO ENGLISH SYSTEMS.

DATE	DESCRIPTION REVISIONS	REVISED	DRAWN	CHECKED
4/04/97	CHANGED MOUNT. CURB HEIGHT FROM 125 mm (5") TO 100 mm (4"). ADDED VARIOUS NOTES.	H.S.B.	T.T.N.	H.S.B.

STANDARD PLAN STD1

MISCELLANEOUS DETAILS FOR STREET CONSTRUCTION

DATE APRIL 04, 1997

CITY OF NEW ORLEANS
DEPARTMENT OF PUBLIC WORKS

APPROVED DAVID F. TERCUSON DIRECTOR

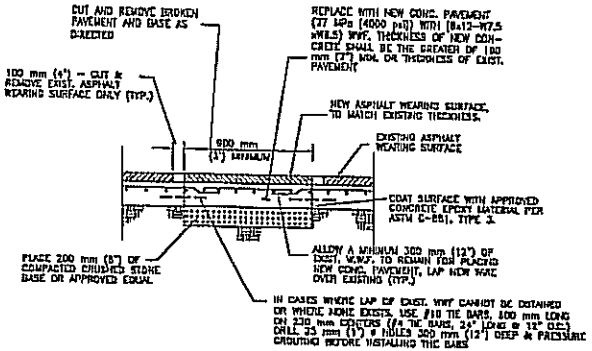
SCALE NONE

SHEET NUMBER 201

PARISH ORLEANS

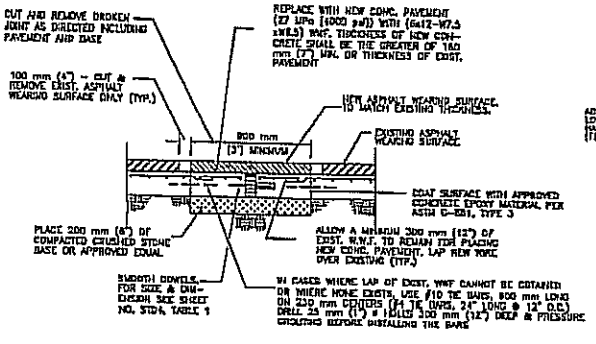
FEDERAL PROJECT

STATE PROJECT



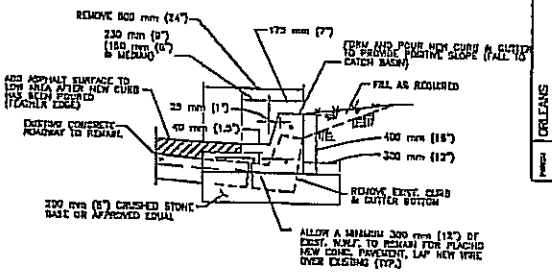
CONCRETE PAVEMENT REPAIR

N.T.S.



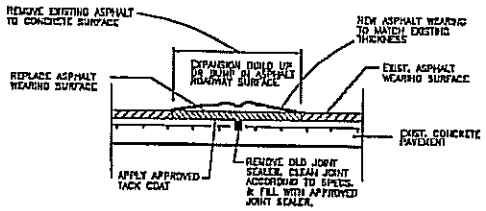
JOINT REPAIR

N.T.S.



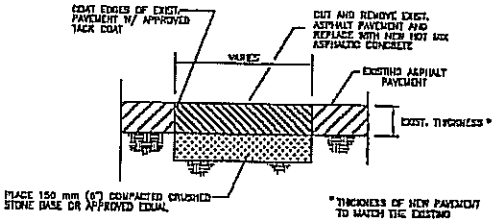
RECONSTRUCTION OF CURB AND GUTTERBOTTOM
BARRIER CURB

N.T.S.



JOINT RESEALING

N.T.S.

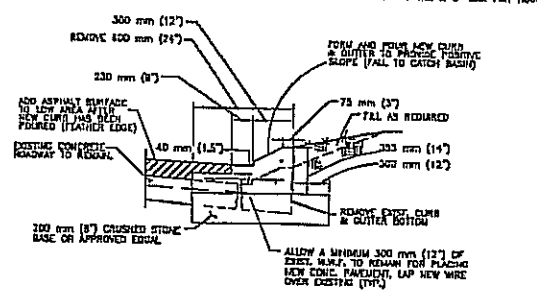


ASPHALT PAVEMENT REPAIR

N.T.S.

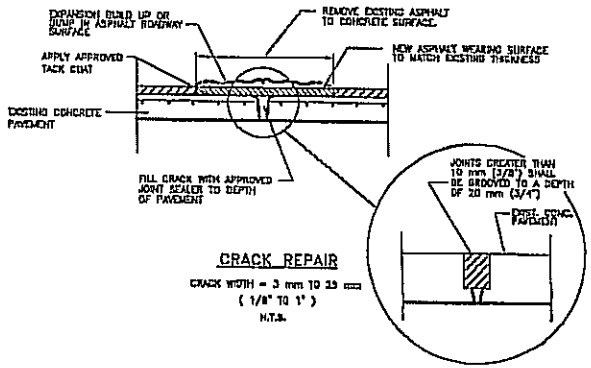
NOTES: (APPLIED TO MOUNTABLE AND BARRIER CURBS)

1. CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 27 MPa (4000 psi).
2. ALL RE-BARS SHOWN ARE # 10 SPACED @ 175 mm O. C. FOR LONGITUDINAL AND 115 mm O. C. FOR TRANSVERSE (# 4 @ 8" O. C. FOR LONG. & 5" O.C. FOR TRANSVERSE).



RECONSTRUCTION OF CURB AND GUTTERBOTTOM
MOUNTABLE CURB
(SEE STD1 FOR MORE DETAILS ON MOUNTABLE CURB)

N.T.S.



CRACK REPAIR

CRACK WIDTH = 3 mm TO 25 mm
(1/8" TO 1")

N.T.S.

GENERAL NOTES:

1. MEASUREMENTS AND UNITS IN ENGLISH SYSTEM ARE SHOWN IN PARENTHESES.

NO.	DESCRIPTION	DRAWN	DESIGNED	CHECKED	DATE
1/01/07	CHANGED MOUNT. CURB HEIGHT FROM 125 mm (5") TO 100 mm (4").	T.T.N.	T.T.N.	T.G.P.	
NO.	REVISIONS				

STANDARD PLAN STD2

MISCELLANEOUS DETAILS FOR STREET REHABILITATION

DATED APRIL 01, 1997

CITY OF NEW ORLEANS
DEPARTMENT OF PUBLIC WORKS

DRAWN T.T.N. CHECKED T.G.P.
DESIGN T.T.N. CHECKED T.G.P.
APPROVED DAVID F. TEROUTON
DIRECTOR

SCALE NONE

I-216

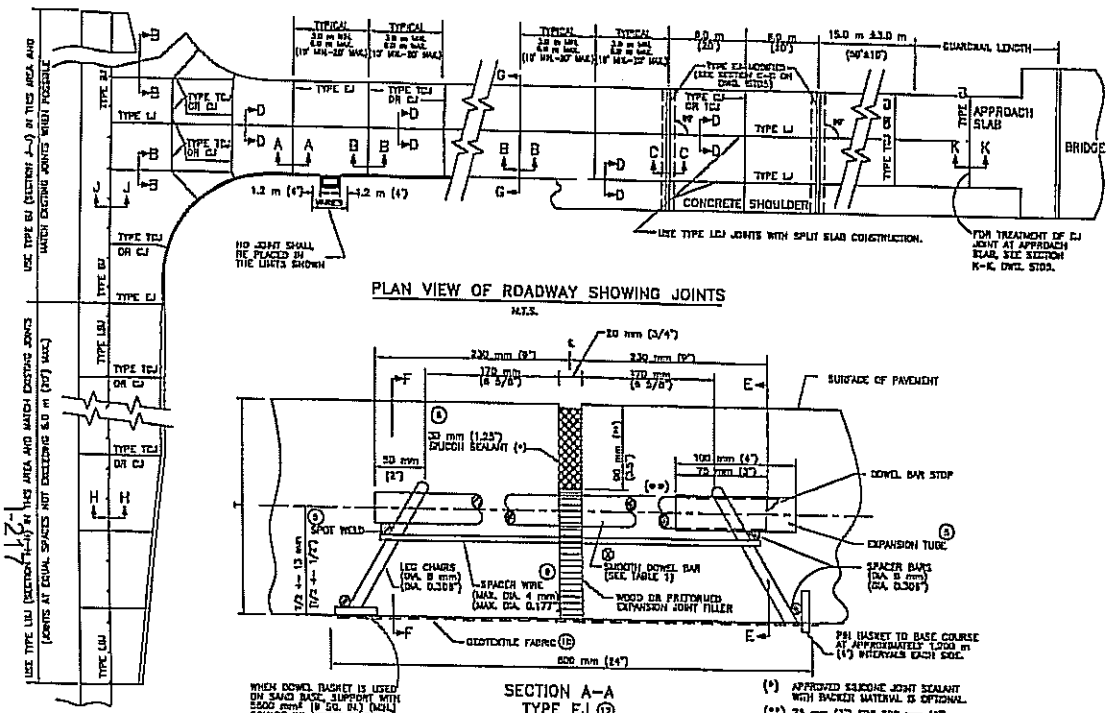


TABLE 1 "METRIC SYSTEM"

(ALL DIMENSIONS IN MILLIMETERS)

PAVEMENT THICKNESS T ⑨	SMOOTH DOWEL BARS ⑤ SIZE (DIA. IN.)	LENGTH	SPACING	DIST. TIE BARS ⑥ SIZE (DIA. IN.)	LENGTH	SPACING	NOMINAL DEPTH OF JOINT ⑧ TCJ & CJ 63 mm	LJ 65 mm	KEYWAY ⑨ A 63 mm	B 65 mm
180 OR LESS	25	460	300	15	600	600	65	65		
200	25	460	300	15	600	600	75	75	65	30
230	25	460	300	15	600	600	75	90	65	30
250	25	460	250	15	600	600	90	100	65	30
270	25	460	250	15	760	540	90	100	65	30
300	25	460	250	15	760	540	100	115	75	40
325	25	460	250	15	760	540	100	115	75	40
350	25	460	250	15	760	540	115	130	75	40

⑨ FOR CONC. SHOULDERS, " T " IS THE THICKNESS AT PAVEMENT EDGE.

TABLE 1 (ENGLISH UNITS)

(ALL DIMENSIONS IN INCHES)

PAVEMENT THICKNESS T ⑨	SMOOTH DOWEL BARS ⑤ SIZE	LENGTH	SPACING	DIST. TIE BARS ⑥ SIZE	LENGTH	SPACING	NOMINAL DEPTH OF JOINT ⑧ TCJ & CJ #3½"	LJ #3½"	KEYWAY ⑨ A #3½"	B #3½"
7 OR LESS	1	18	12	1/2	24	24	2-1/2	2-1/2		
8	1-1/4	18	12	1/2	24	24	3	3	2-1/2	1-1/4
9	1-1/4	18	12	1/2	24	24	3	3-1/2	2-1/2	1-1/4
10	1-1/2	18	12	1/2	24	24	3-1/2	4	2-1/2	1-1/4
11	1-1/2	18	12	5/8	30	24	3-1/2	4	2-1/2	1-1/4
12	1-1/2	18	12	5/8	30	24	4	4-1/2	3	1-1/2
13	1-1/2	18	12	5/8	30	24	4	4-1/2	3	1-1/2
14	1-1/2	18	12	5/8	30	24	4-1/2	5	3	1-1/2

⑨ FOR CONC. SHOULDERS, " T " IS THE THICKNESS AT PAVEMENT EDGE.

NOTES:

SHEET NUMBER 203

1. PAVEMENT EDGES SHALL BE SLIGHTLY ROUNDED TO APPROXIMATELY 3 mm (1/4").
2. ASPHALTIC CONCRETE JOINTS P.C.C.P. OR ASPHALTIC CONCRETE SHOULDER: THE ASPHALT JOINT SHALL BE SAW CUT AND CONSTRUCTED IN ACCORDANCE WITH SECTION I-L DWG. STD3.
3. FOR SECTIONS C-C, E-E, F-F, G-G, H-H, I-I, J-J, AND K-K SEE DRAWING STD 5.
4. ALL JOINTS ARE TO BE USED WHERE SHOWN ON THIS SHEET OR AS SHOWN ELSEWHERE ON THE PLANS OR AS OTHERWISE DIRECTED BY THE ENGINEER.
5. ON TYPE EJ JOINTS, SPOT WELD ALTERNATE ENDS OF DOWEL BARS TO DOWEL BASKETS AND PLACE EXPANSION TUBES ON FREE ENDS OF DOWEL BARS.
6. TYPE EJ JOINTS SHALL BE SEALED WITH PREFORMED ELASTOMERIC COMPRESSION JOINT SEALS CONFORMING TO SUBSECTION 1005.03 OF DOTD "LOUISIANA STANDARD SPECIFICATIONS FOR ROADS AND BRIDGES", LATEST EDITION. THE SEALS SHALL HAVE A NOMINAL WIDTH OF 30 mm (1-1/4") BEFORE COMPRESSION. JOINTS SHALL BE CLEANED PRIOR TO SEALING.
7. FOR DESIGN SPEEDS OF 72 Km/h (45 MPH) OR GREATER:
   A. TYPE LJ JOINTS SHALL BE SAW CUT AND CONSTRUCTED AS IN DETAIL "F". THE JOINT SHALL BE SAW CUT AND CLEANED PRIOR TO SEALING WITH A JOINT SEALANT CONFORMING TO SUBSECTION 1005.02(b) OR (c) OF THE AFOREMENTIONED DOTD SPECIFICATIONS.
   B. TYPE TCJ OR CJ SHALL BE SAW CUT AS SHOWN IN DETAIL "G" OR "D" AND TO THE DEPTH SHOWN IN TABLE 1. THE JOINT SHALL BE SAND BLASTED AND CLEANED IMMEDIATELY PRIOR TO SEALING. THE INITIAL CUT SHALL BE MADE WITH 3 mm (1/8") MINIMUM BLADE. THE SEALANT SHALL BE A PREFORMED ELASTOMERIC SEAL IN ACCORDANCE WITH SUBSECTION 1005.03 OR A SILICONE SEALANT IN ACCORDANCE WITH SUBSECTION 1005.02(c) OF THE SAID DOTD SPECIFICATIONS.
8. FOR DESIGN SPEEDS OF LESS THAN 72 Km/h (45 MPH):
   A. TYPE LJ JOINTS SHALL BE SAW CUT AS DESCRIBED IN 7(A).
   B. TYPE TCJ OR CJ SHALL BE CONSTRUCTED AS FOLLOWS:
      (1) CONSTRUCTED AS DESCRIBED IN 7(B).
      (2) WITH A REMOVABLE FORMING DEVICE AS SHOWN IN DETAILS "A" AND "B". THE JOINT SHALL BE SAND BLASTED AND CLEANED IMMEDIATELY PRIOR TO SEALING AND MAY REQUIRED SAWING TO ACHIEVE PROPER RESERVOIR DIMENSIONS.
      (3) WITH A COMBINATION JOINT FORMER/SEALER AS SHOWN IN DETAIL "C". THE SEALANT SHALL CONFORM TO SUBSECTION 1005.04 AND BE INSTALLED IN ACCORDANCE WITH SUBSECTION 601.05(e)(3) OF THE SAID DOTD SPECIFICATIONS AND NO ADDITIONAL SEALANT IS REQUIRED.
9. EXCEPT AS NOTED BELOW, DOWEL BARS & TIE BARS SHALL BE HELD IN PLACE BY SUPPORTS SIMILAR TO THE ONES SHOWN, OR APPROVED EQUALS. APPROVED MECHANICAL PLACEMENT OF DOWEL BARS AND TIE BARS WILL BE ALLOWED WITH ALL PAVING METHODS. WHEN DOWEL BAR BASKETS ARE USED, APPROXIMATELY THE CENTER 175 mm (7") OF SPACER WIRES, THAT SPANS ACROSS THE JOINT, SHALL BE CLIPPED AND REMOVED AFTER STAKING BASKETS IN PLACE.
10. INSTALL GEOTEXTILE FABRIC UNDER ALL TCJ, CJ, AND LJ JOINTS WHEN CONCRETE PAVEMENT IS PLACED ON UNSTABILIZED OR UNTREATED BASE COURSES OR SUBBASES. WHEN DOWEL BARS ARE MECHANICALLY IMPLANTED, THE GEOTEXTILE FABRIC SHALL BE ANCHORED TO THE BASE COURSE WITH PINS.
11. WHEN CONSTRUCTING CONCRETE CURB AND GUTTER ADJACENT TO NEW P.C.C. PAVEMENT, USE TYPE LCJ JOINT. WHEN ADJACENT TO EXISTING P.C.C. PAVEMENT, USE TYPE LWJ JOINT. THE FIRST LOAD TRANSFER DEVICE SHALL BE INSTALLED 450 mm (18") FROM THE PAVEMENT EDGE.
12. TRANSVERSE EXPANSION JOINTS SHALL NOT BE USED FOR CONSTRUCTION JOINTS.
13. CONCRETE SHOULDERS:
   a. CONSTRUCT TCJ JOINTS IN ACCORDANCE WITH SECTION B-B.
   b. CONSTRUCT LJ JOINTS IN ACCORDANCE WITH TYPE LCJ DETAIL ON THIS SHEET AND LJ JOINTS IN ACCORDANCE WITH SECTION D-D.
   c. USE THE MAXIMUM SHOULDER THICKNESS WHEN DETERMINING DOWEL BAR AND TIE BAR SIZES IN TABLE 1.
   d. WHEN SKEWED JOINTS ARE USED ON MAINLINE PAVING THE SHOULDER TCJ JOINTS MAY BE SKEWED OR CONSTRUCTED AT 90°.
   e. SHOULDER JOINTS AND JOINT MATERIALS WILL MATCH THE MAINLINE.
   f. HEIGHT OF DOWEL BASKETS WILL BE BASED ON THE THINNER SHOULDER THICKNESS. ALSO VARYING HEIGHT DOWEL BASKETS WILL BE ALLOWED.
14. TIE BARS SHALL NOT BE PLACED WITHIN 450 mm (18") OF CONTRACTION OR EXPANSION JOINTS.

GENERAL NOTES:

1. MEASUREMENTS & UNITS IN ENGLISH SYSTEM ARE SHOWN IN PARENTHESES.
2. STRUCTURAL DESIGN HAS BEEN TAKEN INTO ACCOUNT IN CONVERTING TIE BARS AND DOWELS FROM METRIC TO ENGLISH SYSTEMS.

DATE	DESCRIPTION REVISIONS	T.T.H. DESIGNED	T.T.H. DETAILED	H.D.P. C.M.P. CHECKED
4/04/97	MODIFIED TABLE 1 & NOTES, ELIMINATED KEYWAY			
	FOR T < 200 mm (8"), MADE VARIOUS CHANGES	T.T.H.	T.T.H.	H.D.P. C.M.P.

PARISH: ORLEANS
FEDERAL PROJECT:
STATE PROJECT:

STANDARD PLAN STD4

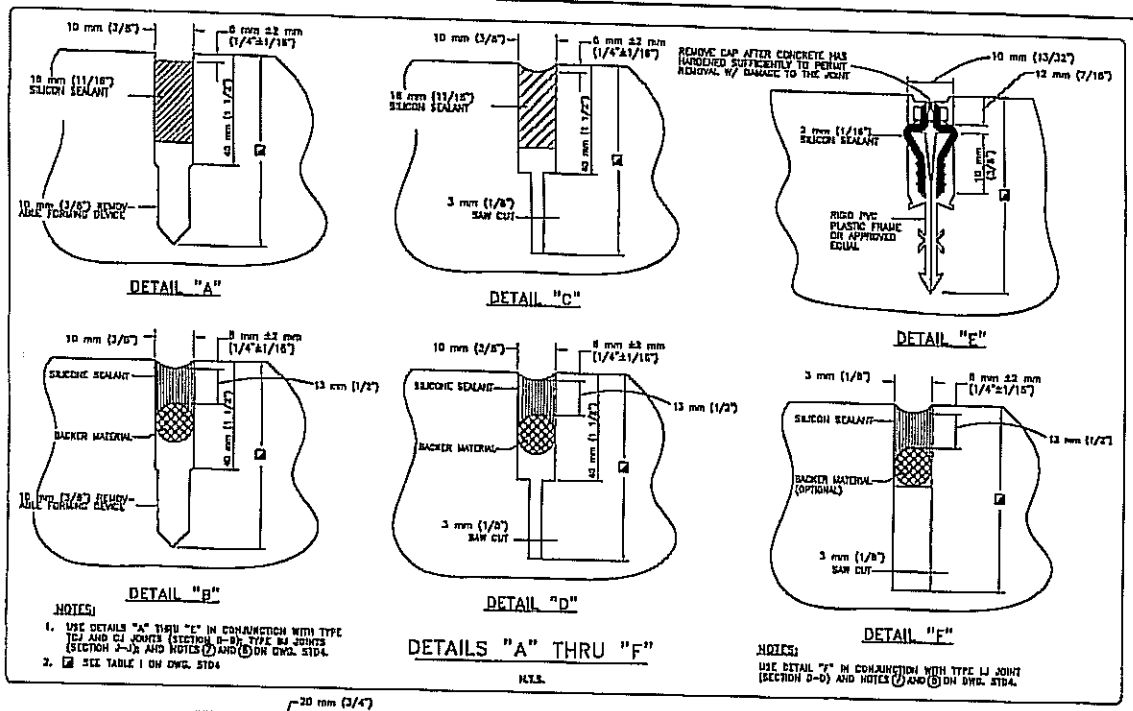
PORTLAND CEMENT CONCRETE PAVEMENT
TYPICAL PLAN AND SECTIONS

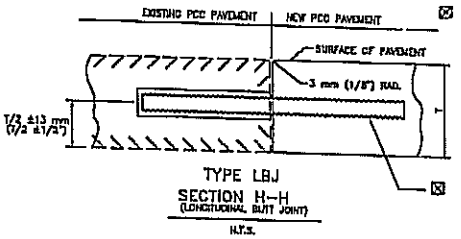
DATE APRIL 04, 1997

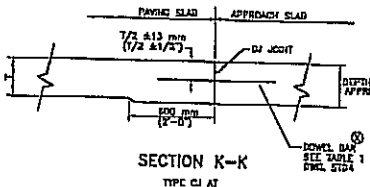
CITY OF NEW ORLEANS
DEPARTMENT OF PUBLIC WORKS

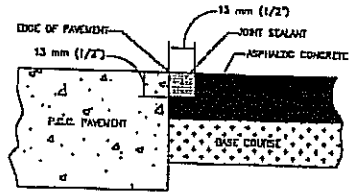
APPROVED: DAVID F. FOERSTER, DIRECTOR

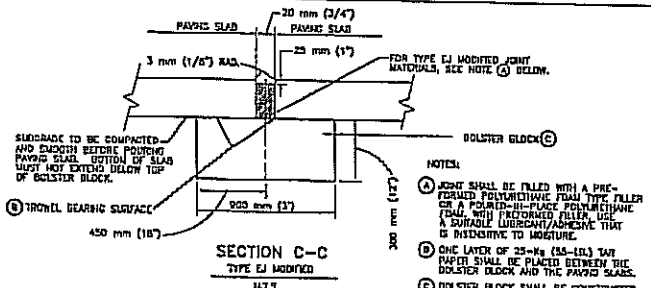
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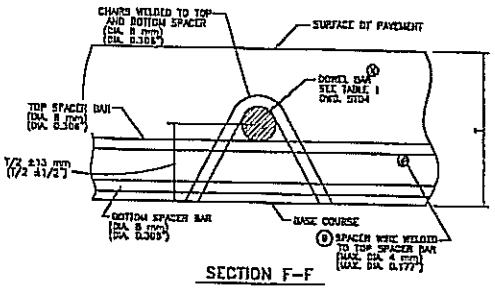


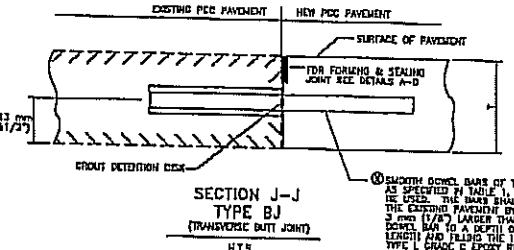


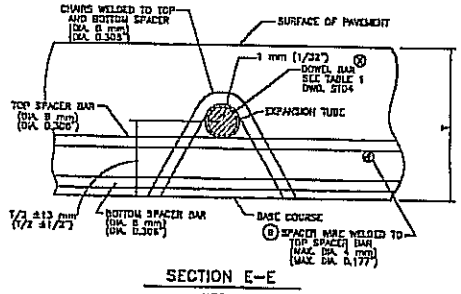


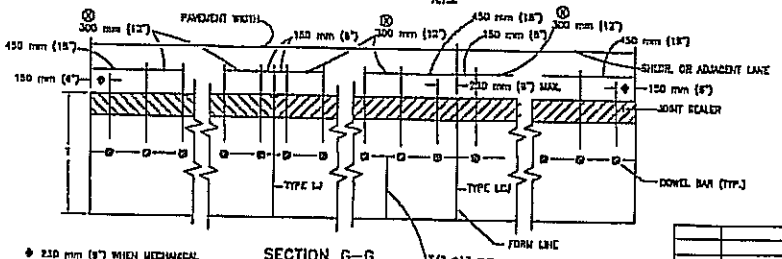












GENERAL NOTES:
1. MEASUREMENTS & UNITS IN ENGLISH SYSTEM ARE SHOWN IN PARENTHESES.
2. STRUCTURAL DESIGN HAS BEEN TAKEN INTO ACCOUNT IN CONVERTING TIE BARS AND DOWELS FROM METRIC TO ENGLISH SYSTEMS.

6/4/97	ADDED DETAIL "F" & SECTION I-I, MODIFIED NOTES AND VARIOUS JOINT THICKNESS & TYPE.	T.T.N.	T.T.N.	
DATE	DESCRIPTION	DESIGNED	DETAILED	CHECKED
REVISIONS				

PARISH: ORLEANS
FEDERAL PROJECT
STATE PROJECT

STANDARD PLAN STD5

PORTLAND CEMENT CONCRETE PAVEMENT

TYPICAL SECTIONS & DETAILS

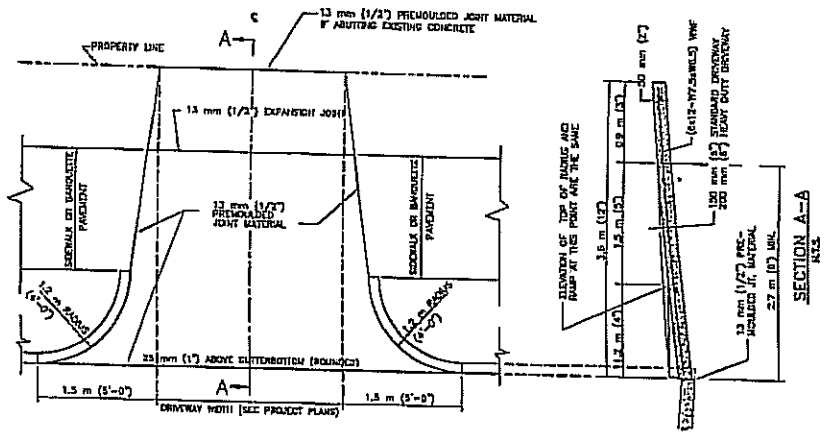
DATE APRIL 04, 1997

CITY OF NEW ORLEANS
DEPARTMENT OF PUBLIC WORKS

DIRECTOR: [illegible]
APPROVED: DAVID C. STRAUSS
SCALE: NONE

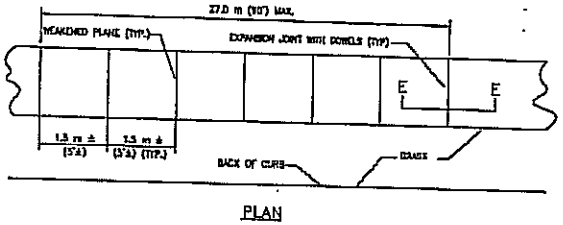
SHEET NUMBER 204

I-218

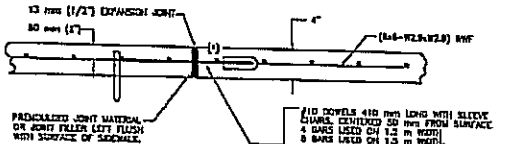


DETAIL OF STANDARD DRIVEWAY FOR CONCRETE VERTICAL CURB

N.T.S.



PLAN

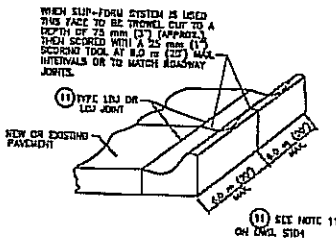


SECTION E-E

(1) THIS HALF OF DOWEL SHALL BE GREASED

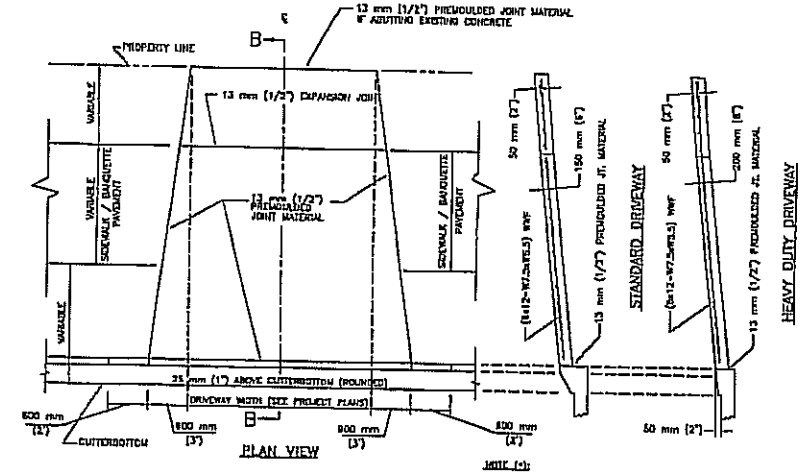
PORTLAND CEMENT CONCRETE SIDEWALK PAVEMENT

N.T.S.



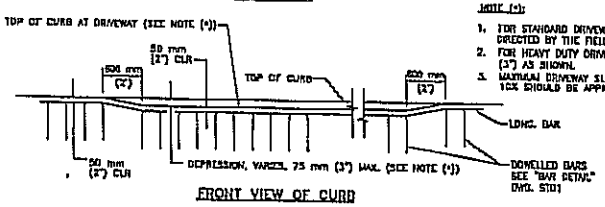
DETAIL SHOWING JOINTS IN CONCRETE CURB AND GUTTER

N.T.S.



PLAN VIEW

SECTION B-B
STANDARD & HEAVY DUTY DRIVEWAYS
N.T.S.

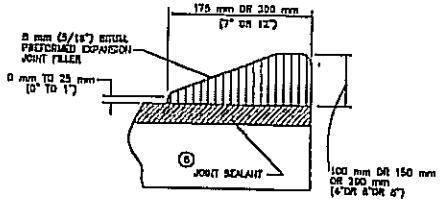


FRONT VIEW OF CURB

NOTE (*):
1. FOR STANDARD DRIVEWAYS: DEPRESS ONLY WHEN DIRECTED BY THE FIELD ENGINEER.
2. FOR HEAVY DUTY DRIVEWAYS: DEPRESS 75 mm (3") AS SHOWN.
3. MAXIMUM DRIVEWAY SLOPE IS 10%. ANYTHING EXCEEDING 10% SHOULD BE APPROVED BY THE DEPARTMENT.

DETAIL OF STANDARD & HEAVY DUTY DRIVEWAYS FOR MOUNTABLE CONCRETE CURB

N.T.S.



SEE (6) NOTE 6 ON ENGL. STD4

NOTE:
WHEN CURB IS POURED MONOLITHICALLY WITH PAVEMENT, THE HAZARDOUS PRE-FORMED EXPANSION JOINT-FILLER SHALL EXTEND TO BOTTOM OF JOINT INSERT.

JOINT FILLER DETAIL FOR INTEGRAL CONCRETE CURB (MOUNTABLE OR BARRIER TYPE)

(MOUNTABLE CURB IS SHOWN)

N.T.S.

GENERAL NOTES:
1. MEASUREMENTS & UNITS IN ENGLISH SYSTEM ARE SHOWN IN PARENTHESES.
2. STRUCTURAL DESIGN HAS BEEN TAKEN INTO ACCOUNT IN CONVERTING DOWELS FROM METRIC TO ENGLISH SYSTEMS.

DATE	DESCRIPTION REVISIONS	T.T.H. DESIGN	T.T.H. DETAILED	T.T.H. / M.P. CHECKED
4/4/97	DELETED DETAIL "F", "G" & "I", MODIFIED MOUNT. CURB HEIGHT AND VARIOUS NOTES.			

STANDARD PLAN	STD6
PORTLAND CEMENT CONCRETE PAVEMENT MISCELLANEOUS DETAILS	
DATE APRIL 04, 1997	
CITY OF NEW ORLEANS DEPARTMENT OF PUBLIC WORKS	
APPROVED DAVID F. JOHNSON DIRECTOR	SCALE NONE

SHEET NUMBER	205
PARISH	ORLEANS
FEDERAL PROJECT	
STATE PROJECT	

I-219

I. TRAFFIC CONTROL DEVICES

THE FOLLOWING ARE FOUR TYPES OF TRAFFIC CONTROL DEVICES USED IN WORK ZONE TRAFFIC CONTROL:

- SIGNS
- CHANNELIZING DEVICES
- LIGHTING DEVICES
- PAVEMENT MARKINGS

A. SIGNS

SIGNS USED IN WORK ZONE TRAFFIC CONTROL ARE CLASSIFIED AS REGULATORY, GUIDE OR WARNING. REGULATORY SIGNS IMPOSE LEGAL RESTRICTIONS AND MAY NOT BE USED WITHOUT PERMISSION. GUIDE SIGNS CONSTANTLY SHOW DESTINATIONS, DIRECTIONS, AND DISTANCES. WARNING SIGNS GIVE NOTICE OF CONDITIONS THAT ARE POTENTIALLY HAZARDOUS TO TRAFFIC.

WARNING SIGNS – CONSTRUCTION AND MAINTENANCE WARNING SIGNS ARE USED EXTENSIVELY IN STREET AND HIGHWAY WORK ZONES. THESE SIGNS ARE NORMALLY DIAMOND SHAPED, HAVING A BLACK SYMBOL OR MESSAGE ON AN ORANGE BACKGROUND. AS A GENERAL RULE THESE SIGNS ARE LOCATED ON THE RIGHT-HAND SIDE OF THE STREET OR HIGHWAY.

SIZE – THE STANDARD SIZE FOR ADVANCE WARNING SIGNS IN WORK ZONE IS GENERALLY 1.2 METERS BY 1.2 METERS (48" x 48"). WHERE SPEEDS AND VOLUMES ARE RELATIVELY LOW, A MINIMUM SIZE OF 0.9 METERS BY 0.8 METERS (36" X 36") MAY BE USED. (SEE PART VI OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD) FOR SPECIFIC SIGN SIZES).

MOUNTING – STANDARDS FOR HEIGHT AND LATERAL CLEARANCE OF ROADSIDE SIGNS ARE INCLUDED IN PART VI OF THE MUTCD. SIGNS MOUNTED ON BARRICADES, OR TEMPORARY SUPPORTS, MAY BE AT LOWER HEIGHTS BUT THE BOTTOM OF THE SIGN SHALL BE NOT LESS THAN 0.3 METER (12") ABOVE THE PAVEMENT ELEVATION. HIGHER MOUNTING HEIGHTS ARE, HOWEVER, DESIRABLE.

ILLUMINATION AND RETROREFLECTORIZATION – ALL SIGNS USED DURING THE HOURS OF DARKNESS SHALL BE MADE OF RETROREFLECTIVE MATERIAL OR ILLUMINATED. (STREET OR HIGHWAY LIGHTING IS NOT REGARDED AS MEETING THE REQUIREMENTS FOR SIGN ILLUMINATION.)

SIGN SPACING – SEE TABLE 1

TABLE 1

SIGN SPACING In meters (feet)	AREA/ROAD TYPE		
	TWO LANE URBAN	STANDARD	EXPWY./ FREEWAY
A	90 (300)	150 (500)	300 (1,000)
B	90 (300)	150 (500)	500 (1,600)
C	90 (300)	150 (500)	800 (2,600)

B. CHANNELIZING DEVICES

CHANNELIZING DEVICES ARE USED TO WARN AND ALERT DRIVERS OF HAZARDS IN WORK ZONES, PROTECT WORKERS, AND GUIDE AND DIRECT DRIVERS PAST THE HAZARDS. CHANNELIZING DEVICES INCLUDE CONES, TUBULAR MARKERS, VERTICAL PANELS, DRUMS, BARRICADES, AND BARRIERS. THE MOST COMMON CHANNELIZING DEVICE USED IN TEMPORARY WORK ZONES IS THE TRAFFIC CONE.

SPACING – CHANNELIZING DEVICES SHALL BE SPACED SO THAT THEY MAKE IT APPARENT THAT THE ROADWAY OR WORK AREA IS CLOSED TO TRAFFIC. THERE ARE SEVERAL RULES OF THUMB THAT CAN BE USED TO GUIDE YOU IN THE PROPER SPACING OF CHANNELIZING DEVICES.

1. THE MAXIMUM SPACING BETWEEN DEVICES IN A TAPER SHALL BE A DISTANCE, IN METERS (FEET), WHICH IS APPROXIMATELY EQUAL TO 2DS (ENGLISH UNITS: 10DS) OF THE SPEED LIMIT IN Km/h (MPH). FOR EXAMPLE, IF THE TAPER IS ON A STREET WITH A 80 Km/h (50 MPH) SPEED LIMIT, THE DEVICE SHALL BE SPACED AT ABOUT 18 METERS (50').

2. ALL TAPERS SHALL BE MADE UP OF AT LEAST 5 CHANNELIZING DEVICES.

3. THE SPACING BETWEEN DEVICES IN A BUFFER OR WORK AREA MAY BE UP TO A DISTANCE, IN METERS (FEET), OF 4DS (ENGLISH UNITS: 20DS) OF THE SPEED LIMIT IN Km/h (MPH). FOR EXAMPLE, IF THE STREET HAS A SPEED LIMIT OF 50 Km/h (30 MPH), THE DEVICES IN THE BUFFER AND WORK AREA MAY BE SPACED UP TO 20 METERS (60').

4. IN URBAN AREAS, SHORTER SPACINGS BETWEEN DEVICES IN THE BUFFER AND WORK AREAS SHALL BE USED. FOR EXAMPLE, THE SPACING USED IN TAPERS SHALL ALSO BE USED IN BUFFERS AND WORK AREAS.

C. LIGHTING DEVICES

LIGHTING DEVICES FOR SHORT TERM CONSTRUCTION AND MAINTENANCE WORK ZONES ARE DESIGNED TO SUPPLEMENT THE SIGNS AND CHANNELIZING DEVICES USED IN THESE ZONES. TYPICAL LIGHTING DEVICES INCLUDE WARNING LIGHTS, FLASHING VEHICLE LIGHTS, AND FLASHING ARROW PANELS.

WARNING LIGHTS – THE PRINCIPAL TYPES AND USE OF WARNING LIGHTS ARE:

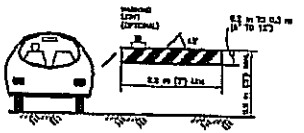
1. LOW INTENSITY FLASHING LIGHTS (TYPE A) – USED TO WARN OF AN ISOLATED HAZARD AT NIGHT.

2. HIGH INTENSITY FLASHING LIGHTS (TYPE B) – NORMALLY MOUNTED ON ADVANCED WARNING SIGNS TO DRAW ATTENTION TO A HAZARD BOTH DAY AND NIGHT.

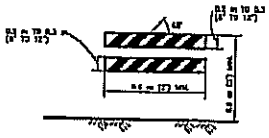
3. LOW INTENSITY STEADY-BURN LIGHTS (TYPE C) – USED IN A SERIES TO DELINEATE THE EDGE OF THE TRAVELWAY AND CHANNELIZE TRAFFIC AT NIGHT.

TABLE 2

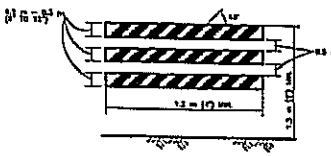
FLASHING ARROW PANELS			
AREA/ROAD TYPE	MINIMUM SIZE	MIN. NUMBER OF LAMPS	MIN. LEGIBILITY DISTANCE
URBAN	0.6 m x 1.2 m (24" x 48")	13	0.8 Km (1/2 MILE)
STANDARD	0.75 m x 1.5 m (30" x 60")	13	1.2 Km (3/4 MILE)
EXPWY. FREEWAY	1.2 m x 2.4 m (48" x 96")	15	1.6 Km (1 MILE)



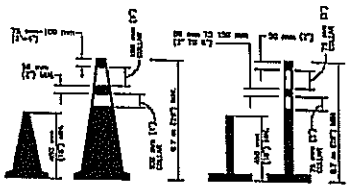
TYPE I BARRICADE



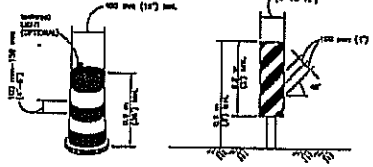
TYPE II BARRICADE



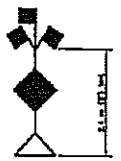
TYPE III BARRICADE



CONES TUBULAR MARKERS



DRUM VERTICAL PANEL



HIGH LEVEL WARNING DEVICE (FLAG TREE)

NOTES:

1. STRIPES ON BARRICADE RAILS SLOPE DOWNWARD AT AN ANGLE OF 45° IN THE DIRECTION TRAFFIC IS TO PASS.
2. FLASHING OR STEADY BURN WARNING LIGHTS SHALL BE USED ON BARRICADES, PANELS, AND DRUMS AS NEEDED.

D. PAVEMENT MARKINGS

PAVEMENT MARKINGS INCLUDE STRIPINGS AND RAISED MARKERS. PAVEMENT MARKINGS SHALL BE RETROREFLECTORIZED IN ORDER TO BE VISIBLE IN DARKNESS. THEY ARE TO BE USED ALONE OR TO SUPPLEMENT THE REGULATIONS OR THE WARNINGS OF OTHER DEVICES.

TYPES OF PAVEMENT STRIPES – SEE TABLE 3

II. FIVE PARTS OF A TRAFFIC CONTROL ZONE

THE TRAFFIC CONTROL ZONE IS THE DISTANCE BETWEEN THE FIRST ADVANCE WARNING SIGN AND THE POINT BEYOND THE WORK AREA WHERE TRAFFIC IS NO LONGER AFFECTED. FIVE PARTS OF A TRAFFIC CONTROL ZONE INCLUDE:

1. ADVANCED WARNING AREA – TELLS TRAFFIC WHAT TO EXPECT AHEAD.
2. TRANSITION AREA – MOVES TRAFFIC OUT OF ITS NORMAL PATH.
3. BUFFER AREA – PROVIDES PROTECTION FOR TRAFFIC AND WORKERS.
4. WORK AREA.
5. TERMINATION AREA – LETS TRAFFIC RESUME NORMAL DRIVING.

TABLE 4

TAPER LENGTH CRITERIA FOR WORK ZONE

TYPE OF TAPER	TAPER LENGTH
MERGING TAPER	1 L MIN.
SHIFTING TAPER	1/2 L MIN.
SHOULDER TAPER	1/3 L MIN.
TWO-WAY TRAFFIC TAPER	30 m (100') MAX.
DOWNSTREAM TAPERS (USE IS OPTIONAL)	30 m (100') PER LANE

FORMULAS FOR "L"

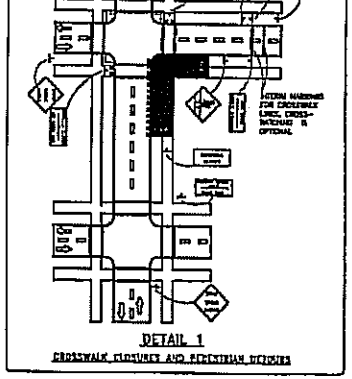
SPEED LIMIT	FORMULA
80 Km/h OR LESS (40 MPH OR LESS)	$L = 0.045WS^2$ ($L = WS^2/80$)
70 Km/h OR GREATER (45 MPH OR GREATER)	$L = 0.85WS$ ($L = WS/1$)

L = TAPER LENGTH IN METERS (FEET)
W = WIDTH OF OFFSET IN METERS (FEET)
S = POSTED SPEED OR OFF-PEEK 85 PERCENTILE SPEED IN Km/h (MPH).

III. TYPICAL APPLICATION DIAGRAMS

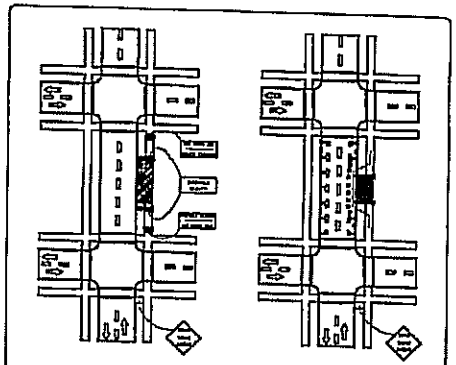
THE DIAGRAMS SHOWN ON THESE PLANS ARE EXAMPLES OF THE APPLICATION OF PRINCIPLES AND PROCEDURES FOR SAFE AND EFFICIENT TRAFFIC CONTROL IN WORK ZONES BUT ARE NOT INTENDED TO BE STANDARDS. IT IS NOT POSSIBLE TO INCLUDE ILLUSTRATIONS TO COVER EVERY SITUATION WHICH WILL REQUIRE WORK AREA PROTECTION. THESE TYPICAL LAYOUTS ARE NOT INTENDED AS A SUBSTITUTE FOR ENGINEERING JUDGEMENT AND SHALL BE ALTERED TO FIT THE CONDITIONS OF A PARTICULAR SITE.

IN ADDITION TO TYPICAL DIAGRAMS, TABLES ARE PRESENTED WHICH PROVIDE INFORMATION ON TAPER LENGTHS AND BUFFER SPACES. THE INFORMATION PRESENTED ARE MINIMUM FOR STANDARD HIGHWAY CONDITIONS. FOR URBAN CONDITIONS, SHORTER SPACINGS (WHICH ARE INCREMENTED) SHALL BE USED. EXPRESSWAY AND FREEWAY CONDITIONS WILL REQUIRE LONGER DISTANCES. FOR FURTHER INFORMATION, REFER TO PART VI OF THE "MANUAL ON THE UNIFORM TRAFFIC CONTROL DEVICES".



DETAIL 1

CROSSWALK CLOSURES AND PEDESTRIAN DETOURS



PEDESTRIAN DETOUR SIDEWALK PROVIDED

DETAIL 2

SIDEWALK CLOSURE AND BYPASS WALKWAY

TABLE 3

DESCRIPTION	COLOR	WIDTH	APPLICATION
SINGLE BROKEN	WHITE	100 mm (4")	SEPARATION OF LANES ON WHICH TRAVEL IS IN THE SAME DIRECTION, WHICH CROSSING FROM ONE TO THE OTHER PERMITTED; L = L, LANE LINES ON MAINLANE ROADWAYS.
	YELLOW	100 mm (4")	SEPARATION OF LANES ON WHICH TRAVEL IS IN OPPOSITE DIRECTION, AND WHERE OVERTAKING WITH CARE IS PERMITTED; L = L, CENTERLINE ON 2-LANE, 2-WAY ROADWAYS.
SINGLE SOLID	WHITE	100 mm (4")	SEPARATION OF LANES, OR OF LANE AND SHOULDER, WHERE LANE CHANGING IS DISCOURAGED; L = L, LANE LINES AT INTERSECTION APPROACHES, RIGHT EDGE STRIPES.
		150 mm (6")	LANE LINES SEPARATING A MOTOR VEHICLE LANE FROM A BIKE LANE.
		200 mm (8")	DELINEATION OF LOCATIONS WHERE CROSSING IS STRONGLY DISCOURAGED; L = L, SEPARATION OF SPECIAL TURN LANES FROM THROUGH LANES, GORE AREAS AT RAMP TERMINALS.
	YELLOW	100 mm (4")	DELINEATION OF LEFT EDGE LINES ON DIVIDED HIGHWAYS, ONE-WAY ROADS AND RAMPS.
DOUBLE YELLOW	WHITE	100-75-100 (4-3-4") (*)	SEPARATION OF LANES ON WHICH TRAVEL IS IN THE SAME DIRECTION, WITH CROSSING FROM ONE SIDE TO THE OTHER PROHIBITED; L = L, CHANNELIZATION IN ADVANCE OF OBSTRUCTIONS WHICH MAY BE PASSED ON EITHER SIDE.
	YELLOW	100-75-100 (4-3-4") (*)	SEPARATION OF LANES ON WHICH TRAVEL IS IN OPPOSITE DIRECTIONS, WHERE OVERTAKING IS PROHIBITED IN BOTH DIRECTIONS. LEFT TURN MANEUVERS ACROSS THIS MARKING ARE PERMITTED. ALSO USED IN ADVANCE OF OBSTRUCTIONS WHICH MAY BE PASSED ONLY ON THE RIGHT SIDE.
SOLID PLUS BROKEN	YELLOW	100-75-100 (4-3-4") (*)	SEPARATION OF LANES ON WHICH TRAVEL IS IN OPPOSITE DIRECTIONS, WHERE OVERTAKING IS PERMITTED WITH CARE FOR TRAFFIC ADJACENT TO THE BROKEN LINE, BUT PROHIBITED FOR TRAFFIC ADJACENT TO SOLID LINE. USED ON 5-WAY ROADWAYS WITH 2 OR 3 LANES. ALSO USED TO DELINEATE EDGES OF A 3-WAY LEFT TURN LANE – SOLID LINES ON THE OUTSIDE, BROKEN LINES ON THE INSIDE.
DOUBLE BROKEN	YELLOW	100-75-100 (4-3-4") (*)	DELINEATES THE EDGES OF REVERSIBLE LANES.
SINGLE DOTTED	EITHER	100 mm (4")	EXTENSION OF LANE LINES THROUGH INTERSECTIONS. COLOR SAME AS THAT OF LINE BEING EXTENDED. ALSO USED TO EXTEND RIGHT EDGE LINE OF FREEWAY SHOULDER LANES THROUGH OFF-RAMP DIVERGING AREAS IN PROBLEM LOCATIONS.
	WHITE	200 mm (8")	SEPARATION OF THROUGH LANE AND AUXILIARY LANE OR DROPPED LANE.
TRANSVERSE	WHITE	300 mm (12")	LANE LINES OR STOP BARS; ALSO CROSSWALK EDGE LINES (MIN. 1.8 METERS (6') APART) WHICH NOT IN THE VICINITY OF SCHOOL GROUNDS.
DIAGONAL	WHITE	300 mm (12")	CROSSHATCH MARKINGS, PLACED AT AN ANGLE OF 45°, AT VARYING DISTANCE APART, ON SHOULDERS OR CHANNELIZATION ISLANDS TO ADD EMPHASIS TO THESE ROADWAY FEATURES.

(*) 100-75-100 (4-3-4") INDICATES TYPICAL WIDTH IN MILLIMETERS (INCHES) OF STRIPES AND GAP BETWEEN THEM. THIS SPACING MAY VARY.

GENERAL NOTES:

1. MEASUREMENTS & UNITS IN ENGLISH SYSTEM ARE SHOWN IN PARENTHESES.
2. FOR LEGEND AND GENERAL NOTES, SEE DRAWING ST01.

REVISIONS				
DATE	DESCRIPTION	STARTED	COMPLETED	DEPT. OF PUBLIC WORKS APPROVAL
4/4/97	ADDED GENERAL NOTES	T.T.H.	T.T.H.	

STANDARD PLAN STD8

TYPICAL CONSTRUCTION ZONE MINIMUM TRAFFIC CONTROL LAYOUT

DATE APRIL 04, 1997

CITY OF NEW ORLEANS
DEPARTMENT OF PUBLIC WORKS

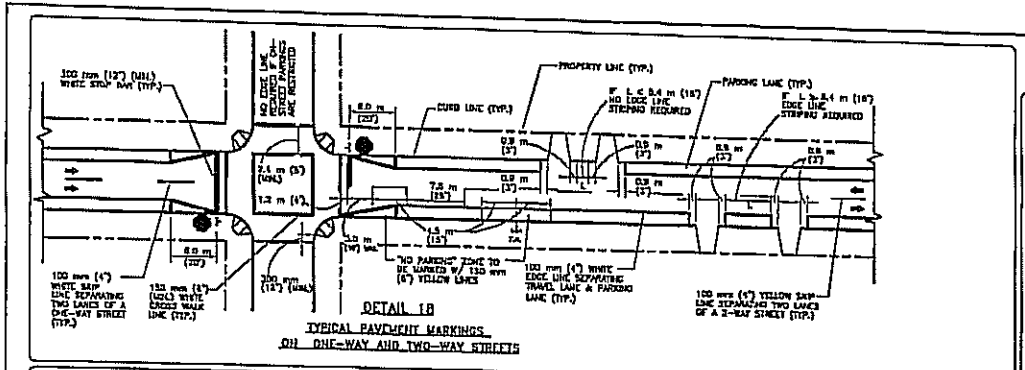
APPROVED DAVID F. FERGUSON DIRECTOR

SCALE NONE

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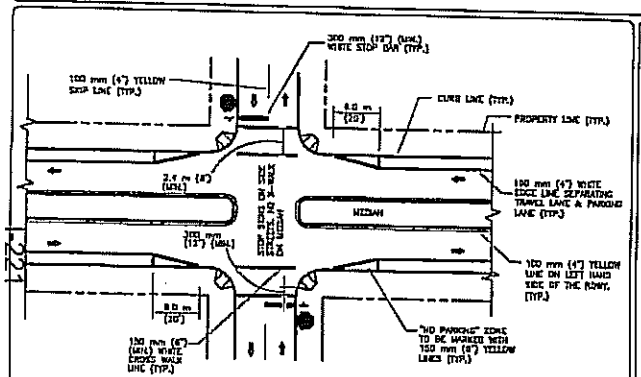
ORLEANS

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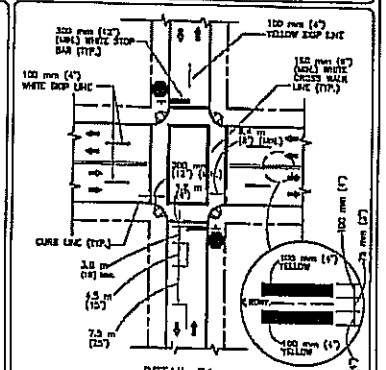
DETAIL 18

TYPICAL PAVEMENT MARKINGS ON ONE-WAY AND TWO-WAY STREETS



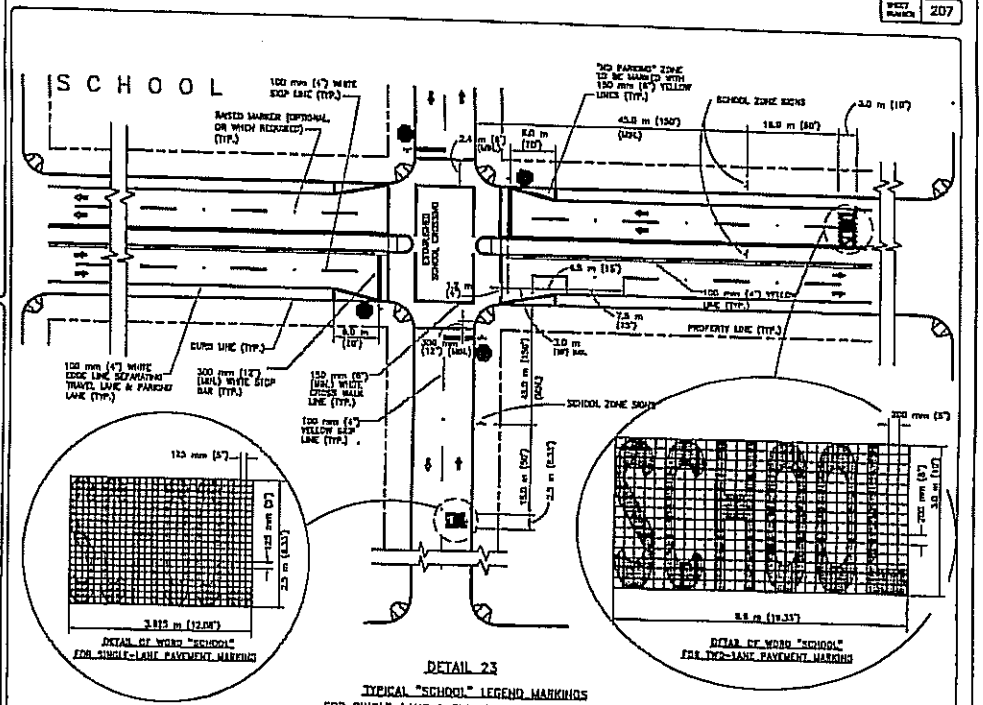
DETAIL 19

TYPICAL PAVEMENT MARKINGS ON A DIVIDED STREET WITH ONE TRAFFIC LANE AND PARKING ON EACH SIDE



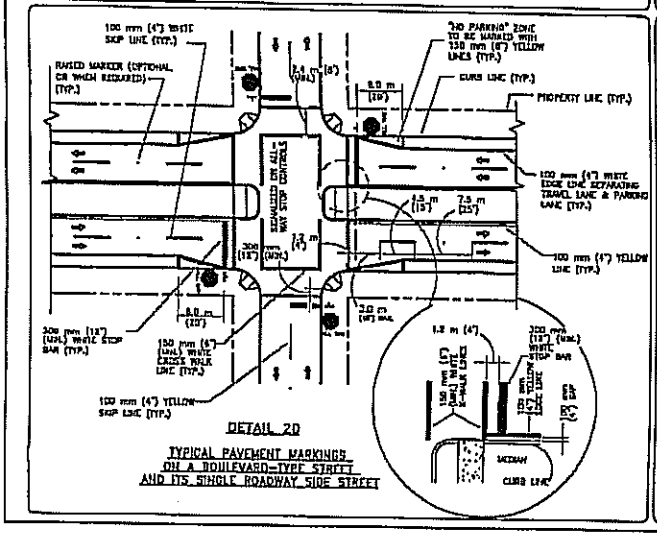
DETAIL 21

TYPICAL PAVEMENT MARKINGS ON A MAJOR FOUR-LANE STREET WHICH INTERSECTS A MINOR SIDE-STREET CONTROLLED BY STOP SIGNS



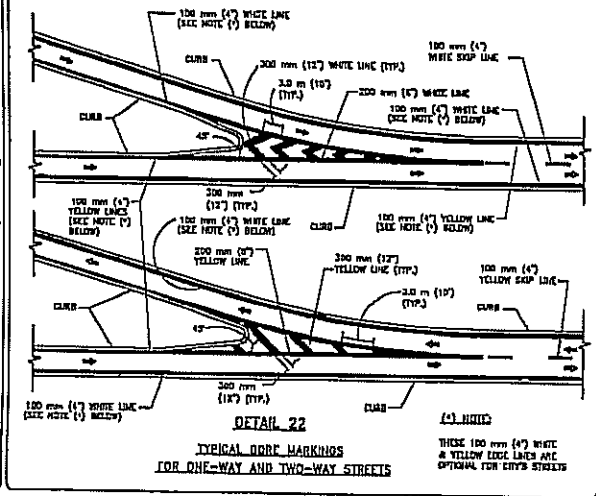
DETAIL 23

TYPICAL "SCHOOL" LEGEND MARKINGS FOR SINGLE-LANE & TWO-LANE CONFIGURATIONS



DETAIL 20

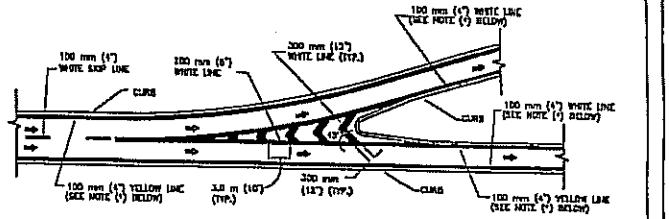
TYPICAL PAVEMENT MARKINGS ON A BOULEVARD-TYPE STREET AND ITS SINGLE ROADWAY SIDE STREET



DETAIL 22

TYPICAL CURB MARKINGS FOR ONE-WAY AND TWO-WAY STREETS

(*) NOTE:
THESE 100 mm (4") WHITE & YELLOW EDGE LINES ARE OPTIONAL FOR CITY'S STREETS



NOTE:
FOR LEGEND AND GENERAL NOTES, SEE DWG. STD9

FROM	ORLEANS
TYPICAL PROJECT	
STATE PROJECT	

DATE	DESCRIPTION	DRAWN	DESIGN	CHECKED
4/4/97	ADDED GENERAL NOTE	T.T.H.	T.T.H.	H.S.B.
	REVISIONS		DATE 6/15/22	DATE 6/15/22

STANDARD PLAN STD10

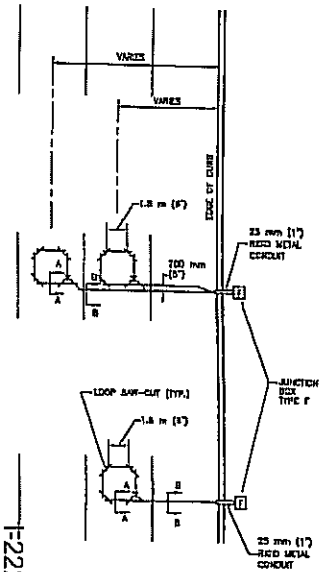
TYPICAL APPLICATION OF PAVEMENT MARKINGS

DATE APRIL 04, 1997

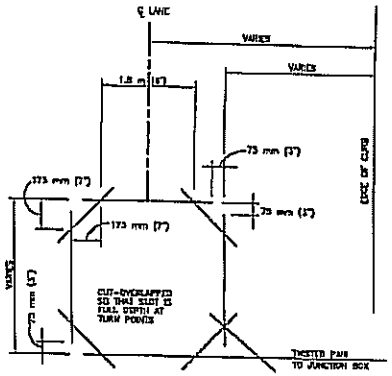
CITY OF NEW ORLEANS
DEPARTMENT OF PUBLIC WORKS

APPROVED DAVID F. FERGUSON DIRECTOR

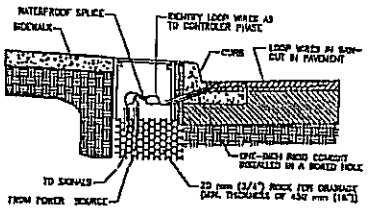
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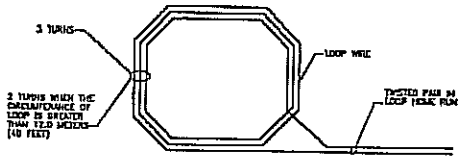
DETAIL 24
TYPICAL LOOP SAW-CUT LAYOUT



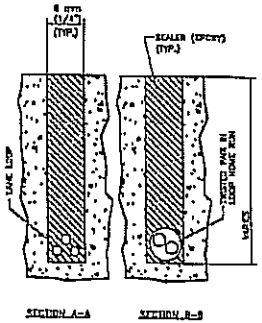
DETAIL 26
LOOP SAW-CUT CONFIGURATION
(CENTERED IN LANE)



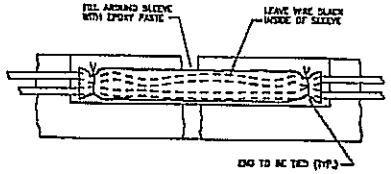
DETAIL 29
TYPICAL LOOP LEAD-IN INSTALLATION



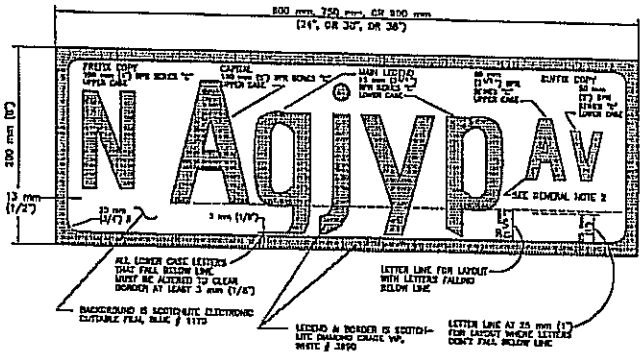
DETAIL 27
LOOP WIRE INSTALLATION



DETAIL 25
VEHICLE LOOP INSTALLATION



DETAIL 28
SECTION OF PLASTIC SLEEVING
AT PAVEMENT JOINTS AND CRACKS



STREET NAME SIGN – LEGEND & BORDER

N.T.S.

GENERAL NOTES:

1. MEASUREMENTS & UNITS IN ENGLISH SYSTEM ARE SHOWN IN PARENTHESES.
2. IF STREET NAME SUFFIX IS " STREET ", SUFFIX IS OMITTED FROM SIGN

DATE		BY	CHKD	APPROVED
4/4/97	ADDED "STREET NAME SIGN" DETAIL & GEN. NOTE	T.T.H.	T.T.H.	DAVID F. FERGUSON, DIRECTOR

STANDARD PLAN STD11

TYPICAL TRAFFIC SIGNAL-LOOP INSTALLATION
STREET NAME SIGN-LEGEND & BORDER

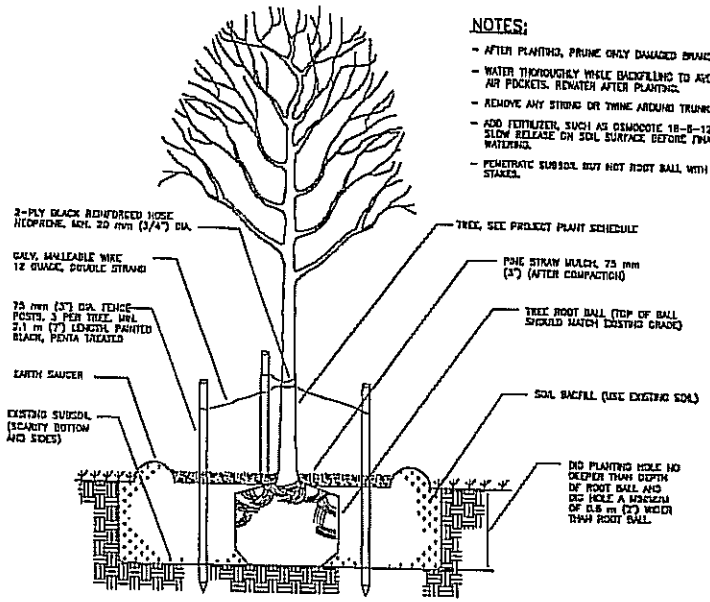
DATE APRIL 01, 1997

CITY OF NEW ORLEANS
DEPARTMENT OF PUBLIC WORKS

SHEET NUMBER 208

ORLEANS PARISH | FEDERAL PROJECT | STATE PROJECT

I-222

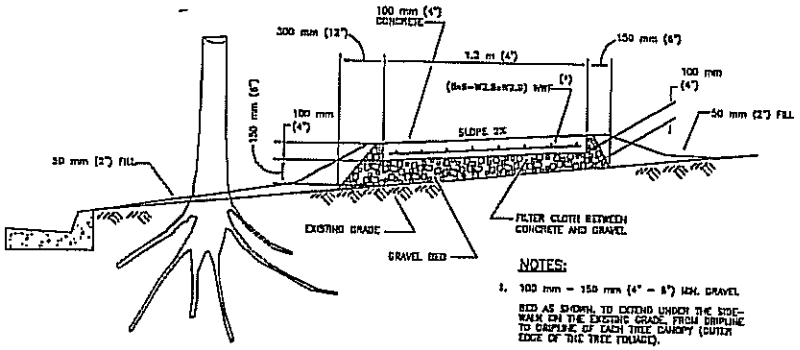


NOTES:

- AFTER PLANTING, PRUNE ONLY DAMAGED BRANCHES.
- WATER THOROUGHLY WHILE BACKFILLING TO AVOID AIR POCKETS. REWATER AFTER PLANTING.
- REMOVE ANY STRING OR TWINE AROUND TRUNK.
- ADD FERTILIZER, SUCH AS OSMOCOTE 18-6-12, SLOW RELEASE ON SOIL SURFACE BEFORE FINAL WATERING.
- PENETRATE SUBSOIL BUT NOT ROOT BALL WITH STAKES.

TREE PLANTING DETAIL

N. T. S.



NOTES:

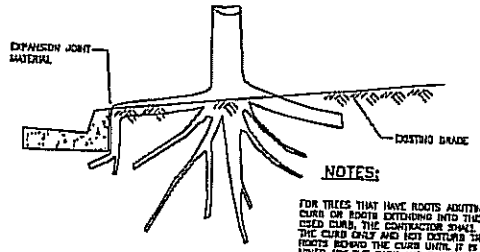
1. 100 mm – 150 mm (4" – 6") MIN. GRAVEL BED AS SHOWN, TO EXTEND UNDER THE SIDEWALK ON THE EXISTING GRADE, FROM DRIPLINE TO DRIPLINE OF EACH TREE CANOPY (OUTER EDGE OF THE TREE FOLIAGE).
2. NO MORE THAN 40 mm – 50 mm (1.5" – 2.0") OF FILL TO BE PLACED UNDER ANY TREE CANOPY.
3. NO EXPANSION JOINTS TO BE PLACED OVER ROOTS. ONLY "WEAKENED PLANES" SHALL BE ALLOWED.

(*) WITH 40 mm – 50 mm (1.5" – 2.0") COVER

SIDEWALK GRAVEL BED

REQ'D. AT EACH TREE LOCATION

N. T. S.



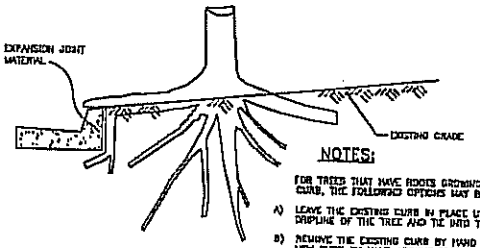
NOTES:

FOR TREES THAT HAVE ROOTS ABUTTING THE CURB OR ROOTS EXTENDING INTO THE PROPOSED CURBS, THE CONTRACTOR SHALL REMOVE THE CURB ONLY AND NOT DISTURB TREE ROOTS BEHIND THE CURB UNTIL IT IS DETERMINED (BY THE PARK AND PKWY. COMMISSION) HOW MUCH OF THE ROOTS CAN BE PRUNED. ONCE MARKED, THE ROOTS CAN BE PRUNED BY A LICENSED ARBORIST. ELIMINATE 300 mm (12") OF ROADWAY BASE BEHIND NEW CURB WHERE ROOTS ARE ENCOUNTERING THE CURB. (SEE DETAIL "A")

TYPICAL DIAGRAM NO. 1

TREE ROOTS GROWING BEHIND EXISTING OR PROPOSED CURBS

N. T. S.



NOTES:

FOR TREES THAT HAVE ROOTS GROWING OVER THE CURB, THE FOLLOWING OPTIONS MAY BE POSSIBLE:

A) LEAVE THE EXISTING CURB IN PLACE UNDER THE DRIPLINE OF THE TREE AND TIE INTO THE NEW CURB.

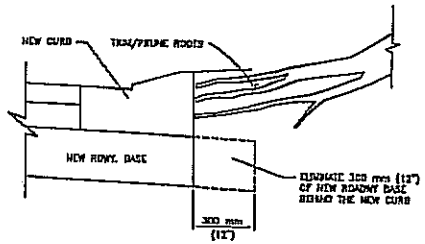
B) REMOVE THE EXISTING CURB BY HAND AND FORM NEW CURB BY HAND AROUND TREE ROOTS WITHOUT ROOT PRUNING.

C) REMOVE THE EXISTING CURB BY HAND, PRUNE ROOTS AS MARKED BY THE PARKWAY COMMISSION, FORM AND POUR NEW CURB.

TYPICAL DIAGRAM NO. 2

TREE ROOTS GROWING OVER CURB

N. T. S.

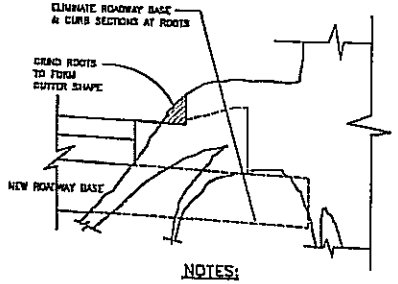


DETAIL "A"

DETAIL FOR ROOT PRUNING AT CURBS

REFER TO "TYPICAL DIAGRAM NO. 1"

N.T.S.



NOTES:

WHERE SID ROOTS EXTEND INTO ROADWAY SECTION, ELIMINATE ROADWAY BASE AND CURB SECTIONS AT ROOTS, AND GRIND ROOTS TO FORM GUTTER SHAPE MATCHING ADJOINTING CONCRETE GUTTERS AS PER DIRECTION OF THE PKWY. AND PARK COMMISSION.

TYPICAL DIAGRAM NO. 3

TREE ROOTS EXTENDING INTO PROPOSED ROADWAY SECTION

N. T. S.

GENERAL NOTE:

1. THE CONTRACTOR IS RESPONSIBLE FOR HIRING A LICENSED ARBORIST TO PRUNE TREE ROOTS ON CITY TREES.
2. ALL PROJECTS REQUIRE ON-SITE INSPECTION BY THE PARK AND PARKWAY COMMISSION AND THE ARBORIST TO DETERMINE THE EXTENT OF ROOT PRUNING THAT WILL BE REQUIRED OR ALLOWED.

DATE	DESCRIPTION REVISIONS	ADDED	DETAILED	CHECKED

STANDARD PLAN STD12

MISCELLANEOUS DETAILS FOR TREE PLANTING & ROOT PRUNING

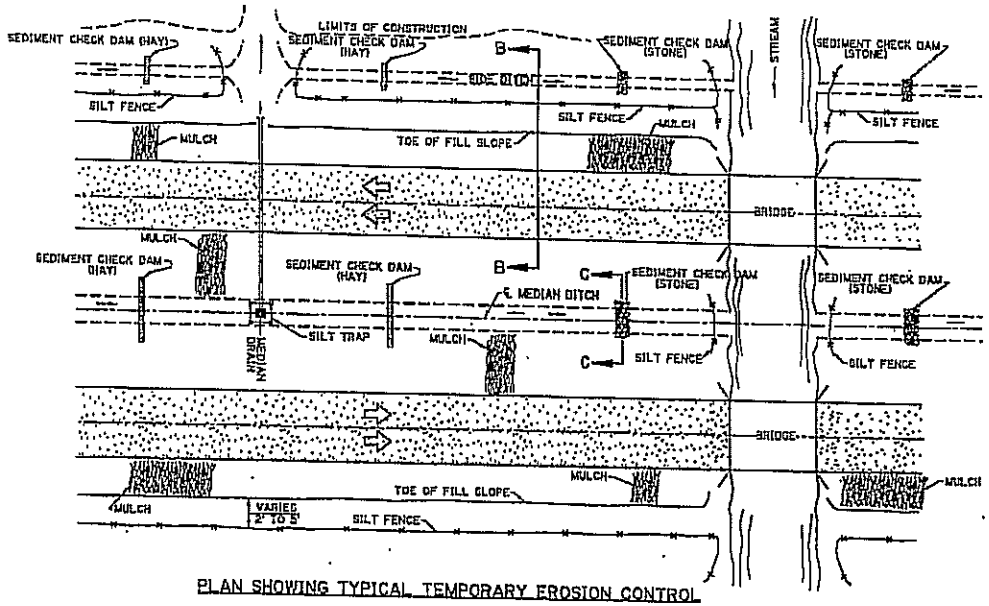
DATE APRIL 01, 1997

CITY OF NEW ORLEANS

DEPARTMENT OF PUBLIC WORKS

APPROVED DAVID F. EDMUNSON DIRECTOR

SCALE NONE

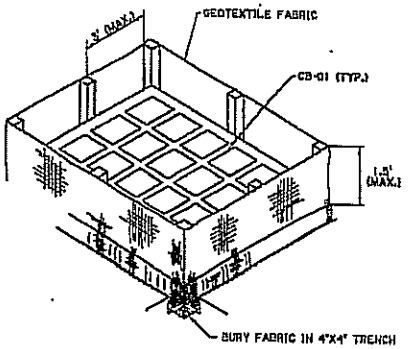


PLAN SHOWING TYPICAL TEMPORARY EROSION CONTROL

MULCHES

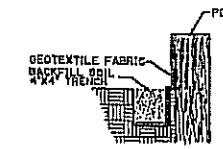
MULCHES ARE THE APPLICATION OF MATS OF MATERIAL PLACED ON THE SOIL SURFACE TO PREVENT EROSION BY PROTECTING THE SOIL SURFACE FROM RAINDROP IMPACT AND TO REDUCE THE VELOCITY OF OVERLAND FLOW. MULCHES CAN BE ORGANIC OR SYNTHETIC. MULCHES SHALL BE IN ACCORDANCE WITH PROJECT SPECIFICATIONS FOR TEMPORARY EROSION CONTROL. A FEW GUIDELINES FOR THE USE OF MULCHES ARE:

1. USE ON CUT AND EMBANKMENT SLOPES WHICH HAVE NOT BEEN COMPLETED TO PLAN GRADE OR WHERE THE WEATHER OR SOIL CONDITIONS WILL NOT PERMIT COMPLETING THEM WITHIN A REASONABLE TIME.
2. USE ON CLEARED, GRUBBED , AND SCALPED AREAS WHERE SOIL EROSION IS LIKELY TO OCCUR.
3. USE WITH TEMPORARY SEEDING.

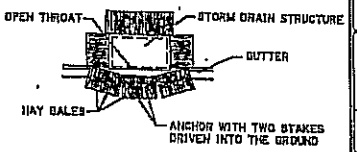


ISOMETRIC VIEW SHOWING GEOTEXTILE FABRIC

(BACKFILL SOIL NOT SHOWN)



SECTION THRU TRENCH SHOWING GEOTEXTILE FABRIC



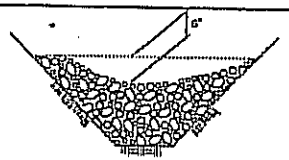
PLAN SHOWING HAY BALES

PAY ITEM: TEMPORARY HAY OR STRAW BALES

TEMPORARY INLET SILT TRAP

THE TEMPORARY DROP INLET SILT TRAP IS TO BE USED FOR SMALL DRAINAGE AREAS (LESS THAN 1 ACRE) WHERE THE STORM DRAIN IS FUNCTIONAL BEFORE THE AREA IS STABILIZED. THE TRAP CAN BE EITHER GEOTEXTILE FABRIC OR HAY BALES.

1. THE GEOTEXTILE FABRIC SHALL CONFORM TO PROJECT SPECIFICATIONS FOR GEOTEXTILE FABRIC (CLASS G).
2. WOODEN STAKES SUPPORTING THE FABRIC SHALL BE 2" X 2" OR 2" X 4" WITH A MINIMUM LENGTH OF 3 FEET. THE STAKES SHALL BE SPACED AROUND THE INLET AT A MAXIMUM SPACING OF 3 FEET.
3. THE HEIGHT OF THE FABRIC ABOVE THE INLET SHALL BE LIMITED TO 1.5' AND THE BOTTOM OF THE FABRIC SHALL BE BURIED IN A TRENCH APPROXIMATELY 4" WIDE BY 4" DEEP. THE FABRIC SHALL BE STAPLED TO THE POST WITH 1/2" STAPLES.
4. THE TRAP SHOULD BE INSPECTED REGULARLY AND AFTER EACH STORM. THE SEDIMENT SHOULD BE REMOVED AND EACH STAKE SHOULD BE FIRMLY IN THE GROUND.
5. HAY BALES SHALL BE PLACED SO THAT THE BINDING WIRE OR TWINE IS NOT IN CONTACT WITH THE GROUND.



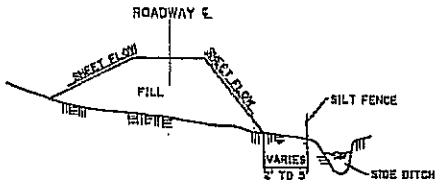
SECTION C-C

TEMPORARY SEDIMENT CHECK DAM (STONE)

PAY ITEM: TEMPORARY SEDIMENT CHECK DAM (STONE)

NOTES:
A STONE CHECK DAM IS A SMALL TEMPORARY DAM CONSTRUCTED ACROSS A SWALE OR DRAINAGE DITCH. THE PURPOSE OF THIS MEASURE IS TO REDUCE THE VELOCITY OF CONCENTRATED STORM WATER FLOWS, THEREBY REDUCING EROSION OF THE SWALE OR DITCH. THE STONE CHECK DAM WILL TRAP SMALL AMOUNTS OF SEDIMENTS GENERATED IN THE DITCH ITSELF, HOWEVER IT SHOULD NOT BE USED AS A SEDIMENT TRAPPING DEVICE. A FEW BASIC DESIGN GUIDELINES FOR THE USE OF STONE CHECK DAMS ARE:

1. USE IN SMALL OPEN CHANNELS WHICH DRAIN 10 ACRES OR LESS
2. DO NOT USE IN A LIVE STREAM
3. USE IN A TEMPORARY DITCH OR SWALE WHICH, BECAUSE OF THEIR SHORT LENGTH OF SERVICE, CANNOT RECEIVE A NON-ERODIBLE LINING.
4. USE IN PERMANENT DITCHES OR SWALES WHICH WILL NOT RECEIVE A PERMANENT LINING FOR AN EXTENDED PERIOD OF TIME
5. USE IN TEMPORARY OR PERMANENT DITCHES OR SWALES WHICH NEED PROTECTION DURING THE ESTABLISHMENT OF GRASS LININGS
6. FOR STONE SPECIFICATIONS, SEE PROJECT SPECIFICATIONS FOR RIPRAP, (CLASS 2 LB)



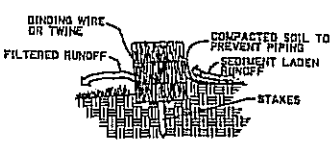
SECTION B-B

TEMPORARY SILT FENCE APPLICATION

(FOR CONSTRUCTION DETAILS AND SPECIFICATIONS SEE SHEET 2 OF 2.)



ELEVATION



SECTION A-A

TEMPORARY SEDIMENT CHECK DAM (HAY)

PAY ITEM: TEMPORARY SEDIMENT CHECK DAM (HAY)

NOTES:
A HAY BALE BARRIER IS A TEMPORARY SEDIMENT BARRIER CONSISTING OF A ROW OF ENTRENCHED AND ANCHORED BALES OF STRAW OR HAY. THE HAY BALE BARRIER IS ALSO USED AS A CHECK DAM TO REDUCE THE VELOCITY IN SMALL DITCHES OR SWALES. THE HAY BALES SHALL BE IN ACCORDANCE WITH PROJECT SPECIFICATIONS FOR TEMPORARY EROSION CONTROL.
A FEW BASIC DESIGN GUIDELINES FOR THE USE OF A HAY BALE BARRIER ARE:

1. USE WHERE EROSION WOULD OCCUR IN THE FORM OF SHEET AND RILL EROSION
2. USE IN MINOR SWALES OR DITCHES WHERE THE MAXIMUM DRAINAGE AREA IS 2 ACRES
3. ONLY USE WHERE THE EFFECTIVENESS IS REQUIRED FOR LESS THAN 3 MONTHS
4. DO NOT USE IN LIVE STREAMS OR IN SWALES OR DITCHES WHERE THERE IS A POSSIBILITY OF A WASHOUT

SHEET NUMBER 210

ORLEANS

PARISH | FEDERAL PROJECT | STATE PROJECT

DESIGNED JCH | DETAILED KAJ | CHECKED JCH | DATE 1-14-94 | SHEET 1 OF 2

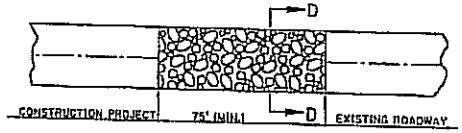
NO.	BY	DATE	REVISION DESCRIPTION
	MH	10-1-08	REMOVE SPECIFIC PAY ITEM NOS., GENERAL REVISIONS

APPROVED BY CHIEF ENGINEER: William H. Temple III DATE: 10-1-08

TEMPORARY EROSION CONTROL DETAILS

STANDARD NO. EC-01

HYDRAULICS SECTION



PLAN



SECTION D-D

TEMPORARY STONE CONSTRUCTION ENTRANCE

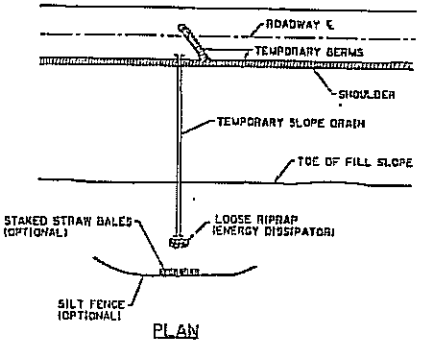
PAY ITEM: TEMPORARY STONE CONSTRUCTION ENTRANCE

NOTES:

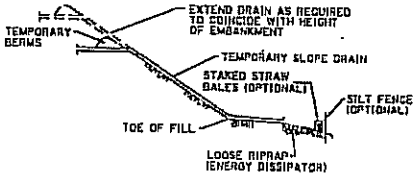
TEMPORARY STONE CONSTRUCTION ENTRANCE AND/OR WASH RACK

A STONE STABILIZED PAD LOCATED AT POINTS OF VEHICULAR INGRESS AND EGRESS ON THE CONSTRUCTION SITE TO REDUCE THE AMOUNT OF MUD TRANSPORTED ONTO PUBLIC ROADS. IF THE ACTION OF THE VEHICLE TRAVELING OVER THE GRAVEL PAD IS NOT SUFFICIENT TO REMOVE THE MAJORITY OF THE MUD, THEN THE TIRES MUST BE WASHED BEFORE THE VEHICLE ENTERS A PUBLIC ROAD. A FEW BASIC DESIGN GUIDELINES FOR THE USE OF A STONE ENTRANCE AND/OR WASH RACKS ARE:

1. THE STONE LAYER MUST BE AT LEAST 6 INCHES THICK.
2. THE STONE SHALL CONFORM TO PROJECT SPECIFICATIONS FOR RIPRAP (CLASS 2 LB).
3. THE LENGTH OF THE PAD MUST BE A LEAST 75 FEET AND IT MUST EXTEND THE FULL WIDTH OF THE VEHICULAR INGRESS AND EGRESS.
4. A GEOTEXTILE FABRIC UNDERLINER IS REQUIRED. THE GEOTEXTILE FABRIC SHALL BE IN ACCORDANCE WITH PROJECT SPECIFICATIONS FOR GEOTEXTILE FABRIC (CLASS D).
5. IF A WASH RACK IS NECESSARY, PROVISIONS MUST BE MADE TO INTERCEPT THE WASH WATER AND TRAP THE SEDIMENT BEFORE IT IS CARRIED OFF-SITE.



PLAN



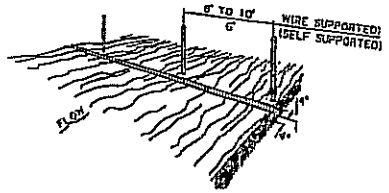
ELEVATION

TEMPORARY SLOPE DRAIN

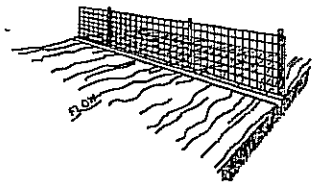
A TEMPORARY SLOPE DRAIN IS A DEVICE USED TO CARRY WATER FROM THE CONSTRUCTION WORK AREA TO A LOWER ELEVATION. SLOPE DRAINS MAY BE PLASTIC SHEET, METAL OR PLASTIC PIPE, STONE GUTTERS, FIBER MATS, OR CONCRETE OR ASPHALT DITCHES. A FEW BASIC DESIGN GUIDELINES FOR THE USE OF A TEMPORARY SLOPE DRAIN ARE:

1. THE SPACING OF THE SLOPE DRAINS VARIES WITH THE ROAD GRADE.
   FOR GRADES: 0.0% - 2.0% USE 300' SPACING
   2.1% - 5.0% USE 200' SPACING
   GREATER THAN 5.0% USE 100' SPACING
2. SLOPE DRAIN MATERIAL: SMOOTH PIPE - 8" MINIMUM - 3 MILS THICK MIN.
   CORRUGATED PIPE - 12" MINIMUM
   PLASTIC SHEETING - 4' WIDE MINIMUM
   PLASTIC SHEETING - 3 MILS THICK MIN.
3. PLASTIC SHEETING CAN BE STAKED DOWN OR WEIGHTED WITH ROCKS OR LOGS. THE AREA UNDER THE SHEETING SHOULD BE SHAPED TO PROVIDE AN ADEQUATE CHANNEL.
4. THE OUTLET END SHOULD BE PROTECTED OR HAVE SOME MEANS OF DISSIPATING ENERGY. THE FLOW SHOULD BE DIRECTED THROUGH A SEDIMENT TRAP SUCH AS A SILT FENCE, HAY BALES, OR OTHER APPROVED SEDIMENT CONTROL DEVICES.
5. TO INSURE PROPER OPERATION, TEMPORARY SLOPE DRAINS SHOULD BE INSPECTED REGULARLY AND AFTER EACH STORM, FOR CLOGGING OR DISPLACEMENT. EROSION AT THE OUTLET SHOULD BE CHECKED AND THE SILT TRAPS CLEANED IF NECESSARY.

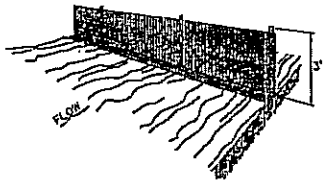
1. SET POSTS AND EXCAVATE A 4" X 4" TRENCH UPSLOPE ALONG THE LINE OF POSTS.



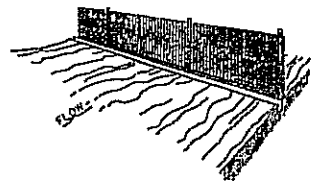
2. STAPLE WIRE FENCING TO THE POSTS.



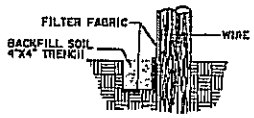
3. ATTACH THE FILTER FABRIC TO THE WIRE FENCE AND EXTEND IT INTO THE TRENCH.



4. BACKFILL AND COMPACT EXCAVATED SOIL.



EXTENSION OF FABRIC INTO THE TRENCH.



CONSTRUCTION OF TEMPORARY SILT FENCING

(WIRE SUPPORTED SILT FENCE IS SHOWN. SELF SUPPORTED SILT FENCE WILL BE CONSTRUCTED ACCORDING TO MANUFACTURERS SPECIFICATIONS.)

NOTES:

SILT FENCING IS A TEMPORARY SEDIMENT BARRIER CONSISTING OF A FILTER FABRIC SUPPORTED BY POSTS AND STRETCHED ACROSS AN AREA TO INTERCEPT AND DETAIN SMALL AMOUNTS OF SEDIMENT. THE SILT FENCING SHALL BE IN ACCORDANCE WITH PROJECT SPECIFICATIONS FOR TEMPORARY EROSION CONTROL. A FEW BASIC GUIDELINES FOR THE USE OF SILT FENCING ARE:

1. USE WHERE EROSION WOULD OCCUR IN THE FORM OF SHEET AND RILL EROSION
2. USE WHERE THE MAXIMUM DRAINAGE AREA BEHIND THE SILT FENCE IS ¼ ACRE PER 100 FEET OF SILT FENCE LENGTH
3. USE WHERE THE MAXIMUM SLOPE LENGTH BEHIND THE BARRIER IS 100 FEET
4. USE WHERE THE MAXIMUM GRADIENT BEHIND THE BARRIER IS 2:1
5. DO NOT USE SILT FENCES IN LIVE STREAMS OR IN DITCHES OR SWALES WHERE FLOWS EXCEED ONE CUBIC FOOT PER SECOND

SHEET NUMBER 2100

ORLEANS

FEDERAL PROJECT

STATE PROJECT

DESIGNED JCM
DETAILED RAJ
CHECKED JCM
DATE 1-14-94
SHEET 2 OF 2

DATE 10-1-08 REVISION DESCRIPTION REMOVE SPECIFIC PAY ITEM NOS., GENERAL REVISIONS BY MH

APPROVED BY DATE

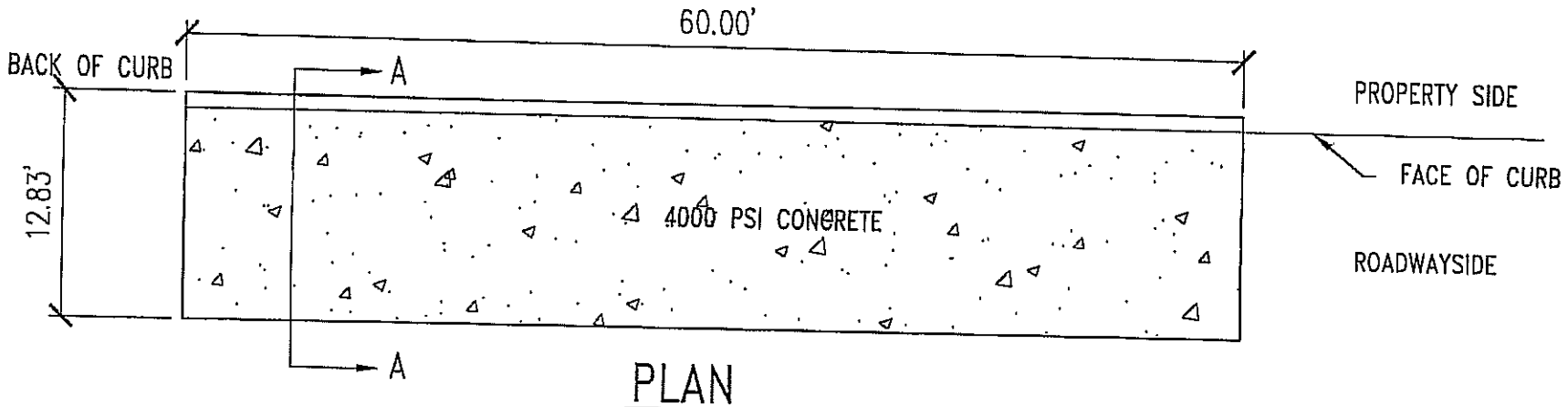
TEMPORARY EROSION CONTROL DETAILS

STANDARD NO. EEC-01

DOTH

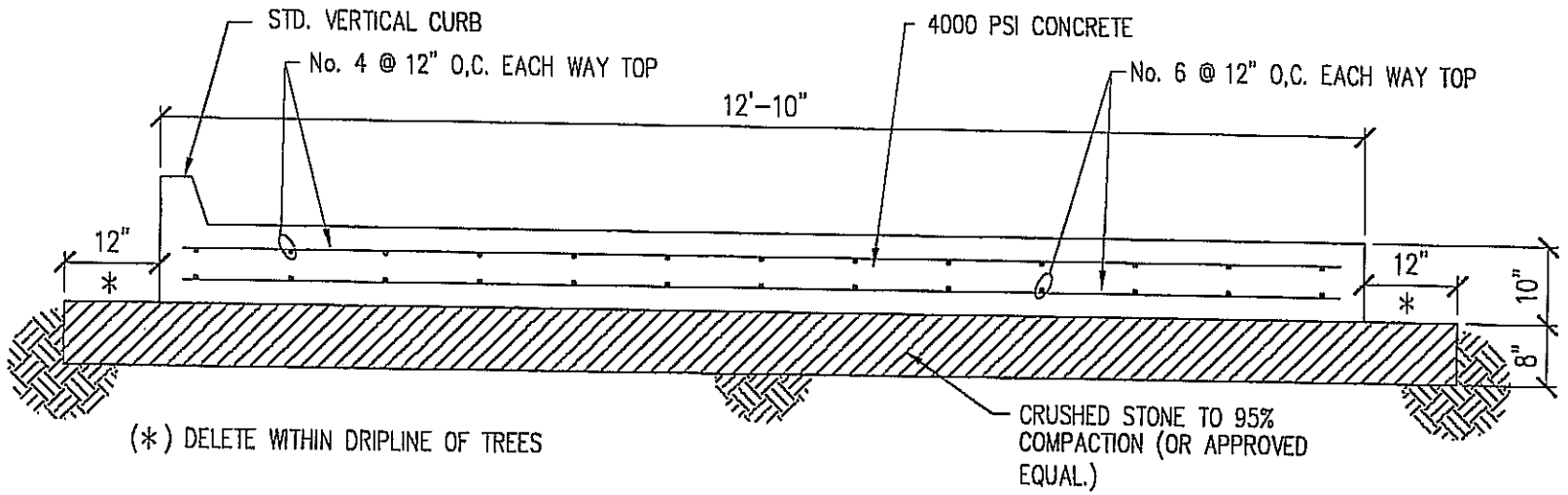
HYDRAULICS SECTION

I-225



PLAN

SCALE: 1"–10'

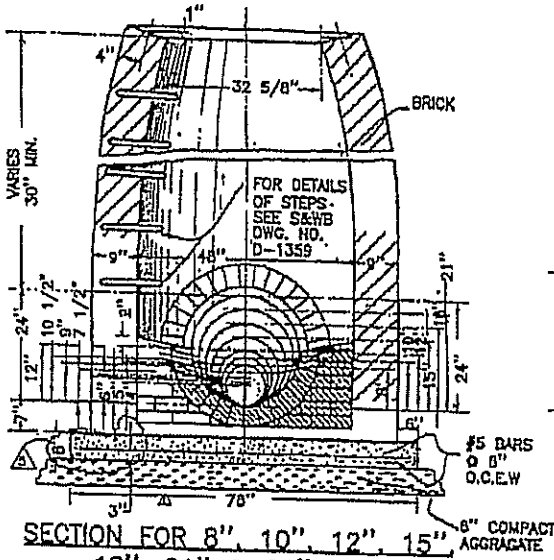


SECTION A–A

SCALE: 1/2"–1'–0"

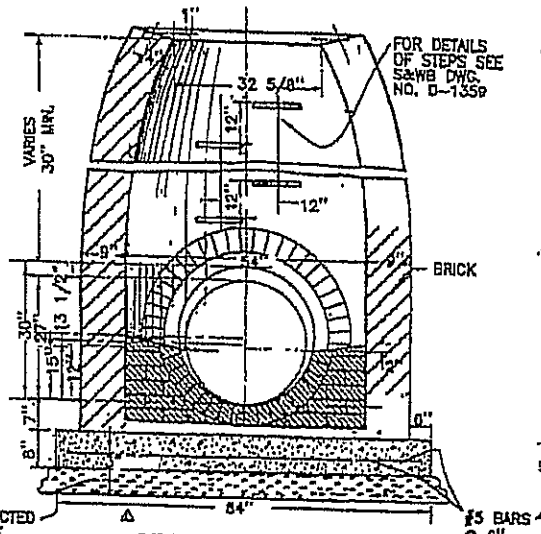
I-226

NO.1 M.H.



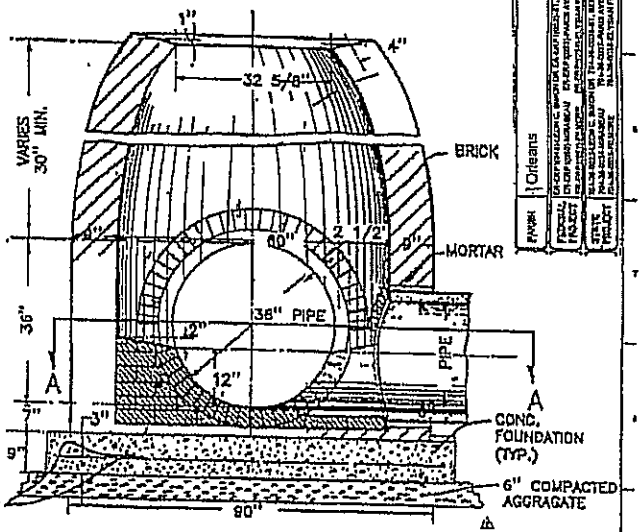
SECTION FOR 8", 10", 12", 15", 18", 21" & 24" PIPE

NO.2 M.H.

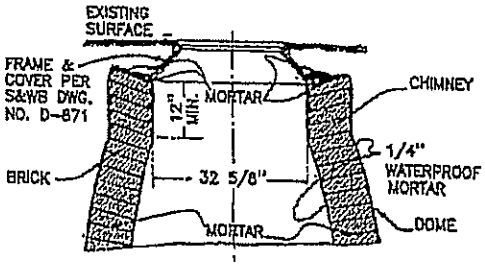


SECTION FOR 27" & 30" PIPE

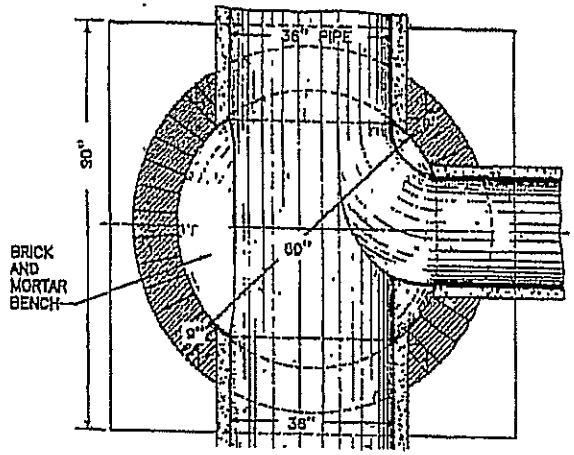
NO.3 M.H.



SECTION FOR 36" PIPE



TYPICAL UPPER MANHOLE SECTION



SECTION A–A

NO.3 M.H. – AS SHOWN
NO.1 & 2 M.H. – SIMILAR

SCALE: N.T.S.

⚠ NOTES:

1. ALL MANHOLES, FRAMES AND COVERS SHALL BE AS SHOWN ON S&WB DWG. NO. D-871, GENERAL PLAN OF MANHOLE FRAME AND COVER.
2. INSIDE & OUTSIDE BRICK WALLS, BENCHES, & INVERTS TO BE MORTARED WITH WATERPROOFING COMPOUND FOR THICKNESS OF 1/4" IN ACCORDANCE WITH SPECIFICATIONS.
3. CONCRETE TO HAVE A MIN. COMPRESSIVE STRENGTH OF 3,000 P.S.I. IN 28 DAYS.
4. SEE S&WB DWG. NO. 6178-B-6 FOR PRE-CAST MANHOLES.

⚠	03-06-07	CHANGED CO-EFFICIENTS AND CONCRETE FOUNDATION THICKNESS	S.J.C.
⚠	03-09-02	ADDED, REVISED AND ADDED NOTES	S.J.C.
2	7-1-98	GENERAL REVISION	R.L.C.
⚠	2-28-78	ADDED CONCRETE FOUNDATION WITH COVERED	R.C.B.
1	11-8-65	NOTE FOR PLASTERING	R.P.H.
REV.	DATE	DESCRIPTION	BY

SEWERAGE AND WATER BOARD OF NEW ORLEANS

GENERAL SECTION OF STANDARD DRAIN BRICK MANHOLE

DWG. NO. D-870

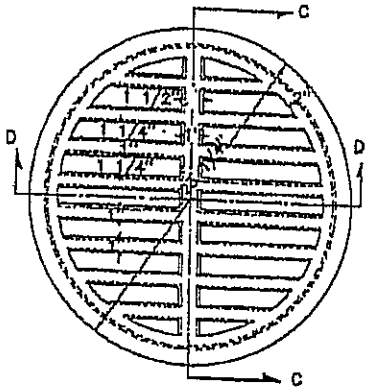
PROJECT NUMBER 212

Orleans PARISH

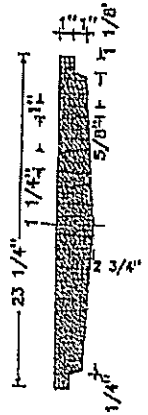
FEDERAL PROJECT

STATE PROJECT

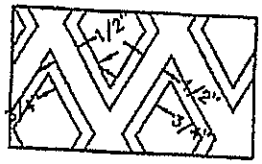
1-227



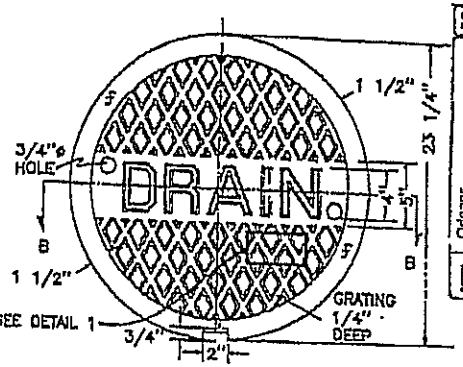
TOP VIEW OF OPEN GRATE MANHOLE COVER



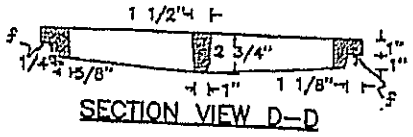
SECTION VIEW C–C



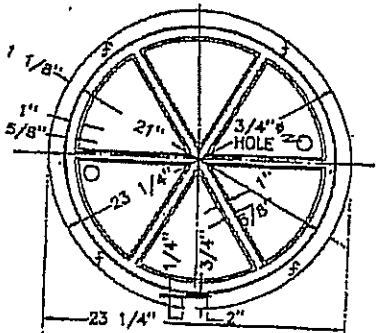
DETAIL 1



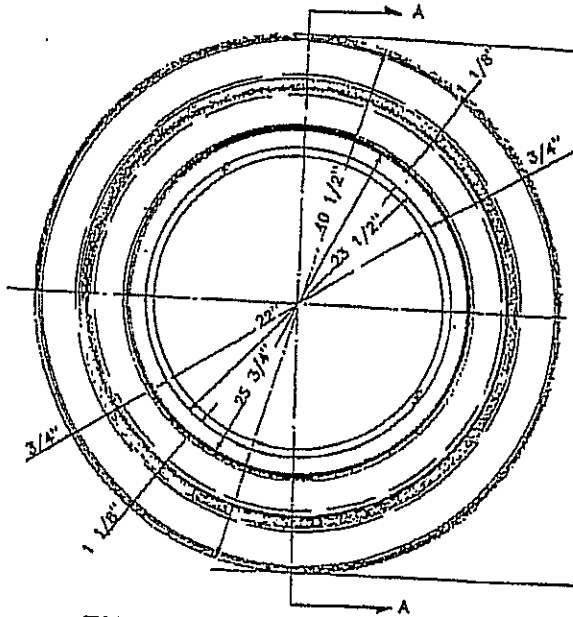
TOP VIEW OF MANHOLE COVER



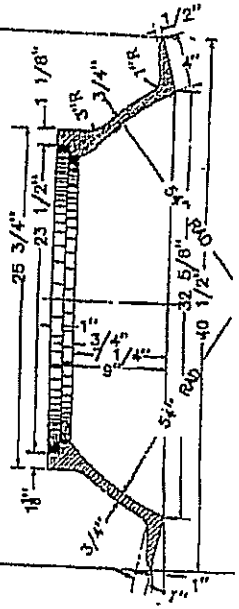
SECTION VIEW D–D



BOTTOM VIEW OF MANHOLE COVER



TOP VIEW OF MANHOLE FRAME



SECTION VIEW A–A

⚠ NOTES:

1. F = MACHINED SURFACE.
2. FRAME & COVER SHALL CONFORM TO EAST JORDAN IRON WORK, INC. V–1501 FRAME & COVER OR APPROVED EQUAL.

SECTION VIEW B–B

SCALE: N.T.S.

⚠	12-16-97	CHANGE COVER AND FRAME WIDTH D.M.C.
⚠	2-11-97	ADDITIONS M.L.P.
⚠	4-24-96	COVER CHANGES MARKED ✓ M.L.P.
NO.	DATE	DESCRIPTION BY

SEWERAGE AND WATER BOARD OF NEW ORLEANS

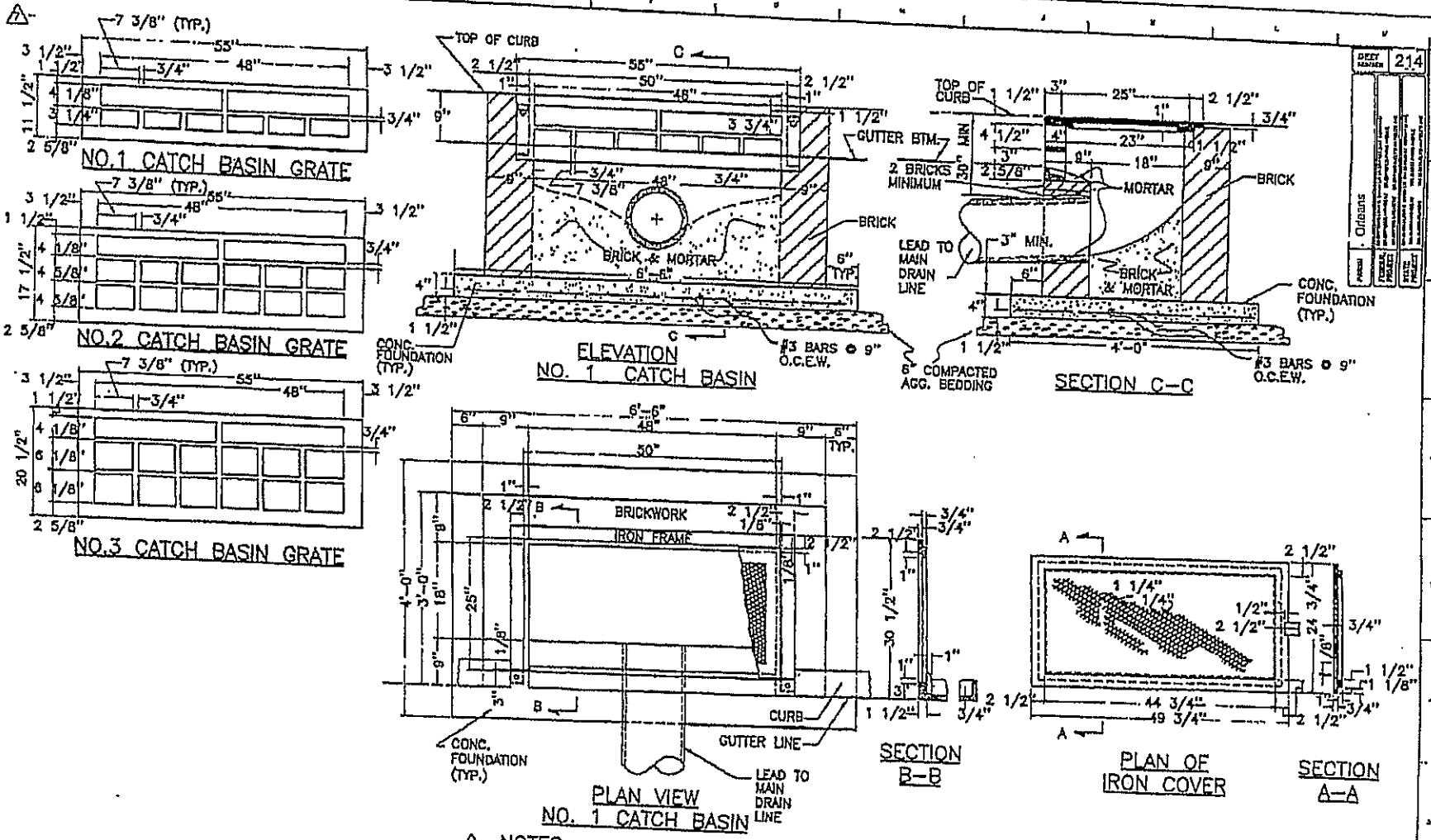
GENERAL PLAN OF DRAIN MANHOLE FRAME & COVER

DWG. NO. D-871 ⚠

SHEET NUMBER 213

Orleans

2 1-228



NOTES:

1. INSIDE & OUTSIDE OF BRICK WALLS, BENCHES & INVERTS, TO BE MORTARED WITH A WATERPROOFING COMPOUND FOR THICKNESS OF 1/4" IN ACCORDANCE WITH SPECIFICATIONS.
2. FRAME & COVER IS THE SAME FOR ALL CATCH BASINS.
3. FOR DOUBLE VERTICAL CATCH BASIN, SEE S&WB DWGS. NO. D-873A.
4. CONCRETE TO HAVE A MIN. COMPRESSIVE STRENGTH OF 3,000 P.S.I. IN 28 DAYS.
5. SEE S&WB DWG. NO. D-3264 FOR DROP INLETS.
6. SEE S&WB DWG. NO. D-3431-A & D-3431-B FOR MOUNTABLE CATCH BASINS.
7. FRAME & GRATE SHALL CONFORM TO EAST JORDAN IRON WORKS, V-4310 CURB INLET SERIES
8. SEE S&WB DWG. NO. D-8292 FOR TWO PIECE GRATE, FRAME AND COVER.
9. MAX. DEPTH OF CATCH BASIN CANNOT EXCEED 5' UNLESS APPROVED BY S&WB ENGINEER.

SCALE: N.T.S.

NO.	DATE	DESCRIPTION	BY
3	03-09-07	REVISED FRAME AND GRATES	DMC
2	03-09-07	GENERAL REVISIONS	DMC
1	5-4-88	REDRAWN	

SEWERAGE AND WATER BOARD OF NEW ORLEANS

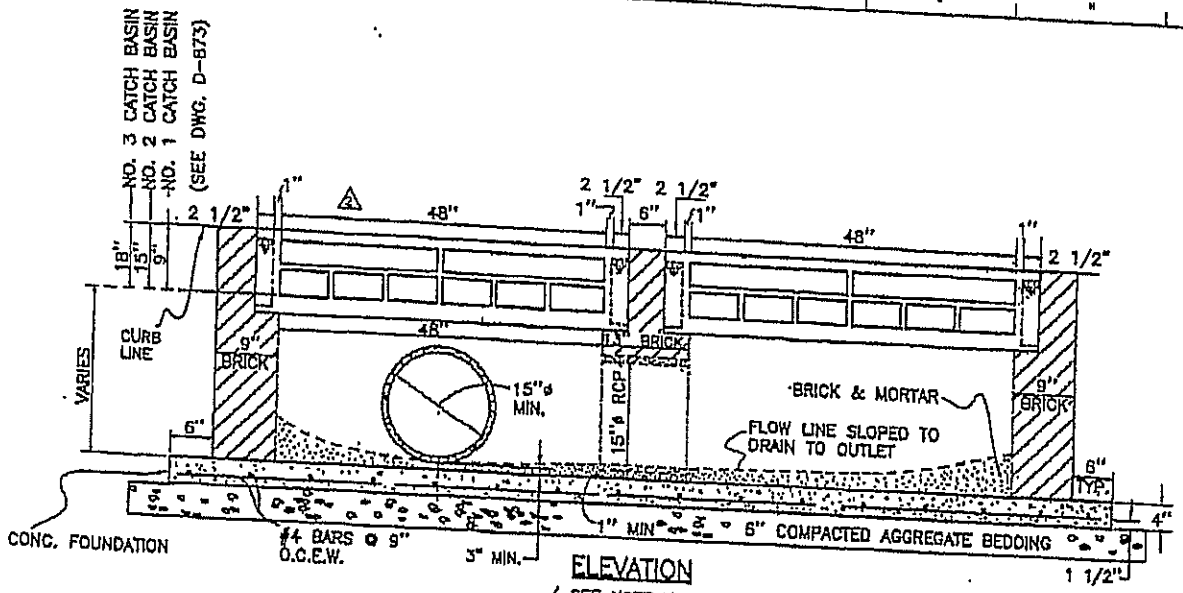
DETAIL OF STANDARD SINGLE VERTICAL CATCH BASIN NUMBERS 1, 2 & 3

DWG. NO. D-873 3

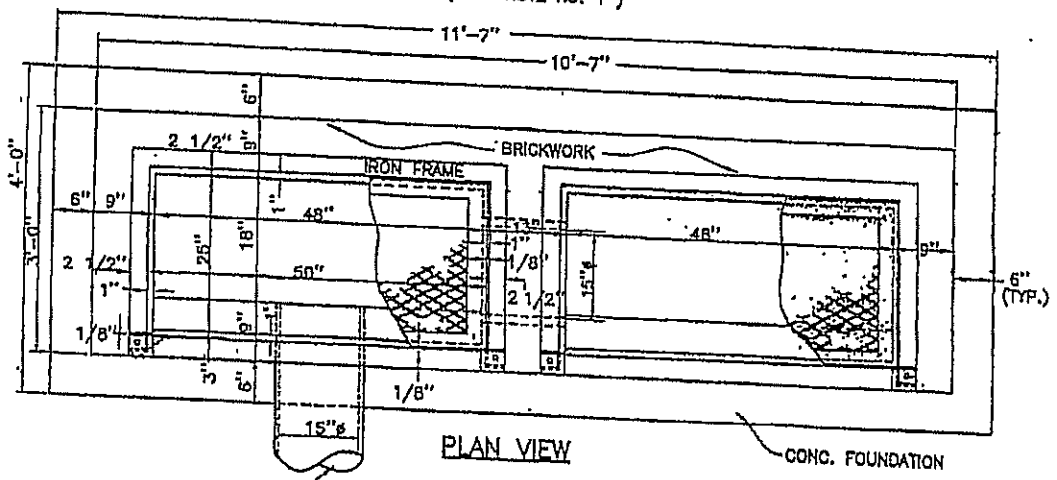
DEPT. NUMBER 214

Orleans

I-229



ELEVATION
(SEE NOTE NO. 1)



PLAN VIEW

THIS LEAD SHALL BE CONNECTED TO MAIN DRAIN. THE LEAD CAN BE INSTALLED ON EITHER SIDE OF THE CATCH BASIN. THE BOTTOM OF CATCH BASIN MUST BE SLOPED TO DRAIN TOWARDS LEAD. CATCH BASIN LEAD MAY BE POSITIONED AT AN ANGLE AS REQUIRED TO ATTACH TO MAIN DRAIN LINE.

⚠ NOTES:

1. DOUBLE CATCH BASIN SHOWN. SEE S&WB DWG. NO. D-873 FOR SINGLE TYPE CATCH BASIN CASTINGS.
2. SEE S&WB DWG. NO. D-873 FOR SECTIONS & DETAILS OF CATCH BASINS 1, 2 & 3 AND METAL CASTING.
3. INSIDE & OUTSIDE OF BRICK WALLS, BENCHES, & INVERTS TO BE MORTARED WITH A WATERPROOFING COMPOUND, THICKNESS OF 1/4" IN ACCORDANCE WITH STANDARD SPECIFICATIONS.
4. CONCRETE TO HAVE A MIN. COMPRESSIVE STRENGTH OF 3000 P.S.I. IN 28 DAYS.
5. SEE S&WB DWG. NO. D-3264 FOR DROP INLETS.
6. SEE S&WB DWG. NO. D-3431-A & D-3431-B FOR MOUNTABLE CATCH BASINS.
7. SEE S&WB DWG. NO. D-8292 FOR TWO PIECE GRATE, FRAME AND COVER.
8. MAX. DEPTH OF CATCH BASIN CANNOT EXCEED 5' UNLESS APPROVED BY S&WB ENGINEER.
9. FRAME & GRATE SHALL CONFORM TO EAST JORDAN IRON WORKS, V-4310 CURB INLETS SERIES.

SCALE: N.T.S.

SEWERAGE AND WATER BOARD OF NEW ORLEANS

DETAIL OF STD. DOUBLE VERTICAL CATCH BASIN

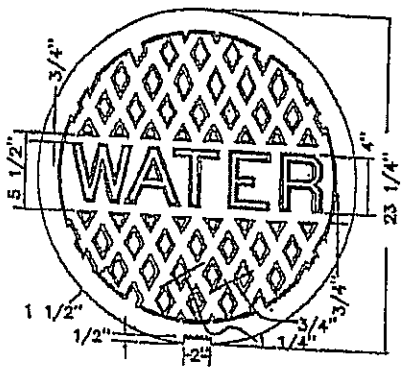
DWG. NO. D-873A

SHEET NUMBER 215

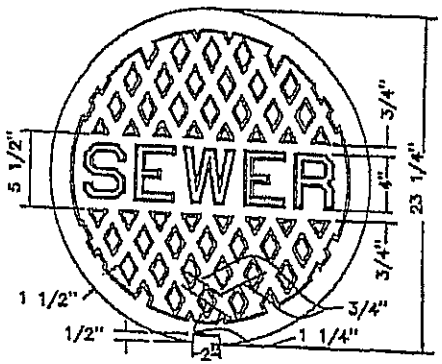
Orleans

4

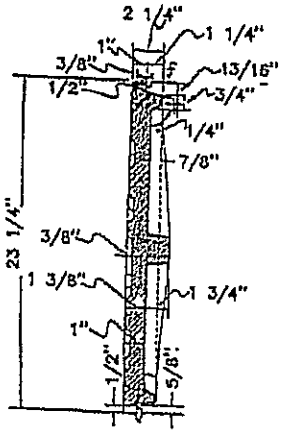
I-230



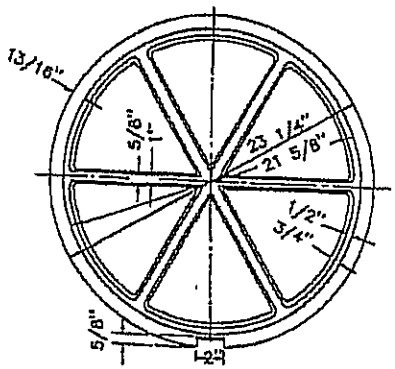
TOP VIEW OF WATER MANHOLE COVER



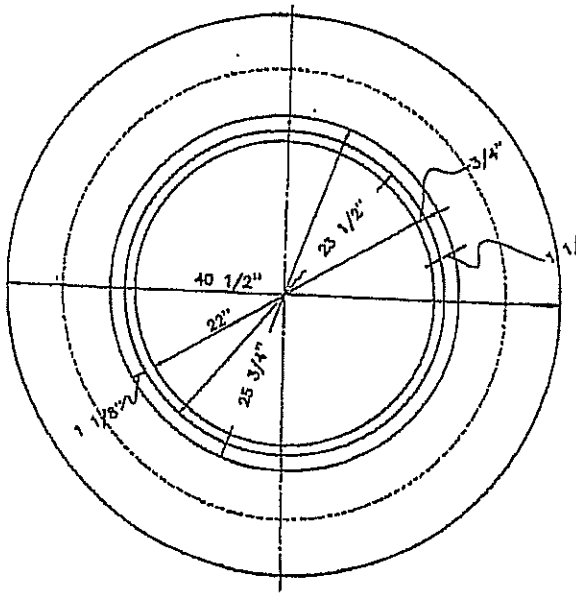
TOP VIEW OF SEWER MANHOLE COVER



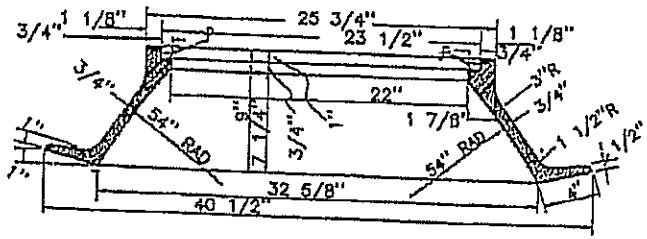
CROSS SECTION OF MANHOLE COVER
(SEWER & WATER)



BOTTOM VIEW OF MANHOLE COVER
(SEWER & WATER)



PLAN OF FLARING FRAME MANHOLE



CROSS SECTION OF FLARING MANHOLE FRAME
(SEWER & WATER)

NOTE:

1. $\mathcal{F}$ = MACHINED SURFACE
2. FRAME & COVER SHALL CONFORM TO EAST JORDAN IRON WORKS, V-1501 FRAME AND COVER.

ORLEANS

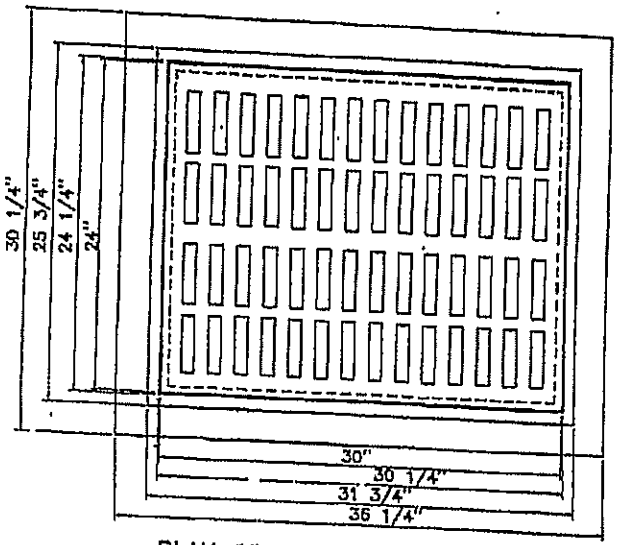
SEWERAGE AND WATER BOARD OF NEW ORLEANS

DETAILS OF SEWER AND WATER MANHOLE CASTINGS

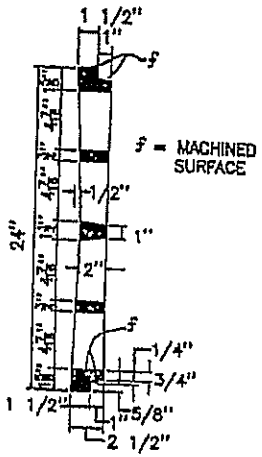
DWG. NO. 3143-E-1

SCALE: N.T.S.

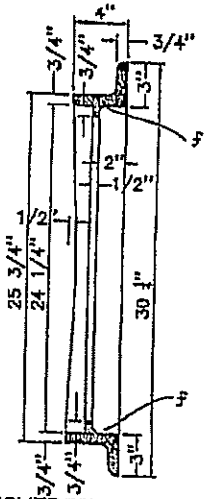
I-231



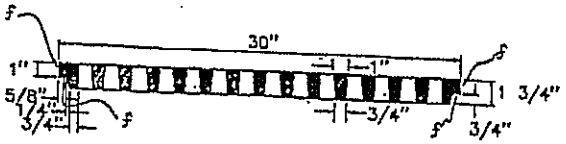
PLAN OF FRAME AND GRATE



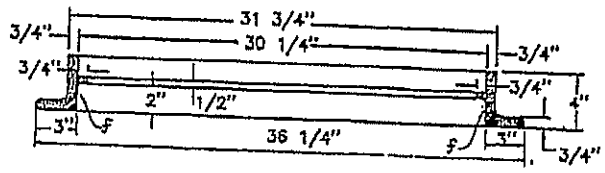
TRANSVERSE SECTION OF GRATE



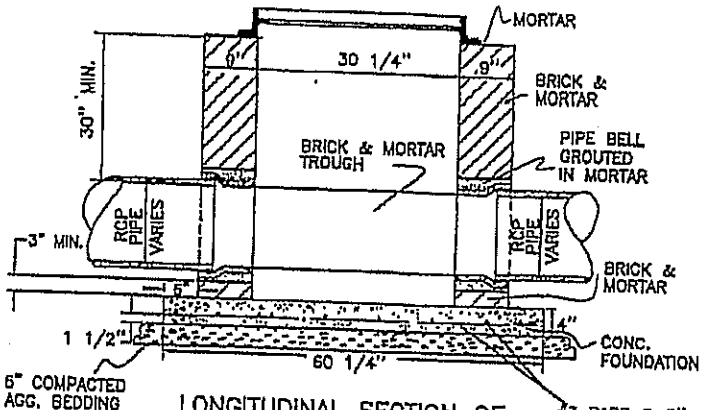
TRANSVERSE SECTION OF FRAME



LONGITUDINAL SECTION OF GRATE



LONGITUDINAL SECTION OF FRAME



LONGITUDINAL SECTION OF DROP INLET MANHOLE

⚠ NOTES:

1. WEIGHT OF FRAME 154 LBS.
2. WEIGHT OF COVER 278 LBS.
3. f = MACHINED SURFACE
4. INSIDE & OUTSIDE OF BRICK WALLS, BENCHES, & INVERTS TO BE MORTARED WITH WATERPROOFING COMPOUND FOR THICKNESS OF 1/4" IN ACCORDANCE WITH SPECIFICATION.
5. CONCRETE TO HAVE A MIN. COMPRESSIVE STRENGTH OF 3000 P.S.I. IN 28 DAYS.
6. FRAME & GRATE SHALL CONFORM TO EAST JORDAN WORKS, INC. V-4430 GUTTER INLET OR APPROVED EQUAL.

SCALE: N.T.S.

SHEET NUMBER 217

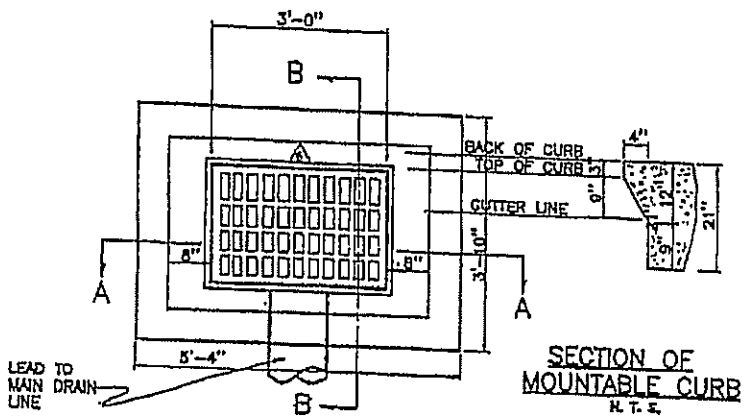
Orleans

REV.	DATE	DESCRIPTION	BY
A	11-19-97	DELETED, MOVED AND ADDED NOTES	DMC
B	11-1-99	RENUMBR, ADDED BARS TO SHAFT	JL

SEWERAGE AND WATER BOARD OF NEW ORLEANS

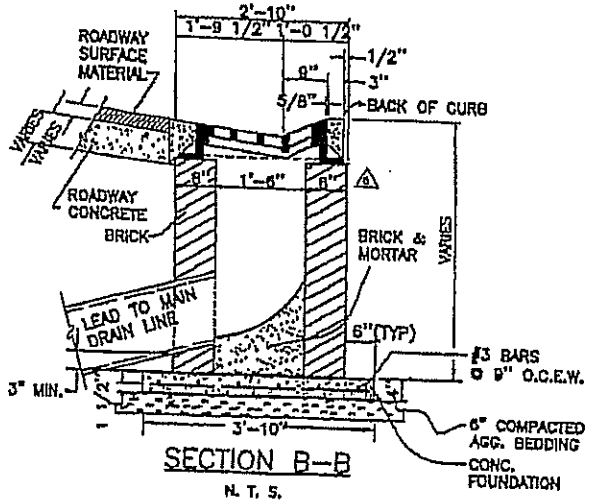
DETAIL OF STD. 24"X30" CLEAR OPENING DROP INLET CATCH BASIN

DWG. NO. D-3264 ⚠

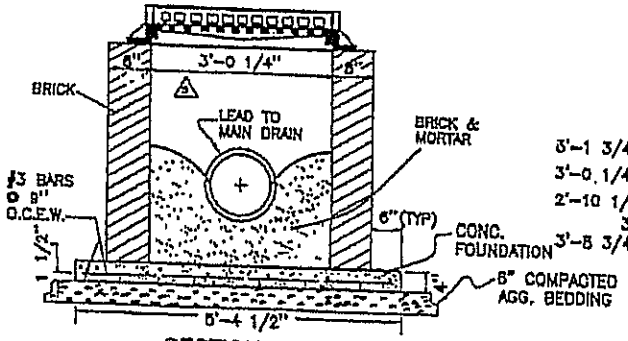


PLAN OF CATCH BASIN
N. T. S.

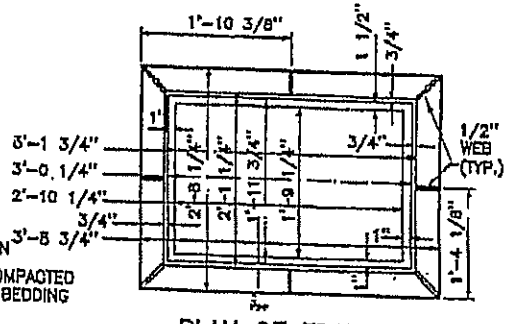
SECTION OF MOUNTABLE CURB
N. T. S.



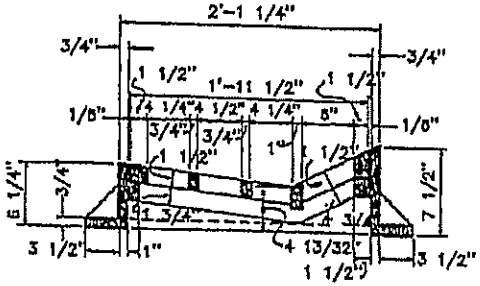
SECTION B–B
N. T. S.



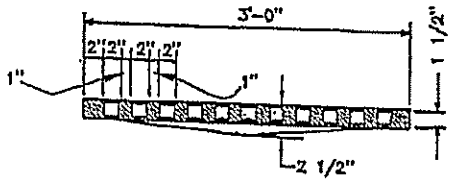
SECTION A–A
N. T. S.



PLAN OF FRAME
N. T. S.



CROSS SECTION OF GRATE FRAME
N. T. S.



LONGITUDINAL SECTION OF GRATE
N. T. S.

⚠ NOTES:

1. INSIDE & OUTSIDE BRICK WALLS, BENCHES, & INVERTS TO BE MORTARED WITH WATERPROOFING COMPOUND FOR THICKNESS OF 1/4" IN ACCORDANCE WITH SPECIFICATION.
2. THIS GRATE IS THE SAME AS THE GRATES ON DOUBLE MOUNTABLE CATCH BASIN SHOWN ON DWG. NO. D-3431-B.
3. CONCRETE TO HAVE A MIN. COMPRESSIVE STRENGTH OF 3000 P.S.I. IN 28 DAYS.
4. FRAME & GRATE SHALL CONFORM TO EAST JORDAN IRON WORKS, INC. V-4510 CUTTER INLET OR APPROVED EQUAL.

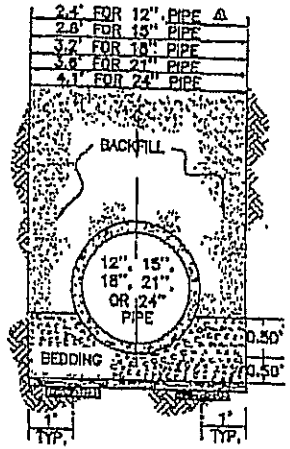
SHEET NO. 218

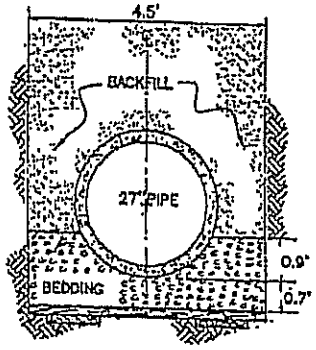
FROM	Orleans	
TO		
PROJECT		

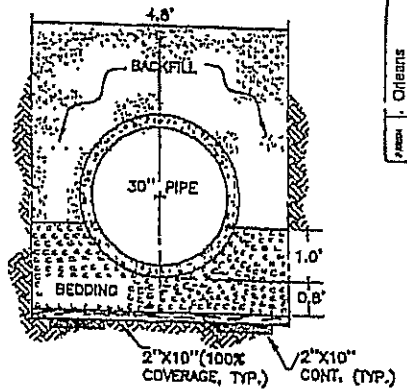
BEVERAGE AND WATER BOARD OF NEW ORLEANS

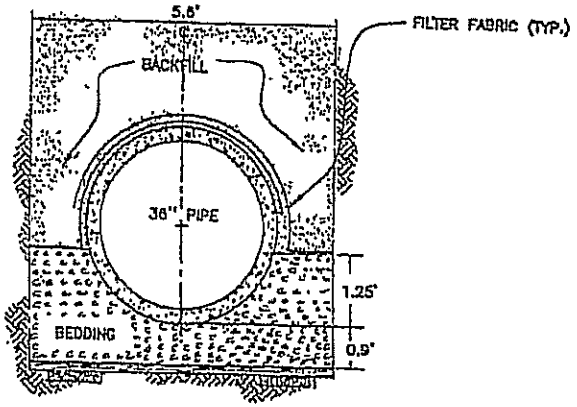
DETAIL OF STANDARD SINGLE MOUNTABLE CATCH BASIN

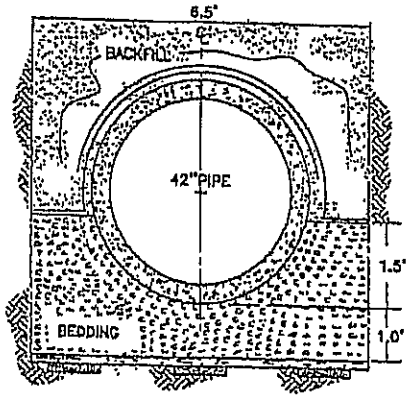
DWG. NO. D-3431-A⚠











⚠ NOTES:

1. SECTIONS TO BE APPLICABLE FOR SIZE PIPE BEING INSTALLED.
2. FOUNDATION LUMBER SHALL CONSIST OF A CONTINUOUS TRANSVERSE LAYER OF 2" BOARDS (MIN. 8" WIDE) ON 2"X10" SILLS DRIVEN INTO SOIL.
3. BEDDING SHALL BE PUMPED SAND, INSTALLED IN 12" LIFTS AND COMPACTED TO 95% OF MAX. DENSITY. FOR PIPES 36" AND GREATER, BEDDING SHALL BE COMPACTED AGGREGATE.
4. BACKFILL MATERIAL TO BE PUMPED SAND INSTALLED IN 12" LIFTS AND COMPACTED TO 95% OF MAX. DENSITY.
5. IF THE WORKING SURFACE OF SOIL BENEATH THE PIPE IS CONSIDERED UNACCEPTABLE BY THE S&WB INSPECTOR, THE SOIL MUST BE REMOVED DOWN TO STABLE AND ACCEPTABLE MATERIAL, AND REPLACED WITH COMPACTED PUMPED SAND.
6. ALL PIPE JOINTS TO BE WRAPPED WITH 2' WIDE FILTER CLOTH WITH 3 FT. MIN. OVERLAP.
7. ALL PIPE TO BE RCP CLASS III UNLESS OTHERWISE NOTED.

CONCRETE PIPE BEDDING SECTIONS FROM 12" TO 42"

SCALE: N.T.S.

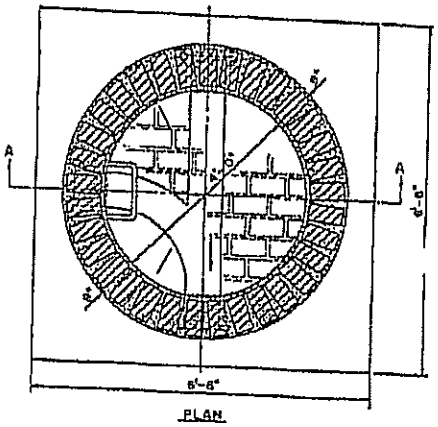
SHEET NO. 219

Orleans

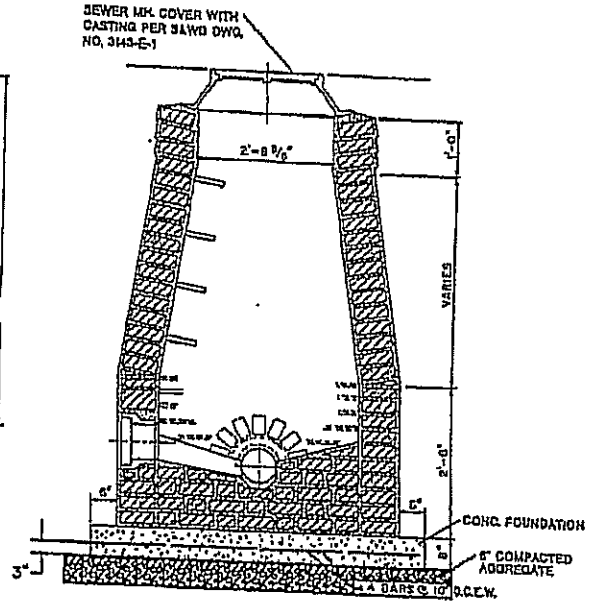
BEWERAGE AND WATER BOARD OF NEW ORLEANS

TYPICAL SECTIONS OF CONCRETE PIPE BEDDING FROM 12" TO 42" PIPE

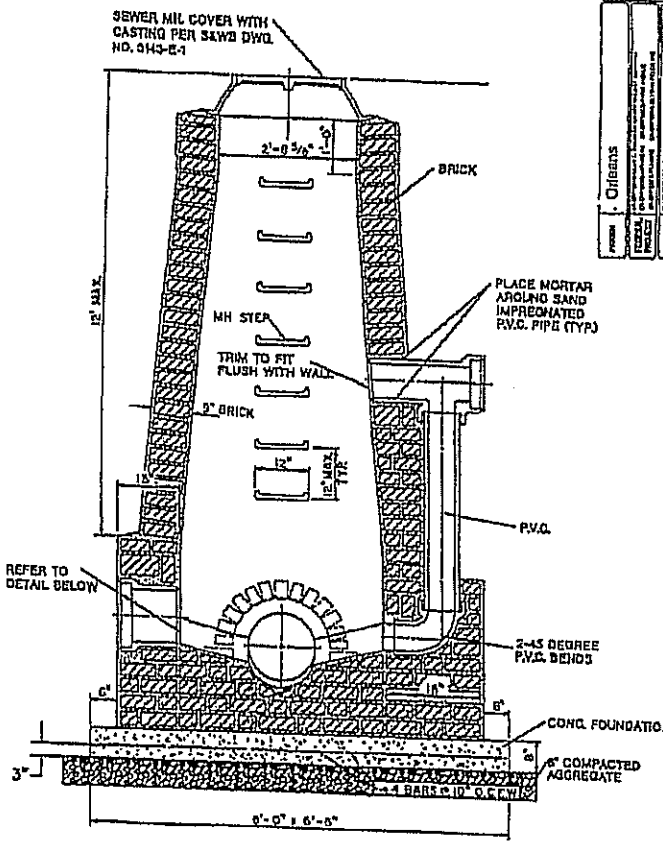
DWG. NO. D-3809



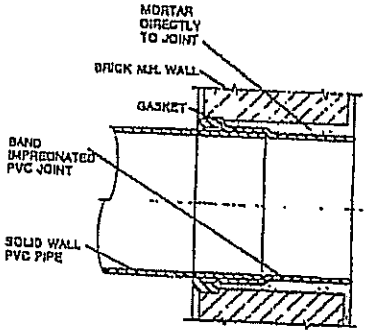
PLAN



SECTION A-A
TYPICAL



SECTION OF SEWER DROP MANHOLE
N. T. S.



BRICK WALL DETAIL
N. T. S.

NOTES:

1. MANHOLE WALL THICKNESS IS 9" TO A DEPTH OF 12' AND 13" THICK BELOW 12' DEPTH.
2. MANHOLES THAT EXCEED 17' IN DEPTH SHALL USE A 10" CONCRETE SLAB IN LIEU OF AN 8" CONCRETE SLAB.
3. SEWER MANHOLE WALLS SHALL BE MADE ADEQUATELY RESISTANT TO HARSH AGGRESSIVE CHEMICALS BY EITHER AN APPROVED CONCRETE BATCH ADDITIVE OR PROTECTIVE WATERPROOFING COMPOUND.
4. A DROP CONNECTION SHALL BE CONSTRUCTED WHERE THE INFLOW INVERTS ARE 18" OR MORE ABOVE THE OUTFLOW INVERTS.
5. REFERENCE DWG. NO. D-1359 FOR STEPS.
6. CONCRETE TO HAVE A MIN. COMPRESSIVE STRENGTH OF 3,000 P.S.I. IN 28 DAYS.

SHEET NUMBER 220

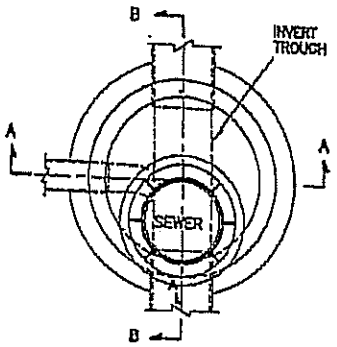
Orleans

SCALE: N.T.S.

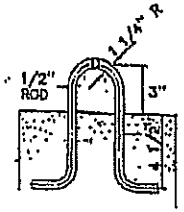
SEWERAGE AND WATER BOARD OF NEW ORLEANS

TYPICAL SEWER BRICK MANHOLE AND DROP MANHOLE

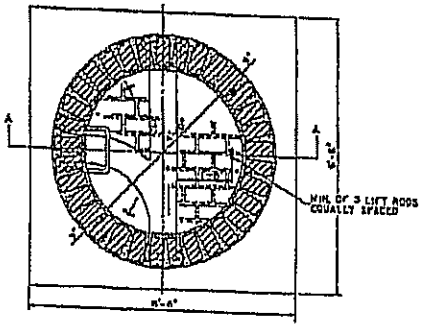
DWG. NO. 6178-B-6



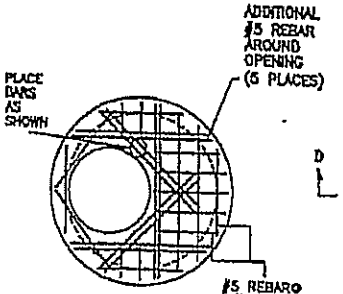
PLAN VIEW



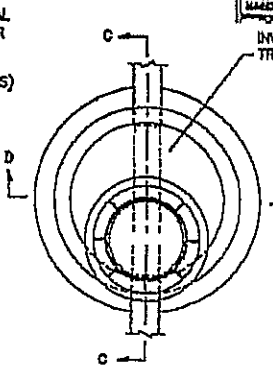
LIFTING EYE DETAIL



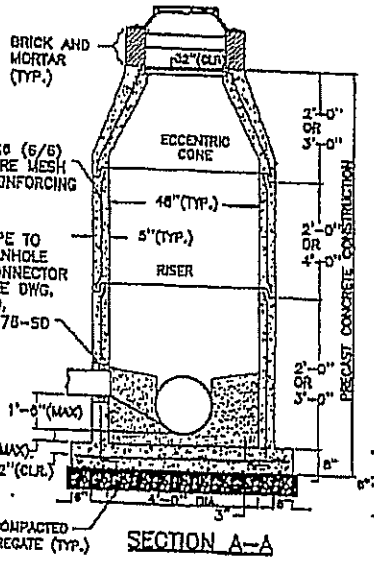
PLAN OF MANHOLE TROUGH



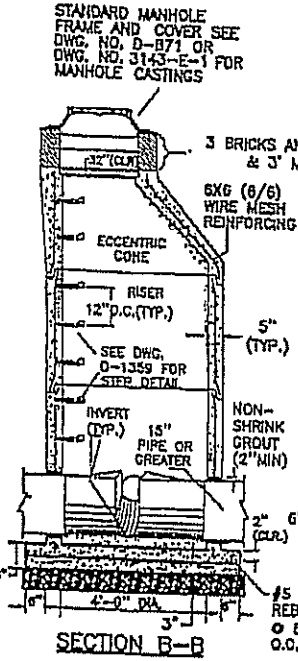
CONCRETE TOP SLAB PLAN



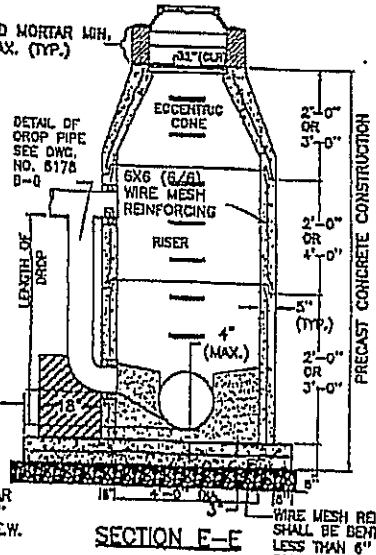
PLAN VIEW



SECTION A-A



SECTION B-B

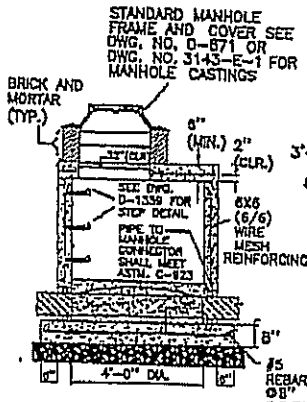


SECTION E-E

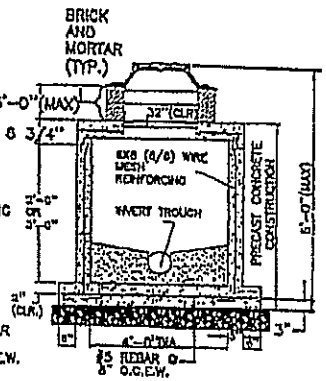
STANDARD MANHOLE DETAIL

STANDARD DROP MANHOLE DETAIL

SCALE: N.T.S.



SECTION C-C



SECTION D-D

NOTES:

1. REINFORCING STEEL TO MEET A.S.T.M. A-615 GRADE 60. CONCRETE TO BE 4000 P.S.I. IN 28 DAYS, TYPE II CEMENT. REINFORCING TO MEET A.A.S.H.O. HD-40.
2. JOINTS BETWEEN PRECAST UNITS WILL BE SEALED WITH A RUBBER GASKET TO MEET A.S.T.M. C-443.
3. PRECAST CONCRETE STRUCTURE TO MEET A.S.T.M. C-478.
4. 6"-15" PIPE, USE RESILIENT BOOT CONNECTOR.
5. 16" OR LARGER PIPE, USE MIN. 2" NON-SHRINK GROUT.
6. MANHOLES THAT EXCEED 17' IN DEPTH SHALL USE A 10" THICK BASE IN LIEU OF AN 8" THICK BASE.
7. SEWER MANHOLE WALLS SHALL BE MADE ADEQUATELY RESISTANT TO HARSH AGGRESSIVE CHEMICALS BY EITHER AN APPROVED CONCRETE BATCH ADDITIVE OR PROTECTIVE WATERPROOFING COMPOUND.
8. A DROP CONNECTION SHALL BE CONSTRUCTED WHERE THE INFLOW INVERTS ARE 18" OR MORE ABOVE THE OUTFLOW INVERTS.
9. REFERENCE DWG. NO. D-1359 FOR STEPS.

NO.	DATE	DESCRIPTION	BY

BEVERAGE AND WATER BOARD OF NEW ORLEANS

TYPICAL PRE-CAST CONCRETE MANHOLE

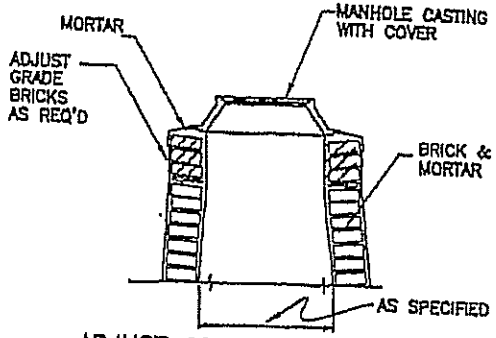
DWG. NO. 6178-B-6A

SHEET NUMBER 221

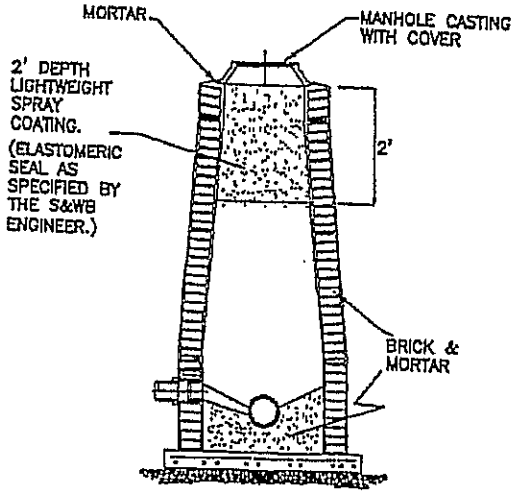
ORLEANS

19

I-236



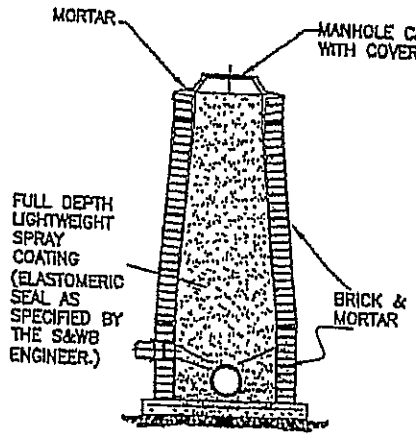
ADJUST OR REPLACE EXISTING MANHOLE FRAME AND COVER



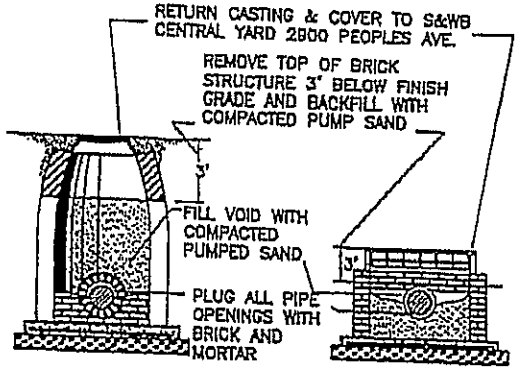
MANHOLE REHABILITATION 2' DEPTH WITH SPRAY APPLED STRUCTURAL CEMENTITIOUS LINER

NOTES:

1. LOCATION OF LINER MAY VARY AS SPECIFIED BY THE S&WB ENGINEER.



MANHOLE REHABILITATION FULL DEPTH WITH SPRAY APPLIED STRUCTURAL CEMENTITIOUS LINER



TYPICAL ABANDON MANHOLE AND CATCH BASIN DETAIL

SHEET NUMBER 222

Orleans

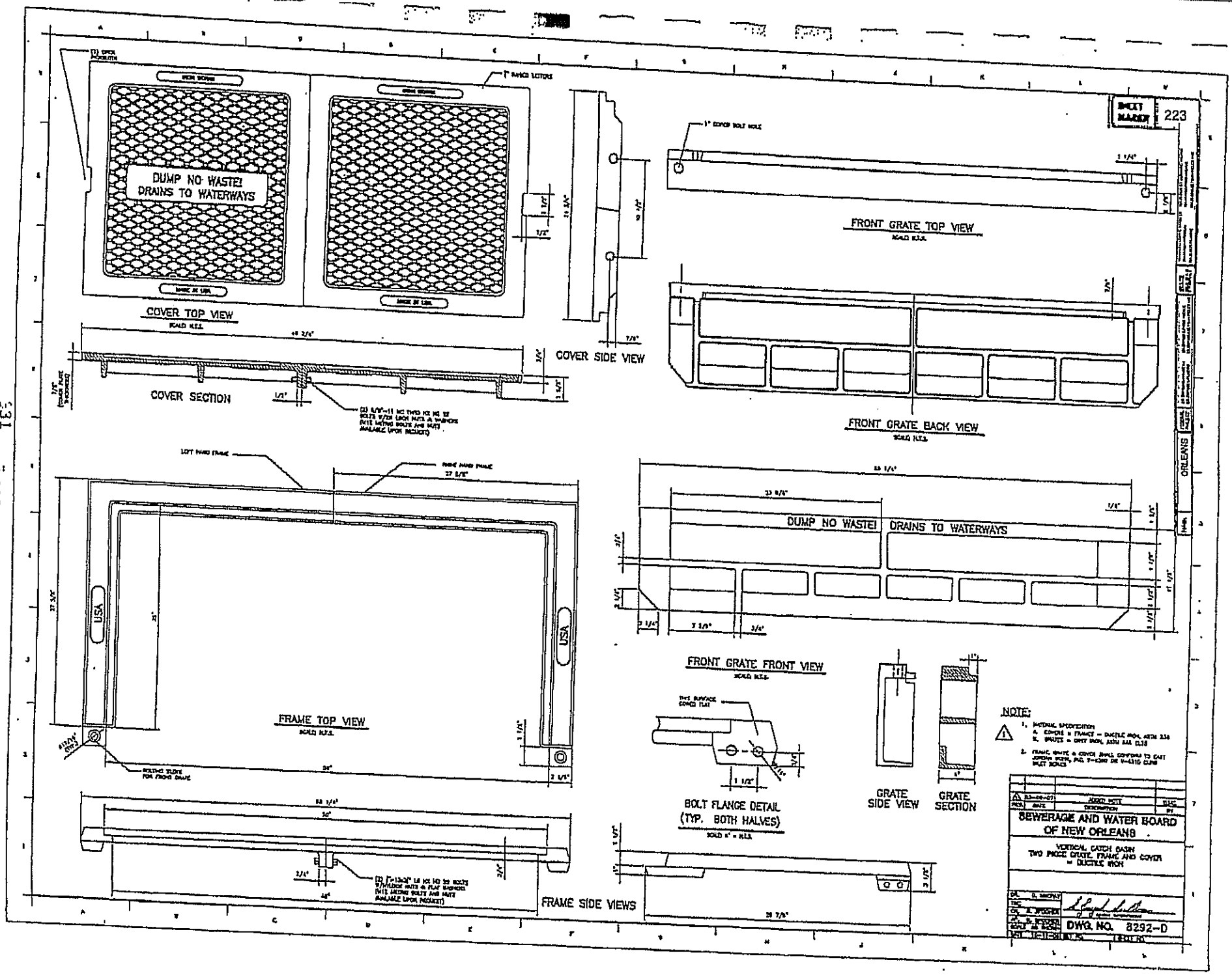
SCALE: N.T.S.

NO.	DATE	DESCRIPTION	BY

SEWERAGE AND WATER BOARD OF NEW ORLEANS

MANHOLE ADJUSTMENT AND REHABILITATION

DWG. NO. 8180-SD


DUMP NO WASTE!
DRAINS TO WATERWAYS
COVER TOP VIEW
COVER SIDE VIEW
COVER SECTION
FRONT GRATE TOP VIEW
FRONT GRATE BACK VIEW
FRONT GRATE FRONT VIEW
FRAME TOP VIEW
USA
FRAME SIDE VIEWS
BOLT FLANGE DETAIL
(TYP. BOTH HALVES)
GRATE
SIDE VIEW
GRATE
SECTION
SHEET NUMBER 223
ORLEANS
NOTE:
SEWERAGE AND WATER BOARD
OF NEW ORLEANS
VERTICAL CATCH BASIN
TWO PIECE GRATE, FRAME AND COVER
— DUCTILE IRON
DWG. NO. 8292-D

I-238

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STATE OF LOUISIANA
DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT

CONSTRUCTION PROPOSAL INFORMATION FOR

FEDERAL AID PROJECT

STATE PROJECT NO(S).
704-36-0032, 704-36-0034, 704-36-0035, 704-36-0036, 704-36-0037 & 704-36-0038
PERMANENT REPAIR TO FEDERAL AID ELIGILBE ROADS
LEON C. SIMON DR., MIRABEAU AVE., FILMORE AVE., ST. BERNARD AVE., PARIS AVE. & ELYSIAN FIELDS AVE.
ORLEANS PARISH

CONTRACT TIME FORM
COST-PLUS-TIME BIDDING PROCEDURE
(A + B) METHOD

STATE PROJECT NO(S).	**704-36-0032, 704-36-0034, 704-36-0035, 704-36-0036, 704-36-0037 & 704-36-0038**
FEDERAL AID PROJECT NO(S).	**ER-ERP1(048), ER-ERP1(050), ER-ERP1(051), ER-ERP1(052), ER-ERP1(053) & ER-ERP1(054)**
NAME OF PROJECT	**Permanent Repair to Federal Aid Eligible Roads**
ROUTE	**Leon C. Simon Dr., Mirabeau Ave., Filmore Ave., St. Bernard Ave., Paris Ave. & Elysian Fields Ave.**
PARISH	**Orleans**

CONTRACT TIME

The bidder shall determine the number of calendar days required for completion and final acceptance of the project and shall state this required time, in words, in the space provided below. The proposed completion time will be a factor used in considering bids for award of contract in accordance with the special provision, COST-PLUS-TIME BIDDING PROCEDURE (A+B METHOD). The stated number of calendar days required for completion will be the contract time for this project should the bidder be successful. Bids not including a contract time will be considered irregular and will be rejected.

CONTRACT TIME (Calendar Days To Completion, In Words)
_____ Calendar Days

Form CS-01
A + B

BID BOND

A Bid Bond is required when the bidder's total bid amount as calculated by the Department in accordance with Subsection 103.01 is greater than $50,000. *(See Section 102 of the Project Specifications.)*

_____, as Principal (Bidder) and _____, as Surety, are bound unto the State of Louisiana, Department of Transportation and Development, (hereinafter called the Department) in the sum of five percent (5%) of the bidder's total bid amount as calculated by the Department for payment, of which the Principal and Surety bind themselves, their heirs, executors, administrators, successors and assigns, as solidary obligors.

Signed and sealed this _____ day of _____, 20_____.

The condition of this obligation is such that, whereas the Principal has submitted a bid to the Department on a contract for the construction of **STATE PROJECT NO(S). 704-36-0032, 704-36-0034, 704-36-0035, 704-36-0036, 704-36-0037 & 704-36-0038; FEDERAL AID PROJECT NO(S). ER-ERP1(048), ER-ERP1(050), ER-ERP1(051), ER-ERP1(052), ER-ERP1(053) & ER-ERP1(054); LEON C. SIMON DR., MIRABEAU AVE., FILMORE AVE., ST. BERNARD AVE., PARIS AVE. & ELYSIAN FIELDS AVE.; ORLEANS PARISH,** if the bid is accepted and the Principal, within the specified time, enters into the contract in writing and gives bond with Surety acceptable to the Department for payment and performance of said contract, this obligation shall be void; otherwise to remain in effect.

_____	_____
Principal (Bidder or First Partner to Joint Venture)	If a Joint Venture, Second Partner
By _____	By _____
Authorized Officer-Owner-Partner	Authorized Officer-Owner-Partner
_____	_____
Typed or Printed Name	Typed or Printed Name

_____
Surety

By _____ (Seal)

Agent or Attorney-in-Fact

_____
Typed or Printed Name

To receive a copy of the contract and subsequent correspondence / communication from LA DOTD, with respect to the bid bonds, the following information must be provided:

_____	_____
Bonding Agency or Company Name	Address
_____	_____
Agent or Representative	Phone Number / Fax Number

07/07
Form CS-2A

Louisiana Department of Transportation and Development

Proposal Schedule of Items

Contract ID: 704-36-0032

Project(s): 704-36-0032, 704-36-0034, 704-36-0035, 704-36-0036, 704-36-0037, 704-36-0038

SECTION: 1 General Items

Proposal Line Number	Item ID	Description Unit Price (In Words, Ink or Typed)	Approximate Quantity	Unit of Measure
0001	202-02-06100	Removal of Concrete Walks and Drives	28,235.000	SQYD
		_____ Dollars		
		_____ Cents		
0002	204-06-00100	Temporary Silt Fencing	10,498.000	LNFT
		_____ Dollars		
		_____ Cents		
0003	402-01-00100	Traffic Maintenance Aggregate (Vehicular Measurement)	3,000.000	CUYD
		_____ Dollars		
		_____ Cents		
0004	502-01-00100	Superpave Asphaltic Concrete	34,630.300	TON
		_____ Dollars		
		_____ Cents		
0005	502-01-00200	Superpave Asphaltic Concrete, Drives, Turnouts and Miscellaneous	4,743.700	TON
		_____ Dollars		
		_____ Cents		
0006	509-01-00100	Cold Planing Asphaltic Pavement	241,792.900	SQYD
		_____ Dollars		
		_____ Cents		
0007	510-01-00200	Pavement Patching (12" Minimum Thickness)	6,073.100	SQYD
		_____ Dollars		
		_____ Cents		

Contract ID: 704-36-0032 **Project(s):** 704-36-0032, 704-36-0034, 704-36-0035, 704-36-0036, 704-36-0037, 704-36-0038

SECTION: 1 General Items

Proposal Line Number	Item ID	Description / Unit Price (In Words, Ink or Typed)	Approximate Quantity	Unit of Measure
0008	602-02-00100	Cleaning and Resealing Existing Longitudinal and Transverse Pavement Joints	399,019.000	LNFT
		_____ Dollars		
		_____ Cents		
0009	701-03-01020	Storm Drain Pipe (18" RCP/PP)	36.000	LNFT
		_____ Dollars		
		_____ Cents		
0010	701-03-01040	Storm Drain Pipe (24" RCP/PP)	40.000	LNFT
		_____ Dollars		
		_____ Cents		
0011	706-01-00100	Concrete Walk (4" Thick)	26,024.100	SQYD
		_____ Dollars		
		_____ Cents		
0012	706-01-00300	Concrete Walk (6" Thick)	2,216.600	SQYD
		_____ Dollars		
		_____ Cents		
0013	706-02-00200	Concrete Drive (6" Thick)	575.000	SQYD
		_____ Dollars		
		_____ Cents		
0014	713-01-00100	Temporary Signs and Barricades		LUMP SUM
		_____ Dollars		
		_____ Cents		

Contract ID: 704-36-0032

Project(s): 704-36-0032, 704-36-0034, 704-36-0035, 704-36-0036, 704-36-0037, 704-36-0038

SECTION: 1 General Items

Proposal Line Number	Item ID	Description Unit Price (In Words, Ink or Typed)	Approximate Quantity	Unit of Measure
0015	713-02-00100	Temporary Pavement Markings (4" Width)	60,173.000	LNFT
		_____ Dollars		
		_____ Cents		
0016	713-02-00200	Temporary Pavement Markings (6" Width)	6,268.000	LNFT
		_____ Dollars		
		_____ Cents		
0017	713-02-00300	Temporary Pavement Markings (8" Width)	300.000	LNFT
		_____ Dollars		
		_____ Cents		
0018	713-02-00400	Temporary Pavement Markings (12" Width)	3,585.000	LNFT
		_____ Dollars		
		_____ Cents		
0019	717-01-00100	Seeding	1,000.000	LB
		_____ Dollars		
		_____ Cents		
0020	718-01-00100	Fertilizer	12,000.000	LB
		_____ Dollars		
		_____ Cents		
0021	719-01-02020	Plants (Tree) (Container) (1 1/2" diameter) (Chionanthus virginicus)(1 1/2" min. caliper; 1" min. d.b.h.; 10' tall min.; straight trunk; 5' min. crotch height)	140.000	EACH
		_____ Dollars		
		_____ Cents		

Contract ID: 704-36-0032 **Project(s):** 704-36-0032, 704-36-0034, 704-36-0035, 704-36-0036, 704-36-0037, 704-36-0038

SECTION: 1 General Items

Proposal Line Number	Item ID	Description Unit Price (In Words, Ink or Typed)	Approximate Quantity	Unit of Measure
0022	719-01-02020	Plants (Tree) (Container) (1 1/2" diameter) (Pistacia chinensis)(1 1/2" min. caliper; 1" min. d.b.h.; 10' tall min.; straight trunk; 5' min. crotch height)	86.000	EACH
		_____ Dollars		
		_____ Cents		
0023	719-01-02020	Plants (Tree) (Container) (1 1/2" diameter) (Magnolia grandiflora "Little Gem")(1 1/2" min. caliper; 1" min. d.b.h.; 10' tall min.; stralght trunk; 5' min. crotch height)	92.000	EACH
		_____ Dollars		
		_____ Cents		
0024	719-01-02020	Plants (Tree) (Container) (1 1/2" diameter) (Magnolia virginiana "Aiken")(1 1/2" min. caliper; 1" min. d.b.h.; 10' tall min.; straight trunk; 5' min. crotch height)	104.000	EACH
		_____ Dollars		
		_____ Cents		
0025	719-01-02020	Plants (Tree) (Container) (1 1/2" diameter) (Ilex x attenuata "Savannah")(1 1/2" min. caliper; 1" min. d.b.h.; 10' tall min.; straight trunk; 5' min. crotch height)	90.000	EACH
		_____ Dollars		
		_____ Cents		
0026	719-01-02020	Plants (Tree) (Container) (1 1/2" diameter) (Halesia diptera magniflora))(1 1/2" min. caliper; 1" min. d.b.h.; 10' tall min.; straight trunk; 5' min. crotch height)	58.000	EACH
		_____ Dollars		
		_____ Cents		
0027	719-01-02060	Plants (Tree) (Container) (2 1/2" diameter) (Magnolia grandiflora "Samuel Sommer")(2 1/2" min. caliper; 2" min. d.b.h.; 10' tall min.; straight trunk; 5' min. crotch height)	30.000	EACH
		_____ Dollars		
		_____ Cents		

Contract ID: 704-36-0032 **Project(s):** 704-36-0032, 704-36-0034, 704-36-0035, 704-36-0036, 704-36-0037, 704-36-0038

SECTION: 1 General Items

Proposal Line Number	Item ID	Description Unit Price (In Words, Ink or Typed)	Approximate Quantity	Unit of Measure
0028	719-01-02060	Plants (Tree) (Container) (2 1/2" diameter) (Quercus nuttallii)(2 1/2" min. caliper; 2" min. d.b.h.; 10' tall min.; straight trunk; 5' min. crotch height)	48.000	EACH
		_____ Dollars		
		_____ Cents		
0029	719-01-02060	Plants (Tree) (Container) (2 1/2" diameter) (Pinus taeda)(2 1/2" min. caliper; 2" min. d.b.h.; 10' tall min.; straight trunk; 5' min. crotch height)	10.000	EACH
		_____ Dollars		
		_____ Cents		
0030	719-01-02060	Plants (Tree) (Container) (2 1/2" diameter) (Quercus virginiana)(2 1/2" min. caliper; 2" min. d.b.h.; 10' tall min.; straight trunk; 5' min. crotch height)	238.000	EACH
		_____ Dollars		
		_____ Cents		
0031	719-01-02060	Plants (Tree) (Container) (2 1/2" diameter) (Magnolia grandiflora "DD Blanchard")(2 1/2" min. caliper; 2" min. d.b.h.; 10' tall min.; straight trunk; 5' min. crotch height)	157.000	EACH
		_____ Dollars		
		_____ Cents		
0032	719-01-02060	Plants (Tree) (Container) (2 1/2" diameter) (Taxodium distichum)(2 1/2" min. caliper; 2" min. d.b.h.; 10' tall min.; straight trunk; 5' min. crotch height)	37.000	EACH
		_____ Dollars		
		_____ Cents		
0033	719-01-07000	Plants (Palm) (Balled & Burlapped) (Minimum 3' Trunk Height) (Phoenix canariensis) (3' min. clear trunk)	40.000	EACH
		_____ Dollars		
		_____ Cents		

Contract ID: 704-36-0032

Project(s): 704-36-0032, 704-36-0034, 704-36-0035, 704-36-0036, 704-36-0037, 704-36-0038

SECTION: 1 General Items

Proposal Line Number	Item ID	Description	Approximate Quantity	Unit of Measure
0034	723-02-00100	Granular Material (Vehicular Measurement)	950.000	CUYD
		Unit Price (In Words, Ink or Typed)		Dollars
				Cents
0035	727-01-00100	Mobilization		LUMP SUM
				Dollars
				Cents
0036	729-01-00100	Sign (Type A)	1,064.000	SQFT
				Dollars
				Cents
0037	729-21-00100	U-Channel Post	240.000	EACH
				Dollars
				Cents
0038	731-02-00100	Reflectorized Raised Pavement Markers	2,327.000	EACH
				Dollars
				Cents
0039	732-01-01000	Plastic Pavement Striping (4" Width) (Thermoplastic 90 mil)	1,360.000	LNFT
				Dollars
				Cents
0040	732-01-01020	Plastic Pavement Striping (6" Width) (Thermoplastic 90 mil)	68,694.000	LNFT
				Dollars
				Cents
0041	732-01-01040	Plastic Pavement Striping (8" Width) (Thermoplastic 90 mil)	1,197.000	LNFT
				Dollars
				Cents

Contract ID: 704-36-0032 **Project(s):** 704-36-0032, 704-36-0034, 704-36-0035, 704-36-0036, 704-36-0037, 704-36-0038

SECTION: 1 General Items

Proposal Line Number	Item ID	Description Unit Price (In Words, Ink or Typed)	Approximate Quantity	Unit of Measure
0042	732-01-01060	Plastic Pavement Striping (12" Width) (Thermoplastic 90 mil)	3,585.000	LNFT
		_____ Dollars		
		_____ Cents		
0043	732-02-02000	Plastic Pavement Striping (Solid Line) (4" Width) (Thermoplastic 90 mil)	12.002	MILE
		_____ Dollars		
		_____ Cents		
0044	732-03-02000	Plastic Pavement Striping (Broken Line) (4" Width) (Thermoplastic 90 mil)	11.394	MILE
		_____ Dollars		
		_____ Cents		
0045	732-04-01020	Plastic Pavement Legends and Symbols (Arrow - Straight)	106.000	EACH
		_____ Dollars		
		_____ Cents		
0046	732-04-01080	Plastic Pavement Legends and Symbols (Arrow - Left Turn)	3.000	EACH
		_____ Dollars		
		_____ Cents		
0047	732-04-01100	Plastic Pavement Legends and Symbols (Arrow - Right Turn)	9.000	EACH
		_____ Dollars		
		_____ Cents		
0048	732-04-02000	Plastic Pavement Legends and Symbols (Bicycle)	240.000	EACH
		_____ Dollars		
		_____ Cents		

Contract ID: 704-36-0032 **Project(s):** 704-36-0032, 704-36-0034, 704-36-0035, 704-36-0036, 704-36-0037, 704-36-0038

SECTION: 1 General Items

Proposal Line Number	Item ID	Description Unit Price (In Words, Ink or Typed)	Approximate Quantity	Unit of Measure
0049	732-04-15020	Plastic Pavement Legends and Symbols (ONLY)	11.000	EACH
		_____ Dollars		
		_____ Cents		
0050	732-04-19020	Plastic Pavement Legends and Symbols (SCHOOL ZONE)	14.000	EACH
		_____ Dollars		
		_____ Cents		
0051	736-09-00100	Loop Detector	1,563.000	LNFT
		_____ Dollars		
		_____ Cents		
0052	740-01-00100	Construction Layout		LUMP SUM
		_____ Dollars		
		_____ Cents		
0053	741-11-00100	Adjusting Water Valve	61.000	EACH
		_____ Dollars		
		_____ Cents		
0054	NS-SRP-00001	ADA Ramps (Type A)	221.000	EACH
		_____ Dollars		
		_____ Cents		
0055	NS-SRP-00002	ADA Ramps (Type B)	361.000	EACH
		_____ Dollars		
		_____ Cents		
0056	NS-SRP-00004	Adjust (Manhole)	113.000	EACH
		_____ Dollars		
		_____ Cents		

Contract ID: 704-36-0032 **Project(s):** 704-36-0032, 704-36-0034, 704-36-0035, 704-36-0036, 704-36-0037, 704-36-0038

SECTION: 1 General Items

Proposal Line Number	Item ID	Description Unit Price (in Words, Ink or Typed)	Approximate Quantity	Unit of Measure
0057	NS-SRP-00005	Adjust Catch Basin (Type A)	67.000	EACH
		_____ Dollars		
		_____ Cents		
0058	NS-SRP-00012	Concrete Pavement Repair (18.0 sq. yd. and Under)	558.100	SQYD
		_____ Dollars		
		_____ Cents		
0059	NS-SRP-00013	Concrete Pavement Repair (18.1 sq. yd. to 48.0 sq. yd.)	5,436.600	SQYD
		_____ Dollars		
		_____ Cents		
0060	NS-SRP-00014	Concrete Pavement Repair (48.1 sq. yd. and Over)	37,213.600	SQYD
		_____ Dollars		
		_____ Cents		
0061	NS-SRP-00016	Doweled Barrier	5,850.000	LNFT
		_____ Dollars		
		_____ Cents		
0062	NS-SRP-00017	Doweled Mountable Curb	792.000	LNFT
		_____ Dollars		
		_____ Cents		
0063	NS-SRP-00018	Drilled and Doweled Barrier	6,148.000	LNFT
		_____ Dollars		
		_____ Cents		
0064	NS-SRP-00019	Drilled and Doweled Mountable Curb	1,258.000	LNFT
		_____ Dollars		
		_____ Cents		

Contract ID: 704-36-0032

Project(s): 704-36-0032, 704-36-0034, 704-36-0035, 704-36-0036, 704-36-0037, 704-36-0038

SECTION: 1

General Items

Proposal Line Number	Item ID	Description	Approximate Quantity	Unit of Measure
0065	NS-SRP-00023	Pipe (Storm Drain) (21 inch)	372.000	LNFT
		Unit Price (In Words, Ink or Typed)		Dollars
				Cents
0066	NS-SRP-00026	Pipe Lining (Cured In-Place) (18 inch)	356.000	LNFT
				Dollars
				Cents
0067	NS-SRP-00027	Pipe Lining (Cured In-Place) (21 inch)	240.000	LNFT
				Dollars
				Cents
0068	NS-SRP-00028	Pipe Lining (Cured In-Place) (24 inch)	385.000	LNFT
				Dollars
				Cents
0069	NS-SRP-00029	Project Signs (SRP)	12.000	EACH
				Dollars
				Cents
0070	NS-SRP-00030	Reconstruct Barrier Curb and Gutter	688.000	LNFT
				Dollars
				Cents
0071	NS-SRP-00031	Reconstruct Mountable Curb and Gutter	344.000	LNFT
				Dollars
				Cents
0072	NS-SRP-00032	Rehabilitate Catch Basins	21.000	EACH
				Dollars
				Cents

Contract ID: 704-36-0032

Project(s): 704-36-0032, 704-36-0034, 704-36-0035, 704-36-0036, 704-36-0037, 704-36-0038

SECTION: 1 General Items

Proposal Line Number	Item ID	Description Unit Price (In Words, Ink or Typed)	Approximate Quantity	Unit of Measure
0073	NS-SRP-00033	Rehabilitate Manholes	10.000	EACH
		_____ Dollars		
		_____ Cents		
0074	NS-SRP-00037	Replace Frame and Cover (Manhole Drain)	7.000	EACH
		_____ Dollars		
		_____ Cents		
0075	NS-SRP-00038	Replace Frame and Cover (Catch Basin)	33.000	EACH
		_____ Dollars		
		_____ Cents		
0076	NS-SRP-00040	Replace Frame and Cover (Sanitary Sewer)	7.000	EACH
		_____ Dollars		
		_____ Cents		
0077	NS-SRP-00044	Tree Protection		LUMP SUM
		_____ Dollars		
		_____ Cents		
0078	NS-SRP-00045	Tree Trimming		LUMP SUM
		_____ Dollars		
		_____ Cents		
0079	NS-SRP-00046	Root Pruning and Trenching		LUMP SUM
		_____ Dollars		
		_____ Cents		
0080	NS-SRP-00048	Gravel Bed and Filter Cloth Over Tree Roots	369.000	SQYD
		_____ Dollars		
		_____ Cents		

Contract ID: 704-36-0032

Project(s): 704-36-0032, 704-36-0034, 704-36-0035, 704-36-0036, 704-36-0037, 704-36-0038

SECTION: 1 General Items

Proposal Line Number	Item ID	Description Unit Price (In Words, Ink or Typed)	Approximate Quantity	Unit of Measure
0081	NS-SRP-00053	Crack Filler (Sand AC)	22,100.000	LNFT
		_____ Dollars		
		_____ Cents		
0082	NS-SRP-00054	Pipe (Storm Drain) [12 inch (300 mm)]	6.000	LNFT
		_____ Dollars		
		_____ Cents		

Section: 1 Total: _____.__

Items Total: _____.__

Cost Plus Time		Road User Cost Per Unit	Unit Type	Number of Units Bid
01	(A+B Method) - No Max Time	5,000.00	Days	_____

Total Bid: _____.__

CONSTRUCTION PROPOSAL SIGNATURE AND EXECUTION FORM

THIS FORM, THE SCHEDULE OF ITEMS, AND THE PROPOSAL GUARANTY MUST BE COMPLETED AS INDICATED AND SUBMITTED TO THE LOUISIANA DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT (DOTD) TO CONSTITUTE A VALID BID

STATE PROJECT NO(S).	**704-36-0032, 704-36-0034, 704-36-0035, 704-36-0036, 704-36-0037 & 704-36-0038**
FEDERAL AID PROJECT NO(S).	**ER-ERP1(048), ER-ERP1(050), ER-ERP1(051), ER-ERP1(052), ER-ERP1(053) & ER-ERP1(054)**
NAME OF PROJECT	**LEON C. SIMON DR., MIRABEAU AVE., FILMORE AVE., ST. BERNARD AVE., PARIS AVE. & ELYSIAN FIELDS AVE.**

I (WE) HEREBY CERTIFY THAT I (WE) HAVE CAREFULLY EXAMINED THE PROPOSAL, PLANS AND SPECIFICATIONS, INCLUDING ANY AND ALL ADDENDA, AND THE SITE OF THE ABOVE PROJECT AND AM (ARE) FULLY COGNIZANT OF ALL PROPOSAL DOCUMENTS, THE MASTER COPY OF WHICH IS ON FILE AT DOTD HEADQUARTERS IN BATON ROUGE, LA., AND ALL WORK, MATERIALS AND LABOR REQUIRED THEREIN, AND AGREE TO PERFORM ALL WORK, AND SUPPLY ALL NECESSARY MATERIALS AND LABOR REQUIRED FOR SUCCESSFUL AND TIMELY COMPLETION OF THE ABOVE PROJECT AND TO ACCEPT THE SUMMATION OF THE PRODUCTS OF THE UNIT PRICES BID ON THE SCHEDULE OF ITEMS ATTACHED HERETO AND MADE A PART HEREOF MULTIPLIED BY THE ACTUAL QUANTITY OF UNIT OF MEASURE PERFORMED FOR EACH ITEM, AS AUDITED BY DOTD, AS FULL AND FINAL PAYMENT FOR ALL WORK, LABOR AND MATERIALS NECESSARY TO COMPLETE THE ABOVE PROJECT, SUBJECT TO INCREASE ONLY FOR PLAN CHANGES (CHANGE ORDERS) APPROVED BY THE DOTD CHIEF ENGINEER OR HIS DESIGNEE. THIS BID IS SUBMITTED IN ACCORDANCE WITH THE GENERAL BIDDING REQUIREMENTS IN THE CONSTRUCTION PROPOSAL AND ALL SPECIAL PROVISIONS, PLANS, SUPPLEMENTAL SPECIFICATIONS, AND THE LOUISIANA STANDARD SPECIFICATIONS FOR ROADS AND BRIDGES (2006 EDITION). I (WE) UNDERSTAND THAT THE SUMMATION OF THE PRODUCTS OF THE UNIT PRICES BID ON THE SCHEDULE OF ITEMS MULTIPLIED BY THE ESTIMATED QUANTITY OF UNIT OF MEASURE FOR EACH ITEM, ALONG WITH ANY OTHER FACTORS SPECIFIED TO BE APPLICABLE SUCH AS CONSTRUCTION TIME AND/OR LANE RENTAL, SHALL BE THE BASIS FOR THE COMPARISON OF BIDS. I (WE) UNDERSTAND THAT THE SCHEDULE OF ITEMS MUST CONTAIN UNIT PRICES WRITTEN OUT IN WORDS AND THAT THE SCHEDULE OF ITEMS SUBMITTED AS PART OF THIS BID IS ON THE FORM SUPPLIED BY DOTD IN THE BID PROPOSAL. MY (OUR) PROPOSAL GUARANTY IN THE AMOUNT SPECIFIED FOR THE PROJECT IS ATTACHED HERETO AS EVIDENCE OF MY (OUR) GOOD FAITH TO BE FORFEITED IF THIS BID IS ACCEPTED BY DOTD AND I (WE) FAIL TO COMPLY WITH ANY REQUIREMENT NECESSARY FOR AWARD AND EXECUTION OF THE CONTRACT, AS WELL AS, SIGN AND DELIVER THE CONTRACT AND PAYMENT/PERFORMANCE/RETAINAGE BOND AS REQUIRED IN THE SPECIFICATIONS.

NONCOLLUSION DECLARATION (APPLICABLE TO FEDERAL-AID PROJECTS)

I (WE) DECLARE UNDER PENALTY OF PERJURY UNDER THE LAWS OF THE UNITED STATES AND THE STATE OF LOUISIANA THAT I (WE) HAVE NOT DIRECTLY OR INDIRECTLY, ENTERED INTO ANY AGREEMENT, PARTICIPATED IN ANY COLLUSION, OR OTHERWISE TAKEN ANY ACTION IN RESTRAINT OF FREE COMPETITIVE BIDDING IN CONNECTION WITH THE CONTRACT FOR THIS PROJECT NOR VIOLATED LA. R.S. 48:254.

BIDDER'S DBE GOAL STATEMENT (APPLICABLE TO DBE GOAL PROJECTS)

IF THIS PROJECT IS DESIGNATED BY SPECIAL PROVISION AS A DISADVANTAGED BUSINESS ENTERPRISE (DBE) GOAL PROJECT IN ACCORDANCE WITH THE DBE PROVISIONS OF THIS CONTRACT, THE BIDDER ASSURES DOTD THAT HE/SHE WILL MEET OR EXCEED THE DBE CONTRACT GOAL, OR IF THE BIDDER CANNOT MEET THE REQUIRED DBE GOAL, THE BIDDER ASSURES DOTD THAT HE/SHE HAS MADE AND CAN DOCUMENT GOOD FAITH EFFORTS MADE TOWARDS MEETING THE GOAL REQUIREMENT IN ACCORDANCE WITH THE CONTRACT AND DBE PROGRAM MANUAL INCORPORATED HEREIN BY REFERENCE.

THE APPARENT LOW BIDDER SHALL COMPLETE AND SUBMIT TO THE DOTD COMPLIANCE PROGRAMS OFFICE, FORM CS-6AAA AND ATTACHMENT(S) AND, IF NECESSARY, DOCUMENTATION OF GOOD FAITH EFFORTS MADE BY THE BIDDER TOWARD MEETING THE GOAL, WITHIN TEN BUSINESS DAYS AFTER THE OPENING OF BIDS FOR THIS PROJECT. RESPONSIVENESS OF INFORMATION SUPPLIED IN THIS SECTION OF THIS CONSTRUCTION PROPOSAL SIGNATURE AND EXECUTION FORM IS GOVERNED BY THE DBE REQUIREMENTS INCLUDED WITHIN THE SPECIFICATIONS AND DBE PROGRAM MANUAL.

CERTIFICATION OF EMPLOYMENT OF LOUISIANA RESIDENTS TRANSPORTATION INFRASTRUCTURE MODEL FOR ECONOMIC DEVELOPMENT (TIME) PROJECTS (APPLICABLE TO TIME PROJECTS)

IF THIS PROJECT IS DESIGNATED BY SPECIAL PROVISION AS A TRANSPORTATION INFRASTRUCTURE MODEL FOR ECONOMIC DEVELOPMENT (TIME) PROJECT AS DEFINED IN ACT NO. 16 OF THE 1989 FIRST EXTRAORDINARY SESSION OF THE LEGISLATURE WHICH ENACTED PART V OF CHAPTER 7 OF SUBTITLE II OF TITLE 47 OF THE LOUISIANA REVISED STATUTES OF 1950, COMPRISED OF R.S. 47:820.1 THROUGH 820.6.

THE BIDDER CERTIFIES THAT AT LEAST 80 PERCENT OF THE EMPLOYEES EMPLOYED ON THIS TIME PROJECT WILL BE LOUISIANA RESIDENTS IN ACCORDANCE WITH LOUISIANA R.S. 47:820.3.

NON PARTICIPATION IN PAYMENT ADJUSTMENT (ASPHALT CEMENT AND FUELS) STATEMENT

IF THIS PROJECT IS DESIGNATED BY SPECIAL PROVISION AS BEING SUBJECT TO PAYMENT ADJUSTMENT FOR ASPHALT CEMENT AND/OR FUELS, THE BIDDER HAS THE OPTION OF REQUESTING EXCLUSION FROM SAID PAYMENT ADJUSTMENT PROVISIONS THAT ARE ESTABLISHED BY SPECIAL PROVISION ELSEWHERE HEREIN.

IF THE BIDDER DESIRES TO BE EXCLUDED FROM THESE PAYMENT ADJUSTMENT PROVISIONS,

THE BIDDER IS REQUIRED TO MARK HERE ☐

FAILURE TO MARK THIS BOX PRIOR TO BID OPENING WILL CONSTITUTE FORFEITURE OF THE BIDDER'S OPTION TO REQUEST EXCLUSION.

STATE PROJECT NO(S). **704-36-0032, 704-36-0034, 704-36-0035, 704-36-0036, 704-36-0037 & 704-36-0038**

BIDDER SIGNATURE REQUIREMENTS (APPLICABLE TO ALL PROJECTS)

THIS BID FOR THE CAPTIONED PROJECT IS SUBMITTED BY:

Name of Principal (Individual, Firm, Corporation, or Joint Venture)

If Joint Venture, Name of First Partner

(Louisiana Contractor's License Number of Bidder or First Partner to Joint Venture)

(Business Street Address)

(Business Mailing Address, if different)

(Area Code and Telephone Number of Business)

(Telephone Number and Name of Contact Person)

(Telecopier Number, if any)

If Joint Venture, Name of Second Partner

(Louisiana Contractor's License Number of Second Partner to Joint Venture)

(Business Street Address)

(Business Mailing Address, if different)

(Area Code and Telephone Number of Business)

(Telephone Number and Name of Contact Person)

(Telecopier Number, if any)

ACTING ON BEHALF OF THE BIDDER, THIS IS TO ATTEST THAT THE UNDERSIGNED DULY AUTHORIZED REPRESENTATIVE OF THE ABOVE CAPTIONED FIRM, CORPORATION OR BUSINESS, BY SUBMISSION OF THIS BID, AGREES AND CERTIFIES THE TRUTH AND ACCURACY OF ALL PROVISIONS OF THIS PROPOSAL, INCLUSIVE OF THE REQUIREMENTS, STATEMENTS, DECLARATIONS AND CERTIFICATIONS ABOVE AND IN THE SCHEDULE OF ITEMS AND PROPOSAL GUARANTY. EXECUTION AND SIGNATURE OF THIS FORM AND SUBMISSION OF THE SCHEDULE OF ITEMS AND PROPOSAL GUARANTY SHALL CONSTITUTE AN IRREVOCABLE AND LEGALLY BINDING OFFER BY THE BIDDER.

(Signature)

(Printed Name)

(Title)

(Date of Signature)

(Signature)

(Printed Name)

(Title)

(Date of Signature)

CONTRACTOR'S INFORMATIONAL BID

It is agreed that the total bid shown below, determined by the bidder, is for purposes of opening and reading bids only and that the low bidder for this project will be determined in accordance with the special provision entitled **COST-PLUS-TIME BIDDING PROCEDURE (A+B METHOD)**, as determined by the Department.

A = Summation of products of the quantities shown in the Schedule of Items multiplied by the unit prices.

A = _____

B = Bidders proposed contract time multiplied by the Daily User Cost ($5,000.00).

B = _____ Calendar Days x $5,000.00

B = _____

Contractor's Total Bid (A + B) _____

CS-14AA
08/06