

**STATE OF LOUISIANA  
DEPARTMENT OF TRANSPORTATION AND  
DEVELOPMENT**

**CONSTRUCTION PROPOSAL**



**FEDERAL AID PROJECT**

**STATE PROJECT NO(S).**

**704-36-0042, 704-36-0043, 704-36-0074 & 704-36-0084  
PERMANENT REPAIR TO FEDERAL AID ELIGIBLE ROADS  
ORLEANS AVE., N. MIRO ST., NAVARRE AVE. & GALVEZ  
ST.  
ORLEANS PARISH**

**STATE PROJECT NO(S). 704-36-0042, 704-36-0043, 704-36-0074 & 704-36-0084**

**TABLE OF CONTENTS**

	Page No.
Title Sheet.....	A-1
Table of Contents.....	B-1
Notice to Contractors.....	C-1 thru C-2
Special Provisions.....	D-1 thru D-53
Supplemental Specifications:	
Supplemental Specifications for 2006 Standard Specifications (07/09) .....	E-1 thru E-39
Water Distribution Systems (08/06).....	E-40 thru E-48
Sanitary Sewer Systems (06/09).....	E-49 thru E-53
Female and Minority Participation in Construction (01/83) .....	E-54 thru E-61
New Orleans Plan (01/83) .....	E-62 thru E-63
Required Contract Provisions, Federal-Aid Construction Contracts (04/93) (Rev. 05/94).....	F-1 thru F-10
DBE Participation in Federal Aid Construction Contracts (06/08) .....	G-1 thru G-13
Project Sign Detail .....	H-1
Minimum Wage Determination .....	I-1 thru I-4
Plans (177 sheets) .....	J-1 thru J-177
Construction Proposal Information or Returnables:	
Title Sheet.....	K-1
Contract Time Form .....	L-1
Bid Bond.....	M-1
Schedule of Items .....	N-1 thru N-8
Construction Proposal Signature and Execution Form .....	O-1 thru O-2

## 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, August 26, 2009**. **Paper bids and paper bid bonds will not be accepted.** Electronic bids and electronic bid bonds must be submitted through [www.bidx.com](http://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). 704-36-0042, 704-36-0043, 704-36-0074 & 704-36-0084**

**FEDERAL AID PROJECT NO(S). ER-ERP1(058), ER-ERP1(059), ER-ERP1(094) & ER-ERP1(117)**

**DESCRIPTION:** Permanent Repair to Federal Aid Eligible Roads

**ROUTE:** Orleans Ave., N. Miro St., Navarre Ave. & Galvez St.

**PARISH:** Orleans

**LENGTH:** 5.159 miles.

**TYPE:** COLD PLANE ASPHALTIC CONCRETE, ASPHALTIC CONCRETE PATCHING, CONCRETE PAVEMENT REPAIR, ASPHALTIC CONCRETE OVERLAY, STRIPING & CONCRETE ADA RAMPS

**LIMITS:** State Project No. 704-36-0042: Claiborne Ave. – City Park Ave.

**LIMITS:** State Project No. 704-36-0043: Orleans Ave. – Elysian Fields Ave.

**LIMITS:** State Project No. 704-36-0074: Canal Blvd. – Marconi Ave.

**LIMITS:** State Project No. 704-36-0084: Poydras St. – Orleans Ave.

**ESTIMATED COST RANGE:** \$10,000,000.00 – \$15,000,000.00

**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.

## NOTICE TO CONTRACTORS (CONTINUED)

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](mailto: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](http://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](http://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.



**STATE PROJECT NO(S). 704-36-0042, 704-36-0043, 704-36-0074 & 704-36-0084**  
**SPECIAL PROVISIONS**

**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;

**STATE PROJECT NO(S). 704-36-0042, 704-36-0043, 704-36-0074 & 704-36-0084**  
**SPECIAL PROVISIONS**

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](http://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 15 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.

**STATE PROJECT NO(S). 704-36-0042, 704-36-0043, 704-36-0074 & 704-36-0084**  
**SPECIAL PROVISIONS**

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.

$$\text{Total Bid Amount} = A + B$$

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,

**STATE PROJECT NO(S). 704-36-0042, 704-36-0043, 704-36-0074 & 704-36-0084**  
**SPECIAL PROVISIONS**

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,

**STATE PROJECT NO(S). 704-36-0042, 704-36-0043, 704-36-0074 & 704-36-0084**  
**SPECIAL PROVISIONS**

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:

**STATE PROJECT NO(S). 704-36-0042, 704-36-0043, 704-36-0074 & 704-36-0084**  
**SPECIAL PROVISIONS**

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.

**STATE PROJECT NO(S). 704-36-0042, 704-36-0043, 704-36-0074 & 704-36-0084**  
**SPECIAL PROVISIONS**

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.

**STATE PROJECT NO(S). 704-36-0042, 704-36-0043, 704-36-0074 & 704-36-0084**  
**SPECIAL PROVISIONS**

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



**STATE PROJECT NO(S). 704-36-0042, 704-36-0043, 704-36-0074 & 704-36-0084**  
**SPECIAL PROVISIONS**

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

**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 732-01-01020, 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 732-04-01080, Plastic Pavement Legends & Symbols (Arrow-Left Turn)  
ITEM 732-04-01100, Plastic Pavement Legends & Symbols (Arrow-Right Turn)  
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

**STATE PROJECT NO(S). 704-36-0042, 704-36-0043, 704-36-0074 & 704-36-0084**  
**SPECIAL PROVISIONS**

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

**STATE PROJECT NO(S). 704-36-0042, 704-36-0043, 704-36-0074 & 704-36-0084**  
**SPECIAL PROVISIONS**

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

**STATE PROJECT NO(S). 704-36-0042, 704-36-0043, 704-36-0074 & 704-36-0084**  
**SPECIAL PROVISIONS**

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:

**STATE PROJECT NO(S). 704-36-0042, 704-36-0043, 704-36-0074 & 704-36-0084**  
**SPECIAL PROVISIONS**

- 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 Subsection 108.09.

(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

**STATE PROJECT NO(S). 704-36-0042, 704-36-0043, 704-36-0074 & 704-36-0084**  
**SPECIAL PROVISIONS**

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

**STATE PROJECT NO(S). 704-36-0042, 704-36-0043, 704-36-0074 & 704-36-0084**  
**SPECIAL PROVISIONS**

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.

**STATE PROJECT NO(S). 704-36-0042, 704-36-0043, 704-36-0074 & 704-36-0084**  
**SPECIAL PROVISIONS**

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:



**STATE PROJECT NO(S). 704-36-0042, 704-36-0043, 704-36-0074 & 704-36-0084**  
**SPECIAL PROVISIONS**

**Pay Item Equivalents Eligible for Asphalt Pay Adjustment**

<b>Performance Graded Asphalt Cement</b>	<b>Equivalent PG Asphalt Cement for Payment Adjustment</b>
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 10<sup>th</sup> calendar day of each month at the following URL: [www.dotd.louisiana.gov/lettings/lac\\_price\\_index/priceindices.asp](http://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

**STATE PROJECT NO(S). 704-36-0042, 704-36-0043, 704-36-0074 & 704-36-0084**  
**SPECIAL PROVISIONS**

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.

**STATE PROJECT NO(S). 704-36-0042, 704-36-0043, 704-36-0074 & 704-36-0084  
SPECIAL PROVISIONS**

**ELIGIBLE CONTRACT PAY ITEMS & FUEL USAGE FACTORS FOR FUEL  
PAYMENT ADJUSTMENT<sup>7</sup>**

ITEM NO.	PAY ITEM	UNITS	MIN. ORIGINAL CONTRACT QUANTITY FOR PAY ADJUSTMENT	FUEL USAGE FACTORS	
				Diesel <sup>2</sup>	Gasoline
203-01 <sup>1</sup>	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 <sup>1</sup>	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 <sup>3</sup>	0.2
502-02	Superpave Asphaltic Concrete	gal/cu yd	500 cu yd	4.80 <sup>4</sup>	0.4
502-03	Superpave Asphaltic Concrete ( " Thick)	gal/sq yd	10,000 sq yd	0.13 <sup>5,6</sup>	0.01 <sup>6</sup>
508-01	Asphaltic Concrete (SMA)	gal/ton	1000 ton	2.40 <sup>3</sup>	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.

**STATE PROJECT NO(S). 704-36-0042, 704-36-0043, 704-36-0074 & 704-36-0084  
SPECIAL PROVISIONS**

**ELIGIBLE CONTRACT PAY ITEMS & FUEL USAGE FACTORS FOR FUEL  
PAYMENT ADJUSTMENT (METRIC)<sup>7</sup>**

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

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<sup>2</sup>.

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:

**STATE PROJECT NO(S). 704-36-0042, 704-36-0043, 704-36-0074 & 704-36-0084**  
**SPECIAL PROVISIONS**

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 subplot 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 subplot 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 subplot 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  $\mu$ m) 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 or 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

**STATE PROJECT NO(S). 704-36-0042, 704-36-0043, 704-36-0074 & 704-36-0084**  
**SPECIAL PROVISIONS**

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

**STATE PROJECT NO(S). 704-36-0042, 704-36-0043, 704-36-0074 & 704-36-0084**  
**SPECIAL PROVISIONS**

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.

**STATE PROJECT NO(S). 704-36-0042, 704-36-0043, 704-36-0074 & 704-36-0084**  
**SPECIAL PROVISIONS**

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



**STATE PROJECT NO(S). 704-36-0042, 704-36-0043, 704-36-0074 & 704-36-0084**  
**SPECIAL PROVISIONS**

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

**STATE PROJECT NO(S). 704-36-0042, 704-36-0043, 704-36-0074 & 704-36-0084**  
**SPECIAL PROVISIONS**

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:

<sup>2</sup>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 <sup>1</sup>

<sup>1</sup>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

**STATE PROJECT NO(S). 704-36-0042, 704-36-0043, 704-36-0074 & 704-36-0084  
SPECIAL PROVISIONS**

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 <sup>1</sup>

<sup>1</sup> 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 <sup>1</sup>			
	100	95	80	50 or Remove <sup>2</sup>
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

<sup>1</sup>Portion of lot placed on the project.

<sup>2</sup>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.

**STATE PROJECT NO(S). 704-36-0042, 704-36-0043, 704-36-0074 & 704-36-0084  
SPECIAL PROVISIONS**

**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.

**CONCRETE CURING MATERIALS, ADMIXTURES AND SPECIAL FINISHES (04/09).**

Section 1011 of the 2006 Standard Specifications is amended as follows.

Subsection 1011.01, Curing Materials is amended to delete paragraphs (b), (c), (d), and (e) and substitute the following:

(b) Moist Cure Materials:

(1) Sheet materials for curing concrete shall meet the physical and performance requirements of AASHTO M 171.

(2) Burlap Cloth made from Jute or Kenaf shall comply with AASHTO M 182, Class 3.

**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.

**STATE PROJECT NO(S). 704-36-0042, 704-36-0043, 704-36-0074 & 704-36-0084**  
**SPECIAL PROVISIONS**

**Table 1002-1**  
**Performance Graded Asphalt Cements**

Property	AASHTO Test Method	PG82-22rm <sup>6</sup>	PG76-22m	PG70-22m	PG64-22	PG58-28
		Spec.	Spec.	Spec.	Spec.	'Spec.
Tests on Original Binder:						
Rotational Viscosity @ 135°C, Pa·s <sup>1</sup>	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, % <sup>2</sup>	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 <sup>5</sup>	ASTM D 7173 AASHTO T 53	---	2-	2-	---	---
Force Ductility Ratio (f <sub>2</sub> /f <sub>1</sub> , 4°C, 5 cm/min., f <sub>2</sub> @ 30 cm elongation) <sup>3</sup>	T 300	---	0.30+	---	---	---
Force Ductility, (4°C, 5 cm/min, 30 cm elongation, kg) <sup>3</sup>	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, % <sup>4</sup>	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

<sup>1</sup>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.

**STATE PROJECT NO(S). 704-36-0042, 704-36-0043, 704-36-0074 & 704-36-0084  
SPECIAL PROVISIONS**

<sup>2</sup>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.

<sup>3</sup>AASHTO T 300 except the second peak (f<sub>2</sub>) is defined as the stress at 30 cm elongation.

<sup>4</sup>AASHTO T 301 except elongation shall be 10 cm.

<sup>5</sup>Prepare samples per ASTM D 7173. Determine softening point of top and bottom per AASHTO T 53.

<sup>6</sup>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 <sup>1</sup>
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 <sup>2</sup> , (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+	---

<sup>1</sup> At the option of Engineer.

<sup>2</sup> 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;

**STATE PROJECT NO(S). 704-36-0042, 704-36-0043, 704-36-0074 & 704-36-0084**  
**SPECIAL PROVISIONS**

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)

**STATE PROJECT NO(S). 704-36-0042, 704-36-0043, 704-36-0074 & 704-36-0084**  
**SPECIAL PROVISIONS**

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:

<u>Item No.</u>	<u>Pay Item</u>	<u>Pay Unit</u>
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.

Payment will be made under:



**STATE PROJECT NO(S). 704-36-0042, 704-36-0043, 704-36-0074 & 704-36-0084**  
**SPECIAL PROVISIONS**

<u>Item No.</u>	<u>Pay Item</u>	<u>Pay Unit</u>
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:

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

**NS DROP INLET ADJUSTMENT (04/09):**

**DESCRIPTION.** This work consists of the vertical adjustment and slight adjustments in alignment of drop inlets as needed to match the final pavement surface elevation., in a manner

**STATE PROJECT NO(S). 704-36-0042, 704-36-0043, 704-36-0074 & 704-36-0084**  
**SPECIAL PROVISIONS**

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 and 1001.03.

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 sawcutting and removing of adjacent pavement, adjusting the drop inlet 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. Drop inlets shall be salvaged and reused. Metal parts shall be thoroughly cleaned and placed in good repair.

**MEASUREMENT.** Drop inlet adjustments will be measured per drop inlet adjusted, which includes all labor, materials, equipment, tools and incidentals necessary to complete the work. All excavation, sawcutting of pavement, curb and gutter (if required), removal and replacement of pavement, curb and 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 shall not be measured for payment.

**PAYMENT.** Drop inlet adjustment will be paid for at the contract unit per each..

Payment will be made under:

<u>Item No.</u>	<u>Pay Item</u>	<u>Pay Unit</u>
NS-SRP-00007	Drop Inlet Adjustment	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

**STATE PROJECT NO(S). 704-36-0042, 704-36-0043, 704-36-0074 & 704-36-0084**  
**SPECIAL PROVISIONS**

**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.

**STATE PROJECT NO(S). 704-36-0042, 704-36-0043, 704-36-0074 & 704-36-0084  
SPECIAL PROVISIONS**

**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:

<u>Item No.</u>	<u>Pay Item</u>	<u>Pay Unit</u>
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.

**STATE PROJECT NO(S). 704-36-0042, 704-36-0043, 704-36-0074 & 704-36-0084  
SPECIAL PROVISIONS**

- 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:

<u>Item No.</u>	<u>Pay Item</u>	<u>Pay Unit</u>
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.

**STATE PROJECT NO(S). 704-36-0042, 704-36-0043, 704-36-0074 & 704-36-0084**  
**SPECIAL PROVISIONS**

- 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:

<u>Item No.</u>	<u>Pay Item</u>	<u>Pay Unit</u>
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..

**STATE PROJECT NO(S). 704-36-0042, 704-36-0043, 704-36-0074 & 704-36-0084**  
**SPECIAL PROVISIONS**

(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:

<u>Item No.</u>	<u>Pay Item</u>	<u>Pay Unit</u>
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

**STATE PROJECT NO(S). 704-36-0042, 704-36-0043, 704-36-0074 & 704-36-0084**  
**SPECIAL PROVISIONS**

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:

<u>DESIGN PARAMETER</u>	<u>VALUE.</u>
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:

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



**STATE PROJECT NO(S). 704-36-0042, 704-36-0043, 704-36-0074 & 704-36-0084**  
**SPECIAL PROVISIONS**

**CONSTRUCTION REQUIREMENTS:** The flexible tube shall be one or more layers of needed 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:

<u>Pipe Diameter (inch)</u>	<u>Depth of Sewer Invert (feet)</u>	<u>CIP Nominal Thickness (inches)</u>
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:

<u>Item No.</u>	<u>Pay Item</u>	<u>Pay Unit</u>
NS-SRP-00027	Cured-In-Place Pipe Lining (21 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.

**STATE PROJECT NO(S). 704-36-0042, 704-36-0043, 704-36-0074 & 704-36-0084**  
**SPECIAL PROVISIONS**

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:

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

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

**STATE PROJECT NO(S). 704-36-0042, 704-36-0043, 704-36-0074 & 704-36-0084**  
**SPECIAL PROVISIONS**

**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.

**STATE PROJECT NO(S). 704-36-0042, 704-36-0043, 704-36-0074 & 704-36-0084  
SPECIAL PROVISIONS**

- 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:

<u>Item No.</u>	<u>Pay Item</u>	<u>Pay Unit</u>
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 (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

**STATE PROJECT NO(S). 704-36-0042, 704-36-0043, 704-36-0074 & 704-36-0084**  
**SPECIAL PROVISIONS**

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:

<u>Item No.</u>	<u>Pay Item</u>	<u>Pay Unit</u>
NS-SRP-00032	Catch Basins (Rehabilitate Existing)	Each

**NS BUS PAD REPAIR (04/09):**

**DESCRIPTION.** This work consists of the repair of existing Portland Cement Concrete bus pads as needed to match the final pavement surface elevation in accordance with these plans and 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);
- Forms shall comply with 707.04;

**STATE PROJECT NO(S). 704-36-0042, 704-36-0043, 704-36-0074 & 704-36-0084**  
**SPECIAL PROVISIONS**

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;  
Reinforcing Steel shall comply with 1009;  
Curing shall comply with 1011.01

**CONSTRUCTION REQUIREMENTS.** This work is to be performed in accordance with these plans, specification and the City of New Orleans Department of Public Works General Specification and Standard Details for Bus Pads.

Asphalt surfacing, if any, shall be removed to permit full depth saw cutting the concrete base pavement. The contractor shall saw cut the concrete pavement full depth prior to removal.

The contractor shall remove the existing bus pad repair area and the adjacent curb and/or gutter section materials and perform all required excavation for bus pad repair. New vertical curb may be formed and poured at the same time as the bus pad repair and will be considered incidental. Curb height shall match existing adjacent curb.

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

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

All concrete pavement within the repair area is to be removed and the subgrade area prepared to receive 8 inches (200 mm) of crushed stone or re-cycled portland cement concrete compacted base course. Compacted granular material as required shall be used to bring subgrade to the required elevation. Granular material shall also be used to replace unsuitable subgrade or to fill voids as directed at no direct pay. The bus pad repair shall match the existing slope of the existing adjacent bus pad.

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

When through traffic is maintained, the contractor shall complete the bus pad repair at the end of each day's operation.

The bus pad repair shall consist of 4,000 psi (28 MPa), High Early Strength Concrete at a minimum depth of 10 inches (250mm). If the remaining adjacent bus pad is less than 10 inches (250 mm), match the existing adjacent bus pad depth. Top portion reinforcement shall use #4 bars at 12 inches (300 mm) (on center each way and shall have 2inches (50 mm) of cover. Bottom portion reinforcement shall use #6 bars at 12 inches (300 mm) on center each way and shall be 2inches (50 mm) above bottom of slab. The mix design approval for high early strength shall be contingent on trial batches, made, sampled, and delivered to the DOTD by the contractor, and with minimum strengths in 48 hours of 3200 psi, as determined by the DOTD District Laboratory Engineer.

When removing the existing pavement, an attempt shall be made to salvage sufficient length of reinforcing steel to splice to new rebars. In the event that it is determined that it is not practical to salvage the rebars, #4 bars shall be drilled and epoxy grouted 12inches (300 mm) on center into the existing bus pad and pavement to allow for a proper tie-in. When tying into existing pavement and bus pads, a butt joint shall be used. All joints shall comply with the City of New Orleans Department of Public Works Standard Plan STD 4 and STD5 and shall be considered incidental to the bus pad repair. After the bus pad and/or curb has set, the excavated

**STATE PROJECT NO(S). 704-36-0042, 704-36-0043, 704-36-0074 & 704-36-0084**  
**SPECIAL PROVISIONS**

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.

The completed bus pad repair is not to be overlaid and shall be at the final pavement surface elevation.

**MEASUREMENT.** Bus Pad Repair will be measured by the square yard of existing bus pad designated to be removed and replaced, which includes full depth saw cutting, removal of existing bus pad material, excavation, base preparation, base course, forms, tying into existing pavement, portland cement concrete, epoxy, granular material, concrete curb and reinforcing steel.

**PAYMENT.** Payment for Bus Pad Repair will be made at the contract unit price per square yard.

Payment will be made under:

<u>Item No.</u>	<u>Pay Item</u>	<u>Pay Unit</u>
NS-SRP-00035	Bus Pad Repair	Square Yard (Sq m)

**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

**STATE PROJECT NO(S). 704-36-0042, 704-36-0043, 704-36-0074 & 704-36-0084**  
**SPECIAL PROVISIONS**

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

Payment will be made under:

<u>Item No.</u>	<u>Pay Item</u>	<u>Pay Unit</u>
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:

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

**NS SANITARY SEWER MANHOLE FRAME AND COVER (REPLACEMENT)(04/09):**



**STATE PROJECT NO(S). 704-36-0042, 704-36-0043, 704-36-0074 & 704-36-0084**  
**SPECIAL PROVISIONS**

**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.

Payment will be made under:

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

**NS RESETTING TILE STREET NAMES (04/09):**

**DESCRIPTION:** This work consists of the salvaging and resetting of existing tile street names at specified locations in accordance with the plan details and these specifications.

**MATERIALS.** Vacant

**GENERAL CONSTRUCTION REQUIREMENTS.** This work shall be done in accordance with the General Specifications and Standard Plans (STD7) of the City of New Orleans Department of Public Works, latest editions.

Tile Street Names shall be relocated only when the installation new ADA handicapped ramps, sidewalk or unavoidable construction activities present a conflict with the existing tile street name location. The Project Engineer will review each area and will determine if the tile

**STATE PROJECT NO(S). 704-36-0042, 704-36-0043, 704-36-0074 & 704-36-0084**  
**SPECIAL PROVISIONS**

street name must be relocated prior to construction activities beginning in the vicinity of tile street name location.

Extreme care shall be taken not to damages the tile street names.

Existing Tile Street Names shall be salvaged intact, if possible, by full depth saw-cutting the name out of the concrete in which the tiles are imbedded. The full depth saw-cut shall be located 2 inches away from the name's perimeter.

The salvaged street name tile shall be reset in the fresh concrete of the sidewalk intersection, flush with the level of the sidewalk, and clean of any cement residue. The tile street name shall be reset outside of the slope and landing areas of new ADA handicap ramps. The final location of the tile street names will be determined in the field by the project engineer. 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.** Resetting tile street names shall be measured per each name reset and not by the number of tiles. Measurement of each street name reset 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.** Resetting tile street name will be paid for at the contract unit per each, complete in place.

Payment shall be made at the contract unit price under:

<u>Item No.</u>	<u>Pay Item</u>	<u>Pay Unit</u>
NS-SRP-00041	Resetting Tile Street Names	Each

**NS TREE PROTECTION, TREE TRIMMING, ROOT PRUNING (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 contractor 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:

**STATE PROJECT NO(S). 704-36-0042, 704-36-0043, 704-36-0074 & 704-36-0084**  
**SPECIAL PROVISIONS**

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.

**STATE PROJECT NO(S). 704-36-0042, 704-36-0043, 704-36-0074 & 704-36-0084**  
**SPECIAL PROVISIONS**

- 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, which includes 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

**STATE PROJECT NO(S). 704-36-0042, 704-36-0043, 704-36-0074 & 704-36-0084**  
**SPECIAL PROVISIONS**

NS-SRP-00045	Tree Trimming	Lump Sum
NS-SRP-00046	Root Pruning and Trenching	Lump Sum

**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.

**LOUISIANA**  
**DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT**  
**SUPPLEMENTAL SPECIFICATIONS**  
(FOR 2006 STANDARD SPECIFICATIONS)

**TABLE OF CONTENTS**

**PART I – GENERAL PROVISIONS**

<b>SECTION 101 – GENERAL INFORMATION, DEFINITIONS, AND TERMS</b>	
Subsection 101.03 – Definitions .....	1
<b>SECTION 102 – BIDDING REQUIREMENTS</b>	
Subsection 102.09 – Proposal / Bid Guaranty .....	1
<b>SECTION 107 – LEGAL RELATIONS AND RESPONSIBILITY TO PUBLIC</b>	
Subsection 107.05 – Federal Aid Participation.....	2
<b>SECTION 108 – PROSECUTION AND PROGRESS</b>	
Subsection 108.04 – Prosecution of Work.....	2

**PART II – EARTHWORK**

<b>SECTION 202 – REMOVING OR RELOCATING STRUCTURES AND OBSTRUCTIONS</b>	
Subsection 202.06 – Plugging or Relocating Existing Water Wells .....	2

**PART III – BASE COURSES**

<b>SECTION 302 – CLASS II BASE COURSE</b>	
Subsection 302.01 – Description .....	2
Subsection 302.02 – Materials.....	2
Subsection 302.04 – General Construction Requirements .....	2
Subsection 302.05 – Mixing .....	3
Subsection 302.06 – Transporting and Placing on Subgrade .....	3
Subsection 302.07 – Compacting and Finishing.....	3
Subsection 302.09 – Protection and Curing.....	4
Subsection 302.12 – Acceptance Requirements .....	4
<b>SECTION 305 – SUBGRADE LAYER</b>	
Subsection 305.06 – Payment.....	4
<b>SECTION 307 – PERMEABLE BASES</b>	
Subsection 307.02 – Materials.....	5
<b>SECTION 308 – IN-PLACE CEMENT TREATED BASE COURSE</b>	
All Subsections .....	5

Supplemental Specifications – Table of Contents (07/09)

**PART V – ASPHALTIC PAVEMENTS**

<b>SECTION 502 – SUPERPAVE ASPHALTIC CONCRETE MIXTURES</b>	
Subsection 502.02 – Materials.....	5
Subsection 502.14 – Lot Sizes.....	6
<b>SECTION 508 – STONE MATRIX ASPHALT</b>	
Subsection 508.01 – Description .....	6
Subsection 508.02 – Materials.....	7

**PART VI – RIGID PAVEMENT**

<b>SECTION 602 – PORTLAND CEMENT CONCRETE PAVEMENT REHABILITATION</b>	
Subsection 602.17 – Payment.....	7

**PART VII – INCIDENTAL CONSTRUCTION**

<b>SECTION 701 – CULVERTS AND STORM DRAINS</b>	
All Subsections .....	7
<b>SECTION 704 – GUARD RAIL</b>	
Subsection 704.03 – General Construction Requirements .....	18
<b>SECTION 706 – CONCRETE WALKS, DRIVES AND INCIDENTAL PAVING</b>	
All Subsections .....	18
<b>SECTION 713 – TEMPORARY TRAFFIC CONTROL</b>	
Subsection 713.06 – Pavement Markings.....	20
<b>SECTION 719 – LANDSCAPING</b>	
Subsection 719.06 – Construction Methods .....	21
<b>SECTION 729 – TRAFFIC SIGNS AND DEVICES</b>	
Subsection 729.02 – Materials.....	21
Subsection 729.04 – Fabrication of Sign Panels and Markers.....	22
<b>SECTION 730 – ELECTRICAL SYSTEMS</b>	
Subsection 730.04 - Drawings and Equipment Submittals.....	22
Subsection 730.08 – Measurement .....	22
Subsection 730.09 – Payment.....	23
<b>SECTION 732 – PLASTIC PAVEMENT MARKINGS</b>	
Subsection 732.03 - Construction Requirements for Plastic Pavement Marking Material.....	23

**PART VIII – STRUCTURES**

<b>SECTION 804 – DRIVEN PILES</b>	
Subsection 804.08 – Construction Requirements .....	23
<b>SECTION 813 – CONCRETE APPROACH SLABS</b>	
Subsection 813.03 – Embankment.....	24

## **PART IX – PORTLAND CEMENT CONCRETE**

### **SECTION 901 – PORTLAND CEMENT CONCRETE**

Subsection 901.06 – Quality Control of Concrete .....	24
Subsection 901.08 – Composition of Concrete.....	24

## **PART X – MATERIALS**

### **SECTION 1001 – HYDRAULIC CEMENT**

Subsection 1001.01 – Portland Cement .....	24
--	----

### **SECTION 1002 – ASPHALT MATERIALS AND ADDITIVES**

Subsection 1002.02 – Asphalt Material Additives .....	24
---	----

### **SECTION 1003 – AGGREGATES**

Subsection 1003.02 – Aggregates for Portland Cement Concrete and Mortar.....	26
Subsection 1003.03 – Base Course Aggregates.....	27
Subsection 1003.09 – Nonplastic Embankment .....	28

### **SECTION 1005 – JOINT MATERIALS FOR PAVEMENTS AND STRUCTURES**

Subsection 1005.04 – Combination Joint Former/Sealer .....	28
--	----

### **SECTION 1006 – CONCRETE AND PLASTIC PIPE**

Subsection 1006.09 – Plastic Yard Drain Pipe .....	29
--	----

### **SECTION 1013 – METALS**

Subsection 1013.09 – Steel Piles .....	29
--	----

### **SECTION 1015 – SIGNS AND PAVEMENT MARKINGS**

Subsection 1015.04 – Sign Panels .....	30
Subsection 1015.05 – Reflective Sheeting.....	30
Subsection 1015.11 – Preformed Plastic Pavement Marking Tape.....	34

### **SECTION 1020 – TRAFFIC SIGNALS**

Subsection 1020.01 – Traffic Signal Heads.....	35
Subsection 1020.04 – Poles for Traffic Signal Systems .....	36



**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.

**Supplemental Specifications (July 2009)**  
**Page 2 of 36**

## 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), Page 154.

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

## **Supplemental Specifications (July 2009)**

### **Page 4 of 36**

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 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 Heading (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 <sup>1</sup>
IV	All mixtures, except travel lane wearing courses <sup>2</sup>

<sup>1</sup> 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.

<sup>2</sup> 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.

**Supplemental Specifications (July 2009)**  
**Page 8 of 36**

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,

## **Supplemental Specifications (July 2009)**

### **Page 10 of 36**

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

**Supplemental Specifications (July 2009)**  
**Page 12 of 36**

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.

## **Supplemental Specifications (July 2009)**

### **Page 16 of 36**

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)

**Supplemental Specifications (July 2009)**  
**Page 18 of 36**

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.

**Supplemental Specifications (July 2009)**  
**Page 20 of 36**

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<sup>1,2</sup>**

		Two-lane Highways	Undivided Multilane Highways	Divided Multilane Highways
S H O R T  T E R M	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
L O N G  T E R M	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.

<sup>1</sup>No-passing zones shall be delineated as indicated whenever a project is open to traffic.

<sup>2</sup>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 719 – LANDSCAPING:**

### **Subsection 719.06 – Construction Methods (03/09), Pages 429 – 432.**

Delete the first paragraph of Heading (a), Seasonal Operations and substitute the following.

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

**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 730 – ELECTRICAL SYSTEMS:**

Subsection 730.04 – Drawings and Equipment Submittals (03/09), Pages 468 and 469.

Delete the third sentence of Heading (b), As-Built Drawings and substitute the following:

The drawings shall show the exact location of the underground wiring, light poles, junction boxes, under roadway crossings, service poles, controllers, disconnects, and conduit or cables.

Subsection 730.08 – Measurement (03/09), Pages 470 – 472.

Delete Heading (e), Jacked or Bored Casing and substitute the following:

(e) Jacked or Bored Casing: Jacked or bored casings will be measured by the linear foot (lin m) of casing furnished and installed, which will include the casing, fittings, and required excavation and backfill.

Add the following:

(t) Modular Breakaway Cable System: Modular breakaway electrical cable systems for low mast light poles shall be measured per each and shall include all materials, labor, equipment, and tools necessary to furnish and install a complete system in accordance with the plans and specifications.

(u) Disconnect: Disconnects shall be measured per each and shall include all materials, labor, equipment, and tools necessary to furnish and install this item in accordance with the plans and specifications.

(v) Duct Markers: Duct markers shall be measured per each and shall include all materials, labor, equipment, and tools necessary to furnish and install this item in accordance with the plans and specifications.

(w) Underground Marker Tape: Marker tape shall be measured per linear foot and shall include all materials, labor, equipment, tools necessary to furnish and install this item in accordance with the plans and specifications.

Subsection 730.09, Payment (03/09), Pages 472 and 473.

Add the following pay items.

<u>Item No.</u>	<u>Pay Item</u>	<u>Pay Unit</u>
730-19	Modular Breakaway Cable System	Each
730-20	Disconnect (Type)	Each
730-21	Duct Marker (Type)	Each
730-22	Underground Marker Tape (Size and Type)	Linear Foot (Lin m)

**SECTION 732 – PLASTIC PAVEMENT MARKINGS:**

Subsection 732.03 - Construction Requirements for Plastic Pavement Marking Material (09/07), Pages 478 – 481.

Delete the first paragraph of Heading (a), Equipment for Standard (Flat) Thermoplastic Marking Material and the substitute the following:

(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.

Delete Heading (e), Application of Surface Primer and substitute the following:

(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.

**SECTION 804 – DRIVEN PILES:**

Subsection 804.08 – Construction Requirements (04/07), Pages 548 – 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.

**Supplemental Specifications (July 2009)**  
**Page 24 of 36**

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 813 – CONCRETE APPROACH SLABS:**

Subsection 813.03 – Embankment (06/08), Pages 688 – 690.

Delete the third paragraph and substitute the following:

When specified, the approach slab shall be placed on a layer of bedding material in accordance with plan details. Bedding material shall be placed and compacted as directed and covered with approved polyethylene film of at least 6-mil (150 µm) nominal thickness.

**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 1002 – ASPHALT MATERIALS AND ADDITIVES:**

Subsection 1002.02 – Asphalt Material Additives (04/08), Pages 750 – 760.

Delete Table 1002-1, Performance Graded Asphalt Cements and substitute the following.



**Table 1002-1**  
**Performance Graded Asphalt Cements**

Property	AASHTO Test Method	PG82-22rm <sup>6</sup>	PG76-22m	PG70-22m	PG64-22	PG58-28
		Spec.	Spec.	Spec.	Spec.	Spec.
<b>Tests on Original Binder:</b>						
Rotational Viscosity @ 135°C, Pa.s <sup>1</sup>	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, % <sup>2</sup>	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 <sup>5</sup>	ASTM D 7173 AASHTO T 53	---	2-	2-	---	---
Force Ductility Ratio (f <sub>2</sub> /f <sub>1</sub> , 4°C, 5 cm/min., f <sub>2</sub> @ 30 cm elongation) <sup>3</sup>	T 300	---	0.30+	---	---	---
Force Ductility, (4°C, 5 cm/min, 30 cm elongation, kg) <sup>3</sup>	T 300	---	---	0.23+	---	---
<b>Tests on Rolling Thin Film Oven Residue:</b>						
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, % <sup>4</sup>	T 301	60+	60+	40+	---	---
Ductility, 25°C, 5 cm/min, cm	T 51	---	---	---	100+	---
<b>Tests on Pressure Aging Vessel Residue:</b>						
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

<sup>1</sup>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.

**Supplemental Specifications (July 2009)**  
**Page 26 of 36**

<sup>2</sup>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.

<sup>3</sup>AASHTO T 300 except the second peak ( $f_2$ ) is defined as the stress at 30 cm elongation.

<sup>4</sup>AASHTO T 301 except elongation shall be 10 cm.

<sup>5</sup>Prepare samples per ASTM D 7173. Determine softening point of top and bottom per AASHTO T 53.

<sup>6</sup>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 <sup>1</sup>
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 <sup>2</sup> , (Retained on the 850 $\mu$ m), %	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; $G^*\sin \delta$ , 10 rad / s, kPa	T 315	1.0+	---

<sup>1</sup> At the option of Engineer.

<sup>2</sup> Sieve tests may be waived if no application problems are present in the field.

**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).

Subsection 1003.03 – Base Course Aggregates (07/08), Page 767 – 768.

Add the following:

(e) Blended Calcium Sulfate: When blended calcium sulfate base course material is allowed on the plans, it shall consist of calcium sulfate from a source approved by the Materials and Testing Section and be blended with an approved aggregate or lime. The source shall have a quality control program approved by the Materials and Testing Section. The source shall have been given environmental clearance by the Department of Environmental Quality for the intended use, and written evidence of such environmental clearance shall be on file at the Materials and Testing Section. DOTD monitoring for compliance with environmental regulations will be limited to the pH testing stated herein below. The blended material shall be

**Supplemental Specifications (July 2009)**  
**Page 28 of 36**

non-plastic and reasonably free from organic and foreign matter. The pH shall be a minimum of 5.0 when tested in accordance with DOTD TR 430. Re-evaluation will be required if the source of the aggregate or lime that is blended with the calcium sulfate changes.

Blended calcium sulfate material used as base course shall comply with the following gradation requirements when tested in accordance with DOTD TR 113, modified to include a maximum drying temperature of 140°F (60°C). Sampling shall be taken from an approved stockpile at the point of origin.

<u>U.S. Sieve</u>	<u>Metric Sieve</u>	<u>Percent Passing</u>
1-1/2 inch	37.5 mm	60 - 100
1 inch	25.0 mm	40 - 80
3/4 inch	19.0 mm	30 - 70
No. 4	4.75 mm	20 - 65
No. 200	75 µm	0 - 25

Blended calcium sulfate shall be sampled in accordance with the requirements for stone in Section 302 of the Materials Sampling Manual.

Subsection 1003.09 – Nonplastic Embankment (03/09), Pages 775 and 776.

Delete Heading (b) and substitute the following.

(b) Stone: Stone shall be coarse stone from a source listed on QPL 2. For applications requiring lightweight embankment, the stone shall have a dry rodded unit weight (mass) of no greater than 95 pounds per cubic foot (1520 kg/cu m) when tested in accordance with AASHTO T19. Stone shall comply with the following gradation:

<u>U.S. Sieve</u>	<u>Metric Sieve</u>	<u>Percent Passing</u>
2 inch	50 mm	100
1 1/2 inch	37.5 mm	85 - 100
3/4 inch	19.0 mm	35 - 88
No. 4	4.75 mm	0 - 10

**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:

<u>Property</u>	<u>ASTM Test Method</u>	<u>Requirements</u>	
		<u>Polymerized Chloroprene</u>	<u>Thermoplastic Vulcanizate</u>
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.

**Supplemental Specifications (July 2009)**  
**Page 30 of 36**

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<sup>1</sup>

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

<sup>1</sup>Minimum Coefficient of Retroreflection ( $R_A$ ) ( $\text{cd lx}^{-1}\text{m}^{-2}$ )

(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) <sup>1</sup>								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	

<sup>1</sup>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<sup>1</sup>

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

<sup>1</sup> 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.

<sup>2</sup> Percent retained retroreflectivity of referenced table after the outdoor test exposure time specified.

<sup>3</sup> Colors shall conform to the color specification limits of ASTM D 4956 after the outdoor test exposure time specified.

<sup>4</sup> ASTM D 4956, Table 8.

<sup>5</sup> ASTM D 4956, Table 13.

<sup>6</sup> 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 <sup>1</sup> -- Durability <sup>2</sup>				Colorfastness <sup>3</sup>
	Orange/ Fluorescent Orange		All colors, except orange/Fluorescent Orange		
III	3 years	80 <sup>4</sup>	10 years	80 <sup>4</sup>	3 years
X	3 years	80 <sup>5</sup>	7years	80 <sup>5</sup>	3 years

<sup>1</sup>Percent retained retroreflectivity of referenced table after installation and the field exposure time specified.

<sup>2</sup>All sheeting shall maintain its structural integrity, adhesion and functionality after installation and the field exposure time specified.

<sup>3</sup>All colors shall conform to the color specification limits of ASTM D 4956 after installation and the field exposure time specified.

<sup>4</sup>ASTM D4956, Table 8.

<sup>5</sup>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 <sup>1</sup> 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 <sup>1</sup> 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

<sup>1</sup> 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.

**Supplemental Specifications (July 2009)**  
**Page 36 of 36**

(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 O-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 polyethylene 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:

<u>Item No.</u>	<u>Pay Item</u>	<u>Pay Unit</u>
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.

(e) Sewage Effluent Gravity Discharge Pipe Extensions: Pipe extensions for sewage effluent gravity discharge lines shall be in accordance with the plans or as directed. Pipe extensions shall be equal in quality and size to that of the existing installation and meet the requirements of the utility and code. Unless otherwise directed, the same material manufacturer for each proposed extension shall be used throughout the work.

**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.

(j) Sewage Effluent Gravity Discharge Pipe Extensions: Pipe extensions for sewage effluent gravity discharge lines will be measured by the linear foot (lin m) of extended pipe.

**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 for Sewage Effluent Gravity Discharge Pipe Extensions will be paid for at the contract unit price per linear foot (lin m) of extended pipe which includes all materials, tools, labor, equipment, and incidentals necessary to complete the item.

(f) Payment will be made under:

<u>Item No.</u>	<u>Pay Item</u>	<u>Pay Unit</u>
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)
742-05	Pipe Extensions (Sewage Effluent Gravity Discharge) (Size)	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 (%)
<b>FEMALE PARTICIPATION</b>		
-	All Covered Areas	6.9
<b>MINORITY PARTICIPATION (UNDER NEW ORLEANS PLAN)</b>		
-	* See Note Below	20 to 23
<b>MINORITY PARTICIPATION (NOT UNDER NEW ORLEANS PLAN)</b>		
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.

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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.

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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 is 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 Public 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

01/83 OFCCP 41 CFR 60-4  
(Required FHWA Provisions)  
Page 8 of 8

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**

	<i>Page</i>
I. General .....	1
II. Nondiscrimination .....	1
III. Nonsegregated Facilities .....	3
IV. Payment of Predetermined Minimum Wage .....	3
V. Statements and Payrolls .....	6
VI. Record of Materials, Supplies, and Labor .....	7
VII. Subletting or Assigning the Contract .....	7
VIII. Safety: Accident Prevention .....	7
IX. False Statements Concerning Highway Projects .....	7
X. Implementation of Clean Air Act and Federal Water Pollution Control Act .....	8
XI. Certification Regarding Debarment, Suspension, Ineligibility, and Voluntary Exclusion .....	8
XII. Certification Regarding Use of Contract Funds for Lobbying .....	10

**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 cash 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 an 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 SHIA 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 than the applicable wage rate and fringe benefits or cash equivalent for the classification of work 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 than \$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 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**

<b>S.P.#</b>	<b>Contract Amount: \$</b>
<b>F.A.P.#</b>	<b>DBE Goal Percentage</b>
<b>Letting Date:</b>	<b>DBE Goal Dollar Value: \$</b>

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 <sup>1</sup>

<sup>1</sup>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.

<b>NAME OF CONTRACTOR</b>	
<b>AUTHORIZED SIGNATURE</b>	
<b>TYPED OR PRINTED NAME</b>	
<b>TITLE</b>	
<b>CONTRACTOR'S DBE LIAISON OFFICER (typed or printed name)</b>	
<b>PHONE NUMBER</b>	
<b>DATE</b>	<b>TAX ID#</b>

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

**LOUISIANA DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT**  
**FORM CP-1A**  
**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 <sup>1</sup>	TOTAL PAID TO DATE <sup>1</sup>

<sup>1</sup>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 were paid 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

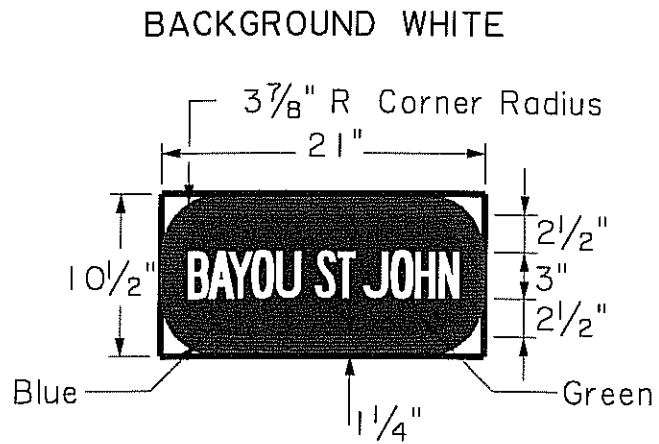
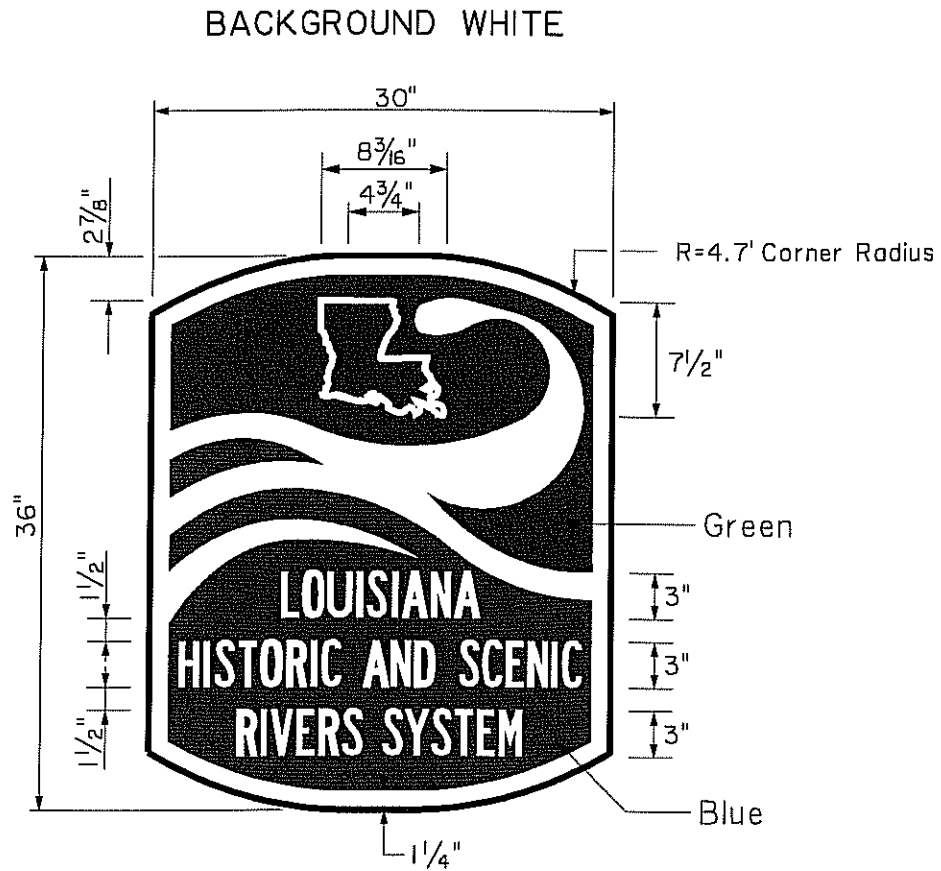
**FORM CP-2A**

This is to certify that \$\_\_\_\_\_ has been paid to Disadvantaged Business Enterprise Subcontractors/Suppliers listed above.

Parish or County \_\_\_\_\_ State of \_\_\_\_\_  
 Subscribed and sworn to, before me, this \_\_\_\_\_ day of \_\_\_\_\_, A.D. 20\_\_\_\_  
 \_\_\_\_\_  
 Notary Public  
 My commission expires: \_\_\_\_\_

G-13

# PROJECT SIGN DETAIL



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
-----		
* 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

-----

ENG10406-015 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.

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

## INDEX TO SHEETS

SHEET NO.	DESCRIPTION
1 - 10	TITLE SHEET
1b - 1d	GENERAL CONSTRUCTION NOTES
2 - 2b	TYPICAL SECTIONS
3a - 3mm	SUMMARY OF ESTIMATED QUANTITIES
4 - 16	PLAN SHEETS - ORLEANS
17 - 18	GEOMETRIC LAYOUT - ORLEANS
19 - 20	SUGGESTED SEQUENCE OF CONSTRUCTION - ORLEANS
21 - 33	STRIPING PLAN - ORLEANS
34 - 41	PLAN SHEETS - N. MIRO
42 - 43	GEOMETRIC LAYOUT - N. MIRO
44 - 45	SUGGESTED SEQUENCE OF CONSTRUCTION - N. MIRO
46 - 52	STRIPING PLAN - N. MIRO
53 - 55	PLAN SHEETS - NAVARRE
56	GEOMETRIC LAYOUT - NAVARRE
57	SUGGESTED SEQUENCE OF CONSTRUCTION - NAVARRE
58 - 60	STRIPING PLAN - NAVARRE
61 - 68	PLAN SHEETS - GALVEZ
69	GEOMETRIC LAYOUT - GALVEZ
70	SUGGESTED SEQUENCE OF CONSTRUCTION - GALVEZ
71 - 76	STRIPING PLAN - GALVEZ
SPECIAL DETAILS	
79	TC-00
80	TC-01
81	TC-02
82	TC-03
83	TC-04
84	TC-05
85	TC-06
86	TC-07
87	TC-14
88	TC-15
89	RESETTING STONE CURBS
STANDARD PLANS	
101	STD-1 (N.O. DPW) 04-04-1987
102	STD-2 (N.O. DPW) 04-04-1987
103	STD-4 (N.O. DPW) 04-04-1987
104	STD-5 (N.O. DPW) 04-04-1987
105	STD-6 (N.O. DPW) 04-04-1987
106	STD-8 (N.O. DPW) 04-04-1987
107	STD-10 (N.O. DPW) 04-04-1987
108	STD-11 (N.O. DPW) 04-04-1987
109	STD-12 (N.O. DPW) 04-04-1987
110	EC-01 (DOTD) 1 OF 2 10-01-2008
111	EC-01 (DOTD) 2 OF 2 10-01-2008
112	D-870 (N.O. S & WB) 03-09-2007
113	D-871 (N.O. S & WB) 03-09-2007
114	D-872 (N.O. S & WB) 03-09-2007
115	D-873A (N.O. S & WB) 03-09-2007
116	3143-E-1 (N.O. S & WB) 03-09-2007
117	D-3284 (N.O. S & WB) 03-09-2007
118	D-3431-A (N.O. S & WB) 03-09-2007
119	D-3808 (N.O. S & WB) 03-09-2007
120	6178-B-6 (N.O. S & WB) 03-09-2007
121	6178-B-6A (N.O. S & WB) 03-09-2007
122	B180-SD (N.O. S & WB) 03-09-2007
123	B282-D (N.O. S & WB) 03-09-2007
124	BUS PAD DETAIL

TOTAL SHEETS = 177

TYPE OF CONSTRUCTION:  
COLD PLANE ASPHALTIC  
CONCRETE, ASPHALTIC  
CONCRETE PATCHING, CONCRETE PAVEMENT REPAIR, ASPHALTIC  
CONCRETE OVERLAY, STRIPING, CONCRETE ADA RAMPS



ORLEANS AVE. NAVARRE AVE.  
N. MIRO ST. GALVEZ ST.

TITLE SHEET

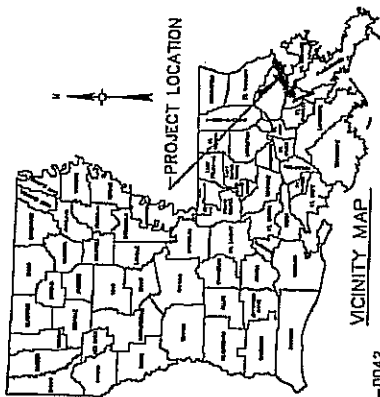
STATE OF LOUISIANA  
DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT

## SUBMERGED ROADS PROGRAM

STATE PROJECT NUMBERS: 704-36-0042, 704-36-0043,  
704-36-0074, 704-36-0084

FEDERAL PROJECT NUMBERS: ER-ERP1(058), ER-ERP1(059),  
ER-ERP1(094), ER-ERP1(117)

PERMANENT REPAIR TO FEDERAL AID ELIGIBLE ROADS  
ORLEANS AVENUE, N. MIRO STREET, NAVARRE AVENUE, GALVEZ STREET  
ORLEANS PARISH



ORLEANS AVE.  
STA. 104+00.00  
BEGIN S.P. 704-36-0042  
STA. 217+51.94  
END S.P. 704-36-0042

N. MIRO ST.  
STA. 102+57.31  
BEGIN S.P. 704-36-0043  
STA. 187+18.81  
END S.P. 704-36-0043



LAYOUT MAP  
SCALE: N.T.S.

DATE	REVISION	DATE	RECOMMENDED	DATE	APPROVED

SCHEDULE OF REVISIONS

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 ADOPTED BY THE PROJECT  
SPECIALTIONS, SHALL GOVERN ON THIS PROJECT.

RECOMMENDED FOR APPROVAL BY:

Stanley Consultants, Inc.

APPROVED:

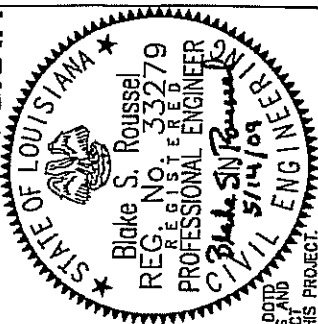
6/18/09

APPROVED:

W. H. Temple 6-22-09

CHIEF ENGINEER  
LOUISIANA DEPARTMENT OF  
TRANSPORTATION AND DEVELOPMENT

## SUBMERGED ROADS PROGRAM



SHEET NUMBER	1
PARISH	ORLEANS
FEDERAL PROJECT	ER-ERP1(058)-NAVARRA AVE ER-ERP1(059)-NAVARRA AVE ER-ERP1(094)-NAVARRA AVE ER-ERP1(117)-NAVARRA AVE
STATE	704-36-0042-ORLEANS AVE 704-36-0043-NAVARRA AVE

## FINAL PLANS

### LOCATION DESCRIPTION

ORLEANS AVENUE:  
STATE PROJECT NUMBER 704-36-0042 & FEDERAL AID PROJECT NUMBER ER-ERP1(058) IN ORLEANS PARISH BEGINNING AT N. CLAIBORNE AVENUE, STA 101+00.00 THEN PROCEEDS TO CITY PARK AVENUE, STA 217+51.94.

N. MIRO STREET:

STATE PROJECT NUMBER 704-36-0043 & FEDERAL AID PROJECT NUMBER ER-ERP1(059) IN ORLEANS PARISH BEGINNING AT ORLEANS AVENUE, STA 102+57.31 THEN PROCEEDS TO ELYSIAN FIELDS AVENUE, STA 187+18.81.

NAVARRE AVENUE:

STATE PROJECT NUMBER 704-36-0074 & FEDERAL AID PROJECT NUMBER ER-ERP1(094) IN ORLEANS PARISH BEGINNING AT CANAL BLVD., STA 102+14.26 THEN PROCEEDS TO MARCONI AVENUE, STA 127+10.62.

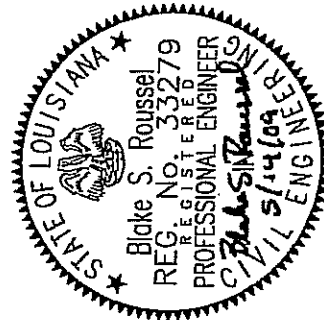
GALVEZ STREET:

STATE PROJECT NUMBER 704-36-0084 & FEDERAL AID PROJECT NUMBER ER-ERP1(117) IN ORLEANS PARISH BEGINNING AT POYDRAS STREET, STA 102+87.71 THEN PROCEEDS TO ORLEANS AVENUE, STA 154+06.31.

### SCOPE OF PROJECT

THE SCOPE OF THE PROJECT SHALL INCLUDE COLD PLANING THE EXISTING ROADWAY, CONCRETE PAVEMENT REPAIR OR ASPHALT PATCH, OVERLAY THE ROADWAY, APPLY NEW STRIPING AND MARKERS, AND ADA RAMPS.

LENGTH OF PROJECT												
DESCRIPTION			ALGEBRAIC SUM OF EQUATIONS		GROSS LENGTH		EXCEPTION		BRIDGE LENGTH		ROADWAY LENGTH	
PROPOSED STREET	STA	STA	FEET	FEET	FEET	FEET	FEET	FEET	FEET	MILES	FEET	MILES
ORLEANS AVE	101+00.00	217+51.94			11,651.94	274.46		75		0.014	11302.48	2.140
N. MIRO ST.	102+57.31	187+18.81			8,461.50						8461.50	1.602
NAVARRE AVE	102+14.26	127+10.62			2,496.36						2496.36	0.472
GALVEZ ST.	102+87.71	154+06.31			5,118.60	126.25					4992.35	0.945
TOTAL LENGTH OF BRIDGES = 75 ft												
TOTAL LENGTH OF ROADWAYS = 27252.69 ft												
TOTAL MILES = 5.159 miles												



ORLEANS AVE. NAVARRE AVE. N. MIRO ST. GALVEZ ST.		ORLEANS STATE PROJECT FEDERAL PROJECT		BSR CHECKED DATE		BSR CHECKED DATE		ORLEANS STATE PROJECT FEDERAL PROJECT		SHEET NUMBER 1 of 1	

## FINAL PLANS

## 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 COSTS OF MAINTAINING TRAFFIC SHALL BE INCLUDED IN THE PRICE FOR ITEM 713-01-00100.
- 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 740-01-00100.
- 1.4 PROJECT CENTURLINE 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 731-02-00100.
- 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/NAIUS/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 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. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION TO THE PROJECT ENGINEER.

## 2.0 ROADWAYS

- 1.1 WHEN SPECIFIED IN THE PLANS AND SPECIFICATIONS ALL ROADWAY CONSTRUCTION TO BE PERFORMED IN ACCORDANCE WITH THE CITY OF NEW ORLEANS GENERAL SPECIFICATIONS FOR STREET PAVING, CURRENT EDITION, AND THE CITY STANDARD DRAWINGS.
- 1.2 ROADWAY RADII ARE MEASURED TO THE FACE OF CURB.
- 1.3 ASPHALT TRANSITION SHALL BE DONE PER DIRECTION OF THE FIELD ENGINEER AND PAID FOR AT THE CONTRACT UNIT PRICE OF THE COURSE BEING LAID (502-01-00200) AS DETERMINED BY THE PROJECT ENGINEER.
- 1.4 WHENEVER NEW PAVING INTERSECTIONS OR MEETS EXISTING PAVING THAT IS TO REMAIN, THE GRADES OF THE NEW PAVING SURFACE SHALL MATCH THE GRADE OF THE EXISTING PAVING.
- 1.5 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 CUTTER SHALL BE MILLED TO A MINIMUM DEPTH OF ONE AND ONE HALF (1.5") INCH TO OBTAIN A SMOOTH TIE- IN BETWEEN EXISTING AND PROPOSED CONSTRUCTION.
- 1.6 WHEN ADDITIONAL PAVEMENT SURFACING PAVING IS REQUIRED, THE ADJACENT CONCRETE CUTTER BOTTOM WILL NOT BE COVERED WITH ASPHALT SURFACING IF THE PROPOSED PROFILE GRADE LINE SHOWN ON THE DRAWINGS IS WITHIN ONE (1") INCH, IN AREAS WHERE THE PROPOSED PROFILE GRADE LINE IS HIGHER THAN THE EXISTING CUTTER BOTTOM BY MORE THAN ONE (1") INCH THE SURFACE OF THE EXISTING CUTTER BOTTOM OR ROLLING STRIP SHALL BE OVERLAIN WITH ASPHALT SURFACING TO THE FACE OF THE CURB.
- 1.7 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)

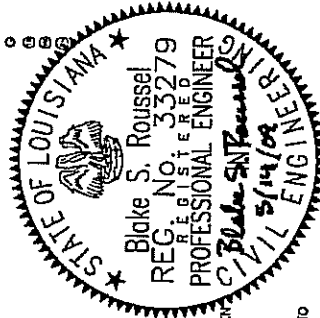
- 2) STONE CURB, COBBLESTONE, ETC. TO THE PUBLIC WORKS/ROCK PLANT ON FLORIDA AVE. NEAR ELYSIAN FIELDS.
- 3) STREET SIGNS, TRAFFIC CONTROL DEVICES (SIGNS AND SIGNALS) TO THE DPW SIGN SHOP AT 2833 LARITTE STREET.
- 3) CONTRACTOR SHALL RETAIN 100% OF RAP MATERIAL.
- 2.10.8 AFTER COMPLETIONS OF THE MILLING OPERATIONS, PROOF ROLLING OF THE ROADWAY SURFACE MAY BE REQUIRED AT THE DISCRETION OF THE ENGINEER TO LOCATE UNSTABLE AREAS. THE CONTRACTOR MAY BE REQUIRED TO REMEDIALIZE FOR ADDITIONAL PATCHING IF UNSTABLE AREAS ARE LOCATED AFTER MILLING OPERATIONS. (NO DIRECT PAY)
- 2.10.9 THE TYPE, SIZE, AND LOADING OF EQUIPMENT USED DURING THE MILLING AND OVERLAY OPERATIONS MAY BE LIMITED AT THE DISCRETION OF THE PROJECT ENGINEER.
- 2.10.10 ALL VERTICAL SANGUITS WHERE PCC PAVEMENT IS TO BE REINSTALLED OR SALVAGED SHALL BE A FULL DEPTH SAWCUT.
- 2.10.11 FOR FULL DEPTH A.C. PATCHING, DAILY (CONSTRUCTION) WORK AREAS, ALL PAVEMENT REPAIRS SHALL BE COMPLETED AND OPENED TO TRAFFIC AT THE END OF THE DAY.
- 2.10.12 EXPOSED BUS PADS SHALL NOT BE OVERLAID WITH ASPHALTIC CONCRETE. THEY SHALL BE LEFT AS EXPOSED PCCP.
- 2.10.13 FOLLOWING COLD PLANNING, THE PROJECT ENGINEER MAY REQUIRE REMOVAL OF ADDITIONAL ASPHALT SHOULD THE REMAINING THICKNESS BE 1" OR LESS (NO ADDITIONAL PAY).
- 2.10.14 FOLLOWING COLD PLANNING, JOINTS SHALL BE CLEANED AND SEALED WHEN UNDERLYING PCCP IS EXPOSED.




### 3.0 DRIVEWAYS AND SIDEWALKS

- 4.1 ALL DRIVEWAYS REMOVED SHALL BE REPLACED IN KIND UNLESS OTHERWISE NOTED.
- 4.2 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.
- 4.3 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.
- 4.4 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.
- 4.5 THE CONTRACTOR SHALL ADJUST THE ELEVATIONS OF THE NEW SIDEWALKS SO AS TO ALLOW DRAINAGE AWAY FROM THE SIDEWALK. AT ALL POINTS, SIDEWALKS, DRIVEWAYS AND OTHER CONSTRUCTION AREAS SHALL BE MAINTAINED AT OR ABOVE THE FINISHED GRADE OF THE ADJACENT ROADWAY.

**LEGEND:**

- |   |                             |
|---|-----------------------------|
| — | MULTI TELEPHONE             |
| — | UNDERGROUND TELEPHONE       |
| — | OVER HEAD POWER             |
| — | EXISTING FENCE              |
| ⊗ | TREE/TREE CLUSTER/BUSH      |
| ⊗ | EDGE OF PAVEMENT            |
| — | ASCENDANT/DESCENDANT        |
| — | UNDERGROUND ELECTRIC        |
| — | UNDERGROUND CABLE           |
| — | WATER                       |
| — | SEWER                       |
| — | GAS LINE                    |
| — | CENTERLINE ROAD             |
| — | FREE DROP LINE              |
| — | PORCH/POLE DETACHMENT       |
| • | POWER POLE                  |
| • | POWER DROP                  |
| — | TELEVISION MANHOLE TOP      |
| — | FIRE HYDRANT                |
| — | TELEPHONE PRESSURE BOX      |
| — | WATER VALVE                 |
| — | TRAFFIC LIGHT PEDESTAL      |
| — | MAILBOX                     |
| — | TRAFFIC SIGNAL SUPPORT POLE |
| — | GAS VALVE                   |
| — | STORY                       |
| — | LIGHT POLE                  |
| — | DRAINAGE MANHOLE            |
| — | CURB/DROP INLET             |
| — | TRAFFIC LIGHT POWER WULF    |
| — | POST                        |
| — | TRAFFIC CONTROL BOX         |
| — | TELEPHONE MANHOLE TOP       |
| — | SEWER MANHOLE               |
| — | ELECTRIC MANHOLE TOP        |
| — | ENERGY ELECTRIC MAND HOLE   |
| — | POWER JUNCTION BOX          |
| — | PVC BOLLARD                 |
| — | POWER WULF                  |
| — | WATER METER                 |
| — | GAS MANHOLE                 |
| — | TRAFFIC MANHOLE             |
| — | WATER MANHOLE               |
| — | BEACHMARK MANHOLE           |

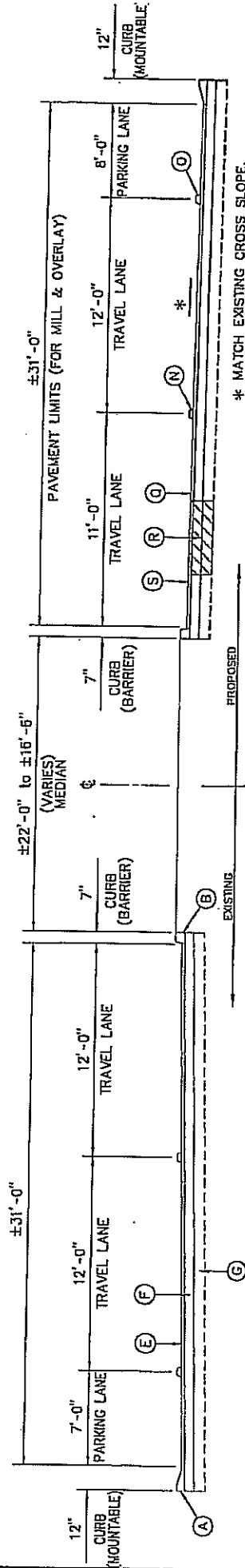


				<div>ORLEANS AVE. NAVARRE AVE.</div> <div>N. MIRO ST. GALVEZ ST.</div> <div>GENERAL CONSTRUCTION NOTES</div>				<div>NO.</div> <div>DATE</div> <div>BY</div>		<div>DESIGNED</div> <div>DRAWN</div> <div>DETAILS</div> <div>DATE</div>		<div>BSR</div> <div>JMS</div> <div>BAS</div> <div>FEB 2009</div>		<div>PAPER</div> <div>FEDERAL PROJECT</div> <div>STATE PROJECT</div>		<div>ORLEANS</div> <div>CD-1001(04)-NAVARRE AVE</div> <div>CD-1001(04)-N. MIRO ST.</div> <div>CD-1001(04)-N. MIRO ST.</div>		<div>SHEET NUMBER</div> <div>1b</div>	
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FINAL PLANS



ORLEANS AVE. (CLAIBORNE AVE. - I-10 EXIT RAMP)  
STA. 101+00.00 - STA. 103+40.00

\* MATCH EXISTING CROSS SLOPE. ADJUST AS NECESSARY TO ENSURE POSITIVE DRAINAGE (1.5% MIN.)

NOTE: NO SUBGRADE. CORINGS INDICATE THAT PAVEMENT IS DIRECTLY ON TOP OF CANAL CHANNEL AT STATION 120+00. SUBGRADE CONSISTS OF BROWN CLAY W/ GRAVEL/SHELL FRAGMENTS WHERE CANAL IS NOT PRESENT.

LEGEND - TYPICAL SECTION

- (A) EXISTING INTEGRAL CONCRETE CURB (MOUNTABLE)
- (B) EXISTING INTEGRAL CONCRETE CURB (BARRIER)
- (C) EXISTING CONCRETE CURB & GUTTER (MOUNTABLE)
- (D) EXISTING CONCRETE CURB & GUTTER (BARRIER)
- (E) EXISTING ASPHALTIC CONCRETE
- (F) EXISTING PORTLAND CEMENT CONCRETE
- (G) EXISTING SUBGRADE LAYER (VARIES)
- (H) EXISTING BASE COURSE
- (I) EXISTING MORTAR
- (J) EXISTING BASE COURSE (GRAYISH FRAGMENTS W/ GRAVEL & SAND)
- (K) EXISTING SUBGRADE LAYER (GRAYISH BROWN CLAY W/ SILT & GRAVEL)
- (L) EXISTING SUBGRADE LAYER (GRAY CLAY)
- (M) EXISTING BRIDGE DECK
- (N) PROPOSED 4" BROKEN WHITE LINE PER N.O. DPW STD 10 (732-03-02000) W/ REFLECTORIZED RAISED PAVEMENT MARKERS (731-02-00100)
- (O) PROPOSED 4" SOLID WHITE LINE PER N.O. DPW STD 10 (732-02-02000)
- (P) PROPOSED 8" SOLID WHITE LINE PER N.O. DPW STD 10 (732-01-01040) W/ REFLECTORIZED RAISED PAVEMENT MARKERS (731-02-00100)
- (Q) PROPOSED COLD PLANING ASPHALTIC CONCRETE (2" AVG. DEPTH)
- (R) PROPOSED 2" AVG. DEPTH SUPERPAVE ASPHALTIC CONCRETE WEARING COURSE, LEVEL 1
- (S) PROPOSED 4" SOLID YELLOW LINE PER N.O. DPW STD 10 (732-02-02000)

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 (502-01-00100/502-01-00200).
- 2. REFER TO PLAN SHEETS FOR LOCATION AND DIMENSIONS OF PAVEMENT REPAIR AND CONCRETE CURB REPAIR.
- 3. CONTRACTOR SHALL PATCH ROADWAY PRIOR TO MILLING & OVERLAY WITH FULL DEPTH CONCRETE OR AC PATCH AT LOCATIONS DETERMINED IN THE FIELD AND/OR AS DIRECTED BY THE PROJECT ENGINEER. CONCRETE PAVEMENT REPAIR SHALL BE CONSTRUCTED IN ACCORDANCE WITH N.O. DPW STD 2, 4-5. ASPHALT PATCHING SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE ASPHALT PATCHING DETAIL PROVIDED ON SHEET 26.
- 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. REFER TO TITLE SHEET FOR APPLICABLE STANDARD PLANS AND DETAILS USED FOR THIS PROJECT.

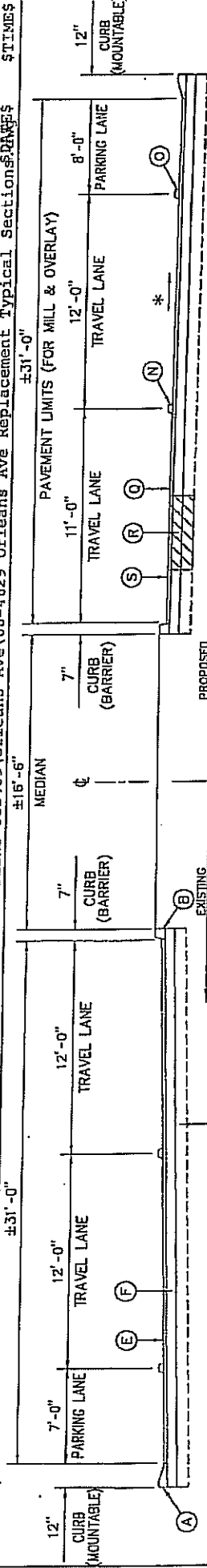
BORE# B33-1 (NB - 2000' N OF N. CLAIBORNE)	
LAYER TYPE	LAYER THICKNESS (INCHES)
AC	1.75
AC	3.00
PCC	10.00
CANAL CHANNEL	
PAVEMENT IS DIRECTLY ON TOP OF CANAL CHANNEL	

BORE# B33-6 (SB - 2000' N OF N. CLAIBORNE)	
LAYER TYPE	LAYER THICKNESS (INCHES)
AC	1.25
PCC	6.75
SUBGRADE	GRAY CLAY W/ GRAVEL



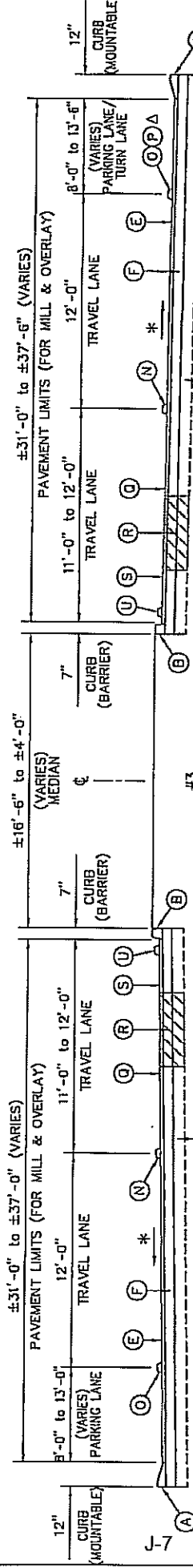
CIVIL DESIGN & CONSTRUCTION INC.		ORLEANS AVENUE		TYPICAL SECTIONS AND DETAILS	
NO. DATE		NO. DATE		NO. DATE	
DESIGNED		CHECKED		DATE	
NJD		NJD		FEB. 2009	
FEDERAL PROJECT		FEDERAL PROJECT		SHEET 1 OF 7	
ER-ERP1(05B)		ER-ERP1(05B)		704-36-0042	
PARISH		PARISH		2	
ORLEANS		ORLEANS			
SHEET NUMBER		SHEET NUMBER		2	

FINAL PLANS



#2  
HALF SECTION  
ORLEANS AVE. (I-10 EXIT RAMP - N. DORGENOIS ST.)  
STA. 103+40.00 - STA. 135+50.00

REFER TO SHEET 2 FOR TYPICAL SECTION NOTES



#3  
TYPICAL SECTION

ORLEANS AVE. (N. DORGENOIS ST. - N. BROAD AVE.)  
STA. 135+50.00 - STA. 138+07.82

REFER TO SHEET 2 FOR TYPICAL SECTION NOTES

LEGEND - TYPICAL SECTION

- (A) EXISTING INTEGRAL CONCRETE CURB (MOUNTABLE)
- (B) EXISTING INTEGRAL CONCRETE CURB (BARRIER)
- (C) EXISTING CONCRETE CURB & GUTTER (MOUNTABLE)
- (D) EXISTING CONCRETE CURB & GUTTER (BARRIER)
- (E) EXISTING ASPHALTIC CONCRETE
- (F) EXISTING PORTLAND CEMENT CONCRETE
- (G) EXISTING SUBGRADE LAYER (VARIES)
- (H) EXISTING BASE COURSE
- (I) EXISTING MORTAR
- (J) EXISTING BASE COURSE (GRAYISH FRAGMENTS W/ GRAVEL & SAND)
- (K) EXISTING SUBGRADE LAYER (GRAYISH BROWN CLAY W/ SILT & GRAVEL)
- (L) EXISTING SUBGRADE LAYER (GRAY CLAY)
- (M) EXISTING BRIDGE DECK
- (N) PROPOSED 4" BROKEN WHITE LINE PER N.O. DPW STD 10 (732-03-02000) W/ REFLECTORIZED RAISED PAVEMENT MARKERS (731-02-00100)
- (O) PROPOSED 4" SOLID WHITE LINE PER N.O. DPW STD 10 (732-02-02000)
- (P) PROPOSED 8" SOLID WHITE LINE PER N.O. DPW STD 10 (732-01-01040) W/ REFLECTORIZED RAISED PAVEMENT MARKERS (731-02-00100)

- (Q) PROPOSED COLD PLANING ASPHALTIC CONCRETE (2" AVG. DEPTH)
- (R) PROPOSED CONCRETE PAVEMENT REPAIR PER N.O. DPW STD. 2, 4-5
- (S) PROPOSED 2" AVG. DEPTH SUPERPAVE ASPHALTIC CONCRETE WEARING COURSE, LEVEL 1
- (T) PROPOSED ASPHALT PATCHING
- (U) PROPOSED 4" SOLID YELLOW LINE PER N.O. DPW STD 10 (732-02-02000)

\* MATCH EXISTING CROSS SLOPE. ADJUST AS NECESSARY TO ENSURE POSITIVE DRAINAGE (1.5% MIN.)

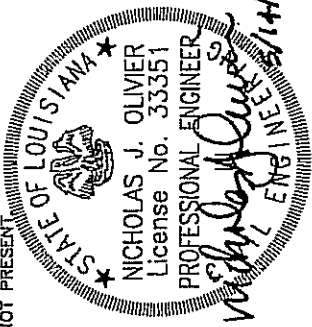
Δ BEGIN TURN LANE AT STA. 135+91.00

NOTE: NO SUBGRADE CORINGS INDICATE THAT PAVEMENT IS DIRECTLY ON TOP OF CANAL CHANNEL AT STATION 120+00. SUBGRADE CONSISTS OF BROWN CLAY W/ GRAVEL/SHELL FRAGMENTS WHERE CANAL IS NOT PRESENT.

BORE# B33-2 (NB - 3400' N OF N. CLAIBORNE)	
LAYER TYPE	LAYER THICKNESS (INCHES)
AC	1.75
FGC	1.25
PCC	7.50
SUBGRADE	BKN CLAY W/ GVL & SHEL FRG.

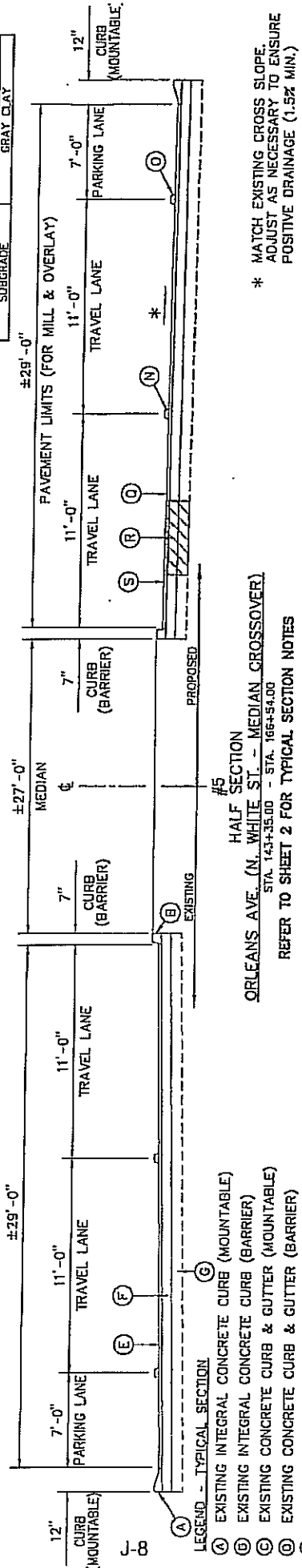
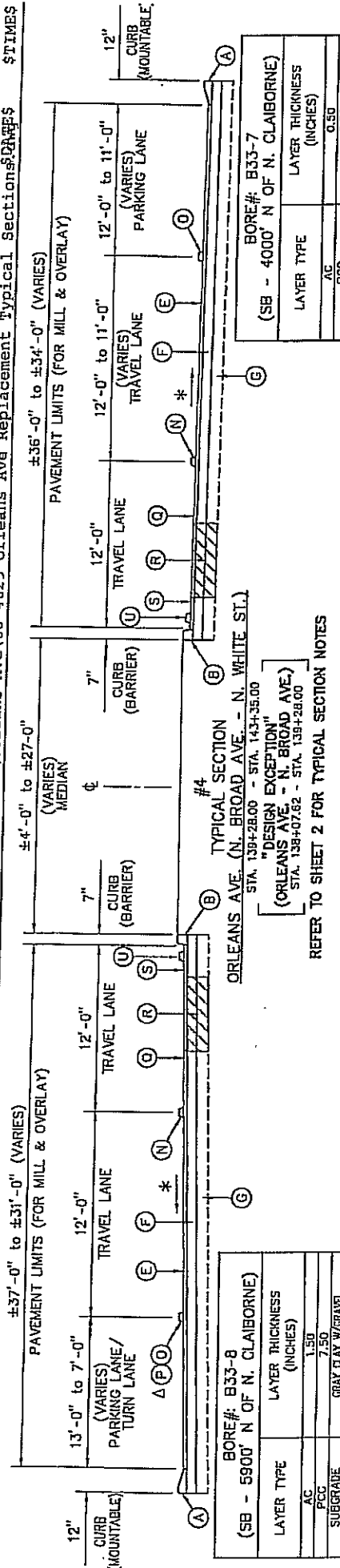
BORE# B33-1 (NB - 2000' N OF N. CLAIBORNE)	
LAYER TYPE	LAYER THICKNESS (INCHES)
AC	1.75
FGC	3.00
PCC	10.00
CANAL CHANNEL	
PAVEMENT IS DIRECTLY ON TOP OF CANAL CHANNEL	

BORE# B33-6 (SB - 2000' N OF N. CLAIBORNE)	
LAYER TYPE	LAYER THICKNESS (INCHES)
AC	1.25
PCC	6.75
SUBGRADE	GRAY CLAY W/ GRAVEL



CIVIL DESIGN & CONSTRUCTION INC.		ORLEANS AVENUE		TYPICAL SECTIONS AND DETAILS	
SHEET NUMBER		ORLEANS		704-36-0042	
20		FEDERAL PROJECT		ER-ERP1(05B)	
DATE		FEB. 2008		SHEET 2 OF 7	

# FINAL PLANS



- LEGEND - TYPICAL SECTION**
- (A) EXISTING INTEGRAL CONCRETE CURB (MOUNTABLE)
  - (B) EXISTING INTEGRAL CONCRETE CURB (BARRIER)
  - (C) EXISTING CONCRETE CURB & GUTTER (MOUNTABLE)
  - (D) EXISTING CONCRETE CURB & GUTTER (BARRIER)
  - (E) EXISTING ASPHALTIC CONCRETE
  - (F) EXISTING PORTLAND CEMENT CONCRETE
  - (G) EXISTING SUBGRADE LAYER (VARIES)
  - (H) EXISTING BASE COURSE
  - (I) EXISTING MORTAR
  - (J) EXISTING BASE COURSE (GRAYISH FRAGMENTS W/ GRAVEL & SAND)
  - (K) EXISTING SUBGRADE LAYER (GRAYISH BROWN CLAY W/ SILT & GRAVEL)
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  - (M) EXISTING BRIDGE DECK
  - (N) PROPOSED 4" BROKEN WHITE LINE PER N.O. DPW STD 10 (732-03-02000) W/ REFLECTORIZED RAISED PAVEMENT MARKERS (731-02-00100)
  - (O) PROPOSED 4" SOLID WHITE LINE PER N.O. DPW STD 10 (732-02-02000)
  - (P) PROPOSED 8" SOLID WHITE LINE PER N.O. DPW STD 10 (732-01-01040) W/ REFLECTORIZED RAISED PAVEMENT MARKERS (731-02-00100)
- PROPOSED COLD PLANING ASPHALTIC CONCRETE (2" AVG. DEPTH)**
- PROPOSED CONCRETE PAVEMENT REPAIR PER N.O. DPW STD. 2, 4-5**
- PROPOSED 2" AVG. DEPTH SUPERPAVE ASPHALTIC CONCRETE WEARING COURSE, LEVEL 1**
- PROPOSED ASPHALT PATCHING**
- PROPOSED 4" SOLID YELLOW LINE PER N.O. DPW STD 10 (732-02-02000)**

**STATE OF LOUISIANA**

**NICHOLAS J. OLIVIER**

License No. 33351

PROFESSIONAL ENGINEER

*W. J. Oliver*

5/14/09

**BORE # B33-4 (NB - 5900' N OF N. CLAIBORNE)**

LAYER TYPE	LAYER THICKNESS (INCHES)
AC	1.25
PCC	8.25
SUBGRADE	GRAY CLAY W/ SAND, GRV. SHEL FRAG.

**BORE # B33-3 (NB - 4800' N OF N. CLAIBORNE)**

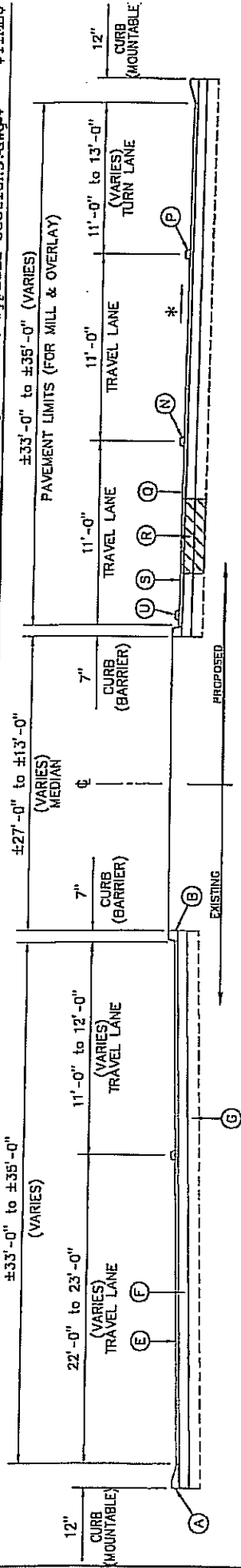
LAYER TYPE	LAYER THICKNESS (INCHES)
AC	2.50
PCC	7.75
SUBGRADE	GRAYISH BRN SILTY CLAY W/ SHEL FRAG.

SHEET NUMBER		26	
ORLEANS		ER-ERP1(05B)	
PARISH		STATE PROJECT	
FEDERAL PROJECT		704-36-0042	
DATE		FEB. 2009	
SHEET		3 OF 7	
REVISION DESCRIPTION		BY	
ORLEANS AVENUE		TYPICAL SECTIONS AND DETAILS	
CIVIL DESIGN & CONSTRUCTION INC.		DOTD	



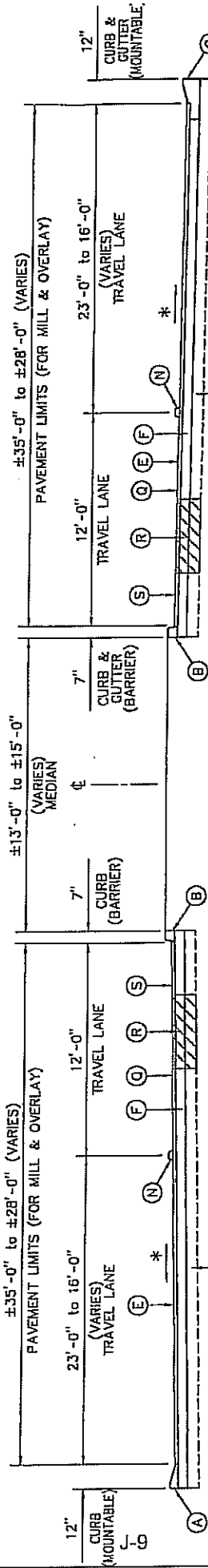
# FINAL PLANS

Q:\PROJECTS\08-4629 New Orleans Roads Grp 11\Drawings\Revised Final Plans 051409\Orleans Ave\08-4629 Orleans Ave Replacement Typical Sections\DWG\$S\$ TIMES\$



#6  
HALF SECTION  
ORLEANS AVE. (MEDIAN CROSSOVER - E. MOSS ST.)  
STA. 166+54.00 - STA. 167+90.00  
REFER TO SHEET 2 FOR TYPICAL SECTION NOTES

\* MATCH EXISTING CROSS SLOPE.  
ADJUST AS NECESSARY TO ENSURE  
POSITIVE DRAINAGE (1.5% MIN.)

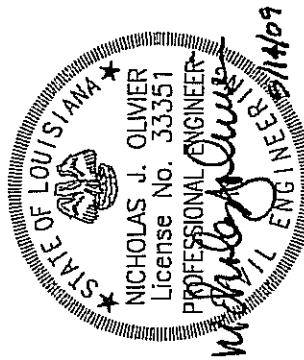


#7  
TYPICAL SECTION  
ORLEANS AVE. (E. MOSS ST. - BEGIN BRIDGE)  
STA. 167+90.00 - STA. 168+43.50  
REFER TO SHEET 2 FOR TYPICAL SECTION NOTES

## LEGEND - TYPICAL SECTION

- (A) EXISTING INTEGRAL CONCRETE CURB (MOUNTABLE)
- (B) EXISTING INTEGRAL CONCRETE CURB (BARRIER)
- (C) EXISTING CONCRETE CURB & GUTTER (MOUNTABLE)
- (D) EXISTING CONCRETE CURB & GUTTER (BARRIER)
- (E) EXISTING ASPHALTIC CONCRETE
- (F) EXISTING PORTLAND CEMENT CONCRETE
- (G) EXISTING SUBGRADE LAYER (VARIES)
- (H) EXISTING BASE COURSE
- (I) EXISTING MORTAR
- (J) EXISTING BASE COURSE (GRAYISH FRAGMENTS W/ GRAVEL & SAND)
- (K) EXISTING SUBGRADE LAYER (GRAYISH BROWN CLAY W/ SILT & GRAVEL)
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- (O) PROPOSED 4" SOLID WHITE LINE PER N.O. DPW STD 10 (732-02-02000)

- (P) PROPOSED 8" SOLID WHITE LINE PER N.O. DPW STD 10 (732-01-01040) W/ REFLECTORIZED RAISED PAVEMENT MARKERS (731-02-00100)
- (Q) PROPOSED COLD PLANING ASPHALTIC CONCRETE (2" AVG. DEPTH)
- (R) PROPOSED CONCRETE PAVEMENT REPAIR PER N.O. DPW STD. 2, 4-5
- (S) PROPOSED 2" AVG. DEPTH SUPERPAVE ASPHALTIC CONCRETE WEARING COURSE, LEVEL 1
- (T) PROPOSED ASPHALT PATCHING
- (U) PROPOSED 4" SOLID YELLOW LINE PER N.O. DPW STD 10 (732-02-02000)



BORE# B33-8 (SB - 5900' N OF N. CLAIBORNE)	
LAYER TYPE	LAYER THICKNESS (INCHES)
AC	1.50
PCC	7.50
SUBGRADE	GRAY CLAY W/ GRAVEL

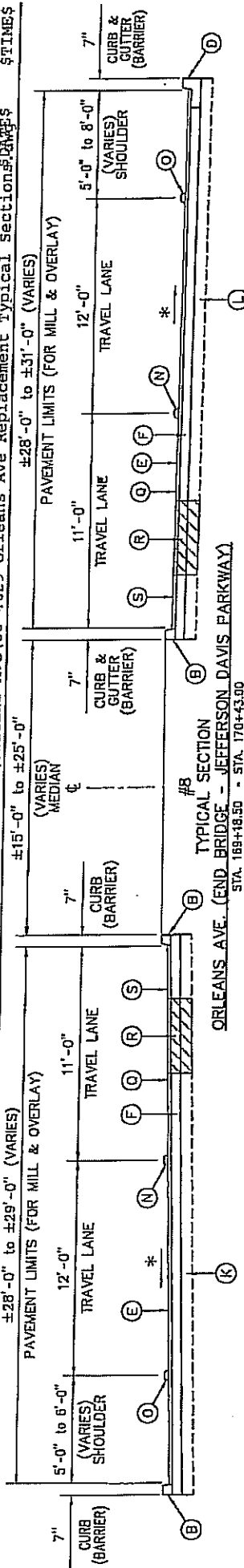
BORE# B33-4 (NB - 5900' N OF N. CLAIBORNE)	
LAYER TYPE	LAYER THICKNESS (INCHES)
AC	1.25
PCC	8.25
SUBGRADE	GRAY CLAY W/ SAND, GRVL, SHLL FRAG.

BORE# B33-3 (NB - 4800' N OF N. CLAIBORNE)	
LAYER TYPE	LAYER THICKNESS (INCHES)
AC	2.50
PCC	7.75
SUBGRADE	GRAYISH BRN SILT CLAY W/ SHLL FRAG.

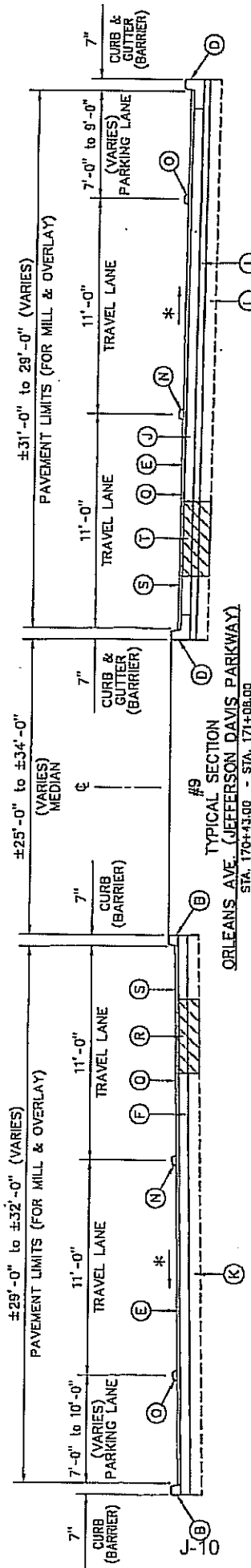
SHEET NUMBER		2c	
ORLEANS AVENUE		TYPICAL SECTIONS AND DETAILS	
CIVIL DESIGN & CONSTRUCTION INC.	ORLEANS AVENUE	PARISH	ORLEANS
		FEDERAL PROJECT	ER-ERP1(058)
		STATE PROJECT	704-36-0042
		DATE	FEB. 2003
		SHEET	4 OF 7
		DESIGNED	BSR
		CHECKED	NJO
		RETAINED	ICMR
		PROJECT	NJO

# FINAL PLANS

Q:\PROJECTS\08-4629 New Orleans Roads Grp 11\Drawings\Revised Final Plans 05140910\Orleans Ave\08-4629 Orleans Ave Replacement Typical Sections.dwg \$TIME\$ \$DATE\$



REFER TO SHEET 2 FOR TYPICAL SECTION NOTES



REFER TO SHEET 2 FOR TYPICAL SECTION NOTES

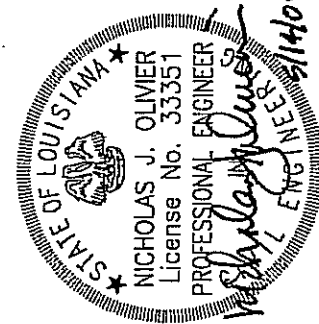
## LEGEND - TYPICAL SECTION

- A EXISTING INTEGRAL CONCRETE CURB (MOUNTABLE)
- B EXISTING INTEGRAL CONCRETE CURB (BARRIER)
- C EXISTING CONCRETE CURB & GUTTER (MOUNTABLE)
- D EXISTING CONCRETE CURB & GUTTER (BARRIER)
- E EXISTING ASPHALTIC CONCRETE
- F EXISTING PORTLAND CEMENT CONCRETE
- G EXISTING SUBGRADE LAYER (VARIES)
- H EXISTING BASE COURSE
- I EXISTING MORTAR
- J EXISTING BASE COURSE (GRAYISH FRAGMENTS W/ GRAVEL & SAND)
- K EXISTING SUBGRADE LAYER (GRAYISH BROWN CLAY W/ SILT & GRAVEL)
- L EXISTING SUBGRADE LAYER (GRAY CLAY)
- M EXISTING BRIDGE DECK
- N PROPOSED 4" BROKEN WHITE LINE PER N.O. DPW STD 10 (732-03-020000) W/ REFLECTORIZED RAISED PAVEMENT MARKERS (731-02-00100)
- O PROPOSED 4" SOLID WHITE LINE PER N.O. DPW STD 10 (732-02-020000)
- P PROPOSED 8" SOLID WHITE LINE PER N.O. DPW STD 10 (732-01-01040) W/ REFLECTORIZED RAISED PAVEMENT MARKERS (731-02-00100)

BORE#: B33-4 (NB - 5900' N OF N. CLAIBORNE)	
LAYER TYPE	LAYER THICKNESS (INCHES)
AC	1.25
PCC	8.25
SUBGRADE	GRAY CLAY W/ SAND, GRN. SHELL FRAG.

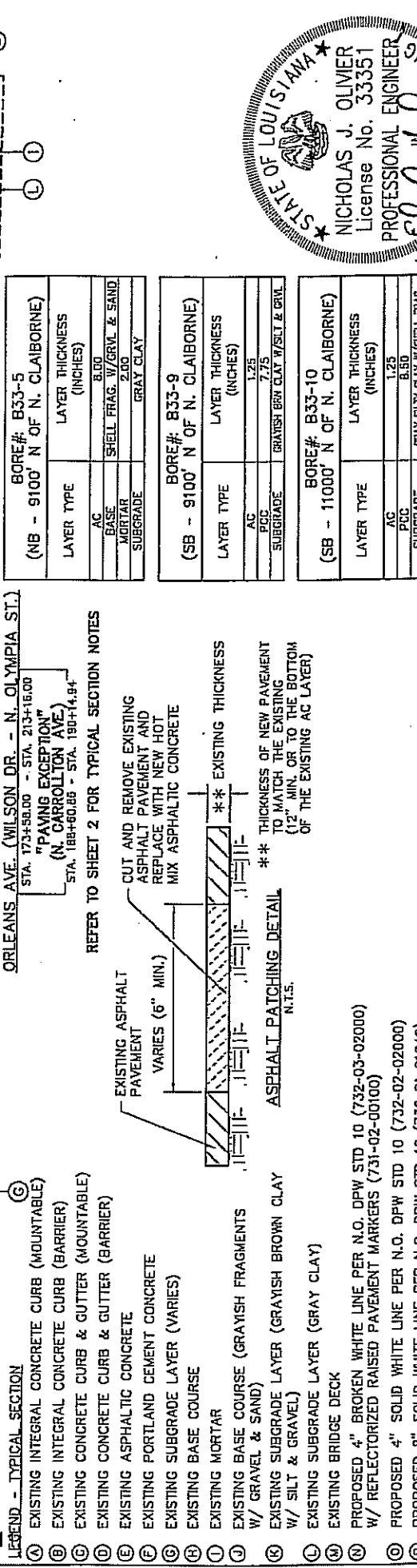
BORE#: B33-8 (SB - 5900' N OF N. CLAIBORNE)	
LAYER TYPE	LAYER THICKNESS (INCHES)
AC	1.50
PCC	7.50
SUBGRADE	GRAY CLAY W/ GRAVEL

BORE#: B33-5 (NB - 9100' N OF N. CLAIBORNE)	
LAYER TYPE	LAYER THICKNESS (INCHES)
AC	8.00
BASE	SHELL FRAG. W/ GRV. & SAND
MORTAR	2.00
SUBGRADE	GRAY CLAY



- Q PROPOSED COLD PLANING ASPHALTIC CONCRETE (2" AVG. DEPTH)
- R PROPOSED CONCRETE PAVEMENT REPAIR PER N.O. DPW STD. 2, 4-5
- S PROPOSED 2" AVG. DEPTH SUPERPAVE ASPHALTIC CONCRETE WEARING COURSE, LEVEL 1
- T PROPOSED ASPHALT PATCHING
- U PROPOSED 4" SOLID YELLOW LINE PER N.O. DPW STD 10 (732-02-02000)

		ORLEANS AVENUE		TYPICAL SECTIONS AND DETAILS	
		ORLEANS AVENUE		TYPICAL SECTIONS AND DETAILS	
CIVIL DESIGN & CONSTRUCTION, INC.	DESIGNED NJO	BSR NJO	PAINTED ORLEANS	SHEET NUMBER	2d
	CHECKED NJO	CNR NJO	FEDERAL PROJECT ER-ERP1(058)		
	DATE FEB. 2003	DATE FEB. 2003	STATE PROJECT 704-36-0042		
	BY 5 OF 7				



LEGEND - TYPICAL SECTION

(G) ORLEANS AVE. (WILSON DR. - N. OLYMPIA ST.)

STATIONING: STA. 17+15.00 TO STA. 17+15.00

BORE #: B35-5

(A) EXISTING INTEGRAL CONCRETE CURB (MOUNTABLE)	SIA. 173+58.00 - SIA. 213+16.00 "PAVING EXCEPTION"	(NB - 9100' N OF N. CLAIBORNE)	(L) (L) (L) (L)
---	---	--------------------------------	-----------------

	LAYER TYPE	LAYER THICKNESS (INCHES)
(B) EXISTING INTEGRAL CONCRETE CURB (BARRIER)	(N. CARROLL TON AVE.) STA. 188+60.66 - STA. 190+14.94	
(C) EXISTING INTEGRAL CONCRETE CURB (BARRIER)		

	(inches)	
EXISTING CONCRETE CURB & GUTTER (MOUNTABLE)	AC	
EXISTING CONCRETE CURB & CUTTER (MOUNTABLE)	8.00	

(C)	EXISTING ASPHALTIC CONCRETE	CUT AND REMOVE EXISTING ASPHALT
(E)	EXISTING ASPHALTIC CONCRETE	
	BASE MORTAR	
	SHELL FRAG. W/GRVL & SAND	
	2.00	

EXISTING PORTLAND CEMENT CONCRETE	ASPHALT PAVEMENT AND
EXISTING PORTLAND CEMENT CONCRETE	SUBGRADE
EXISTING PORTLAND CEMENT CONCRETE	GRAY CLAY

EXISTING SUBGRADE LAYER (VARIES)  
VARIES (Ø MIN.)  
REF-PLACE WITH NEW HOT MIX ASPHALTIC CONCRETE  
BORE#: 833-9

[illegible][illegible]

③	EXISTING BASE COURSE (GRAYISH FRAGMENTS)	1.25	1.25
④	W/ GRAVEL & SAND	1.25	1.25
⑤	AC	1.25	1.25
⑥	AC	1.25	1.25
⑦	AC	1.25	1.25
⑧	AC	1.25	1.25
⑨	AC	1.25	1.25
⑩	AC	1.25	1.25
⑪	AC	1.25	1.25
⑫	AC	1.25	1.25
⑬	AC	1.25	1.25
⑭	AC	1.25	1.25
⑮	AC	1.25	1.25
⑯	AC	1.25	1.25
⑰	AC	1.25	1.25
⑱	AC	1.25	1.25
⑲	AC	1.25	1.25
⑳	AC	1.25	1.25
㉑	AC	1.25	1.25
㉒	AC	1.25	1.25
㉓	AC	1.25	1.25
㉔	AC	1.25	1.25
㉕	AC	1.25	1.25
㉖	AC	1.25	1.25
㉗	AC	1.25	1.25
㉘	AC	1.25	1.25
㉙	AC	1.25	1.25
㉚	AC	1.25	1.25
㉛	AC	1.25	1.25
㉜	AC	1.25	1.25
㉝	AC	1.25	1.25
㉞	AC	1.25	1.25
㉟	AC	1.25	1.25
㊱	AC	1.25	1.25
㊲	AC	1.25	1.25
㊳	AC	1.25	1.25
㊴	AC	1.25	1.25
㊵	AC	1.25	1.25
㊶	AC	1.25	1.25
㊷	AC	1.25	1.25
㊸	AC	1.25	1.25
㊹	AC	1.25	1.25
㊺	AC	1.25	1.25
㊻	AC	1.25	1.25
㊼	AC	1.25	1.25
㊽	AC	1.25	1.25
㊾	AC	1.25	1.25
㊿	AC	1.25	1.25

7.75	GRANISH BRN CLAY W/SLT & CIVL
PCIC	SUBGRADE

THICKNESS OF NEW PAVEMENT TO MATCH THE EXISTING

ASPHALT PATCHING DETAIL

EXISTING SUBGRADE LAYER (GRAYISH BROWN CLAY

EXISTING FILLBACK LAYER (GRAY CLAY)  
W/ SILT & GRAVEL  
12" MIN. OR TO THE BOTTOM  
OF THE EXISTING AC LAYER  
CODE # B3-10  
N.I.S.

(M) EXISTING BRIDGE DECK  
(M) EXISTING SUBGRADE LATER (GRAT CLAY)  
(M) EXISTING SUBGRADE LATER (GRAT CLAY)  
(SB - 11000' N OF N. CLAIBORNE)  
DO NOT ENCROACH ON  
EXISTING BRIDGE DECK

(N)	PROPOSED 4"	BROKEN	WHITE LINE	PER N.O.	DPW STD 10 (732-03-02000)
				LAYER TYPE	LAYER THICKNESS

W/ REFLECTORIZED RAISED PAVEMENT MARKERS (731-02-00100)	ENTER IN INCHES	PROFESSIONAL ENGINEER
	AC	175E
		175E
		PROFESSIONAL ENGINEER
		LICENSE NO. 00001

[illegible][illegible]

③	PROPOSED COLD PLANING ASPHALTIC CONCRETE (2" AVG. DEPTH)	①	PROPOSED ASPHALT PATCHING

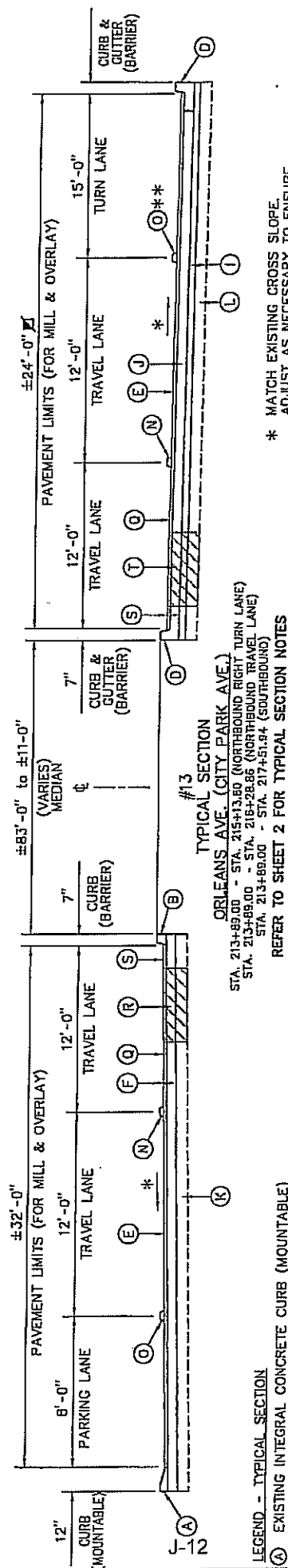
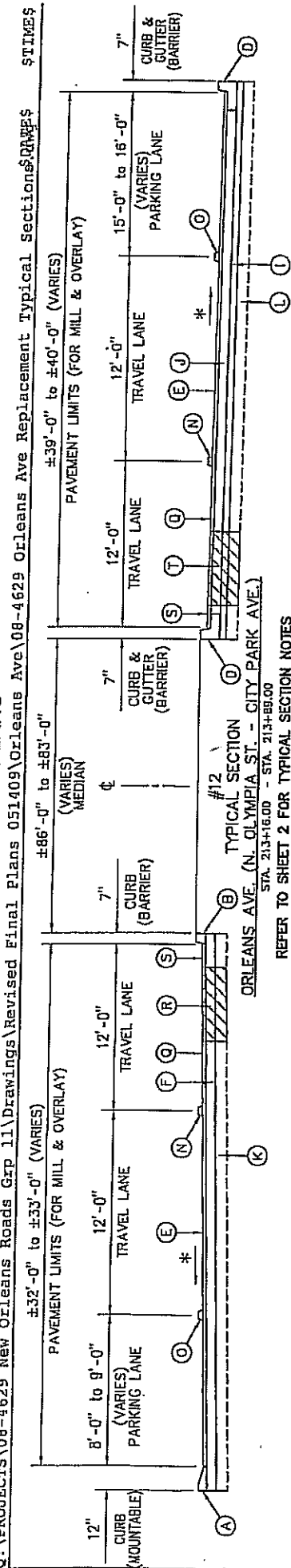
(B) PROPOSED CONCRETE PAVEMENT REPAIR PER N.O. DPW STD. 2, 4-5  
(U) PROPOSED 4" SOLID YELLOW LINE PER N.O. DPW STD 10 (732-02-02000)

[illegible][illegible]

 DEPARTMENT OF DEFENSE OFFICE OF THE SECRETARY	PROJECT	ER-ENPT(058)	2
	CHECKED	N/A	2

 <b>GARDNER- WHITMAN</b>	TYPICAL SECTIONS AND DETAILS		NO. _____ DATE _____	REVISION DESCRIPTION BY _____	DATE _____ DRAWN BY _____ CHECKED BY _____	STATE PROJECT 704-36-0042
			NO. _____ DATE _____	REVISION DESCRIPTION BY _____	DATE _____ DRAWN BY _____ CHECKED BY _____	STATE PROJECT 704-36-0042

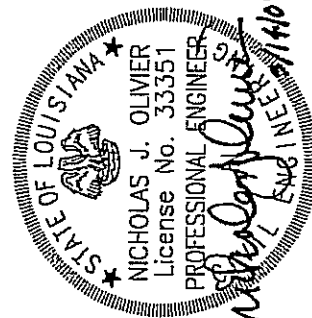
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- (A) EXISTING INTEGRAL CONCRETE CURB (MOUNTABLE)
- (B) EXISTING INTEGRAL CONCRETE CURB (BARRIER)
- (C) EXISTING CONCRETE CURB & GUTTER (MOUNTABLE)
- (D) EXISTING CONCRETE CURB & GUTTER (BARRIER)
- (E) EXISTING ASPHALTIC CONCRETE

**\*\* SEE STRIPING PLAN FOR DETAILS**

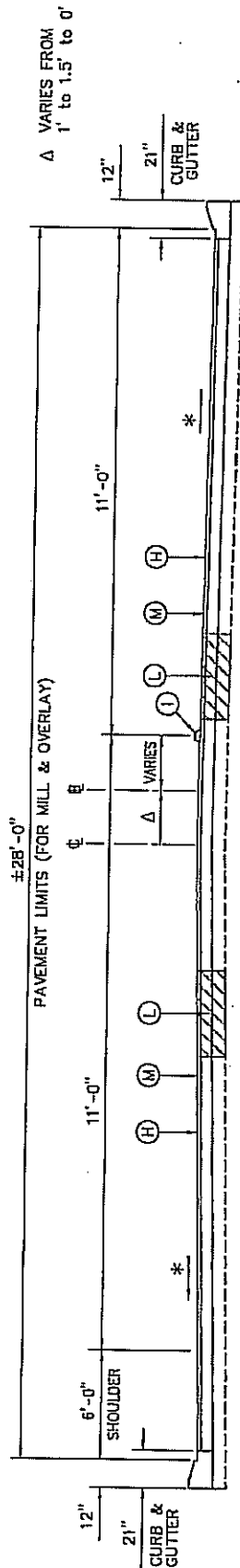
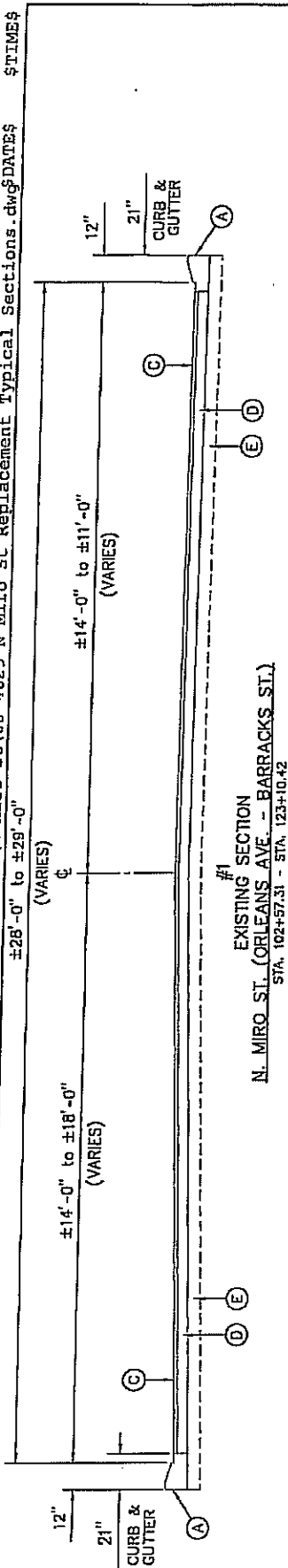
BORE #:		BORE #:	
(NB - 9100' N OF N. CLAIBORNE)		(SB - 11000' N OF N. CLAIBORNE)	
LAYER TYPE	LAYER THICKNESS (INCHES)	LAYER TYPE	LAYER THICKNESS (INCHES)
AC	8.00	AC	1.25
BASE		POG	0.50
MORTAR	2.00	SURFGRAD	0.50
		GRAY CITY PLV W/SHL FRAS	



PROPOSED 2" AVG. DEPTH SUPERPAVE ASPHALTIC CONCRETE WEARING COURSE, LEVEL 1

	ORLEANS AVENUE		PROPOSED + SUDS YELLOW LINE PER M.D. DPW SID 10 (732-02-02000)										SHEET NUMBER 2f	
			PARISH ORLEANS	FEDERAL PROJECT ER-ERP1(058)	STATE PROJECT 704-36-004-2									
			DESIGNED CHECKED REVIEWED DATE	BSR NJO CHJR NJO	FEB. 2009 SHEET 7 OF 7									
			NO. DATE	BY	REVISION DESCRIPTION									

FINAL PLANS



N. MIRO ST. (ORLEANS AVE. - CROWN/BASELINE INTERSECTION)  
STA. 102+57.31 - STA. 115+65.67

\* MATCH EXISTING CROSS SLOPE.  
ADJUST AS NECESSARY TO ENSURE  
POSITIVE DRAINAGE (1.5% MIN.)

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 (502-01-00100/502-01-00200).
2. REFER TO PLAN SHEETS FOR LOCATION AND DIMENSIONS OF CONCRETE REPAIR AND CONCRETE CURB REPAIR.
3. CONTRACTOR SHALL PATCH ROADWAY PRIOR TO MILLING & OVERLAY WITH FULL DEPTH CONCRETE PATCH AT LOCATIONS DETERMINED IN THE FIELD AND/OR AS DIRECTED BY THE PROJECT ENGINEER. CONCRETE PAVEMENT REPAIR 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. REFER TO TITLE SHEET FOR APPLICABLE STANDARD PLANS AND DETAILS USED FOR THIS PROJECT.

LEGEND - TYPICAL SECTION

- (A) EXISTING CONCRETE CURB & GUTTER (MOUNTABLE)
- (B) EXISTING CONCRETE CURB & GUTTER (BARRIER)
- (C) EXISTING ASPHALTIC CONCRETE
- (D) EXISTING PORTLAND CEMENT CONCRETE
- (E) EXISTING SUBGRADE LAYER (BROWN/BROWNISH GRAY CLAY/SILTY SAND W/GRAVEL)
- (F) EXISTING SUBGRADE LAYER (GRAY CLAY W/SHELL FRAGMENTS & BRICK)
- (G) EXISTING SUBGRADE LAYER (GRAY/GRAY SILTY CLAY W/GRAVEL/SHELL FRAGMENTS)
- (H) PROPOSED COLD PLANING ASPHALTIC CONCRETE (2" AVG. DEPTH)
- (I) PROPOSED 4" BROKEN WHITE LINE PER N.O. DPW STD 10 (732-03-02000)
- (J) W/ REFLECTORIZED RAISED PAVEMENT MARKERS (731-02-00100)
- (K) PROPOSED 4" SOLID WHITE LINE PER N.O. DPW STD 10 (732-02-02000)
- (L) PROPOSED 6" SOLID YELLOW LINE PER N.O. DPW STD 10 (732-01-01020)
- (M) PROPOSED CONCRETE PAVEMENT REPAIR PER N.O. DPW STD. 2, 4-5
- (N) PROPOSED 2" AVG. DEPTH SUPERPAVE ASPHALTIC CONCRETE WEARING COURSE, LEVEL 1

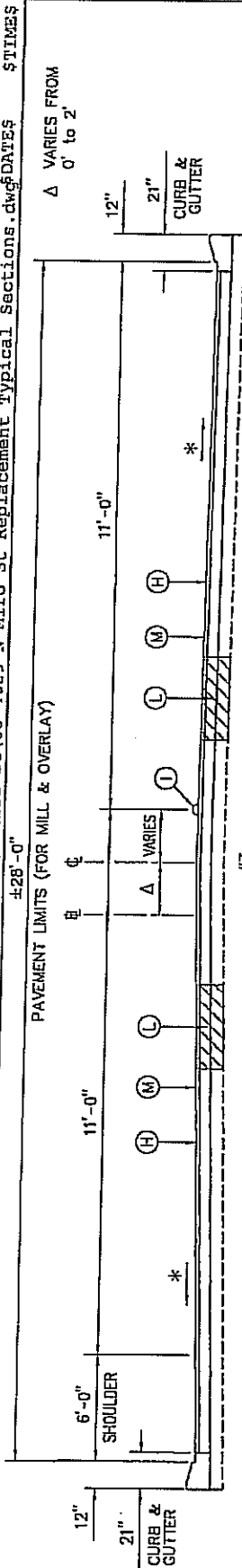
- (B) PROPOSED COLD PLANING ASPHALTIC CONCRETE (2" AVG. DEPTH)
- (I) PROPOSED 4" BROKEN WHITE LINE PER N.O. DPW STD 10 (732-03-02000)
- (J) W/ REFLECTORIZED RAISED PAVEMENT MARKERS (731-02-00100)
- (K) PROPOSED 4" SOLID WHITE LINE PER N.O. DPW STD 10 (732-02-02000)
- (L) PROPOSED 6" SOLID YELLOW LINE PER N.O. DPW STD 10 (732-01-01020)
- (M) PROPOSED CONCRETE PAVEMENT REPAIR PER N.O. DPW STD. 2, 4-5
- (N) PROPOSED 2" AVG. DEPTH SUPERPAVE ASPHALTIC CONCRETE WEARING COURSE, LEVEL 1

BORE#: B34-7 (7000' W OF ELYSIAN FIELDS AVE.)	
LAYER TYPE	LAYER THICKNESS (INCHES)
AC	2.50
PCC	7.25
SUBGRADE	-

BORE#: B34-8 (8000' W OF ELYSIAN FIELDS AVE.)	
LAYER TYPE	LAYER THICKNESS (INCHES)
AC	2.75
PCC	9.25
SUBGRADE	-

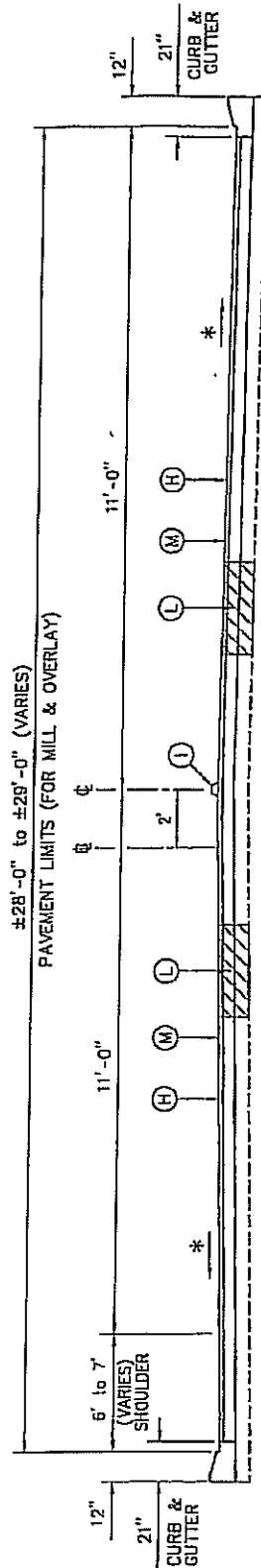


CIVIL DESIGN & CONSTRUCTION INC.		N. MIRO STREET		TYPICAL SECTIONS AND DETAILS	
ORLEANS		ORLEANS		ORLEANS	
ER-ERP1(059)		ER-ERP1(059)		ER-ERP1(059)	
704-36-0043		704-36-0043		704-36-0043	
1 OF B		1 OF B		1 OF B	
DATE		DATE		DATE	
FEB. 2009		FEB. 2009		FEB. 2009	
SHEET		SHEET		SHEET	
29		29		29	



N. MIRO ST. (CROWN/BASELINE INTERSECTION -- GOV. NICHOLLS ST.)  
#3  
PROPOSED SECTION  
STA. 115+65.67- STA. 119+46.05

REFER TO SHEET 2g FOR TYPICAL SECTION NOTES



**PROPOSED SECTION**  
**#4**  
**N. MIRO ST. (GOV. NICHOLS ST. - BARRACKS ST.)**  
STA. 119+46.05 - STA. 123+10.42

REFER TO SHEET 2g FOR TYPICAL SECTION NOTES

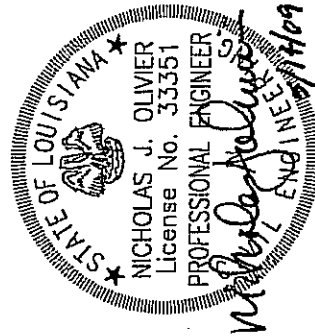
BORE #: B34-7 (7000' W OF ELYSIAN FIELDS AVE.)	
LAYER TYPE	LAYER THICKNESS (INCHES)
AC	2.50
PCC	7.25
SLABGRADE	

BORE #: B34-8 (8000' W OF ELYSIAN FIELDS AVE.)	
LAYER TYPE	LAYER THICKNESS (INCHES)
AC	2.75
PCC	9.25
STRENGTH OF	

\* MATCH EXISTING CROSS SLOPE.  
ADJUST AS NECESSARY TO ENSURE  
POSITIVE DRAINAGE (1.5% MIN.)

**LEGEND - TYPICAL SECTION**

- (A) EXISTING CONCRETE CURB & GUTTER (MOUNTABLE)
- (B) EXISTING CONCRETE CURB & GUTTER (BARRIER)
- (C) EXISTING ASPHALTIC CONCRETE
- (D) EXISTING PORTLAND CEMENT CONCRETE
- (E) EXISTING SUBGRADE LAYER (BROWN/BROWNISH GRAY SILT/SILT SAND W/GRAVEL)
- (F) EXISTING SUBGRADE LAYER (GRAY CLAY W/SHELL FRAGMENTS & BRICK)
- (G) EXISTING SUBGRADE LAYER (GRAY/GRAY SILTY CLAY W/GRAVEL/SHELL FRAGMENTS)
- (H) PROPOSED COLD PLANING ASPHALTIC CONCRETE (2")
- (I) PROPOSED 4" BROKEN WHITE LINE PER N.O. DPW SPEC
- (J) W/ REFLECTORIZED RAISED PAVEMENT MARKERS (7")
- (K) PROPOSED 4" SOLID WHITE LINE PER N.O. DPW SPEC
- (L) PROPOSED 6" SOLID YELLOW LINE PER N.O. DPW SPEC
- (M) PROPOSED CONCRETE PAVEMENT REPAIR PER N.O. DPW SPEC
- (N) PROPOSED 2" AVG. DEPTH SURFACING PER N.O. DPW SPEC

[illegible]



**\*\* MATCH EXISTING CROSS SLOPE.  
ADJUST AS NECESSARY TO ENSURE  
POSITIVE DRAINAGE (1.5% MIN.)**

ESTABLISHES "NO PARKING ZONE"  
AT CURB RADIUS RETURN

PROPOSED SECTION  
#9  
N. MIRO ST. (BARRACKS ST - ESPLANADE AVE.)  
STA. 123+10.42 - 57A, 125+91.21  
REFER TO SHEET 2g FOR TYPICAL SECTION NOTES

BORE #: B34-6 (6200' W OF ELYSIAN FIELDS AVE.)	
LAYER TYPE	LAYER THICKNESS (INCHES)
AC	2.25
PCB	8.00
SUBGRADE	

**① EXISTING CONCRETE CURB & GUTTER (MOUNTABLE)**

⑥ EXISTING CONCRETE CURB & GUTTER (BARRIER)

© EXISTING ASPHALTIC CONCRETE

④ EXISTING PORTLAND CEMENT CONCRETE

③ EXISTING SUBGRADE LAYER (BROWN/BROWNISH

GRAY CLAY/SILTY SAND W/GRAVEL)

⑦ EXISTING SUBGRADE LAYER (GRAY CLAY W/SHELL  
EQUIVALENTS - 2000)

FRAGMENTS & BRICK)

EXISTING SUBGRADE LAYER (GRAY/GRAY SILTY CLAY W/ GRAVEL/SHELL FRAGMENTS)

⑨ PROPOSED COLD PLANING ASPHALTIC CONCRETE (2" AVG DEPTH)

① PROPOSED 4" BROKEN WHITE LINE PER N.O. DPW STD 10 (732-03-02100N)

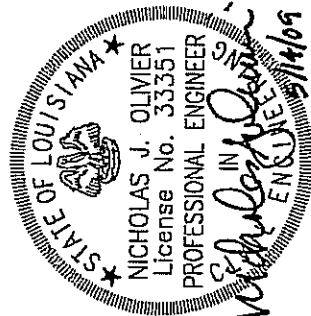
W/ REFLECTORIZED RAISED PAVEMENT MARKERS (731-02-00100)

PROPOSED 4" SOLID WHITE LINE PER N.O. DPW STD 10 (732-02-02000)

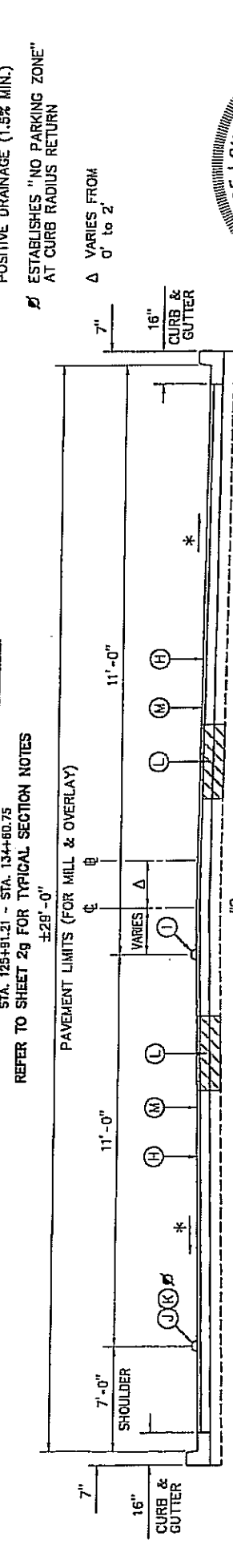
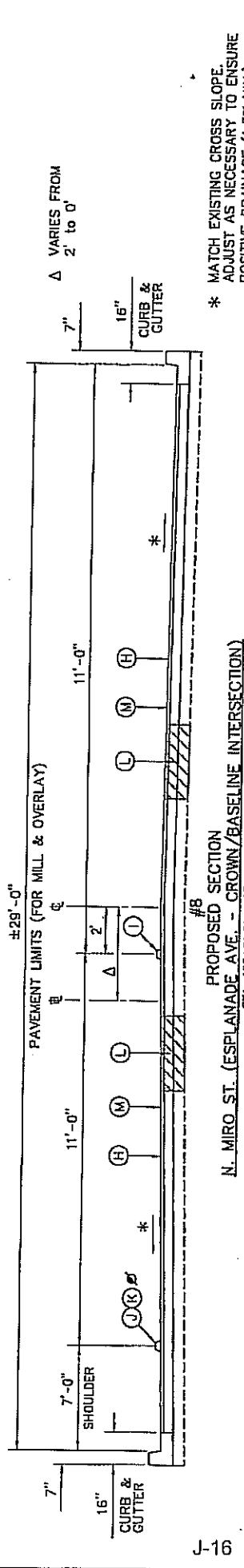
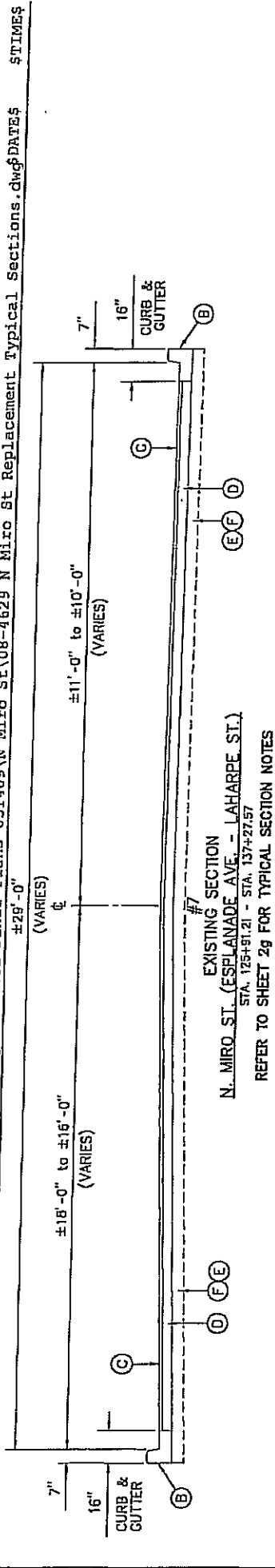
⑬ PROPOSED 6" SOLID YELLOW LINE PER N.O. DPW STD 10 (732-01-01020)

PROPOSED CONCRETE PAVEMENT REPAIR PER N.O. DPW STD. 2, 4-5

① PROPOSED 2" AVG. DEPTH SUPERPAVE ASPHALTIC CONCRETE WEARING COURSE, LEVEL 1

[illegible]

# FINAL PLANS



**LEGEND - TYPICAL SECTION**

- (A) EXISTING CONCRETE CURB & GUTTER (MOUNTABLE)
- (B) EXISTING CONCRETE CURB & GUTTER (BARRIER)
- (C) EXISTING ASPHALTIC CONCRETE
- (D) EXISTING PORTLAND CEMENT CONCRETE
- (E) EXISTING SUBGRADE LAYER (BROWN/BROWNISH GRAY CLAY/SILTY SAND W/GRAVEL)
- (F) EXISTING SUBGRADE LAYER (GRAY CLAY W/SHELL FRAGMENTS & BRICK)
- (G) EXISTING SUBGRADE LAYER (GRAY/GRAY SILTY CLAY W/GRAVEL/SHELL FRAGMENTS)

**PROPOSED COLD PLANING ASPHALTIC CONCRETE (2" AVG. DEPTH)**

- (H) PROPOSED 4" BROKEN WHITE LINE PER N.O. DPW STD 10 (732-03-02000)
- (I) W/ REFLECTORIZED RAISED PAVEMENT MARKERS (731-02-00100)
- (J) PROPOSED 4" SOLID WHITE LINE PER N.O. DPW STD 10 (732-02-02000)
- (K) PROPOSED 6" SOLID YELLOW LINE PER N.O. DPW STD 10 (732-01-01020)
- (L) PROPOSED CONCRETE PAVEMENT REPAIR PER N.O. DPW STD. 2, 4-5
- (M) PROPOSED 2" AVG. DEPTH SUPERPAVE ASPHALTIC CONCRETE WEARING COURSE, LEVEL 1

**BORE#: B34-5**  
(5500' W OF ELYSIAN FIELDS AVE.)

LAYER TYPE	LAYER THICKNESS (INCHES)
AC	2.00
AC	1.75
AC	1.00
AC	1.50
FGC	5.50
SUBGRADE	

**STATE OF LOUISIANA**  
NICHOLAS J. OLIVER  
License No. 33351  
PROFESSIONAL ENGINEER  
END INE 11469

SHEET NUMBER		2J	
PARISH		ORLEANS	
FEDERAL PROJECT		ER-ERP1(059)	
STATE PROJECT		704-36-0043	
DESIGNED	NO	NO	NO
CHECKED	NO	NO	NO
DATE	NO	DATE	NO
BY		BY	
NO.		NO.	
DATE		DATE	
DESCRIPTION		DESCRIPTION	
N. MIRO STREET		TYPICAL SECTIONS AND DETAILS	
CIVIL DESIGN & CONSTRUCTION INC.		CIVIL DESIGN & CONSTRUCTION INC.	





\* MATCH EXISTING CROSS SLOPE.  
ADJUST AS NECESSARY TO ENSURE  
POSITIVE DRAINAGE (1.5% MIN.)

VARIES FROM  
0.5' to 0'

STA. 140+95.48 - STA. 144+65.52  
REFER TO SHEET 2g FOR TYPICAL SECTION NOTES

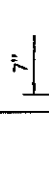
Michael J. Deane  
ENGINEER  
11469

[illegible]



ST. BERNARD INTERSECTION  
STA. 150+54.80 - STA. 151+91.05

REFER TO SHEET 2g FOR TYPICAL SECTION NOTES





**"PAVING EXCEPTION"**  
**ST. BERNARD INTERSECTION**  
**STA. 150+64.80 - STA. 151+91.03**

REFER TO SHEET 2g FOR TYPICAL SECTION NOTES

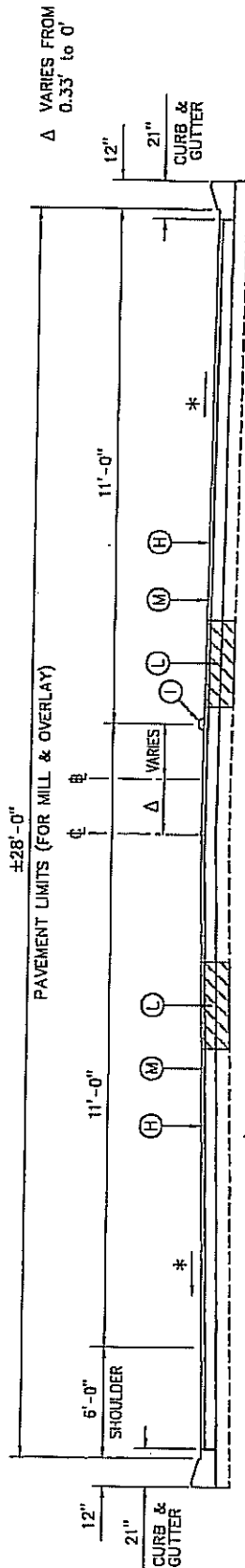
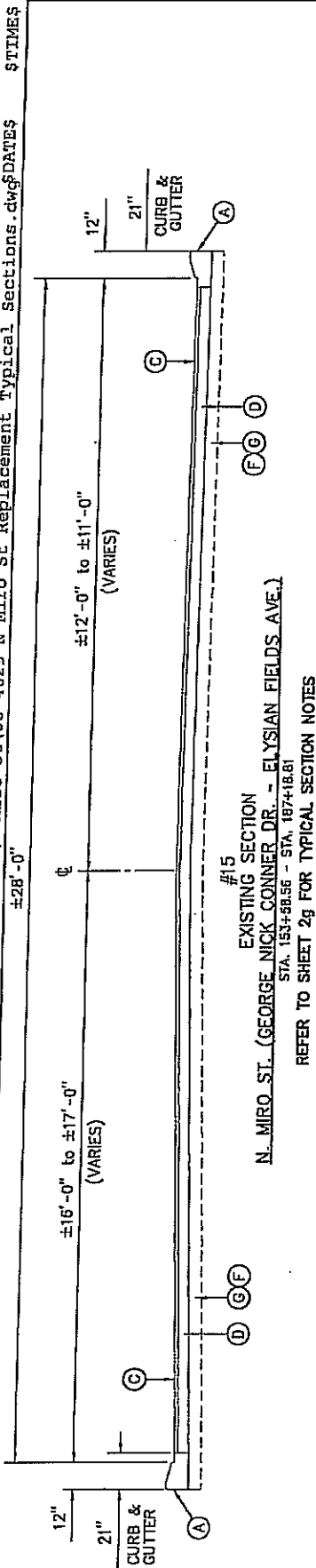
BORE#: B34-5  
(5500' W OF ELYSIAN FIELDS AVE.)

- | LEGEND - TYPICAL SECTION |  |
|--------------------------|--|
| (A)                      | EXISTING CONCRETE CURB & GUTTER (MOUNTABLE)  |
| (B)                      | EXISTING CONCRETE CURB & GUTTER (BARRIER)  |
| (C)                      | EXISTING ASPHALTIC CONCRETE  |
| (D)                      | EXISTING PORTLAND CEMENT CONCRETE  |
| (E)                      | EXISTING SUBGRADE LAYER (BROWN/BROWNISH GRAY CLAY/SILTY SAND W/ GRAVEL)                          |
| (F)                      | EXISTING SUBGRADE LAYER (GRAY CLAY W/ SHELL FRAGMENTS & BRICK)                                   |
| (G)                      | EXISTING SUBGRADE LAYER (GRAY/GRAY SILTY CLAY W/ GRAVEL/SHELL FRAGMENTS)                         |
| (H)                      | PROPOSED COLD PLANING ASPHALTIC CONCRETE (2" MIN)  |
| (I)                      | PROPOSED 4" BROKEN WHITE LINE PER N.O. DPW STD W/ REFLECTORIZED RAISED PAVEMENT MARKERS (7" MIN) |
| (J)                      | PROPOSED 4" SOLID WHITE LINE PER N.O. DPW STD  |
| (K)                      | PROPOSED 6" SOLID YELLOW LINE PER N.O. DPW STD   |
| (L)                      | PROPOSED CONCRETE PAVEMENT REPAIR PER N.O. DPW STD   |



 <b>CIVIL DESIGN &amp; CONSTRUCTION INC.</b>	<b>N. MIRO STREET</b>		NO.      DATE		REVISION DESCRIPTION		DESIGNED CHECKED NEW	NOJO	PARISH	ORLEANS	SHEET NUMBER					
												RETAILER CHECKED NOJO	CMR	FEDERAL PROJECT		
															DATE	FEB. 2009
TYPICAL SECTIONS AND DETAILS		BT						704-36-0043		21						

# FINAL PLANS



PROPOSED SECTION  
#16  
N. MIRO ST. (GEORGE NICK CONNER DR. - ELYSIAN FIELDS INTERSECTION)  
STA. 153+58.56 - STA. 157+79.00  
REFER TO SHEET 2g FOR TYPICAL SECTION NOTES

\* MATCH EXISTING CROSS SLOPE.  
ADJUST AS NECESSARY TO ENSURE  
POSITIVE DRAINAGE (1.5% MIN.)

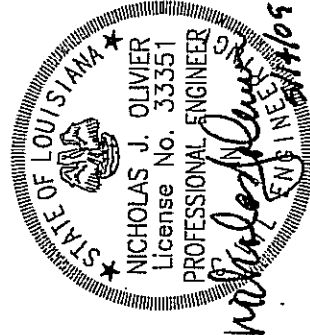
## LEGEND - TYPICAL SECTION

- (A) EXISTING CONCRETE CURB & GUTTER (MOUNTABLE)
- (B) EXISTING CONCRETE CURB & GUTTER (BARRIER)
- (C) EXISTING ASPHALTIC CONCRETE
- (D) EXISTING PORTLAND CEMENT CONCRETE
- (E) EXISTING SUBGRADE LAYER (BROWN/BROWNISH GRAY CLAY/SILTY SAND W/ GRAVEL)
- (F) EXISTING SUBGRADE LAYER (GRAY CLAY W/ SHELL FRAGMENTS & BRICK)
- (G) EXISTING SUBGRADE LAYER (GRAY/GRAY SILTY CLAY W/ GRAVEL/SHELL FRAGMENTS)
- (H) PROPOSED COLD PLANING ASPHALTIC CONCRETE (2" AVG. DEPTH)
- (I) PROPOSED 4" BROKEN WHITE LINE PER N.O. DPW STD 10 (732-03-02000) W/ REFLECTORIZED RAISED PAVEMENT MARKERS (731-02-00100)
- (J) PROPOSED 4" SOLID WHITE LINE PER N.O. DPW STD 10 (732-02-02000)
- (K) PROPOSED 6" SOLID YELLOW LINE PER N.O. DPW STD 10 (732-01-01020)
- (L) PROPOSED CONCRETE PAVEMENT REPAIR PER N.O. DPW STD. 2, 4-5
- (M) PROPOSED 2" AVG. DEPTH SUPERPAVE ASPHALTIC CONCRETE WEARING COURSE, LEVEL 1

BORE # B34-2 (1200' W OF ELYSIAN FIELDS AVE.)		
LAYER TYPE	LAYER THICKNESS (INCHES)	
AC	2.25	
PCC	8.50	
SUBGRADE		

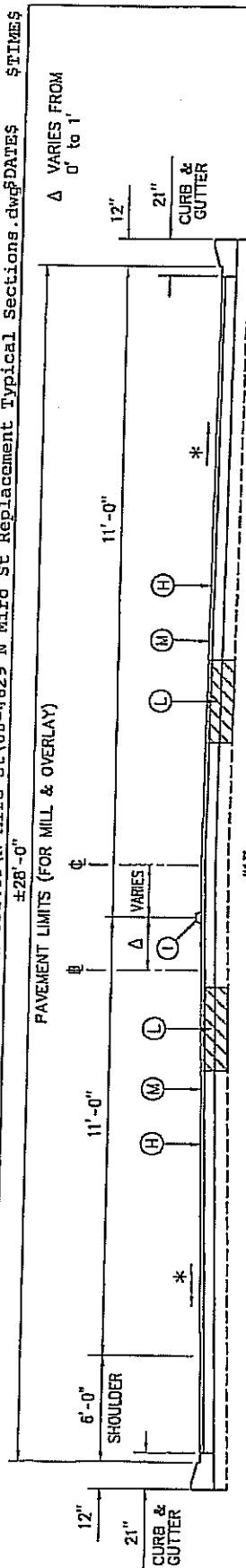
BORE # B34-1 (500' W OF ELYSIAN FIELDS AVE.)		
LAYER TYPE	LAYER THICKNESS (INCHES)	
AC	2.00	
AC	0.75	
AC	1.00	
PCC	7.75	
SUBGRADE		

BORE # B34-3 (2500' W OF ELYSIAN FIELDS AVE.)		
LAYER TYPE	LAYER THICKNESS (INCHES)	
AC	3.25	
PCC	8.50	
SUBGRADE		

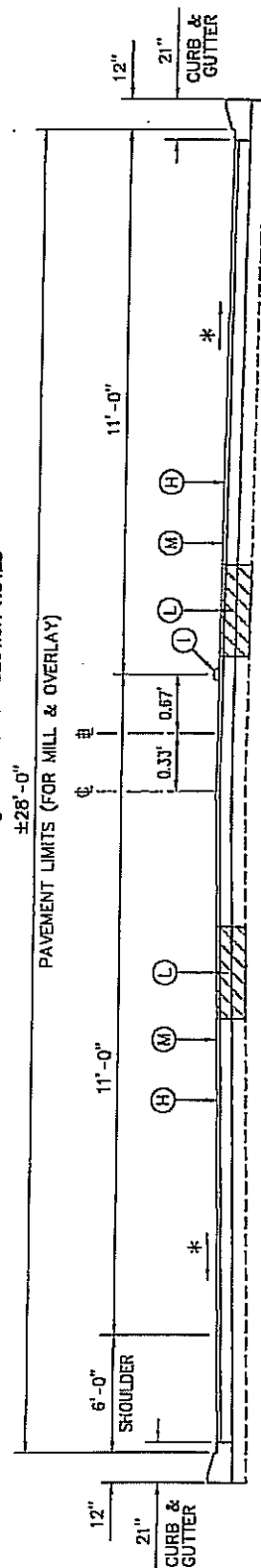


SHEET NUMBER		2m	
PROJECT		ORLEANS	
FEDERAL PROJECT		ER-ERP1(059)	
STATE PROJECT		704-36-0043	
DESIGNED	NO	DATE	FEB. 2003
CHECKED	NO	DATE	FEB. 2003
RETAINED	NO	DATE	FEB. 2003
BY		7 OF 8	
REVISION DESCRIPTION			
N. MIRO STREET			
TYPICAL SECTIONS AND DETAILS			
CIVIL DESIGN & CONSTRUCTION INC.			

# FINAL PLANS



#17  
PROPOSED SECTION  
N. MIRO ST. (CROWN/BASELINE INTERSECTION - ELYSIAN FIELDS AVE.)  
STA. 157+79.00 - STA. 187+18.81  
REFER TO SHEET 2g FOR TYPICAL SECTION NOTES



#18  
PROPOSED SECTION  
N. MIRO ST. (ST. BERNARD AVE. - GEORGE NICK CONNER DR.)  
STA. 10+41.50 - STA. 12+00.00  
REFER TO SHEET 2g FOR TYPICAL SECTION NOTES

\* MATCH EXISTING CROSS SLOPE.  
ADJUST AS NECESSARY TO ENSURE  
POSITIVE DRAINAGE (1.5% MIN.)

Ø SEE PLAN SHEET 38

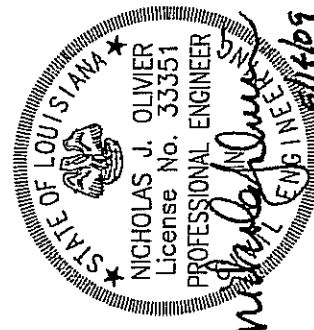
## LEGEND - TYPICAL SECTION

- A EXISTING CONCRETE CURB & GUTTER (MOUNTABLE)
- B EXISTING CONCRETE CURB & GUTTER (BARRIER)
- C EXISTING ASPHALTIC CONCRETE
- D EXISTING PORTLAND CEMENT CONCRETE
- E EXISTING SUBGRADE LAYER (BROWN/BROWNISH GRAY CLAY/SILTY SAND W/GRAVEL)
- F EXISTING SUBGRADE LAYER (GRAY CLAY W/SHELL FRAGMENTS & BRICK)
- G EXISTING SUBGRADE LAYER (GRAY/GRAY SILTY CLAY W/GRAVEL/SHELL FRAGMENTS)
- H PROPOSED COLD PLANING ASPHALTIC CONCRETE (2" AVG. DEPTH)
- I PROPOSED 4" BROKEN WHITE LINE PER N.O. DPW STD 10 (732-03-02000) W/ REFLECTORIZED RAISED PAVEMENT MARKERS (731-02-00100)
- J PROPOSED 4" SOLID WHITE LINE PER N.O. DPW STD 10 (732-02-02000)
- K PROPOSED 6" SOLID YELLOW LINE PER N.O. DPW STD 10 (732-01-01020)
- L PROPOSED CONCRETE PAVEMENT REPAIR PER N.O. DPW STD. 2, 4-5
- M PROPOSED 2" AVG. DEPTH SUPERPAVE ASPHALTIC CONCRETE WEARING COURSE, LEVEL 1

BORE# B34-2 (1200' W OF ELYSIAN FIELDS AVE.)		
LAYER TYPE	LAYER THICKNESS (INCHES)	
AC	2.75	
PCG	8.50	
SUBGRADE	-	

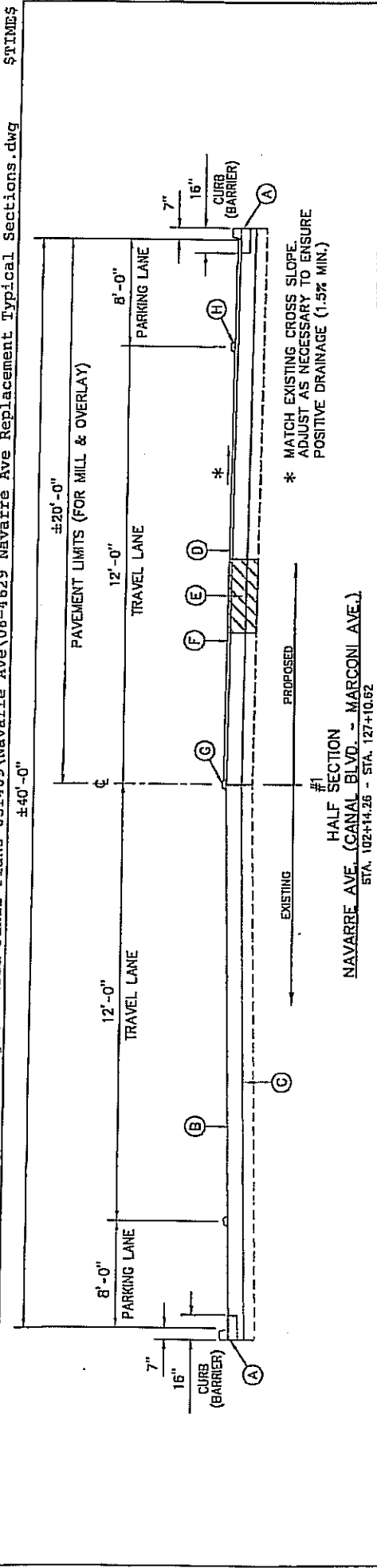
BORE# B34-1 (500' W OF ELYSIAN FIELDS AVE.)		
LAYER TYPE	LAYER THICKNESS (INCHES)	
AC	2.00	
AC	0.75	
AC	1.00	
PCG	7.75	
SUBGRADE	-	

BORE# B34-3 (2500' W OF ELYSIAN FIELDS AVE.)		
LAYER TYPE	LAYER THICKNESS (INCHES)	
AC	3.25	
PCG	8.50	
SUBGRADE	-	



CIVIL DESIGN & CONSTRUCTION INC.		N. MIRO STREET		TYPICAL SECTIONS AND DETAILS	
DESIGNED	NJO	CHECKED	KEW	DATE	FEB. 2003
DETAILED	NJO	CHIEF	CHIEF	DATE	FEB. 2003
PROJECT		PROJECT		PROJECT	
ORLEANS		ORLEANS		ORLEANS	
ER-ERP1(059)		ER-ERP1(059)		ER-ERP1(059)	
704-36-0043		704-36-0043		704-36-0043	
SHEET		SHEET		SHEET	
2n		2n		2n	

FINAL PLANS



NOTES-TYPICAL SECTIONS:

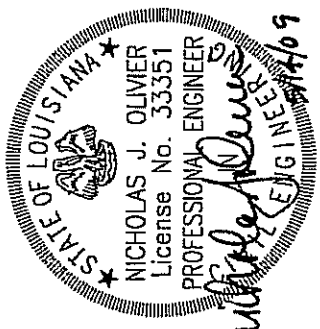
1. USE MIN. SLOPE OF 1.5% IN AREAS OF PAVEMENT FAILURES. MAINTAIN EXISTING GRADE OF OUTER EDGE OF PAVEMENT TO ESTABLISH SLOPE. LEVELING MAY BE REQUIRED TO ACHIEVE SLOPE (502-01-00100/502-01-00200).
2. REFER TO PLAN SHEETS FOR LOCATION AND DIMENSIONS OF ASPHALT PATCHING AND CONCRETE CURB REPAIR.
3. CONTRACTOR SHALL PATCH ROADWAY PRIOR TO MILLING & OVERLAY WITH FULL DEPTH ASPHALT PATCH AT LOCATIONS DETERMINED IN THE FIELD AND/OR AS DIRECTED BY THE PROJECT ENGINEER. ASPHALT PATCHING SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE ASPHALT PATCHING DETAIL PROVIDED ON THIS SHEET.
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. REFER TO TITLE SHEET FOR APPLICABLE STANDARD PLANS AND DETAILS USED FOR THIS PROJECT.
6. CONTRACTOR HAS THE OPTION TO USE FULL DEPTH ASPHALT AT NO ADDITIONAL COST.

LEGEND - TYPICAL SECTION

- (A) EXISTING CONCRETE CONCRETE CURB & GUTTER (BARRIER)
- (B) EXISTING ASPHALTIC CONCRETE
- (C) EXISTING SUBGRADE LAYER
- (D) PROPOSED COLD PLACING ASPHALTIC CONCRETE (2" AVG. DEPTH)
- (E) PROPOSED ASPHALT PATCHING
- (F) PROPOSED 2" AVG. DEPTH SUPERPAVE ASPHALTIC CONCRETE WEARING COURSE, LEVEL 1
- (G) PROPOSED 4" BROKEN YELLOW LINE PER N.O. DPW STD 10 (732-03-02000) W/ REFLECTORIZED RAISED PAVEMENT MARKERS (731-02-00100)
- (H) PROPOSED 4" SOLID WHITE LINE PER N.O. DPW STD 10 (732-02-02000)

BORE#: B36-1 (EB - 700' E OF CANAL BLVD.)		
LAYER TYPE	LAYER THICKNESS (INCHES)	
AC	2.50	
AC	3.00	
AC	4.25	
AC	2.25	
AC	4.00	
SUBGRADE	GRAYISH TAN CLAY W/SAND	

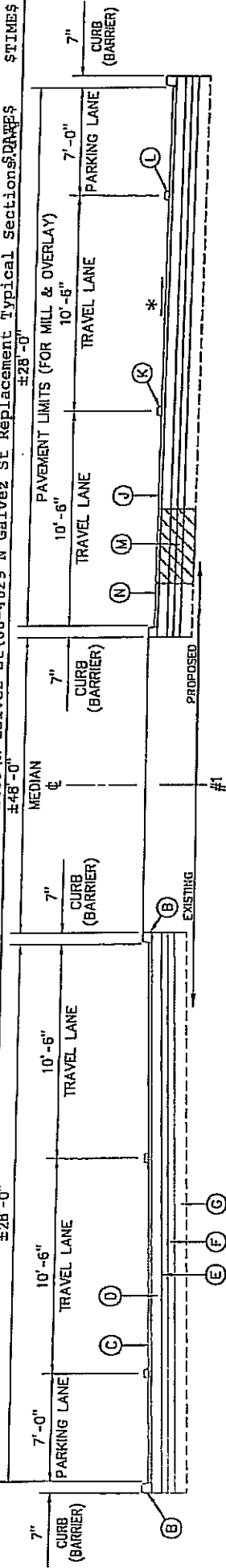
BORE#: B36-2 (EB - 2000' E OF CANAL BLVD.)		
LAYER TYPE	LAYER THICKNESS (INCHES)	
AC	0.75	
AC	0.75	
AC	1.00	
AC	3.75	
AC	2.25	
SUBGRADE	SHELL FRAG. W/GRAY SAND GRAY CLAY	



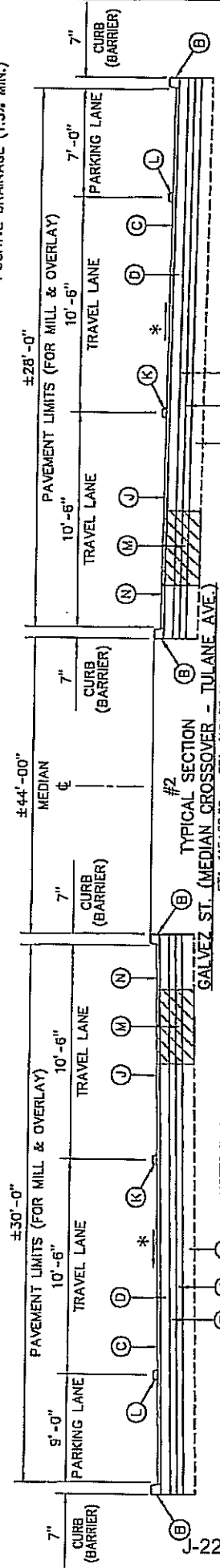
CIVIL DESIGN & CONSTRUCTION INC.		NAVARRA AVE.		TYPICAL SECTIONS AND DETAILS	
DESIGNED BY		CHECKED BY		DESIGNED BY	
DATE		DATE		DATE	
NO.		DATE		NO.	
REVISION DESCRIPTION		DATE		REVISION DESCRIPTION	
FEDERAL PROJECT		FEDERAL PROJECT		FEDERAL PROJECT	
PARISH		PARISH		PARISH	
ORLEANS		ORLEANS		ORLEANS	
ER-ERP1(084)		ER-ERP1(084)		ER-ERP1(084)	
STATE PROJECT		STATE PROJECT		STATE PROJECT	
704-36-0074		704-36-0074		704-36-0074	
SHEET		SHEET		SHEET	
1 OF 1		1 OF 1		1 OF 1	
20		20		20	

# FINAL PLANS

Q:\PROJECTS\08-4629 New Orleans Roads Gp 11\Drawings\Revised Final Plans 051409\N Galvez St\08-4629 N Galvez St Replacement Typical Sections.dwg \$TIMES \$DATE\$



HALF SECTION  
#1  
GALVEZ ST. (POYDRAS ST. - MEDIAN CROSSOVER)  
STA. 102+87.71 - STA. 115+02.00



HALF SECTION  
#2  
GALVEZ ST. (MEDIAN CROSSOVER - TULANE AVE.)  
STA. 115+02.00 - STA. 116+75.00

## NOTES-TYPICAL SECTIONS:

- 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 (502-01-00100/502-01-00200).
- REFER TO PLAN SHEETS FOR LOCATION AND DIMENSIONS OF CONCRETE REPAIR AND CONCRETE CURB REPAIR.
- CONTRACTOR SHALL PATCH ROADWAY PRIOR TO MILLING & OVERLAY WITH FULL DEPTH COMPOSITE CONCRETE PATCH AT LOCATIONS DETERMINED IN THE FIELD AND/OR AS DIRECTED BY THE PROJECT ENGINEER. COMPOSITE CONCRETE REPAIR SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE COMPOSITE CONCRETE REPAIR DETAIL PROVIDED ON THIS SHEET.
- 100% OF RAP MATERIAL TO BE RETAINED BY THE CONTRACTOR. THE DEPARTMENT DOES NOT GUARANTEE IN ANY WAY THE QUALITY OF THE RAP MATERIAL.
- REFER TO TITLE SHEET FOR APPLICABLE STANDARD PLANS AND DETAILS USED FOR THIS PROJECT.
- BARRIER CURB SHOWN ON TYPICAL SECTION SHEETS VARIES IN MATERIAL TYPE BETWEEN GRANITE AND PCCP ALONG THE ENTIRE LENGTH OF THE PROJECT. CURB REPAIR TYPE WILL VARY BETWEEN RESET STONE CURB AND RECONSTRUCTED CURB (8" BARRIER/(MOUNTABLE) PER SHEET 3mm.

## LEGEND - TYPICAL SECTION

- (A) EXISTING INTEGRAL CONCRETE CURB (MOUNTABLE)
- (B) EXISTING INTEGRAL CONCRETE CURB (BARRIER)
- (C) EXISTING ASPHALTIC CONCRETE
- (D) EXISTING BRICK
- (E) EXISTING MORTAR
- (F) EXISTING PORTLAND CEMENT CONCRETE
- (G) EXISTING SUBGRADE LAYER (DARK GRAY CLAYEY SAND W/ GRAVEL)
- (H) EXISTING SUBGRADE LAYER (DARK GRAY SANDY CLAY W/ GRAVEL)
- (I) EXISTING SUBGRADE LAYER (GRAY/GREEN SILTY CLAY W/ GRAVEL)
- (J) PROPOSED COLD PLANING ASPHALTIC CONCRETE (2" AVG. DEPTH)
- (K) PROPOSED 4" BROKEN WHITE LINE PER N.O. DPW STD 10 (732-03-02000) W/ REFLECTORIZED RAISED PAVEMENT MARKERS (731-02-00100)
- (L) PROPOSED 4" SOLID WHITE LINE PER N.O. DPW STD 10 (732-02-02000)
- (M) PROPOSED CONCRETE PAVEMENT REPAIR PER COMPOSITE CONC. REPAIR DETAIL
- (N) PROPOSED 2" AVG. DEPTH SUPERPAVE ASPHALTIC CONCRETE WEARING COURSE, LEVEL 1

BORE#: B35-7  
(SB LANE - 4300' W OF ORLEANS AVE.)

LAYER TYPE	LAYER THICKNESS (INCHES)
AC	2.50
BRICK	3.50
MORTAR	0.75
PCC	7.75
SUBGRADE	DARK GRAY CLAYEY SAND W/ GRAVEL

BORE#: B35-6  
(SB LANE - 4000' W OF ORLEANS AVE.)

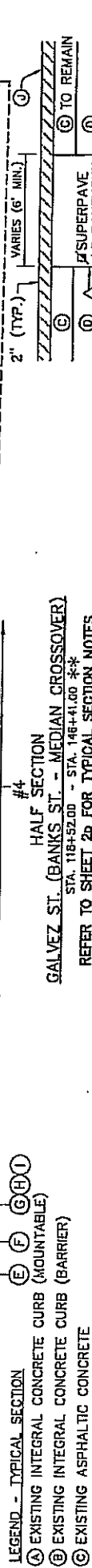
LAYER TYPE	LAYER THICKNESS (INCHES)
AC	3.25
BRICK	3.50
MORTAR	0.75
PCC	9.75
SUBGRADE	DARK GRAY SANDY CLAY W/ GRAVEL

- (X) CUT, REMOVE EXISTING PAVEMENT AND REPLACE W/ NEW HOT MIX A.C. (PAY ITEM 510-01-00200)
- (Y) CRUSHED STONE BASE COURSE (TO BOTTOM OF ADJACENT STRUCTURE, OR 8" MIN.) (NO DIRECT PAY)
- (Z) COAT EDGES OF EXISTING PAVEMENT W/ APPROVED TACK COAT
- (AA) TOP SHOULD MATCH ADJACENT EXISTING TOP OF PCCP
- (AB) THICKNESS OF NEW PCCP IS TO BE THE GREATER OF 7" OR THE THICKNESS OF THE ADJACENT EXISTING PCCP.
- (AC) TO BE PAID USING "CONCRETE PAVEMENT REPAIR" ITEMS

## COMPOSITE CONCRETE REPAIR DETAIL

N.T.S.

<p>CIVIL DESIGN &amp; CONSTRUCTION, INC.</p>		<p>STATE OF LOUISIANA NICHOLAS J. OLIVER License No. 33351 PROFESSIONAL ENGINEER</p>	
<p>GALVEZ STREET</p>		<p>ORLEANS</p>	
<p>TYPICAL SECTIONS AND DETAILS</p>		<p>ER-ERP1(117)</p>	
<p>DATE</p>		<p>704-36-0084</p>	
<p>NO.</p>		<p>1 OF 4</p>	
<p>REASON DESCRIPTION</p>		<p>BSR CHECKED NEW</p>	
<p>DATE</p>		<p>CAR CHECKED NJO</p>	
<p>DATE</p>		<p>FEB. 2009</p>	
<p>DATE</p>		<p>1 OF 4</p>	
<p>DATE</p>		<p>1 OF 4</p>	



**EXISTING BRICK**

**AC PAVEMENT**

**COMPOSITE CONCRETE REPAIR DETAIL**  
N.T.S.

① CUT, REMOVE EXISTING PAVEMENT AND REPLACE W/ NEW HOT MIX A.C. (PAY ITEM 510-01-00200)

② CRUSHED STONE BASE COURSE (TO BOTTOM OF ADJACENT STRUCTURE, OR 8" MIN.)

③ COAT EDGES OF EXISTING PAVEMENT W/ APPROVED TACK COAT

④ TOP SHOULD MATCH ADJACENT EXISTING TOP OF PCCP THICKNESS OF NEW PCCP IS TO BE THE GREATER OF 7" OR THE THICKNESS OF THE ADJACENT EXISTING PCCP. (TO BE PAID USING "CONCRETE PAYMENT REPAIR" ITEMS)

**BORE# B35-9**  
(NB LANE - 2100' W OF ORLEANS AVE.)

LAYER TYPE	LAYER THICKNESS (INCHES)
AC	1.75
BRICK	1.00
MORTAR	3.00
PCC	7.25
SUBGRADE	GRAY CLAYEY SAND W/ GRAVEL & SHELL FRAGMENTS

**BORE# B35-10**  
(NB LANE - 1650' W OF ORLEANS AVE.)

LAYER TYPE	LAYER THICKNESS (INCHES)
AC	4.50
BRICK	3.50
MORTAR	0.75
PCC	7.50
SUBGRADE	GREEN TO GRAY CLAYEY SILT W/ GRAVEL

**BORE# B35-12**  
(SB LANE - 200' W OF ORLEANS AVE.)

LAYER TYPE	LAYER THICKNESS (INCHES)
AC	10.50
PCC	10.25
SUBGRADE	GIN TO GRAY CLAYEY SILT W/ GRAVEL

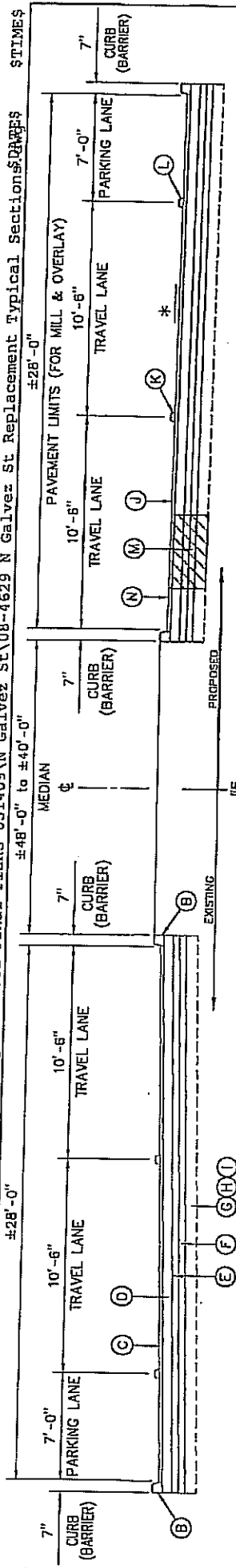
**BORE# B35-11**  
(NB LANE - 1400' W OF ORLEANS AVE.)

LAYER TYPE	LAYER THICKNESS (INCHES)
AC	5.75
BRICK	3.50
MORTAR	0.50
PCC	8.50
SUBGRADE	GRAY CLAYEY SAND W/ GRAVEL & SHELL FRAGMENTS

N.T.S.

STATE OF LOUISIANA ★  
★  
NICHOLAS J. OLIVIER  
License No. 33351  
PROFESSIONAL ENGINEER  
CIVIL  
NEW ORLEANS, LA 70119  
TEMS)

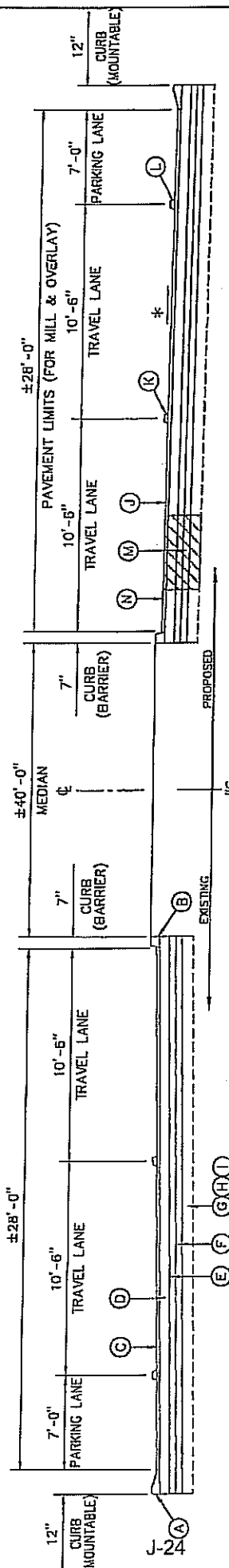
		<p style="font-size: 1.2em; margin: 0;">GALVEZ STREET</p>				<p style="font-size: 1.2em; margin: 0;">TYPICAL SECTIONS AND DETAILS</p>									
<p style="margin: 0;">SHEET NUMBER</p>		<p style="margin: 0;">29</p>		<p style="margin: 0;">PARISH</p>		<p style="margin: 0;">ORLEANS</p>		<p style="margin: 0;">DESIGNED BY</p>		<p style="margin: 0;">BSR</p>		<p style="margin: 0;">CHECKED BY</p>		<p style="margin: 0;">KRW</p>	
<p style="margin: 0;">FEDERAL PROJECT</p>		<p style="margin: 0;">ER-ERP1(117)</p>		<p style="margin: 0;">DATE</p>		<p style="margin: 0;">FEB. 2009</p>		<p style="margin: 0;">BY</p>		<p style="margin: 0;">2 OF 4</p>		<p style="margin: 0;">REVISION DESCRIPTION</p>		<p style="margin: 0;">BY</p>	



GALVEZ ST. (MEDIAN CROSSOVER - LAFITTE AVE.)

REFER TO SHEET Zp FOR TYPICAL SECTION NOTES

\* MATCH EXISTING CROSS SLOPE.  
ADJUST AS NECESSARY TO ENSURE  
POSITIVE DRAINAGE (1.5% MIN.)



HALF SECTION

GALVEZ ST. (LAFITTE AVE. - MEDIAN TRANSITION)

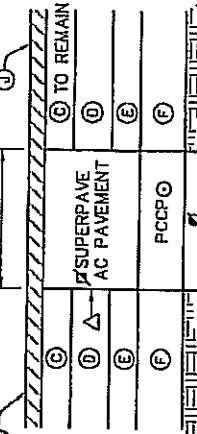
REFER TO SHEET 2p FOR TYPICAL SECTION NOTES

BORE#: B35-12 (SB LANE - 200' W OF ORLEANS AVE.)	
LAYER TYPE	LAYER THICKNESS (INCHES)
AC	10.50
PCC	10.25
SUBGRADE	CON TO EXIST PAVEMENT SURFACE

**LEGEND - TYPICAL SECTION**

- |          |   |
|----------|---|
| <b>A</b> | EXISTING INTEGRAL CONCRETE CURB (MOUNTABLE)               |
| <b>B</b> | EXISTING INTEGRAL CONCRETE CURB (BARRIER)                 |
| <b>C</b> | EXISTING ASPHALTIC CONCRETE                               |
| <b>D</b> | EXISTING BRICK  |
| <b>E</b> | EXISTING MORTAR   |
| <b>F</b> | EXISTING PORTLAND CEMENT CONCRETE                         |
| <b>G</b> | EXISTING SUBGRADE LAYER (DARK GRAY CLAYEY SAND W/ GRAVEL) |
| <b>H</b> | EXISTING SUBGRADE LAYER (DARK GRAY SANDY CLAY W/ GRAVEL)  |
| <b>I</b> | EXISTING SUBGRADE LAYER (GRAY/GREEN SILTY CLAY W/ GRAVEL) |

VARIES (6' MIN.)

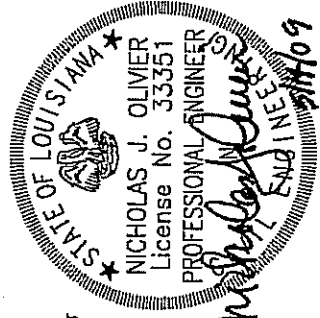




### COMPOSITE CONCRETE REPAIR DETAIL

## N.T.S.

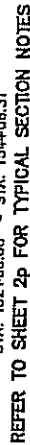
- ② PROPOSED COLD PLANING ASPHALTIC CONCRETE (2" AVG. DEPTH)
- ③ PROPOSED 4" BROKEN WHITE LINE PER N.O. DPW STD 10 (732-03-020000) W/ REFLECTORIZED RAISED PAVEMENT MARKERS (731-02-00100)
- ④ PROPOSED 4" SOLID WHITE LINE PER N.O. DPW STD 10 (732-02-020000)
- ⑤ PROPOSED CONCRETE PAVEMENT REPAIR PER COMPOSITE CONC. REPAIR DIST.
- ⑥ PROPOSED 2" AVG. DEPTH SUPERPAVE ASPHALTIC CONCRETE WEARING COURSE

- CUT, REMOVE EXISTING PAVEMENT AND REPLACE W/ NEW HOT MIX A.C. (PAY ITEM 510-01-00200) OF CRUSHED STONE BASE COURSE (TO BOTTOM OF ADJACENT STRUCTURE, OR 8" MIN.(NO DIRECT PAY) DO COAT EDGES OF EXISTING PAVEMENT W/ APPROVED TACK COAT) TOP SHOULD MATCH ADJACENT EXISTING TOP OF PCOP. THICKNESS OF NEW PCOP IS TO BE THE GREATER OF 7" OR THE THICKNESS OF THE ADJACENT EXISTING PCOP. (TO BE PAID USING "CONCRETE PAVEMENT REPAIR, ITEMS)
































 <b>CIVIL DESIGN &amp; CONSTRUCTION INC.</b>		<b>GALVEZ STREET</b>				<b>TYPICAL SECTIONS AND DETAILS</b>		<b>2r</b>		<b>SHEET NUMBER</b>
								<b>704-36-0084</b>		<b>SAVE PROJECT</b>
<b>DATE</b>		<b>DATE</b>		<b>DATE</b>		<b>DATE</b>		<b>704-36-0084</b>		<b>SAVE PROJECT</b>
								<b>704-36-0084</b>		<b>SAVE PROJECT</b>
<b>DATE</b>		<b>DATE</b>		<b>DATE</b>		<b>DATE</b>		<b>704-36-0084</b>		<b>SAVE PROJECT</b>
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<b>DATE</b>		<b>DATE</b>		<b>DATE</b>		<b>DATE</b>		<b>704-36-0084</b>		<b>SAVE PROJECT</b>
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<b>DATE</b>		<b>DATE</b>		<b>DATE</b>		<b>DATE</b>		<b>704-36-0084</b>		<b>SAVE PROJECT</b>
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<b>DATE</b>		<b>DATE</b>		<b>DATE</b>		<b>DATE</b>		<b>704-36-0084</b>		<b>SAVE PROJECT</b>
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<b>DATE</b>		<b>DATE</b>		<b>DATE</b>		<b>DATE</b>		<b>704-36-0084</b>		<b>SAVE PROJECT</b>
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<b>DATE</b>		<b>DATE</b>		<b>DATE</b>		<b>DATE</b>		<b>704-36-0084</b>		<b>SAVE PROJECT</b>
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<b>DATE</b>		<b>DATE</b>		<b>DATE</b>		<b>DATE</b>		<b>704-36-0084</b>		<b>SAVE PROJECT</b>
								<b>704-36-0084</b>		<b>SAVE PROJECT</b>
<b>DATE</b>		<b>DATE</b>		<b>DATE</b>		<b>DATE</b>		<b>704-36-0084</b>		<b>SAVE PROJECT</b>
								<b>704-36-0084</b>		<b>SAVE PROJECT</b>
<b>DATE</b>		<b>DATE</b>		<b>DATE</b>		<b>DATE</b>		<b>704-36-0084</b>		<b>SAVE PROJECT</b>
								<b>704-36-0084</b>		<b>SAVE PROJECT</b>
<b>DATE</b>		<b>DATE</b>		<b>DATE</b>		<b>DATE</b>		<b>704-36-0084</b>		





2" (TYP.)

																																																																																																																							
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## COMPOSITE CONCRETE REPAIR DETAIL

## 5.1.4

BORE#: B35-12 (SB LANE - 200' W OF ORLEANS AVE.)	
LAYER TYPE	LAYER THICKNESS (INCHES)
AC	10.50
FC	10.25
FC	10.25
FC	10.25

### LEGEND - TYPICAL SECTION

- |     |  |
|-----|--|
| (A) | EXISTING INTEGRAL CONCRETE CURB (MOUNTABLE)  |
| (B) | EXISTING INTEGRAL CONCRETE CURB (BARRIER)  |
| (C) | EXISTING ASPHALTIC CONCRETE  |
| (D) | EXISTING BRICK   |
| (E) | EXISTING MORTAR  |
| (F) | EXISTING PORTLAND CEMENT CONCRETE  |
| (G) | EXISTING SUBGRADE LAYER (DARK GRAY CLAYEY SAND W/GRAVEL)                                     |
| (H) | EXISTING SUBGRADE LAYER (DARK GRAY SANDY CLAY W/GRAVEL)                                      |
| (I) | EXISTING SUBGRADE LAYER (GRAY/GREEN SILTY CLAY W/GRAVEL)                                     |
| (J) | PROPOSED COLD PLANING ASPHALTIC CONCRETE (1" MIN)  |
| (K) | PROPOSED 4" BROKEN WHITE LINE PER N.O. DPW W/ REFLECTORIZED RAISED PAVEMENT MARKERS (1" MIN) |
| (L) | PROPOSED 4" SOLID WHITE LINE PER N.O. DPW 5" MIN   |
| (M) | PROPOSED CONCRETE PAVEMENT REPAIR PER COMM. SPEC.  |
| (N) | PROPOSED 2" AVG. DEPTH SUPERPAVE ASPHALTIC CONCRETE  |

[illegible]



6/19/2009

## Summary Of Estimated Quantities

Page: 3a

Proposal ID: 704-36-0042 State Project Number: 704-36-0042

Federal Project Number: ER-ERP1(058)

Proposal Description: Permanent Repair to Federal Aid Eligible Roads

Item No.	Description	Supplemental Description	Alternate Set Member	Quantity	Units
204-06-00100	Temporary Silt Fencing	General Items			
402-01-00100	Traffic Maintenance Aggregate (Vehicular Measurement)			11,187,000	LNFT
502-01-00100	Superpave Asphaltic Concrete			1,500,000	CUYD
502-01-00200	Superpave Asphaltic Concrete, Drives, Turnouts and Miscellaneous			22,986,800	TON
509-01-00100	Cold Planing Asphaltic Pavement			2,536,800	TON
510-01-00100	Pavement Patching (6" Minimum Thickness)			163,231,000	SQYD
510-01-00200	Pavement Patching (12" Minimum Thickness)			8,809,000	SQYD
602-02-00100	Cleaning and Resealing Existing Longitudinal and Transverse Pavement Joints			4,704,000	SQYD
701-03-01000	Storm Drain Pipe (15" RCP/PP)			26,308,000	LNFT
701-03-01020	Storm Drain Pipe (18" RCP/PP)			276,000	LNFT
713-01-00100	Temporary Signs and Baricades			147,000	LNFT
713-02-00100	Temporary Pavement Markings (4" Width)			1,000	LUMP
713-02-00300	Temporary Pavement Markings (8" Width)			39,050,000	LNFT
713-02-00400	Temporary Pavement Markings (12" Width)			335,000	LNFT
				3,655,000	LNFT

Notes:



6/19/2009

## Summary Of Estimated Quantities

Page: 3b

Proposal ID: 704-36-0042 State Project Number: 704-36-0042  
Federal Project Number: ER-ERP1(058)

Proposal Description: Permanent Repair to Federal Aid Eligible Roads

Item No.	Description	Supplemental Description	Alternate Set Member	Quantity	Units
717-01-00100	Seeding			350.000	LB
718-01-00100	Fertilizer			5,000.000	LB
723-02-00100	Granular Material (Vehicular Measurement)			1,500.000	CUYD
727-01-00100	Mobilization			1.000	LUMP
729-01-00100	Sign (Type A)			36.200	SQFT
729-21-00100	U-Channel Post			4.000	EACH
731-02-00100	Reflectized Raised Pavement Markers			1,042.000	EACH
732-01-01020	Plastic Pavement Striping (6" Width) (Thermoplastic 90 mil)			29,652.000	LNFT
732-01-01040	Plastic Pavement Striping (8" Width) (Thermoplastic 90 mil)			335.000	LNFT
732-01-01060	Plastic Pavement Striping (12" Width) (Thermoplastic 90 mil)			3,655.000	LNFT
732-02-02000	Plastic Pavement Striping (Solid Line) (4" Width) (Thermoplastic 90 mil)			5.343	MILE
732-03-02000	Plastic Pavement Striping (Broken Line) (4" Width) (Thermoplastic 90 mil)			7.396	MILE
732-04-01080	Plastic Pavement Legends and Symbols (Arrow - Left Turn)			2.000	EACH

Notes:



6/19/2009

## Summary Of Estimated Quantities

Page: 3b1

Proposal ID: 704-36-0042 State Project Number: 704-36-0042  
Federal Project Number: ER-ERP1(058)  
Proposal Description: Permanent Repair to Federal Aid Eligible Roads

Item No.	Description	Supplemental Description	Alternate Set Member	Quantity	Units
732-04-01100	Plastic Pavement Legends and Symbols (Arrow - Right Turn)			6.000	EACH
732-04-15020	Plastic Pavement Legends and Symbols (ONLY)			5.000	EACH
732-04-19020	Plastic Pavement Legends and Symbols (SCHOOL ZONE)			9.000	EACH
736-09-00100	Loop Detector			164.000	LNFT
740-01-00100	Construction Layout			1.000	LUMP
NS-SRP-00001	ADA Ramps (Type A)			213.000	EACH
NS-SRP-00002	ADA Ramps (Type B)			208.000	EACH
NS-SRP-00004	Adjust (Manhole)			32.000	EACH
NS-SRP-00005	Adjust Catch Basin (Type A)			37.000	EACH
NS-SRP-00007	Adjust Drop Inlet			1.000	EACH
NS-SRP-00012	Concrete Pavement Repair (18.0 sq. yd. and Under)			1,204.800	SQYD
NS-SRP-00013	Concrete Pavement Repair (18.1 sq. yd. to 48.0 sq. yd.)			3,333.300	SQYD
NS-SRP-00014	Concrete Pavement Repair (48.1 sq. yd. and Over)			14,108.400	SQYD
NS-SRP-00016	Doweled Barrier			2,595.000	LNFT

Notes:



6/19/2009

## Summary Of Estimated Quantities

Page: 3b2

Proposal ID: 704-36-0042

State Project Number: 704-36-0042

Federal Project Number: ER-ERP1(058)

Proposal Description: Permanent Repair to Federal Aid Eligible Roads

Item No.	Description	Supplemental Description	Alternate Set Member	Quantity	Units
NS-SRP-00017	Doweled Mountable Curb			2,464.000	LNFT
NS-SRP-00018	Drilled and Doweled Barrier			1,101.000	LNFT
NS-SRP-00019	Drilled and Doweled Mountable Curb			611.000	LNFT
NS-SRP-00023	Pipe (Storm Drain) (21 inch)			12.000	LNFT
NS-SRP-00027	Pipe Lining (Cured In-Place) (21 inch)			282.000	LNFT
NS-SRP-00029	Project Signs (SRP)			8.000	EACH
NS-SRP-00030	Reconstruct Barrier Curb and Gutter			3,188.000	LNFT
NS-SRP-00031	Reconstruct Mountable Curb and Gutter			735.000	LNFT
NS-SRP-00032	Rehabilitate Catch Basins			16.000	EACH
NS-SRP-00035	Repair Bus Pads			1,356.100	SQYD
NS-SRP-00037	Replace Frame and Cover (Manhole Drain)			5.000	EACH
NS-SRP-00038	Replace Frame and Cover (Catch Basin)			27.000	EACH
NS-SRP-00040	Replace Frame and Cover (Sanitary Sewer)			1.000	EACH
NS-SRP-00041	Reset Curb (Stone)			1,719.000	LNFT
NS-SRP-00044	Tree Protection			1.000	LUMP
NS-SRP-00045	Tree Trimming			1.000	LUMP

Notes:



### Summary Of Estimated Quantities

Page: 3b3

Proposal ID: 704-36-0042 State Project Number: 704-36-0042

Federal Project Number: ER-ERP1(058)

Proposal Description: Permanent Repair to Federal Aid Eligible Roads

Item No.	Description	Supplemental Description	Alternate Set Member	Quantity	Units
NS-SRP-00046	Root Pruning and Trenching			1.000	LUMP

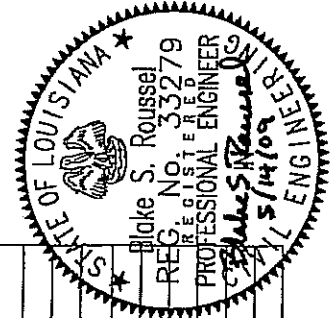
Notes:

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# FINAL PLANS

## ORLEANS 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 PLACING ASPHALTIC PAVEMENT (2" AVG. DEPTH)	
						SQ YD	TONS	SQ YD	TONS	SQ YD	TONS
101+00.00	103+40.00	CLAIBORNE - I-10 EXIT RAMP		240.00	31.00	825.57	90.9				
103+40.00	135+50.00	I-10 EXIT RAMP - N. DORGENOIS		3210.00	31.00	11058.67	1,216.2			827	
135+50.00	138+07.62	N. DORGENOIS - N. BROAD		257.62	34.25	980.39	107.8			11,057	
138+07.62	143+35.00	N. BROAD - N. WHITE	120.38	407.00	35.00	1592.78	174.1			980	
143+35.00	166+54.00	N. WHITE - MEDIAN CROSSOVER		2319.00	29.00	7472.33	922.0			1,583	
166+54.00	167+60.00	MEDIAN CROSSOVER - E. MOSS		136.00	34.00	513.78	56.5			7,472	
167+60.00	168+43.50	E. MOSS - BEGIN BRIDGE		53.50	31.50	187.25	20.6			514	
168+43.50	169+18.50	BEGIN BRIDGE - END BRIDGE	76.00	0.00	28.00	0.00	0.0			187	
169+18.50	170+43.00	END BRIDGE - JEFFERSON DAVIS PARKWAY		124.50	29.50	409.08	44.9			0	
170+43.00	171+09.00	JEFFERSON DAVIS PARKWAY		65.00	30.00	216.67	23.8			408	
171+09.00	173+59.00	JEFFERSON DAVIS PARKWAY - WILSON		250.00	34.00	944.44	103.9			217	
173+59.00	213+16.00	WILSON - N. OLYMPIA	154.08	3803.92	39.00	16493.65	1,813.2			844	
213+16.00	213+89.00	N. OLYMPIA - CITY PARK		73.00	39.50	320.39	35.2			15,484	
213+89.00	215+13.80	NORTHBOUND RIGHT TURN LANE @ CITY PARK		124.80	15.00	208.00	22.9			320	
215+13.80	216+28.96	NORTHBOUND TRAVEL LANE @ CITY PARK		239.86	24.00	639.63	70.4			208	
216+28.96	104+08.00	MEDIAN CROSSOVER		41.00	VARIES			84.11	9.3	840	
104+08.00	107+46.00	MEDIAN CROSSOVER		29.00	VARIES			60.70	6.7	84	
107+46.00	111+01.00	MEDIAN CROSSOVER		41.00	VARIES			80.89	8.9	51	
111+01.00	114+50.00	MEDIAN CROSSOVER		28.00	VARIES			59.00	6.4	81	
114+50.00	118+37.00	MEDIAN CROSSOVER		100.00	VARIES			188.00	20.7	58	
118+37.00	121+54.00	MEDIAN CROSSOVER		40.00	VARIES			77.22	8.5	188	
121+54.00	124+74.00	MEDIAN CROSSOVER		30.00	VARIES			61.67	6.8	77	
124+74.00	128+55.00	MEDIAN CROSSOVER		30.00	VARIES			60.44	6.8	62	
128+55.00	132+80.00	MEDIAN CROSSOVER		31.00	VARIES			63.22	7.0	60	
132+80.00	135+38.00	MEDIAN CROSSOVER		30.00	VARIES			59.89	6.6	53	
135+38.00	141+77.00	MEDIAN CROSSOVER		30.00	VARIES			73.67	8.1	60	
141+77.00	144+53.00	MEDIAN CROSSOVER		28.00	VARIES			99.67	11.0	74	
144+53.00	147+69.00	MEDIAN CROSSOVER		28.00	VARIES			98.89	10.9	100	
147+69.00	151+07.00	MEDIAN CROSSOVER		29.00	VARIES			101.11	11.1	99	
151+07.00	154+43.00	MEDIAN CROSSOVER		25.00	VARIES			93.44	10.3	101	
154+43.00	157+02.00	MEDIAN CROSSOVER		28.00	VARIES			104.11	11.5	93	
157+02.00	160+63.00	MEDIAN CROSSOVER		29.00	VARIES			102.87	11.3	104	
160+63.00	164+27.00	MEDIAN CROSSOVER		34.00	VARIES			116.78	12.7	103	
164+27.00							4,602.4		174.4	116	
NORTHBOUND SUBTOTALS											43,426



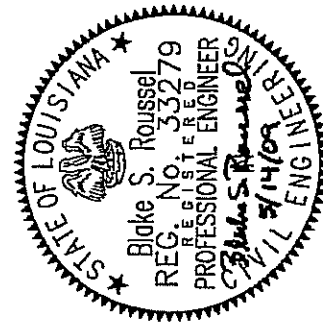
				<b>ORLEANS AVENUE</b>		<b>PAVING QUANTITY SUMMARY TABLE</b>	
SHEET NUMBER 3c		PARISH ORLEANS		BSR CHECKED JRS		ER-ERP1(058)	
DATE MAY 2009		BSR CHECKED JRS		STATE PROJECT 704-36-0042		SHEET 4 OF 40	





# FINAL PLANS

ORLEANS AVENUE (NORTHBOUND) PAVING QUANTITIES (CONT.)									
STATION	DESCRIPTION	EXCEPTION (FEET)	LENGTH (FEET)	AVG. WIDTH (FEET)	502-01-00100 SUPERPAVE ASPHALTIC CONCRETE (2" AVG.)		502-01-00200 SUPERPAVE AC DRIVES, & MISC (2" AVG.)		509-01-00100 COLD PLANING ASPHALTIC PAVEMENT (2" AVG. DEPTH)
					SQ YD	TONS	SQ YD	TONS	
168+03.00	TURNOUT @ E. MOSS		65.00	31.00			48.00	5.3	48
170+50.00	TURNOUT @ JEFFERSON DAVIS		56.00	31.00			63.56	7.0	64
171+47.00	TURNOUT @ JEFFERSON DAVIS		31.00	34.25			30.89	3.4	31
173+82.00	TURNOUT @ WILSON		53.00	36.00			44.33	4.9	44
176+75.00	TURNOUT @ TAFT		40.00	28.00			30.11	3.3	30
179+73.00	TURNOUT @ ROOSEVELT		48.00	34.00			32.78	3.6	33
182+53.00	TURNOUT @ OLGA		56.00	31.50			63.56	7.0	64
185+47.00	TURNOUT @ IDA		47.00	28.00			36.89	4.1	37
191+37.00	TURNOUT @ BUNGALOW		34.00	29.50			28.22	3.1	28
194+02.00	TURNOUT @ SOLOMON PL		54.00	30.00			37.44	4.1	37
197+53.00	TURNOUT @ N. SOLOMON		52.00	34.00			41.33	4.5	41
201+67.00	TURNOUT @ N. HENNESSEY		48.00	39.00			41.11	4.5	41
205+40.00	TURNOUT @ N. ALEXANDER		34.00	39.50			17.44	1.9	17
208+99.00	TURNOUT @ N. MURAT		48.00	15.00			43.44	4.8	43
212+71.00	TURNOUT @ N. OLYMPIA		41.00	24.00			32.56	3.6	33
NORTHBOUND SUBTOTALS						0.0		55.1	591
NORTHBOUND TOTALS						4,602.4		770.6	48,913

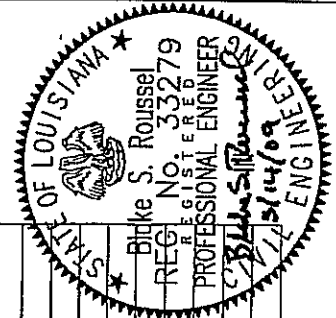


		<b>ORLEANS AVENUE</b>			
PAVING QUANTITY SUMMARY TABLE		ORLEANS		ORLEANS	
SHEET NUMBER 38		PARISH		PARISH	
DATE MAY 2009		FEDERAL PROJECT		FEDERAL PROJECT	
BY		STATE PROJECT		STATE PROJECT	
REVISION DESCRIPTION		ER-ERP1(056)		ER-ERP1(056)	
NO. DATE		MAY 2009		MAY 2009	
6 OF 40		704-36-0042		704-36-0042	

# FINAL PLANS

## ORLEANS AVENUE (SOUTHBOUND) PAVING QUANTITIES (CONT.)

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.)		502-01-00100 COLD PLANING ASPHALTIC PAVEMENT (2" AVG. DEPTH)	
						SQ YD	TONS	SQ YD	TONS	SQ YD	TONS
101+00.00	103+40.00	CLAIBORNE - I-10 EXIT RAMP		240.00	31.00	826.57	90.9				
103+40.00	135+50.00	I-10 EXIT RAMP - N. DORGENOIS		3210.00	31.00	11,055.67	1,215.2			827	
135+50.00	138+07.52	N. DORGENOIS - N. BROAD		257.52	34.00	973.23	107.1			11,057	
138+07.52	143+35.00	N. BROAD - N. WHITE	120.38	407.00	34.00	1,537.56	169.1			973	
143+35.00	168+54.00	N. WHITE - MEDIAN CROSSOVER		2318.00	29.00	7,472.33	822.0			1,538	
168+54.00	187+80.00	MEDIAN CROSSOVER - E. MOSS		138.00	34.00	513.78	56.5			7,472	
187+80.00	168+43.50	E. MOSS - BEGIN BRIDGE		53.50	31.50	187.25	20.5			514	
168+43.50	189+18.50	BEGIN BRIDGE - END BRIDGE	75.00	0.00	28.00	0.00	0.0			187	
189+18.50	170+43.00	END BRIDGE - JEFFERSON DAVIS PARKWAY		124.50	28.50	394.25	43.4			0	
170+43.00	171+08.00	JEFFERSON DAVIS PARKWAY		65.00	30.50	220.28	24.2			394	
171+08.00	173+58.00	JEFFERSON DAVIS PARKWAY - WILSON		250.00	32.00	888.89	97.8			220	
173+58.00	213+16.00	WILSON - N. OLYMPIA	154.08	3003.92	32.00	13,525.05	1,487.8			888	
213+16.00	213+89.00	N. OLYMPIA - CITY PARK		73.00	32.50	263.61	28.0			13,525	
213+89.00	217+51.94	SOUTHBOUND @ CITY PARK		362.94	32.00	1,280.45	141.9			264	
217+51.94	111+10.00	TURNOUT @ N. PRIEUR		65.00	VARIES			36	4	1,280	
111+10.00	117+83.00	TURNOUT @ N. GALVEZ		67.00	VARIES			105	11.6	36	
117+83.00	118+64.00	TURNOUT @ N. GALVEZ		70.00	VARIES			59.33	6.5	105	
118+64.00	128+68.00	TURNOUT @ N. ROCHEBLAVE		64.00	VARIES			46.67	5.1	59	
128+68.00	133+31.00	TURNOUT @ N. DORGENOIS		66.00	VARIES			36.44	4	47	
133+31.00	144+44.00	TURNOUT @ N. WHITE		48.00	VARIES			45.22	5	36	
144+44.00	147+30.00	TURNOUT @ N. DUPRE		48.00	VARIES			45.22	5	45	
147+30.00	151+24.00	TURNOUT @ N. GAYOSO		60.00	VARIES			45.22	5	45	
151+24.00	154+57.00	TURNOUT @ N. SALCEDO		54.00	VARIES			48	5.3	45	
154+57.00	157+11.00	TURNOUT @ N. LOPEZ		47.00	VARIES			46.89	5.2	48	
157+11.00	160+24.00	TURNOUT @ N. RENDON		50.00	VARIES			48.67	5.4	47	
160+24.00	164+43.00	TURNOUT @ N. HAGAN		60.00	VARIES			40.67	4.5	49	
164+43.00	168+25.00	TURNOUT @ E. MOSS		60.00	VARIES			48	5.3	41	
168+25.00	170+88.00	TURNOUT @ JEFFERSON DAVIS		56.00	VARIES			63.56	7	48	
170+88.00	171+54.00	TURNOUT @ JEFFERSON DAVIS		51.00	VARIES			30.89	3.4	64	
171+54.00	183+42.00	TURNOUT @ N. SCOTT		50.00	VARIES			38.44	4.2	31	
183+42.00	186+49.00	TURNOUT @ N. PIERCE		51.00	VARIES			25.44	2.8	38	
186+49.00	194+71.00	TURNOUT @ DAVID		61.00	VARIES			37.44	4.1	25	
194+71.00	197+88.00	TURNOUT @ N. SOLOMON		60.00	VARIES			41.33	4.5	37	
197+88.00										41	
SOUTHBOUND SUBTOTALS						4,306.5			97.9	40,037	



		<b>ORLEANS AVENUE</b>		<b>ORLEANS</b>	
<b>PAVING QUANTITY SUMMARY TABLE</b>		<b>ER-ERP1(05B)</b>		<b>704-36-0042</b>	
<b>STANLEY CONSULTANTS, INC.</b>		<b>DATE</b> MAY 2009		<b>STATE PROJECT</b>	
<b>BY</b>		<b>DATE</b> 7 OF 40		<b>3f</b>	

# FINAL PLANS

## ORLEANS AVENUE (SOUTHBOUND) PAVING QUANTITIES (CONT.)

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.)		508-01-00100 COLD PLACING ASPHALTIC PAVEMENT (2" AVG. DEPTH)	
					SQ YD	TONS	SQ YD	TONS	SQ YD	
201+59.00	TURNOUT @ N. HENNESSEY		61.00	VARIES			41.11	4.5		41
205+34.00	TURNOUT @ N. ALEXANDER		47.00	VARIES			17.44	1.9		17
209+02.00	TURNOUT @ N. MURAT		50.00	VARIES			43.44	4.8		43
212+72.00	TURNOUT @ N. OLYMPIA		44.00	VARIES			32.56	3.6		33
216+26.00	TURNOUT @ N. ST. PATRICK		66.00	VARIES			48.89	5.4		49
SOUTHBOUND SUBTOTALS						0.0		20.2		183
SOUTHBOUND TOTALS						4,306.5		118.1		40,220
NORTHBOUND TOTALS						4,602.4		778.6		48,913
ADDITIONAL 40% ESTIMATED FOR LEVELING						3,563.6		358.7		
ROADWAY TOTALS						12,472.5		1,255.4		89,133



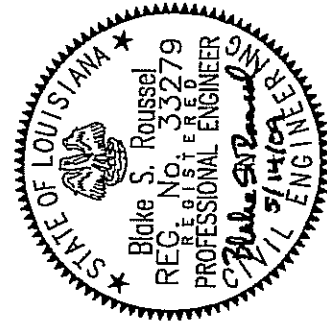
		ORLEANS AVENUE		ORLEANS		SHEET NUMBER		39	
		PAVING QUANTITY SUMMARY TABLE		ER-ERP1(058)		FEDERAL PROJECT		STATE PROJECT	
		DESIGNED: BSR CHECKED: JRS DATE: MAY 2009 BY:		DESIGNED: BSR CHECKED: JRS DATE: MAY 2009 BY:		DESIGNED: BSR CHECKED: JRS DATE: MAY 2009 BY:		DESIGNED: BSR CHECKED: JRS DATE: MAY 2009 BY:	
NO. DATE REVISION DESCRIPTION									

# FINAL PLANS

ORLEANS AVENUE ADA RAMP				
STATION	SIDE OF $\ell$	OFFSET (FEET)	TYPE	
			A	B
107+07	LT	42	1	
107+10	LT	7	1	
107+10	RT	7	1	
107+12	RT	45	1	
107+50	RT	45	1	
107+54	RT	7	1	
107+54	LT	7	1	
107+63	LT	42	1	
110+82	RT	7	1	
110+82	LT	7	1	
110+52	LT	7	1	
110+54	RT	45	1	
110+55	LT	45	1	
111+05	LT	45	1	
111+07	RT	7	1	
111+07	LT	7	1	
111+10	RT	45	1	
114+12	RT	7	1	
114+12	LT	7	1	
114+12	LT	41	1	
114+17	RT	45	1	
114+54	RT	45	1	
117+28	RT	7	1	
117+28	LT	7	1	
117+33	LT	45	1	
117+56	RT	45	1	
117+05	LT	47	1	
118+02	LT	47	1	
118+17	RT	45	1	
118+43	RT	7	1	
118+43	LT	7	1	
118+48	LT	45	1	
121+10	RT	8	1	
121+10	LT	3	1	
121+12	RT	40	1	
SUBTOTAL			12	22

ORLEANS AVENUE ADA RAMP (CONT.)				
STATION	SIDE OF $\ell$	OFFSET (FEET)	TYPE	
			A	B
121+21	RT	49	1	
121+30	LT	41	1	
121+57	RT	45	1	
124+67	RT	45	1	
125+07	RT	45	1	
128+14	LT	45	1	
128+16	RT	7	1	
128+16	LT	7	1	
128+21	RT	45	1	
128+58	RT	45	1	
128+61	LT	45	1	
128+63	RT	7	1	
128+63	LT	7	1	
132+70	RT	8	1	
132+70	LT	8	1	
132+72	RT	40	1	
132+78	LT	45	1	
132+82	RT	50	1	
133+14	RT	45	1	
133+21	LT	45	1	
133+23	RT	8	1	
133+23	LT	8	1	
143+87	RT	12	1	
143+87	LT	12	1	
143+99	RT	45	1	
143+99	LT	45	1	
144+39	RT	45	1	
144+39	LT	45	1	
144+40	RT	12	1	
144+40	LT	13	1	
147+34	RT	12	1	
147+34	LT	13	1	
147+35	LT	47	1	
147+37	RT	45	1	
SUBTOTAL			16	18

ORLEANS AVENUE ADA RAMP (CONT.)				
STATION	SIDE OF $\ell$	OFFSET (FEET)	TYPE	
			A	B
147+74	LT	47	1	
147+77	RT	45	1	
147+79	RT	12	1	
147+79	LT	13	1	
150+71	RT	12	1	
150+71	LT	13	1	
150+75	RT	47	1	
150+75	LT	47	1	
151+08	RT	51	1	
151+13	LT	47	1	
151+15	RT	12	1	
151+15	LT	13	1	
151+15	RT	43	1	
154+08	RT	13	1	
154+08	LT	13	1	
154+10	RT	47	1	
154+12	LT	47	1	
154+45	RT	50	1	
154+46	RT	43	1	
154+51	LT	47	1	
154+53	RT	12	1	
154+53	LT	13	1	
156+66	RT	11	1	
156+66	LT	12	1	
156+68	RT	47	1	
156+68	LT	47	1	
157+06	RT	47	1	
157+07	LT	47	1	
157+09	RT	12	1	
157+09	LT	12	1	
160+24	RT	43	1	
160+25	RT	13	1	
160+26	LT	13	1	
160+31	LT	47	1	
SUBTOTAL			13	21

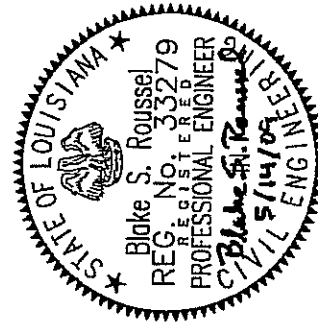


ORLEANS AVENUE		ORLEANS		SHEET NUMBER 35	
ADA RAMP SUMMARY TABLE		ER-ERP1(05B)		STATE PROJECT 704-36-0042	
DESIGNED: BSR		CHECKED: JRS		DATE: MAY 2009	
DRAWN: BSR		CHECKED: JRS		BY: 9 OF 40	
REVISION DESCRIPTION		DATE		BY	

# FINAL PLANS

ORLEANS AVENUE ADA RAMP (CONT.)				
STATION	SIDE OF $\ell$	OFFSET (FEET)	TYPE	
160+33	RT	51	A	B
160+67	LT	45	1	
160+68	RT	47	1	
160+70	RT	12	1	
160+70	LT	12	1	
163+85	RT	13	1	
163+85	LT	13	1	
163+89	RT	47	1	
163+89	LT	46	1	
164+29	LT	47	1	
164+30	RT	47	1	
164+35	LT	13	1	
164+36	RT	12	1	
167+72	LT	47	1	
167+88	LT	6	1	
167+92	RT	6	1	
168+14	RT	46	1	
168+16	LT	37	1	
168+49	RT	41	1	
170+46	LT	11	1	
170+48	RT	11	1	
170+50	LT	45	1	
170+60	RT	48	1	
170+89	LT	47	1	
171+01	LT	8	1	
171+03	LT	47	1	
171+08	RT	54	1	
171+08	RT	21	1	
171+32	LT	48	1	
171+35	RT	71	1	
171+52	RT	81	1	
173+71	RT	118	1	
174+10	RT	120	1	
178+81	RT	119	1	
SUBTOTAL			16	18

ORLEANS AVENUE ADA RAMP (CONT.)				
STATION	SIDE OF $\ell$	OFFSET (FEET)	TYPE	
177+11	RT	118	A	B
178+80	RT	118	1	
180+14	RT	121	1	
182+63	RT	115	1	
182+77	RT	127	1	
182+92	RT	74	1	
182+94	LT	9	1	
183+00	LT	47	1	
183+10	RT	120	1	
183+33	RT	75	1	
183+35	LT	47	1	
183+37	LT	9	1	
185+54	RT	118	1	
185+81	RT	125	1	
186+92	RT	116	1	
186+98	LT	8	1	
186+99	RT	75	1	
186+04	LT	47	1	
186+39	LT	47	1	
188+67	RT	120	1	
189+16	RT	122	1	
189+36	RT	124	1	
191+45	RT	117	1	
191+68	RT	118	1	
194+21	RT	116	1	
194+24	LT	46	1	
194+56	RT	115	1	
194+58	LT	46	1	
194+63	RT	72	1	
194+63	LT	9	1	
197+93	RT	73	1	
197+93	LT	9	1	
197+94	RT	112	1	
197+99	LT	48	1	
SUBTOTAL			16	18

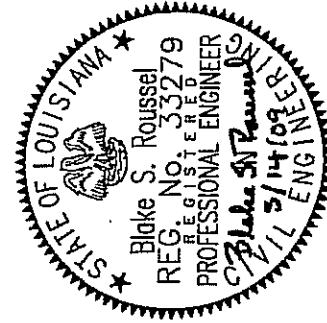


				ORLEANS AVENUE		ORLEANS		PARISH		SHEET NUMBER	
				ADA RAMP SUMMARY TABLE		ER-ERP1(05B)		704-36-0042		51	
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# FINAL PLANS

ORLEANS AVENUE ADA RAMP (CONT.)				
STATION	SIDE OF $\ell$	OFFSET (FEET)	TYPE	
			A	B
198+03	RT	118		1
198+32	LT	48	1	
198+35	RT	114	1	
198+38	RT	73		1
198+39	LT	10		1
201+67	RT	73		1
201+68	LT	8		1
201+74	RT	114	1	
201+74	LT	48	1	
202+07	LT	48	1	
202+08	RT	115	1	
202+12	RT	73		1
202+13	LT	9		1
205+37	RT	72		1
205+37	LT	9		1
205+44	RT	116	1	
205+44	LT	48	1	
205+69	RT	118		1
205+73	LT	48	1	
205+76	RT	113		1
205+80	RT	74		1
205+80	LT	10		1
209+02	RT	72		1
209+03	LT	9		1
209+07	LT	46		1
209+09	RT	117	1	
209+13	LT	52		1
209+12	RT	117	1	
209+42	LT	50	1	
209+45	RT	73		1
209+46	LT	9		1
212+72	RT	72		1
212+72	LT	8		1
212+78	LT	50	1	
SUBTOTAL			13	21

ORLEANS AVENUE ADA RAMP (CONT.)				
STATION	SIDE OF $\ell$	OFFSET (FEET)	TYPE	
			A	B
212+79	RT	119	1	
213+06	RT	116	1	
213+10	LT	50	1	
213+14	RT	72		1
213+15	LT	8		1
215+00	RT	118		1
215+22	RT	110		1
216+03	RT	68		1
216+12	RT	55		1
216+34	RT	41		1
216+44	LT	50	1	
216+79	LT	50		1
217+18	LT	10		1
217+88	LT	48	1	
SUBTOTAL			5	9
TOTAL			81	127



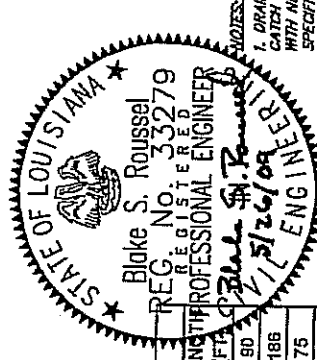
				ORLEANS AVENUE		ORLEANS		PARISH		ORLEANS		SHEET NUMBER		31	
				ADA RAMP SUMMARY TABLE		ER-ERP1(058)		FEDERAL PROJECT		STATE PROJECT		704-36-0042			
				REVISION DESCRIPTION		DATE		BY		BSR		CHECKED		JRS	
				DATE		BY		BSR		CHECKED		JRS			
				DATE		BY		BSR		CHECKED		JRS		MAY 2009	
				DATE		BY		BSR		CHECKED		JRS		11 OF 40	

# FINAL PLANS

ORLEANS AVENUE CATCH BASIN REPAIRS					
STRUCTURE #	TYPE A CB ADJUST.	REHAB. EXIST. CATCH BASINS#	CB FRAME & COVER	STATION	DESCRIPTION
396-474-0603			1	108+85	COV
396-474-0624			1	113+39	COV
396-474-0557A			1	123+09	COV
396-474-0477A			1	130+99	COV
396-474-0857			1	131+67	COV
396-478-0350			1	135+43	COV
398-478-0650			1	135+79	COV
393-476-0754			1	139+50	COV
393-476-0307			1	162+40	COV
393-476-0704			1	165+85	ADJ1
393-478-0512			1	173+44	ADJ1
393-478-0511			1	173+95	RFC1
390-478-0590			1	178+15	RFC1
390-478-0500			1	183+94	ADJ1
390-478-0549			1	184+65	ADJ1 & LIN
390-478-0548			1	185+13	RFC1
390-478-0528			1	196+01	RFC1 & LIN
390-478-0518			1	195+09	ADJ1
390-480-0077			1	198+64	ADJ1
390-480-0405			1	200+37	RFC1 & LIN
390-480-0404			1	208+85	COV & LIN
TOTAL =	11	4	15		
* INDICATES NON-PARTICIPATING ITEM.					

ORLEANS AVENUE MANHOLE REPAIRS					
STRUCTURE #	MH ADJUST.	REPLACEMENT SANITARY SEWER FRAME & COVER	DRAIN MH FRAME & COVER	STATION	DESCRIPTION
396-474-0084	1			132+86	ADJ1
396-474-0092	1			133+03	ADJ1
393-476-0414			1	161+00	COV
390-478-0368	1			185+10	ADJ1
390-480-0055	1			202+04	ADJ1
390-480-0047	1			209+14	ADJ1
218-031*	1			173+44	RFC1
TOTAL =	6	1	1		
* INDICATES SEWER MANHOLE					

ORLEANS AVENUE GRATE INLET REPAIRS			
STRUCTURE #	GRATE INLET ADJUST.	STATION	DESCRIPTION
390-478-0585	1	178+50	ADJ1
TOTAL =	1		
* INDICATES NON-PARTICIPATING ITEM.			



ORLEANS AVENUE STORM DRAIN PIPE REPAIRS*					
UPSTREAM MANHOLE	DOWNSIDE MANHOLE	REPAIR DESCRIPTION	ASSET SIZE (INCH)	ASSET MATERIAL	BEGIN STATION / END STATION / OFFSET
390-478-0279	390-478-0281	REPLACE PIPE W/ 15" RCP #	15	RCP	188+01 / +112
396-478-0351	396-478-0007	REPLACE PIPE W/ 15" RCP #	15	RCP	135+34 / -39
390-478-0267	390-478-0212	FULL CEMENTITIOUS LINING #	21	RCP	184+54 / +108
TOTAL 15" RCP =					276






\* INDICATES NON-PARTICIPATING ITEM: 701-03-01000 STORM DRAIN PIPE (15") & PIPE LINING (21")

- NOTES:
1. DRAIN MANHOLES, SANITARY SEWER MANHOLES, AND CATCH BASINS ARE TO BE REPAIRED IN ACCORDANCE WITH NEW ORLEANS SAHB/DPIH 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.

				<b>ORLEANS AVENUE</b> UTILITY REPAIR SUMMARY TABLE		SHEET NUMBER <b>3K</b>
PROJECT NUMBER 704-36-0042		FEDERAL PROJECT ER-ERP1(058)		STATE PROJECT 704-36-0042		DATE Nov 2008
SHEET 12 OF 40		BSR CHECKED BSR CHECKED		BSR CHECKED BSR CHECKED		PROJECT 704-36-0042

**NOTE: THE AREAS AND STATIONS SHOWN ARE ANTICIPATED BASED UPON**

RECONNAISSANCE AND SITE SURVEY. PROJECT ENGINEER SHALL VERIFY ACTUAL LOCATIONS AND DIMENSIONS

									
<b>Stanley Consultants, Inc.</b>		<b>ORLEANS AVENUE</b>		<b>ORLEANS</b>		<b>PARISH</b>		<b>ORLEANS</b>	
<b>PAVEMENT REPAIR SUMMARY TABLE</b>		<b>PAVEMENT REPAIR SUMMARY TABLE</b>		<b>PAVEMENT REPAIR SUMMARY TABLE</b>		<b>PAVEMENT REPAIR SUMMARY TABLE</b>		<b>PAVEMENT REPAIR SUMMARY TABLE</b>	
<b>DATE</b>		<b>DATE</b>		<b>DATE</b>		<b>DATE</b>		<b>DATE</b>	
<b>NO.</b>		<b>NO.</b>		<b>NO.</b>		<b>NO.</b>		<b>NO.</b>	
<b>BY</b>		<b>BY</b>		<b>BY</b>		<b>BY</b>		<b>BY</b>	
<b>DATE</b>		<b>DATE</b>		<b>DATE</b>		<b>DATE</b>		<b>DATE</b>	
<b>REVISION DESCRIPTION</b>		<b>REVISION DESCRIPTION</b>		<b>REVISION DESCRIPTION</b>		<b>REVISION DESCRIPTION</b>		<b>REVISION DESCRIPTION</b>	
<b>BSR</b>		<b>BSR</b>		<b>BSR</b>		<b>BSR</b>		<b>BSR</b>	
<b>CHECKED</b>		<b>CHECKED</b>		<b>CHECKED</b>		<b>CHECKED</b>		<b>CHECKED</b>	
<b>JRS</b>		<b>JRS</b>		<b>JRS</b>		<b>JRS</b>		<b>JRS</b>	
<b>BSR</b>		<b>BSR</b>		<b>BSR</b>		<b>BSR</b>		<b>BSR</b>	
<b>CHECKED</b>		<b>CHECKED</b>		<b>CHECKED</b>		<b>CHECKED</b>		<b>CHECKED</b>	
<b>JRS</b>		<b>JRS</b>		<b>JRS</b>		<b>JRS</b>		<b>JRS</b>	
<b>DATE</b>		<b>DATE</b>		<b>DATE</b>		<b>DATE</b>		<b>DATE</b>	
<b>BSR</b>		<b>BSR</b>		<b>BSR</b>		<b>BSR</b>		<b>BSR</b>	
<b>CHECKED</b>		<b>CHECKED</b>		<b>CHECKED</b>		<b>CHECKED</b>		<b>CHECKED</b>	
<b>JRS</b>		<b>JRS</b>		<b>JRS</b>		<b>JRS</b>		<b>JRS</b>	
<b>DATE</b>		<b>DATE</b>		<b>DATE</b>		<b>DATE</b>		<b>DATE</b>	
<b>BSR</b>		<b>BSR</b>		<b>BSR</b>		<b>BSR</b>		<b>BSR</b>	
<b>CHECKED</b>		<b>CHECKED</b>		<b>CHECKED</b>		<b>CHECKED</b>		<b>CHECKED</b>	
<b>JRS</b>		<b>JRS</b>		<b>JRS</b>		<b>JRS</b>		<b>JRS</b>	
<b>DATE</b>		<b>DATE</b>		<b>DATE</b>		<b>DATE</b>		<b>DATE</b>	
<b>BSR</b>		<b>BSR</b>		<b>BSR</b>		<b>BSR</b>		<b>BSR</b>	
<b>CHECKED</b>		<b>CHECKED</b>		<b>CHECKED</b>		<b>CHECKED</b>		<b>CHECKED</b>	
<b>JRS</b>		<b>JRS</b>		<b>JRS</b>		<b>JRS</b>		<b>JRS</b>	
<b>DATE</b>		<b>DATE</b>		<b>DATE</b>		<b>DATE</b>		<b>DATE</b>	
<b>BSR</b>		<b>BSR</b>		<b>BSR</b>		<b>BSR</b>		<b>BSR</b>	
<b>CHECKED</b>		<b>CHECKED</b>		<b>CHECKED</b>		<b>CHECKED</b>		<b>CHECKED</b>	
<b>JRS</b>		<b>JRS</b>		<b>JRS</b>		<b>JRS</b>		<b>JRS</b>	
<b>DATE</b>		<b>DATE</b>		<b>DATE</b>		<b>DATE</b>		<b>DATE</b>	
<b>BSR</b>		<b>BSR</b>		<b>BSR</b>		<b>BSR</b>		<b>BSR</b>	
<b>CHECKED</b>		<b>CHECKED</b>		<b>CHECKED</b>		<b>CHECKED</b>		<b>CHECKED</b>	
<b>JRS</b>		<b>JRS</b>		<b>JRS</b>		<b>JRS</b>		<b>JRS</b>	
<b>DATE</b>		<b>DATE</b>		<b>DATE</b>		<b>DATE</b>		<b>DATE</b>	
<b>BSR</b>		<b>BSR</b>		<b>BSR</b>		<b>BSR</b>		<b>BSR</b>	
<b>CHECKED</b>		<b>CHECKED</b>		<b>CHECKED</b>		<b>CHECKED</b>		<b>CHECKED</b>	
<b>JRS</b>		<b>JRS</b>		<b>JRS</b>		<b>JRS</b>		<b>JRS</b>	
<b>DATE</b>		<b>DATE</b>		<b>DATE</b>		<b>DATE</b>		<b>DATE</b>	
<b>BSR</b>		<b>BSR</b>		<b>BSR</b>		<b>BSR</b>		<b>BSR</b>	
<b>CHECKED</b>		<b>CHECKED</b>		<b>CHECKED</b>		<b>CHECKED</b>		<b>CHECKED</b>	
<b>JRS</b>									



ORLEANS AVENUE PAVEMENT REPAIR QUANTITIES (CONT.)

ORLEANS AVENUE PAVEMENT REPAIR QUANTITIES (CONT.)					
STATION	RT/LT OF E	510-01-00200 PAVEMENT PATCHING (12" MINIMUM THICKNESS) (SQ YD)	CONC. PMVT. REPAIR (18.0 SQ YD AND UNDER) (SQ YD)	CONC. PMVT. REPAIR (18.1 - 48.0 SQ YD) (SQ YD)	CONC. PMVT. REPAIR (48.1 SQ YD AND OVER) (SQ YD)
155+07	RT				63.1
158+35	RT				103.3
159+95	LT				80.0
160+66	LT		8.0		
161+13	LT				61.7
162+33	LT				122.7
163+40	LT				166.7
163+74	LT			31.1	
164+48	LT			30.0	
164+84	LT				53.3
165+07	LT				
159+72	RT			38.7	
160+78	RT				73.3
161+81	RT				130.0
162+28	RT		4.0		73.3
162+85	RT				73.3
163+38	RT		9.3		
103+87	RT		13.3		
164+30	RT			20.0	
164+72	RT				61.7
165+45	RT				109.3
165+80	RT			35.0	
172+70	LT			39.7	
167+33	RT				52.8
167+58	RT				105.8
173+30	LT				121.0
174+72	LT				88.6
176+60	LT				220.0
176+94	LT				60.0
177+83	LT			22.0	
179+30	LT		18.7		
173+17	RT	51			
173+87	RT			22.0	
174+91	RT	52			
175+25	RT	47			
SUBTOTAL		150	51.3	238.5	1,820.0

STATE OF LOUISIANA  
 ★  
 REG. NO. 33270  
 REGISTERED  
 PROFESSIONAL ENGINEER  
 BLAKE S. ROUSSEL  
 5/14/09  
 ENGINEER

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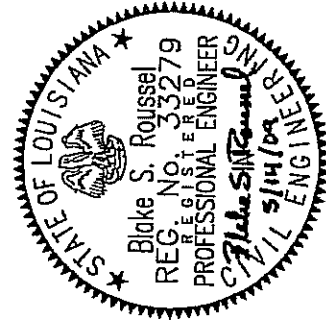




## FINAL PLANS

ORLEANS AVENUE PAVEMENT REPAIR QUANTITIES (CONT.)					
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)
208+77	LT				58.9
208+48	LT		7.1		
209+57	LT			33.3	
210+41	LT		10.9		
210+86	LT				113.7
211+52	LT		5.3		
212+24	LT			29.3	
213+55	LT			42.2	
213+76	LT			20.4	
208+03	RT	40			
212+24	RT	72			
213+17	RT			34.7	
215+06	LT				64.8
215+38	LT				189.1
214+66	RT	27			
215+95	RT	144			
SUBTOTAL		283	23.3	159.8	435.5
TOTAL		2,452	278.5	2,290.7	8,608.8

ORLEANS AVENUE BUS PAD REPAIR QUANTITIES		
STATION	RT/LT OF £	BUS PAD REPAIR (SQ YD)
101+30	LT	86.7
105+40	LT	86.7
111+40	LT	86.7
119+03	LT	86.7
125+50	LT	86.7
133+50	LT	86.7
177+36	LT	86.7
183+50	LT	86.7
190+50	LT	86.7
198+50	LT	86.7
205+00	LT	86.7
SUBTOTAL		954

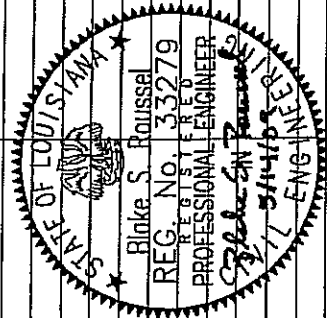
NOTE: THE AREAS AND STATIONS  
SHOWN ARE BASED UPON  
RECONNAISSANCE AND SITE SURVEY.  
THE PROJECT ENGINEER SHALL VERIFY  
ACTUAL LOCATIONS AND DIMENSIONS.



 Stanley Consultants, Inc.		ORLEANS AVENUE PAVEMENT/BUS PAD REPAIR SUMMARY TABLE				DESIGNED CHECKED BSR JRS	BSR JRS	PARISH ORLEANS	SHEET NUMBER 36
						DATE May 2009	PROJECT ER-ERP1(058)	STATE PROJECT 704-36-0042	

# FINAL PLANS

ORLEANS AVENUE CURB REPAIRS						ORLEANS AVENUE CURB REPAIRS (CONT.)					
STATION	RT/LT OF C	DRILLED AND DOWELED BARRIER CURB (L/FT)	DOWELED BARRIER CURB (L/FT)	DRILLED AND DOWELED MOUNTABLE CURB (L/FT)	RECONSTR. CONC. CURB & GUTTER (8" BARRIER) (L/FT)	STATION	RT/LT OF C	DRILLED AND DOWELED BARRIER CURB (L/FT)	DOWELED BARRIER CURB (L/FT)	DRILLED AND DOWELED MOUNTABLE CURB (L/FT)	RECONSTR. CONC. CURB & GUTTER (8" BARRIER) (L/FT)
103+05	LT			8		115+72	RT				107
101+03	RT	7				119+78	LT		101		
101+00	RT			20		121+66	LT	4			
103+64	RT	13				117+23	RT				50
103+30	RT	6				117+33	RT	14			
104+08	LT	4				118+40	RT	10			
105+58	LT		20			118+84	RT				0
108+50	LT			16		118+98	RT				167
108+01	LT		20			119+45	RT	21			
107+12	LT	6				122+04	RT				6
107+60	LT	4				124+72	LT				6
109+02	LT				34	124+74	LT	6			
104+10	RT	6				127+15	LT		133		
105+67	RT		9			127+71	LT		17		
110+42	LT				46	127+94	LT				39
110+59	LT	20				128+60	LT	8			
110+99	LT	8				128+16	LT		78		
111+05	LT	8				129+19	LT				28
111+88	LT			13		129+37	LT		6		
112+81	LT				12	129+87	LT				148
114+19	LT	6				129+89	RT	4			
114+44	LT					129+98	RT				200
114+53	LT	5		58		127+94	RT				12
115+07	LT					128+61	RT	8			
110+68	RT	10			32	130+31	RT				301
111+00	RT	0				131+40	LT				9
111+66	RT			85		132+81	LT	7			
112+03	RT		43			134+34	LT				24
112+84	RT				143	134+63	LT	64			
112+95	RT					134+81	LT				24
114+14	RT	8				135+05	LT	12			
114+55	RT	7				135+41	LT	10			
115+42	RT	9				134+81	RT		52		
		138	144	214	259	135+88	RT	4			
SUBTOTAL					0	135+40	RT	8			
						135+40	RT				87
						SUBTOTAL		182	417	0	1220
											0



NOTE: THE STATIONS SHOWN ARE ANTICIPATED BASED UPON RECONNAISSANCE AND SITE SURVEY. THE PROJECT ENGINEER SHALL VERIFY ACTUAL LOCATIONS AND DIMENSIONS.

SHEET NUMBER		3p	
ORLEANS AVENUE		ORLEANS	
CURE REPAIR SUMMARY TABLE		ER-ERP1(05B)	
DATE		May 2009	
REVISION DESCRIPTION		SHEET 17 OF 40	
DATE		704-36-0042	

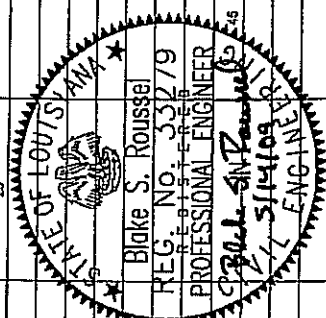
# FINAL PLANS

## ORLEANS AVENUE CURB REPAIRS (CONT.)

STATION	RT/LT OF C	DRILLED AND DOWELED BARRIER CURB (LNFT)	DOWELED BARRIER CURB (LNFT)	DRILLED AND DOWELED MOUNTABLE CURB (LNFT)	DOWELED MOUNTABLE CURB (LNFT)	RECONSTR. CONC. CURB & GUTTER (8" BARRIER) (LNFT)
141+45	LT	10				
141+70	LT	40				
142+40	LT		60			
142+52	LT			30		
143+75	LT	12				
144+70	LT			15		
149+70	RT				51	
141+45	RT	5				
141+50	RT		100			
143+12	RT		40			
145+54	LT		20			
145+73	LT		7			
145+05	LT				17	
148+20	LT			40		
148+19	LT		70		27	
140+33	LT		40			
140+30	LT					
150+10	LT			51		
150+20	LT		70			
151+12	LT	17				
147+34	RT	12				
147+54	RT		17			
148+05	RT		240			
149+05	RT				30	
150+50	RT			21		
153+04	LT		40			
154+53	LT	17				
154+00	LT		30			
158+12	LT				33	
159+08	LT		31			
155+42	LT		12			
159+50	LT			21		
158+51	LT		20			
153+00	RT			9		
154+51	RT	18				
154+03	RT				27	
SUBTOTAL		102	917	105	191	0

## ORLEANS AVENUE CURB REPAIRS (CONT.)

STATION	RT/LT OF C	DRILLED AND DOWELED BARRIER CURB (LNFT)	DOWELED BARRIER CURB (LNFT)	DRILLED AND DOWELED MOUNTABLE CURB (LNFT)	DOWELED MOUNTABLE CURB (LNFT)	RECONSTR. CONC. CURB & GUTTER (8" BARRIER) (LNFT)
150+07	RT		71			
158+34	RT				02	
158+71	RT	12				
159+05	LT		48			
160+27	LT	8				
161+10	LT				31	
162+32	LT		48			
163+40	LT		112			
164+04	LT				30	
165+00	LT			15		
165+05	LT			10		
166+78	RT				70	
161+81	RT		44			
162+04	RT		44			
164+74	RT			32		
165+44	RT				05	
165+73	RT		21			
166+03	LT	30				
171+01	LT	12				
171+40	LT	63		10		
172+71	LT					
172+00	LT		28			
167+33	RT		25			
167+50	RT				58	
171+22	RT					
173+20	LT				81	
174+07	LT	0				
174+70	LT	12				
175+09	LT	0				
176+57	LT				120	
176+04	LT					
179+07	LT	27				
174+12	RT				42	
175+23	RT				50	
175+31	RT				84	
176+07	RT				10	
SUBTOTAL		170	441	118	503	249

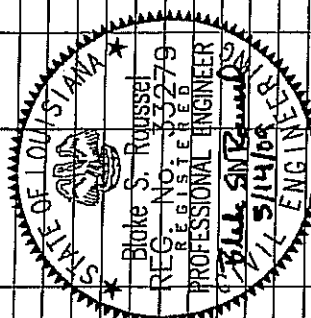


				<b>ORLEANS AVENUE</b> CURB REPAIR SUMMARY TABLE		SHEET NUMBER 39	
DESIGNED JRS		CHECKED JRS		PARISH ORLEANS		FEDERAL PROJECT ER-ERP1(058)	
DATE May 2009		SHEET 18 OF 40		STATE PROJECT 704-36-0042		DATE May 2009	

# FINAL PLANS

ORLEANS AVENUE CURB REPAIRS (CONT.)					
STATION	RT/LT OF C	DRILLED AND DOWELED BARRIER CURB (LNFT)	DOWELED BARRIER CURB (LNFT)	DRILLED AND DOWELED MOUNTABLE CURB (LNFT)	RECONSTR. CONC. CURB & GUTTER (8" BARRIER) (LNFT)
177+10	RT				20
180+08	LT	4			
180+44	LT			13	
180+59	LT	49			
181+51	LT				
182+20	LT		107	22	
182+63	LT	24			
183+00	LT	12			
183+38	LT	24			
183+05	LT		50		
183+61	LT				
185+12	LT		100	61	
185+02	LT		40		
186+07	LT	24			
186+38	LT	24			
188+35	LT	4			
188+69	RT				30
189+72	RT				82
192+42	RT				75
193+30	RT				10
192+75	RT				22
193+10	RT				10
194+77	RT				10
197+21	LT				10
198+02	LT	8			
199+49	LT	4			
199+58	LT	8			
191+10	LT		31		
191+60	LT				58
193+20	LT				4
198+26	RT				70
199+05	RT				7
199+61	RT				18
191+78	RT				32
191+80	RT				80
193+67	RT				25
SUBTOTAL		181	328	41	481

ORLEANS AVENUE CURB REPAIRS (CONT.)					
STATION	RT/LT OF C	DRILLED AND DOWELED BARRIER CURB (LNFT)	DOWELED BARRIER CURB (LNFT)	DRILLED AND DOWELED MOUNTABLE CURB (LNFT)	RECONSTR. CONC. CURB & GUTTER (8" BARRIER) (LNFT)
184+74	LT		6		
184+64	LT				19
189+17	LT			6	
200+31	LT				53
194+23	RT				25
194+55	RT				20
197+07	RT				25
198+04	RT				20
188+32	RT				20
189+73	RT				7
201+46	LT				4
201+50	LT	21			
204+19	LT		23		
205+40	LT	12			
205+77	LT	10			
207+43	LT		102		
201+75	RT				14
202+06	RT				14
205+43	RT				24
205+71	RT				24
208+04	RT				4
208+19	RT				5
208+23	LT		35		
208+77	LT		53		
209+11	LT	10			
209+45	LT	10			
209+49	LT	10			
210+09	LT				82
213+54	LT				20
209+11	RT				10
209+44	RT				16
212+78	RT				17
213+64	RT				60
SUBTOTAL		73	220	6	311



SHEET NUMBER		37	
ORLEANS AVENUE		ORLEANS	
CURE REPAIR SUMMARY TABLE		ER-ERP1(058)	
DESIGNED BSR JRS		CHECKED JRS	
DATE MAY 2009		SHEET 19 OF 40	
STATE PROJECT		704-36-0042	

# FINAL PLANS

## ORLEANS AVENUE CURB REPAIRS (CONT.)

STATION	RT/LT OF C	DRILLED AND DOWELED BARRIER CURB (LNFT)	DOWELED BARRIER CURB (LNFT)	DRILLED AND DOWELED MOUNTABLE CURB (LNFT)	DOWELED MOUNTABLE CURB (LNFT)	RECONSTR. CONC. CURB & GUTTER (6" BARRIER) (LNFT)
216+14	RT					20
216+90	RT					108
216+32	RT					18
216+07	LT	53				
216+38	LT		56			
216+78	LT	5				
217+19	LT	10				
214+86	RT					40
SUBTOTAL		68	56	0	0	186
TOTAL		922	2523	573	2484	1227



ORLEANS AVENUE		ORLEANS		PARISH	
CURB REPAIR SUMMARY TABLE		ER-ERP1(058)		FEDERAL PROJECT	
		DATE		STATE PROJECT	
		MAY 2009		704-36-0042	
		SHEET		20 OF 40	
		DESIGNED		BSR	
		CHECKED		JRS	
		DETAILED		BSR	
		CHECKED		JRS	
		DATE		MAY 2009	
		SHEET		20 OF 40	

# FINAL PLANS

## N. MIRO ST. 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 PLANNING ASPHALTIC CONCRETE (2" AVG, DEPTH)	
						*SQ. YD.	*TONS	*SQ. YD.	*TONS	*SQ. YD.	*TONS
102+57.31	115+65.67	ORLEANS AVE. - CROWN/BASELINE INTERSECTION	-	1308.4	28	4070.1	447.7	328.2	36.1	4070.1	
116+65.67	119+46.05	CROWN/BASELINE INTERSECTION - GOV. NICHOLLS ST.	-	380.4	VARIES	1202.6	132.3	224.6	24.7	1202.6	
119+46.05	123+10.42	GOV. NICHOLLS ST. - BARRACKS ST.	-	364.4	VARIES	1137.6	125.1	92.3	10.2	1137.6	
123+10.42	125+91.21	BARRACKS ST. - ESPLANADE AVE.	-	280.8	VARIES	899.9	99.0	126.0	13.9	899.9	
125+91.21	134+60.75	ESPLANADE AVE. - CROWN/BASELINE INTERSECTION	-	869.5	VARIES	2500.5	275.1	282.5	31.1	2500.5	
134+60.75	137+27.57	CROWN/BASELINE INTERSECTION - LAHARPE ST.	-	266.8	VARIES	770.7	84.8	54.7	6.0	770.7	
137+27.57	140+95.48	LAHARPE ST. - LAPEYROUSE ST.	-	367.9	VARIES	1081.5	119.0	90.3	9.9	1081.5	
140+95.48	144+55.52	LAPEYROUSE ST. - ONZAGA ST.	-	370.0	VARIES	1086.2	119.5	86.1	9.5	1086.2	
144+55.52	150+64.80	ONZAGA ST. - BEGIN PAVING EXCEPTION	-	599.3	VARIES	1725.9	189.8	161.3	17.7	1725.9	
151+91.05	153+58.56	END PAVING EXCEPTION - GEORGE NICK CONNER DR.	-	167.5	VARIES	433.7	47.7	31.5	3.5	433.7	
153+58.56	157+79.00	GEORGE NICK CONNER DR. - CROWN/BASELINE INTERSECTION	126.25	420.4	VARIES	1328.9	146.2	146.4	16.1	1328.9	
157+79.00	187+18.81	CROWN/BASELINE INTERSECTION - ELYSIAN FIELDS AVE.	-	2939.8	VARIES	9315.7	1024.7	917.1	100.9	9315.7	
104+41.90	12+00.00	ST. BERNARD AVE. - GEORGE NICK CONNER DR.	-	158.1	VARIES	502.7	55.3	12.7	1.4	502.7	
SUBTOTAL											
ADDITIONAL 40% ESTIMATED FOR LEVELING						2866.2				281.0	
TOTAL						1146.5				112.4	
						4012.7				393.4	

\* QUANTITIES BASED ON ACTUALS, WIDTH VARIES PER TYPICAL SECTIONS.



CIVIL DESIGN & CONSTRUCTION INC.				<b>N. MIRO STREET</b> PAVEMENT QUANTITY SUMMARY TABLE				DESIGNED CHECKED DRAWN DATE	NJO KEW KEW FEB. 2009	21 of 40 SHEET	ORLEANS ER-ERPI(059) 704-36-0043	31 SHEET NUMBER
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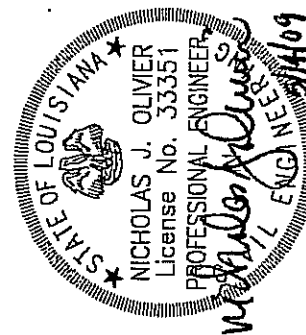
FINAL PLANS

STIMES

N. MIRO ST. ADA RAMP				
STATION	SIDE OF C	OFFSET (FEET)	TYPE	
			A	B
104+39.60	LT	20.0	1	
104+40.19	RT	18.0	1	
104+73.94	LT	19.0	1	
104+74.35	RT	17.0	1	
108+15.64	LT	20.0	1	
108+15.82	RT	18.5	1	
108+51.30	RT	18.0	1	
108+51.47	LT	19.5	1	
112+13.57	RT	17.0	1	
112+14.19	LT	19.5	1	
112+51.57	RT	17.5	1	
112+51.84	LT	19.5	1	
115+73.66	RT	18.0	1	
115+74.32	LT	20.0	1	
116+05.99	RT	16.5	1	
116+06.20	LT	18.5	1	
116+37.90	RT	18.0	1	
116+38.26	LT	19.5	1	
122+94.18	LT	18.0	1	
122+94.28	RT	18.0	1	
123+28.22	LT	20.0	1	
123+28.55	RT	16.5	1	
125+57.04	RT	18.0	1	
125+54.85	LT	18.0	1	
125+90.85	RT	20.5	1	
125+91.96	LT	17.5	1	
126+39.71	LT	18.0	1	
126+39.76	RT	16.0	1	
129+69.88	LT	18.5	1	
130+04.02	LT	19.0	1	
133+39.61	RT	15.5	1	
133+40.32	LT	19.5	1	
133+73.57	RT	15.5	1	
133+73.78	LT	19.0	1	
137+08.06	RT	16.0	1	
137+08.68	LT	20.0	1	
SUBTOTAL 1			28	8

N. MIRO ST. ADA RAMP (CONT'D)				
STATION	SIDE OF C	OFFSET (FEET)	TYPE	
			A	B
137+43.96	RT	15.0	1	
137+44.67	LT	20.0	1	
144+47.62	RT	15.0	1	
144+47.68	LT	19.5	1	
144+81.01	RT	15.5	1	
144+82.18	LT	20.0	1	
148+17.14	RT	15.0	1	
148+17.91	LT	20.0	1	
148+51.19	RT	14.5	1	
148+51.53	LT	20.0	1	
153+09.54	LT	23.0	1	
11+93.45	LT	21.5	1	
153+86.46	LT	21.5	1	
157+22.10	LT	21.5	1	
157+22.31	RT	16.5	1	
157+60.31	RT	17.0	1	
157+60.37	LT	22.5	1	
157+98.06	RT	17.0	1	
157+98.29	LT	22.0	1	
158+37.08	LT	21.0	1	
158+37.15	RT	16.0	1	
161+69.94	RT	16.0	1	
161+70.63	LT	21.0	1	
162+04.54	RT	17.0	1	
162+05.08	LT	21.0	1	
165+40.40	LT	20.5	1	
169+09.86	LT	20.5	1	
169+10.37	RT	16.5	1	
169+42.85	RT	16.5	1	
169+44.04	LT	21.0	1	
172+77.11	LT	16.5	1	
172+77.50	LT	20.5	1	
173+12.07	RT	16.5	1	
173+12.16	LT	20.5	1	
176+38.79	RT	16.5	1	
176+39.03	LT	20.5	1	
SUBTOTAL 2			30	6

N. MIRO ST. ADA RAMP (CONT'D)				
STATION	SIDE OF C	OFFSET (FEET)	TYPE	
			A	B
176+73.30	LT	19.5	1	
176+74.03	RT	16.5	1	
179+98.17	LT	20.0	1	
179+98.44	RT	17.0	1	
180+33.07	LT	20.0	1	
180+33.20	RT	17.0	1	
183+56.10	RT	17.5	1	
183+56.17	LT	20.5	1	
183+92.09	LT	20.5	1	
183+93.15	RT	17.0	1	
188+32.46	LT	20.5	1	
188+52.57	RT	17.0	1	
188+85.13	LT	21.0	1	
188+94.46	RT	16.5	1	
SUBTOTAL 3			9	5
SUBTOTAL 1			28	8
SUBTOTAL 2			30	6
SUBTOTAL 3			9	5
TOTAL			67	19



CIVIL DESIGN & CONSTRUCTION INC.		N. MIRO STREET		ADA RAMP SUMMARY TABLE	
DESIGNED CHECKED KEY	DESIGNED CHECKED KEY	DATE FEB. 2009	DATE 22 of 40	PROJECT 704-36-004.3	SHEET 36
ORLEANS		ER-ERP1(059)			

FINAL PLANS

N. MIRO STREET CATCH BASIN REPAIRS

N. MIRO STREET CATCH BASIN REPAIRS

STRUCTURE NUMBER	TYPE A CB ADJUST	REHAB. EXIST. CATCH BASINS	CB FRAME & COVER	STATION	OFFSET (FT)	DESCRIPTION
395-474-0496	1			105+45	-16	COV
395-476-0493	1			112+90	-16	ADJ
395-476-0583	1			126+74	+13	ADJ
395-476-0595	1			126+76	-15	ADJ & LIN
395-476-0601	1			120+03	+14	RFCI (CLEAN INSIDE)
395-476-0603	1			118+90	+14	RFCI & LIN
395-476-0615	1			133+03	-15	COV
395-476-0618	1			138+71	-15	ADJ
395-476-0619	1			140+27	+11	ADJ
395-476-0504	1			152+76	+12	ADJ
395-476-0508	1			156+54	-18	ADJ
395-476-0509	1			155+36	+13	ADJ & LIN
395-476-0518	1			150+22	+11	ADJ & LIN
395-476-0531	1			147+88	-16	ADJ & LIN
395-476-0537	1			144+20	-16	ADJ (CLEAN INSIDE)
395-476-0538	1			144+20	+11	ADJ
395-476-0541	1			148+31	+11	ADJ
395-476-0641	1			159+05	-18	ADJ
395-476-0642	1			159+88	+12	ADJ & LIN
395-476-0644	1			161+36	+13	RFCI (CLEAN INSIDE)
395-476-0646	1			163+34	+13	ADJ & LIN
402-478-0368	1			169+77	+13	RFCI
402-478-0488	1			175+05	-17	ADJ & LIN
TOTAL	21	B	7			
COV-						REPLACE MANHOLE COVER
ADJ-						REPLACE MANHOLE COVER
GOV-						INSTALL FULL DEPTH CEMENTITIOUS LINER
LIN-						REPLACE MANHOLE FRAME AND COVER AND ADJUST UP TO 8 INCHES VERTICALLY
RFCI-						

N. MIRO STREET MANHOLE REPAIRS

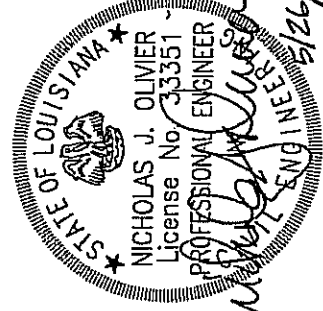
STRUCTURE NUMBER	MANHOLE ADJUST.	REPLACEMENT SANITARY SEWER MANHOLE FRAME & COVER	DRAIN MANHOLE COVER	STATION	OFFSET (FT)	DESCRIPTION
395-476-0281	1			128+20	+8	RFCI & LIN
395-478-0259	1			167+44	+9	COV
395-478-0417	1			137+95	+12	RFCI
TOTAL	2	0	1			
COV-						REPLACE MANHOLE COVER
ADJ-						INSTALL FULL DEPTH CEMENTITIOUS LINER
RFCI-						REPLACE MANHOLE FRAME AND COVER AND ADJUST UP TO 8 INCHES VERTICALLY

N. MIRO STREET STORM DRAIN REPAIRS

UPSTREAM MANHOLE	DOWNSIDE MANHOLE	REPAIR DESCRIPTION	ASSET SIZE (INCH)	EXIST. ASSET MATERIAL	BEGIN STATION/ OFFSET	END STATION/ OFFSET	LENGTH (FT)
395-474-0145	395-474-0146	POINT REPAIR	21	RCP	103+76/-1	103+88/-1	12
395-474-0145	395-474-0146	FULL LINING	21	RCP	102+37/-1	104+44/-1	207

NOTES:

1. DRAIN MANHOLES, SANITARY SEWER MANHOLES, AND CATCH BASINS ARE TO BE REPAIRED IN ACCORDANCE WITH NEW ORLEANS SANS/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.



CIVIL DESIGN & CONSTRUCTION INC.	N. MIRO STREET	UTILITY REPAIR SUMMARY TABLE	NO.	DATE	BY	DESIGNED	NJO	ORLEANS	SHEET NUMBER
						CHECKED	KEW	FEDERAL PROJECT	3v
						REVIEWED	CMR	ER-ERP1(059)	
						CHECKED	NJO	704-36-0043	
						DATE	FEB. 2009	STATE PROJECT	
						SHEET	23 of 40		

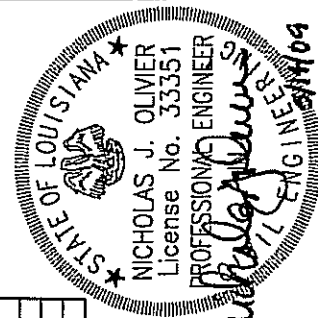
# FINAL PLANS



## N. MIRO ST. PAVEMENT REPAIR

STATION	SIDE OF C	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.	
107+91	LT						
108+50	LT	9.0					
109+24	LT	11.3					
109+42	LT	12.7					
109+73	LT	11.0					
109+73	LT	4.0					
110+36	RT	5.4					
110+54	RT	4.7					
110+63	LT	4.0					
110+64	RT	10.0					
110+72	LT	8.0					
112+53	RT	12.0					
112+54	LT	8.0					
114+18	RT	8.0					
114+71	LT	8.0					
114+75	LT	4.7					
115+90	LT						
116+21	LT		35.6				
118+53	LT	5.3					75.6
123+34	RT	4.0					
123+39	LT	7.3					
128+47	LT	6.7					
128+63	RT	5.4					
131+82	LT	5.3					
135+46	RT	6.2					
139+69	LT	8.0					
140+38	RT	10.7					
141+51	LT	4.0					
144+14	RT		20.8				
145+39	RT	6.7					
153+90	RT	4.0					
155+58	LT	4.0					
155+91	RT	12.0					
155+95	LT	13.0					
158+43	LT	10.7					
158+65	LT	5.3					
159+06	LT	8.7					
160+30	LT	11.3					
160+36	RT	6.0					
SUBTOTAL 1		265.4	56.4				75.6

## N. MIRO ST. PAVEMENT REPAIR (CONT'D)

STATION	SIDE OF C	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.	
160+42	RT						
161+24	LT		9.3				
163+89	LT		13.0				
164+85	LT		14.4				
165+56	RT			25.0			
165+83	LT		11.5				
165+88	LT		4.0				
165+89	RT		8.7				
169+72	RT		9.3				
169+73	LT		8.9				
171+18	RT		4.0				
173+82	LT		4.0				
175+84	RT		4.0				
177+05	RT		4.0				
177+08	RT		11.3				
177+28	LT		5.3				
177+67	LT		4.7				
178+08	LT		16.0				
178+23	RT		8.0				
178+49	RT		8.0				
178+51	LT		5.3				
180+60	RT		8.0				
180+93	LT		17.0				
181+73	LT		15.6				
182+17	LT		18.9				
184+03	LT		5.3				
SUBTOTAL 2		199.7	63.9			0	
SUBTOTAL 1		265.4	56.4			75.6	
SUBTOTAL 2		199.7	63.9			0	
TOTAL		465.1	120.3			75.6	



CIVIL DESIGN & CONSTRUCTION INC.		N. MIRO STREET		PAVEMENT REPAIR SUMMARY TABLE		SHEET NUMBER 3W	
				DESIGNED: NJO CHECKED: KEW RETAINED: NJO DATE: FEB. 2009 SHEET: 24 of 40		ORLEANS ER-ERP1(059) 704-36-0043	

NOTE: THE AREAS AND STATION SHOWN ARE ANTICIPATED BASED UPON RECONNAISSANCE AND SITE SURVEY. AFTER GROUND PLANNING OPERATION ARE COMPLETE, PROJECT ENGINEER SHALL VERIFY ACTUAL LOCATIONS AND DIMENSIONS.

FINAL PLANS

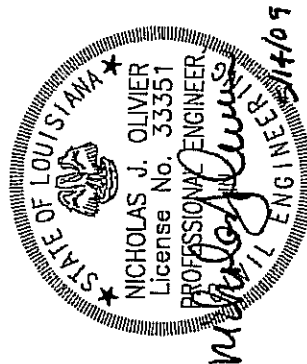
\$ TIMES \$

N. MIRO ST. CURB REPAIR			
STATION	SIDE OF C	RECONSTRUCT CONCRETE CURB & GUTTER (8" BARRIER)	RECONSTRUCT CONCRETE CURB & GUTTER (MOUNTABLE CURB)
		LN. FT.	LN. FT.
102+72	L.T.		4
104+07	L.T.		4
104+90	L.T.		4
106+05	R.T.		4
106+59	L.T.		24
106+78	R.T.		4
107+96	L.T.		4
110+28	L.T.		9
110+54	R.T.		6
110+72	L.T.		9
112+04	L.T.		4
112+65	L.T.		4
112+82	R.T.		4
115+54	R.T.		10
118+05	L.T.		4
118+50	R.T.		6
118+83	R.T.		4
118+87	L.T.		4
119+08	L.T.		4
119+77	R.T.		4
120+45	R.T.		4
120+59	R.T.		9
121+39	R.T.		4
121+68	L.T.		5
123+80	R.T.		4
125+37	R.T.		16
125+45	L.T.		4
126+54	L.T.	24	
126+66	R.T.	23	
126+91	R.T.	6	
127+32	L.T.	30	
127+72	R.T.	20	
127+95	L.T.	30	
128+14	R.T.	8	
128+66	L.T.	15	
128+79	R.T.	5	
128+88	L.T.	7	
129+22	R.T.	5	
129+38	R.T.	4	
129+38	L.T.	12	
SUBTOTAL 1		189	166

N. MIRO ST. CURB REPAIR (CONT'D)			
STATION	SIDE OF C	RECONSTRUCT CONCRETE CURB & GUTTER (8" BARRIER)	RECONSTRUCT CONCRETE CURB & GUTTER (MOUNTABLE CURB)
		LN. FT.	LN. FT.
130+42	R.T.	25	
130+57	R.T.	29	
130+72	L.T.	15	
131+23	R.T.	5	
131+35	L.T.	4	
131+49	L.T.	4	
131+75	R.T.	10	
132+25	R.T.	15	
132+67	R.T.	4	
132+78	R.T.	5	
132+85	L.T.	10	
132+87	R.T.	11	
133+11	R.T.	5	
133+13	L.T.	20	
133+85	L.T.	10	
134+39	L.T.	6	
134+70	L.T.	15	
134+75	R.T.	5	
134+86	R.T.	5	
134+88	L.T.	9	
134+95	R.T.	4	
135+24	L.T.	6	
135+40	R.T.	7	
135+49	R.T.	8	
135+74	L.T.	8	
135+89	R.T.	4	
135+97	L.T.	5	
136+15	R.T.	4	
136+15	L.T.	12	
136+29	L.T.	10	
136+37	R.T.	4	
136+60	R.T.	5	
136+57	R.T.	6	
136+79	L.T.	6	
136+86	R.T.	10	
136+86	L.T.	7	
137+55	R.T.	29	
137+73	R.T.	4	
137+85	L.T.	5	
137+93	R.T.	4	
SUBTOTAL 2		360	0

N. MIRO ST. CURB REPAIR (CONT'D)			
STATION	SIDE OF C	RECONSTRUCT CONCRETE CURB & GUTTER (8" BARRIER)	RECONSTRUCT CONCRETE CURB & GUTTER (MOUNTABLE CURB)
		LN. FT.	LN. FT.
138+05	R.T.	14	
138+26	R.T.	4	
138+52	R.T.	5	
138+73	R.T.	16	
138+98	R.T.	23	
139+03	L.T.	15	
139+47	R.T.	5	
139+85	R.T.	10	
140+24	R.T.	5	
140+33	R.T.	4	
140+51	L.T.	43	
140+51	R.T.	16	
141+22	R.T.	6	
141+39	L.T.	43	
141+71	R.T.	30	
142+25	R.T.	23	
SUBTOTAL 3		262	0

NOTE: THE STATIONS SHOWN ARE ANTICIPATED BASED UPON RECONNAISSANCE AND SITE SURVEY. THE PROJECT ENGINEER SHALL VERIFY ACTUAL LOCATIONS AND DIMENSIONS.

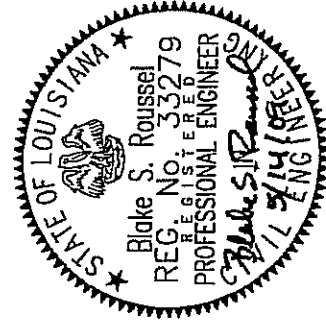


CIVIL DESIGN & CONSTRUCTION INC.	N. MIRO STREET	CURB REPAIR SUMMARY TABLE		DESIGNED	DATE	BY	REVISION DESCRIPTION	DATE	BY
N. MIRO STREET			ORLEANS	ER-ERP1(055)	704-36-0043	3x			



# FINAL PLANS

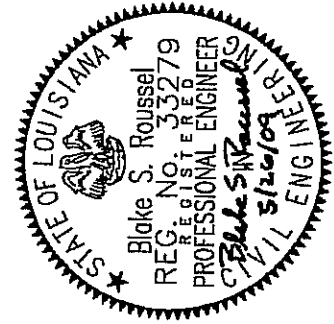
NAVARRE AVENUE (EASTBOUND) PAVING QUANTITIES									
STATION	DESCRIPTION	EXCEPTION (FEET)	LENGTH (FEET)	AVG. WIDTH (FEET)	502-01-00100 SUPERPAVE ASPHALTIC CONCRETE (2" AVG.)		502-01-00200 SUPERPAVE AC DRIVES, TURNOUTS & MISC (2" AVG.)		509-01-00100 COLD PLANING ASPHALTIC PAVEMENT (2" AVG. DEPTH)
					SQ YD	TONS	SQ YD	TONS	
102+14.26	CANAL - MARCONI		2488.36	20.00	5,547.47	610.2			5,547
106+13.00	TURNOUT @ VICKSBURG		50.00	VARIES			41.1	4.5	41
110+19.00	TURNOUT @ GENERAL DIAZ		44.00	VARIES			36.1	4.0	36
125+18.00	TURNOUT @ ORLEANS		71.00	VARIES			113.9	12.5	114
EASTBOUND TOTALS						610.2		21.0	5,738.0
NAVARRE AVENUE (WESTBOUND) PAVING QUANTITIES									
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	
102+14.26	CANAL - MARCONI		2488.36	20.00	5,547.47	610.2			5,547
106+13.00	TURNOUT @ VICKSBURG		50.00	VARIES			41.1	4.5	41
110+19.00	TURNOUT @ GENERAL DIAZ		44.00	VARIES			36.1	4.0	36
114+32.00	TURNOUT @ MARSHALL FOCH		52.00	VARIES			44.9	4.9	45
121+16.00	TURNOUT @ W. PARK		57.00	VARIES			57.2	6.3	57
125+09.00	TURNOUT @ ORLEANS		78.00	VARIES			113.9	12.5	114
WESTBOUND TOTALS						610.2		32.3	5,840.0
ADDITIONAL 40% ESTIMATED FOR LEVELING						488.2		21.3	
ROADWAY TOTALS						1,708.6		74.6	11,578



				NAVARRE AVENUE		ORLEANS		SHEET NUMBER 32	
				PAVING QUANTITY SUMMARY TABLE		ER-ERP1(094)		704-36-0074	
DESIGNED: JRS CHECKED: JRS DATE: MAY 2009 SHEET: 27 OF 40		BSR: JRS CHECKED: JRS DATE: MAY 2009 SHEET: 27 OF 40		FEDERAL PROJECT: ER-ERP1(094) STATE PROJECT: 704-36-0074		PARISH: ORLEANS PROJECT: 704-36-0074			

# FINAL PLANS

NAVARRE AVENUE ADA RAMP				
STATION	SIDE OF CL	OFFSET (FEET)	TYPE	
			A	B
106+22	LT	24	1	
106+55	LT	24	1	
106+21	RT	23	1	
106+57	RT	23	1	
110+27	LT	25	1	
110+63	LT	21	1	
110+27	RT	25	1	
110+55	RT	25	1	
114+45	LT	34		1
114+73	LT	33		1
121+27	LT	28	1	
121+60	LT	28	1	
125+24	LT	28	1	
125+26	RT	27	1	
125+75	LT	23		1
125+62	RT	22		1
TOTAL			12	4



SHEET NUMBER		300	
NAVARRE AVENUE		PARISH	ORLEANS
ADA RAMP SUMMARY TABLE		FEDERAL PROJECT	ER-ERP1(094)
		STATE PROJECT	704-36-0074
DESIGNED	BSR	CHECKED	JRS
DATE	MAY 2009	DATE	MAY 2009
BY		BY	
REVISION DESCRIPTION			

## FINAL PLANS

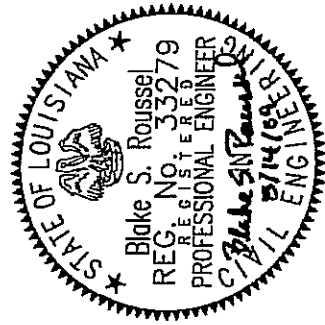
### NOTES:

1. DRAIN MANHOLES, SANITARY SEWER MANHOLES, AND CATCH BASINS ARE TO BE REPAIRED IN ACCORDANCE WITH NEW ORLEANS S&B/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.

NAVARRE AVENUE CATCH BASIN REPAIRS			
STRUCTURE #	CB FRAME & COVER	STATION	DESCRIPTION
387-482-0311	1	124+84	COV
COV -	REPLACE CATCH BASIN FRAME & COVER		

NAVARRE AVENUE MANHOLE REPAIRS			
STRUCTURE #	MANHOLE ADJUST	STATION	DESCRIPTION
387-482-0113	1	110+49	ADJ1
ADJ1 -	ADJUST MANHOLE FRAME AND COVER UP TO 8 INCHES VERTICALLY		

J-56



Stanley Consultants, Inc.				NAVARRE AVENUE				DESIGNED: BSR CHECKED: JRS DATE: May 2009		PARISH: ORLEANS		SHEET NUMBER: 3bb	
UTILITY REPAIR SUMMARY TABLE								DETAILED: BSR CHECKED: JRS DATE: May 2009		FEDERAL PROJECT: ER-ERP1(094)		STATE PROJECT: 704-36-0074	
								BY					
								NO.					
								DATE					
								REVISION DESCRIPTION					

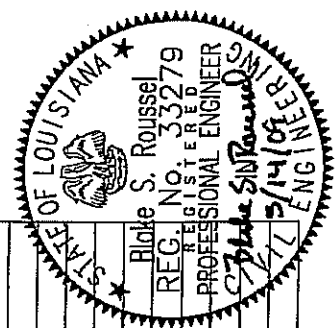


# FINAL PLANS

NAVARRE AVENUE PAVEMENT REPAIR QUANTITIES		
STATION	R/T/LT OF $\frac{1}{2}$	510-01-00200 PAVEMENT PATCHING (12" MINIMUM THICKNESS) (SQ YD)
102+20	LT	4
102+32	LT	22
102+34	LT	11
102+80	LT	44
103+25	LT	10
103+70	LT	4
103+70	LT	17
103+83	LT	35
102+24	RT	12
102+60	RT	13
103+03	RT	38
104+28	LT	45
104+60	LT	15
104+81	LT	9
105+24	LT	9
105+68	LT	18
105+82	LT	27
106+27	LT	11
107+04	LT	19
107+28	LT	7
107+30	LT	7
108+10	LT	28
108+40	LT	7
108+56	LT	11
108+96	LT	30
109+18	LT	9
109+32	LT	26
106+06	RT	13
108+10	RT	7
107+52	RT	21
108+50	RT	14
SUBTOTAL		541

NOTE: THE AREAS AND STATIONS SHOWN ARE ANTICIPATED BASED UPON RECONNAISSANCE AND SITE SURVEY.  
THE PROJECT ENGINEER SHALL VERIFY ACTUAL LOCATIONS AND DIMENSIONS.

NAVARRE AVENUE PAVEMENT REPAIR QUANTITIES (CONT.)		
STATION	R/T/LT OF $\frac{1}{2}$	510-01-00200 PAVEMENT PATCHING (12" MINIMUM THICKNESS) (SQ YD)
108+75	RT	21
108+82	RT	25
110+17	LT	10
111+77	LT	68
113+05	LT	5
113+18	LT	28
113+69	LT	5
114+23	LT	9
114+26	LT	4
114+49	LT	68
114+79	LT	33
114+91	LT	50
115+11	LT	48
115+25	LT	170
116+28	LT	23
118+71	LT	27
110+08	RT	23
110+58	RT	13
110+56	RT	13
112+65	RT	7
112+74	RT	46
116+67	RT	12
117+05	LT	23
119+28	LT	6
122+49	LT	5
122+69	LT	26
123+72	LT	68
119+27	RT	16
120+00	RT	17
122+40	RT	29
122+71	RT	4
123+91	RT	4
124+89	LT	44
125+00	LT	5
125+67	LT	128
SUBTOTAL		1,074





Stanley Consultants, Inc.		NAVARRE AVENUE		ORLEANS	
PAVEMENT REPAIR SUMMARY TABLE		FEDERAL PROJECT		ER-ERP1(094)	
DATE		MAY 2009		STATE PROJECT	
NO.		30 OF 40		704-36-0074	
REVISION DESCRIPTION		REVISION DESCRIPTION		REVISION DESCRIPTION	
NO.		DATE		BY	
SHEET NUMBER		3cc		3cc	

## FINAL PLANS

NAVARRE AVENUE PAVEMENT REPAIR QUANTITIES (CONT.)		
STATION	RT/LT OF $\frac{1}{2}$	516-D1-00200 PAVEMENT PATCHING (12" MINIMUM THICKNESS) (SQ YD)
127+09	LT	4
124+42	RT	4
124+06	RT	182
125+27	RT	64
125+67	RT	158
125+87	RT	227
SUBTOTAL		637
TOTAL		2,282





	<div> <div>NAVARRRE AVENUE</div> <div>PAVEMENT REPAIR SUMMARY TABLE</div> </div>		DESIGNED	BSR	PARISH	ORLEANS	SHEET NUMBER	300
			CHECKED	JMS				
			DATE	MAY 2009	STATE PROJECT	704-36-0074		
			BY	31 OF 40				
			REVISION DESCRIPTION					
			NO.	DATE				




# FINAL PLANS

NAVARRE AVENUE CURB REPAIRS		
STATION	RT/LT OF $\frac{1}{2}$	RECONSTR. CONC. CURB & GUTTER (8" BARRIER) (LN. FT)
105+77	LT	11
106+83	LT	6
106+92	RT	8
108+60	RT	10
110+60	LT	11
111+77	LT	102
114+91	LT	30
118+30	LT	73
112+76	RT	69
117+05	LT	23
117+88	LT	4
119+03	LT	0
120+31	LT	4
120+89	LT	4
121+25	LT	8
122+60	LT	28
123+72	LT	88
120+01	RT	28
122+71	RT	11
124+86	LT	78
124+87	LT	19
125+27	RT	30
125+69	RT	86
127+08	RT	82
TOTAL		815
NOTE: THE STATIONS SHOWN ARE ANTICIPATED BASED UPON RECONNAISSANCE AND SITE SURVEY.		
THE PROJECT ENGINEER SHALL VERIFY ACTUAL LOCATIONS AND DIMENSIONS.		



 Stanley Consultants, Inc.		NAVARRE AVENUE CURB REPAIR SUMMARY TABLE				ORLEANS PARISH PROJECT ER-ERP(094)		BSR CHECKED JRS BSR CHECKED JRS		DATE MAY 2009 SHEET 32 OF 40		STATE PROJECT 704-36-0074		SHEET NUMBER 36	
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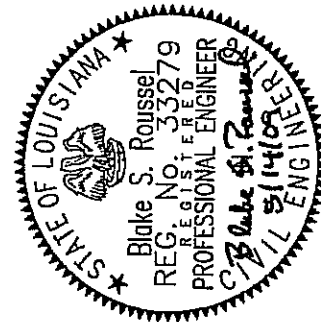
STATE OF LOUISIANA ★  
 ★  
 REG. NO. 33279  
 REGISTERED  
 PROFESSIONAL ENGINEER  
 11/5/14  
 BLAKE S. ROUSSEL  
 ENGINEER

				<p>STANLEY CONSULTANTS, INC.</p>		<p>GALVEZ STREET</p>				<p>NO.      DATE</p>		<p>REVISION DESCRIPTION</p>		<p>BY</p>		<p>DATE</p>		<p>REVISION</p>		<p>PROJECT</p>		<p>STATE</p>		<p>FEDERAL PROJECT</p>		<p>PARISH</p>		<p>ORLEANS</p>		<p>SHEET NUMBER</p>		<p>3 of 3</p>	
														<p>PROJECT</p>		<p>704-36-0035</p>		<p>ER-ERP1(117)</p>		<p>ER-ERP1(117)</p>		<p>REVISION</p>		<p>DATE</p>		<p>MAY 2009</p>		<p>33 OF 40</p>		<p>REVISION</p>		<p>PROJECT</p>	

# FINAL PLANS

## GALVEZ STREET (NORTHBOUND) PAVING QUANTITIES (CONT.)

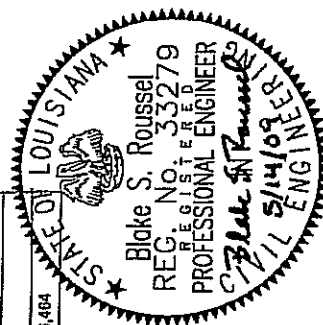
STATION	STATION	DESCRIPTION	EXCEPTION (FEET)	LENGTH (FEET)	AVG. WIDTH (FEET)	502-01-00100 SUPERPAVE ASPHALTIC CONCRETE (2" AVG.)		502-01-00200 SUPERPAVE AC DRIVES, TURNOUTS & MISC (2" AVG.)		509-01-00100 COLD PLANING ASPHALTIC PAVEMENT (2" AVG. DEPTH)	
						SQ YD	TONS	SQ YD	TONS	SQ YD	TONS
117+35	117+87	TURNOUT @ TULANE		VARIES	VARIES			36.44	4.0		36
118+53	118+89	TURNOUT @ BANKS		VARIES	VARIES			43.67	4.8		44
122+43	122+84	TURNOUT @ PALMYRA		VARIES	VARIES			52.22	5.7		52
126+18	126+87	TURNOUT @ CLEVELAND		VARIES	VARIES			42.33	4.7		42
130+00	130+61	TURNOUT @ CANAL		VARIES	VARIES			56.89	6.3		57
130+88	131+47	TURNOUT @ CANAL		VARIES	VARIES			41.44	4.6		41
134+76	135+25	TURNOUT @ IBERVILLE		VARIES	VARIES			32.67	3.6		33
138+02	138+50	TURNOUT @ BIENVILLE		VARIES	VARIES			40.89	4.5		41
138+50	138+95	TURNOUT @ BIENVILLE		VARIES	VARIES			42.89	4.7		43
142+05	142+58	TURNOUT @ CONTI		VARIES	VARIES			47.11	5.2		47
145+25	145+77	TURNOUT @ ST. LOUIS		VARIES	VARIES						
148+81	149+33	TURNOUT @ LAFITTE		VARIES	VARIES						
NORTHBOUND SUBTOTALS							0.0		58.0		526
NORTHBOUND TOTALS							1,725.1		504.0		20,261



		<b>GALVEZ STREET</b>		<b>PARISH</b> ORLEANS		<b>SHEET NUMBER</b> 399	
<b>STANLEY CONSULTANTS, INC.</b>		<b>PAVING QUANTITY SUMMARY TABLE</b>		<b>PROJECT</b> ER-ERP1(117)		<b>STATE PROJECT</b> 704-36-0035	
<b>DESIGNED</b> BSR		<b>CHECKED</b> JRS		<b>DATE</b> MAY 2009		<b>SHEET</b> 34 OF 40	
<b>REVISION DESCRIPTION</b>		<b>NO.</b>		<b>DATE</b>		<b>BY</b>	

## FINAL PLANS

GALVEZ STREET (SOUTHBOUND) PAVING QUANTITIES (CONT.)										
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.)		508-01-00100 COLD PLANNING ASPHALTIC PAVEMENT (2" AVG. DEPTH)
						SQ YD	TONS	SQ YD	TONS	
102+87.71	115+62.00	POVDAS - MEDIAN CROSSEVER		1274.28	28.00	3,954.46	435.1			
115+62.00	116+75.00	MEDIAN CROSSEVER - TULANE		113.00	30.00	376.57	41.4			3,984
116+75.00	118+62.00	TULANE - BANKS		177.00	30.00	590.00	54.9			377
118+62.00	146+41.00	BANKS - MEDIAN CROSSEVER	155.71	2533.29	28.00	6,192.46	801.2			590
146+41.00	148+88.00	MEDIAN CROSSEVER - LAFITTE		247.00	28.00	760.44	84.5			8,192
148+88.00	152+86.00	LAFITTE - MEDIAN TRANSITION		370.00	28.00	1,176.00	128.4			768
152+86.00	154+06.31	MEDIAN TRANSITION - ORLEANS		140.31	28.00	436.52	48.0			1,176
105+75	107+29	TURNOUT @ PERDIDO		VARIES	VARIES			48.80	5.2	437
111+79	112+31	TURNOUT @ GRAVIER		VARIES	VARIES			45.89	5.0	47
116+58	117+15	TURNOUT @ TULANE		VARIES	VARIES			36.44	4.0	48
117+15	117+66	TURNOUT @ TULANE		VARIES	VARIES			36.44	4.0	36
118+15	118+50	TURNOUT @ BANKS		VARIES	VARIES			43.67	4.8	36
118+58	119+05	TURNOUT @ BANKS		VARIES	VARIES			43.67	4.8	44
122+44	122+56	TURNOUT @ PALMYRA		VARIES	VARIES			43.67	4.8	44
125+18	128+60	TURNOUT @ CLEVELAND		VARIES	VARIES			52.22	5.7	52
130+00	130+61	TURNOUT @ CANAL		VARIES	VARIES			42.33	4.7	42
130+88	131+47	TURNOUT @ CANAL		VARIES	VARIES			56.89	6.3	57
134+76	135+25	TURNOUT @ IBERVILLE		VARIES	VARIES			56.89	6.3	57
138+02	138+50	TURNOUT @ BIENVILLE		VARIES	VARIES			41.44	4.6	41
138+50	138+95	TURNOUT @ BIENVILLE		VARIES	VARIES			32.67	3.6	33
142+06	142+58	TURNOUT @ CONTI		VARIES	VARIES			32.67	3.6	33
145+25	145+77	TURNOUT @ ST. LOUIS		VARIES	VARIES			40.89	4.5	41
148+81	149+33	TURNOUT @ LAFITTE		VARIES	VARIES			42.89	4.7	43
SOUTHBOUND TOTALS							1,705.5		77.0	16,203
NORTHBOUND TOTALS							1,725.1		504.0	20,261
ADDITIONAL 40% ESTIMATED FOR LEVELING							1,372.2		232.4	
ROADWAY TOTALS							4,802.8		813.4	36,464

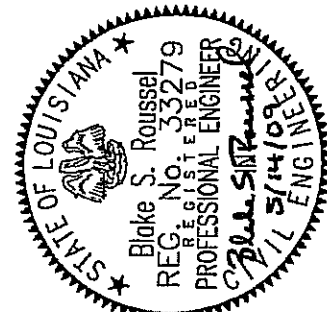
[illegible]

# FINAL PLANS

STATION	SIDE OF CL	OFFSET (FEET)	TYPE	
			A	B
106+05	LT	54	1	
106+30	LT	19		1
106+97	RT	23		1
107+07	RT	55	1	
107+20	LT	53	1	
107+31	LT	19		1
107+38	RT	26		1
107+41	RT	59	1	
111+04	LT	51		1
111+91	LT	57		1
111+93	LT	21		1
112+01	RT	24		1
112+13	RT	59	1	
112+22	LT	54	1	
112+42	RT	25		1
112+45	RT	60	1	
115+68	LT	56	1	
115+80	RT	24		1
115+83	RT	54	1	
117+12	LT	57		1
117+15	LT	59		1
117+34	RT	63	1	
117+38	RT	62	1	
117+63	LT	51	1	
117+70	LT	17		1
117+78	RT	23		1
117+82	RT	58	1	
118+23	LT	56	1	
118+54	LT	58		1
118+57	RT	56	1	
118+61	LT	59		1
118+94	RT	79	1	
118+98	LT	54	1	
119+01	LT	21		1
SUBTOTAL			15	19

STATION	SIDE OF CL	OFFSET (FEET)	TYPE	
			A	B
119+01	RT	25		1
122+48	LT	21		1
122+49	RT	25		1
122+51	LT	55	1	
122+53	RT	60	1	
122+87	LT	54	1	
122+87	RT	63	1	
122+89	LT	21		1
122+89	RT	24		1
126+20	LT	22		1
126+20	RT	24		1
126+25	LT	54	1	
126+27	RT	59	1	
126+58	RT	56	1	
126+59	LT	55	1	
128+65	LT	22		1
128+65	RT	24		1
129+85	RT	24		1
129+96	LT	22		1
130+02	LT	52		1
130+07	RT	50	1	
130+56	RT	58		1
130+91	RT	56		1
131+38	RT	58	1	
131+44	LT	52		1
131+44	LT	22		1
131+44	RT	24		1
134+79	LT	22		1
134+79	RT	24		1
134+83	LT	54	1	
134+84	RT	56	1	
135+16	LT	56	1	
135+16	RT	56	1	
135+22	LT	22		1
SUBTOTAL			14	20

STATION	SIDE OF CL	OFFSET (FEET)	TYPE	
			A	B
135+22	RT	24		1
138+08	LT	23		1
138+08	RT	24		1
138+09	RT	55	1	
138+12	LT	55	1	
138+66	LT	56	1	
138+88	RT	56	1	
138+81	LT	23		1
138+82	RT	24		1
142+08	LT	22		1
142+09	RT	23		1
142+14	LT	55	1	
142+14	RT	56	1	
142+49	LT	55	1	
142+49	RT	56	1	
142+53	RT	23		1
142+54	LT	22		1
145+27	LT	23		1
145+28	RT	22		1
145+33	RT	55	1	
145+88	LT	57	1	
145+70	RT	56	1	
145+74	LT	23		1
145+74	RT	23		1
148+77	LT	18		1
148+78	RT	20		1
148+80	LT	55	1	
148+89	RT	53	1	
148+14	LT	67		1
149+21	LT	50		1
149+26	RT	53	1	
149+28	LT	10		1
149+30	RT	20		1
SUBTOTAL			14	19
TOTAL			43	58



Stanley Consultants, Inc.

**GALVEZ STREET**

ADA RAMP SUMMARY TABLE

DATE: \_\_\_\_\_

BY: \_\_\_\_\_

REVISION DESCRIPTION: \_\_\_\_\_

DESIGNED: \_\_\_\_\_

CHECKED: \_\_\_\_\_

BSR: \_\_\_\_\_

BSR: \_\_\_\_\_

DATE: MAY 2009

SHEET: 36 OF 40

PARCH: ORLEANS

FEDERAL PROJECT: ER-ERP1(117)

STATE PROJECT: 704-36-0035

SHEET NUMBER: 311

## Notes:

1. DRAIN MANHOLES, SANITARY SEWER MANHOLES, AND CATCH BASINS ARE TO BE REPAIRED IN ACCORDANCE WITH NEW ORLEANS S&W DEP. 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 LATERS.

GALVEZ STREET STORM DRAIN PIPE REPAIRS*									
UPSTREAM		DOWNSTREAM	ASSET SIZE		ASSET	BEGIN STATION /		END STATION /	
MANHOLE	MANHOLE	MANHOLE	(INCH)		MATERIAL	OFFSET	OFFSET	OFFSET	LENGTH
									(FT)
393-470-0179		393-470-0180	18		CO	107+14 / -44		107+18 / -10	34
393-470-0200		393-470-0201	18		V.C.	112+20 / -46		112+23 / -12	34
393-472-0268		393-472-0269	18		CO	122+75 / -47		122+78 / -8	39
393-472-0274		393-472-0275	18		V.C.	122+55 / -47		122+58 / -7	40
TOTAL =									147

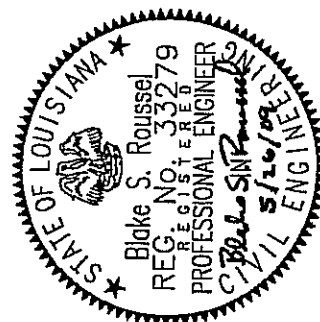
\*INDICATES NON-ER PARTICIPATING ITEM 701-03-01020 STORM DRAIN PIPE (18")

GALVEZ AVENUE MANHOLE REPAIRS					
STRUCTURE #	MANHOLE ADJUST	DRAIN MANHOLE FRAME & COVER	STATION	OFFSET	DESCRIPTION
393-470-0114	1		105+27	-46	ADJ1
393-470-0115	1		105+91	-58	ADJ1
393-470-0179	1		107+14	-45	ADJ1
393-470-0205		1	112+37	+50	COV
393-472-0074		1	116+97	+47	COV
393-472-0273	1		122+59	-86	ADJ1
393-472-0268	1		122+76	-47	ADJ1
393-472-0266	1		122+60	+48	ADJ1
393-472-0282	1		122+77	+49	ADJ1
393-472-0029	1		126+60	+49	ADJ1
393-472-0028	1		127+94	-49	ADJ1
396-472-0252	1	1	138+04	-49	RFC1
396-474-0044	1		142+42	-49	ADJ1
183-020*	1		107+05	-40	ADJ1
183-045*	1		107+89	+45	ADJ1
183-044*	1		109+93	+43	ADJ1
183-046*	1				ADJ1
200-052*	1		122+50	+43	ADJ1
200-058*	1		122+69	+29	ADJ1
200-055*			122+69	+43	ADJ2
200-053*	1		122+88	+43	ADJ1
200-057*	1		122+69	-31	ADJ1
200-007*	1		122+73	-26	ADJ1
200-006*	1		122+89	-25	ADJ1
200-048*	1		126+48	-53	ADJ1
271-055*	1		142+31	-54	ADJ1
TOTAL =	23	3			
ADJ1 -			ADJUST MANHOLE FRAME AND COVER UP TO 8 INCHES VERTICALLY		
ADJ2 -			ADJUST MANHOLE FRAME AND COVER OVER 8 INCHES VERTICALLY		
RFC1 -			REPLACE MANHOLE FRAME AND COVER AND ADJUST UP TO 8 INCHES VERTICALLY		
COV -			REPLACE MANHOLE COVER		
*INDICATES SEWER MANHOLE					

GALVEZ STREET CATCH BASIN REPAIRS						
STRUCTURE #	TYPE A CB ADJUST.	REHAB. EXIST. CATCH BASINS*	CB FRAME & COVER	STATION	OFFSET	DESCRIPTION
393-470-0271		1	1	112+86	+54	COV - LIN
393-472-0555	1			119+31	-50	ADJ1
393-472-0535	1	1		125+85	+54	ADJ1 - LIN
396-472-0479	1			128+89	+54	ADJ1
396-472-0478	1		1	128+27	+53	RFC1
398-472-0455	1	1	1	137+68	-51	RFC1 - LIN
396-474-0644		1	1	153+78	-48	COV - LIN
TOTAL =	5	4	4			
LIN -	INSTALL FULL-DEPTH CEMENTITIOUS LINER IN MAN-HOLE					
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					

\*INDICATES NONER PARTICIPATING ITEM

#INDICATES NON-ER PARTICIPATING ITEM

[illegible]

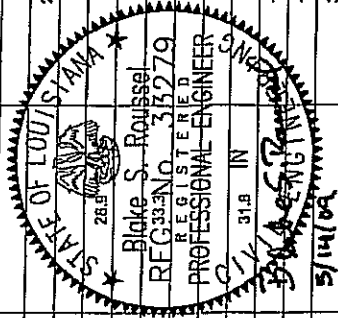


# FINAL PLANS

GALVEZ STREET PAVEMENT REPAIR QUANTITIES					
STATION	RT/LT OF £	510-01-00100 PAVEMENT PATCHING (SQ YD)	CONC. PMVT. REPAIR (18.0 SQ YD AND UNDER) (SQ YD)	CONC. PMVT. REPAIR (18.1 - 48.0 SQ YD) (SQ YD)	CONC. PMVT. REPAIR (48.1 SQ YD AND OVER) (SQ YD)
103+36	LT	18	18.0		
104+58	LT	10	9.8		
104+81	LT	33		33.3	
103+16	RT	73			73.3
104+57	RT	49			48.9
105+30	LT	5	5.3		
105+43	LT	40		40.3	
105+73	LT	11	11.0		
105+93	LT	100			100.0
106+23	LT	118			118.2
106+86	LT	11	10.7		
107+01	LT	30		30.0	
107+30	LT	11	10.7		
108+11	LT	84			84.4
109+72	LT	252			251.7
110+51	LT	122			122.4
110+57	LT	12	11.6		
111+00	LT	93			92.9
111+03	LT	61			61.1
111+79	LT	33		33.3	
106+48	RT	11	10.7		
106+89	RT	57			56.7
107+03	RT	7	7.0		
107+04	RT	16	16.0		
108+12	RT	147			146.7
108+63	RT	13	13.0		
108+47	RT	9	9.3		
108+04	RT	6	6.0		
110+25	RT	20		19.0	
110+81	RT	30		30.0	
110+84	RT	13	13.3		
SUBTOTAL		1,495	162.4	186.5	1,156.3

NOTE: THE AREAS AND STATIONS SHOWN ARE ANTICIPATED BASED UPON  
RECONNAISSANCE AND SITE SURVEY.  
THE PROJECT ENGINEER SHALL VERIFY ACTUAL LOCATIONS AND DIMENSIONS.

GALVEZ STREET PAVEMENT REPAIR QUANTITIES (CONT.)					
STATION	RT/LT OF £	510-01-00100 PAVEMENT PATCHING (SQ YD)	CONC. PMVT. REPAIR (18.0 SQ YD AND UNDER) (SQ YD)	CONC. PMVT. REPAIR (18.1 - 48.0 SQ YD) (SQ YD)	CONC. PMVT. REPAIR (48.1 SQ YD AND OVER) (SQ YD)
110+97	RT	173			
111+00	RT	13	13.3		173.1
111+78	RT	13	13.3		
111+81	RT	156			156.0
112+57	LT	44		44.0	
113+35	LT	4	4.0		
114+87	LT	10	10.0		
115+59	LT	8	6.2		
115+77	LT	13	13.3		
116+58	LT	78			78.2
116+73	LT	6	6.2		
114+41	RT	19		19.4	
116+77	RT	40		40.0	
117+18	RT	27		26.7	
117+93	RT	16	16.0		
118+07	RT	95			
119+43	LT	70			85.3
121+73	LT	67			66.9
122+46	LT	278			277.8
123+17	LT	12	12.2		
123+13	LT	29			
123+58	LT	15	14.7		
124+57	LT	33			
124+71	LT	15	15.1		
125+39	LT	71			70.9
119+72	RT	32			
121+48	RT	127			126.7
121+65	RT	181			180.9
122+75	RT	387			386.7
123+85	RT	4	4.0		
123+89	RT	215			215.1
124+56	RT	4	4.0		
124+69	RT	24		24.4	
125+61	RT	4	4.0		
126+12	LT	44		44.0	
SUBTOTAL		2,326	136.3	282.5	1,897.3



		<b>GALVEZ STREET</b>		<b>PAVEMENT REPAIR SUMMARY TABLE</b>	
SHEET NUMBER <b>3kk</b>		PARISH ORLEANS		FEDERAL PROJECT ER-ERP1(117)	
DATE MAY 2009		BSR CHECKED JRS		STATE PROJECT 704--36--0035	
BY [Signature]		BSR DETAILED JRS		DATE MAY 2009	
REVISION DESCRIPTION		BSR CHECKED JRS		DATE MAY 2009	

# FINAL PLANS

## GALVEZ STREET PAVEMENT REPAIR QUANTITIES (CONT.)

STATION	RT/LT OF	510-01-00100 PAVEMENT PATCHING (SQ YD)	CONC. P.VMT. REPAIR (18.0 SQ YD AND UNDER) (SQ YD)	CONC. P.VMT. REPAIR (18.1 - 48.0 SQ YD) (SQ YD)	CONC. P.VMT. REPAIR (48.1 SQ YD AND OVER) (SQ YD)
126+45	LT	20		20.0	
127+80	LT	25		25.3	
128+41	LT	225			226.1
128+84	LT	21		20.7	
128+80	RT	50			50.0
128+17	RT	150			150.3
128+68	RT	52			52.0
128+92	RT	21		21.3	
132+12	RT	8	7.8		
133+06	LT	109			109.3
134+28	LT	18		18.3	
135+10	LT	11	11.1		
135+79	LT	29		28.9	
137+51	LT	5	4.7		
138+08	LT	40		40.0	
138+07	LT	9	9.3		
133+07	RT	205			205.3
133+49	RT	7	7.1		
134+91	RT	312			312.0
135+07	RT	21		20.8	
135+53	RT	27		20.7	
136+19	RT	11	11.3		
135+23	RT	18	18.0		
138+59	RT	25		24.9	
138+63	RT	80			90.0
140+55	LT	5	4.7		
140+80	LT	5	8.0		
141+54	LT	73			73.1
142+38	LT	44		43.5	
143+13	LT	48			48.9
143+88	LT	6	6.2		
145+44	LT	38		37.8	
145+84	LT	7	6.7		
140+85	RT	17	17.1		
141+46	RT	178			178.0
SUBTOTAL		1,933	110.0	320.1	1,483.0

## GALVEZ STREET PAVEMENT REPAIR QUANTITIES (CONT.)

STATION	RT/LT OF	510-01-00100 PAVEMENT PATCHING (SQ YD)	CONC. P.VMT. REPAIR (18.0 SQ YD AND UNDER) (SQ YD)	CONC. P.VMT. REPAIR (18.1 - 48.0 SQ YD) (SQ YD)	CONC. P.VMT. REPAIR (48.1 SQ YD AND OVER) (SQ YD)
142+40	RT	317			316.7
142+89	RT	68			68.4
143+06	RT	7	7.1		
144+52	RT	49			48.9
145+33	RT	70			70.0
145+78	RT	22			21.8
147+81	LT	20			20.0
149+05	LT	8	8.0		
149+67	LT	25		24.7	
150+81	LT	57			56.7
152+31	LT	9	9.3		
153+46	LT	51			51.1
153+78	LT	12	12.0		
149+42	RT	8	8.0		
145+81	RT	29		28.7	
150+41	RT	20		20.0	
152+54	RT	217			216.7
153+79	RT	18	18.0		
153+82	RT	49			48.9
SUBTOTAL		1,055	62.4	116.2	877.4
TOTAL		8,809	461.1	922.3	5,426.0

## GALVEZ STREET BUS PAD REPAIR QUANTITIES

STATION	RT/LT OF	BUS PAD REPAIR (SQ YD)
116+40	RT	80.0
122+00	RT	80.0
127+00	LT	81.3
129+50	RT	82.7
153+50	RT	86.1
SUBTOTAL		412.1

NOTE: THE AREAS AND STATIONS SHOWN ARE ANTICIPATED BASED UPON RECONNAISSANCE AND SITE SURVEY. THE PROJECT ENGINEER SHALL VERIFY ACTUAL LOCATIONS AND DIMENSIONS.




		<p>GALVEZ STREET</p>		<p>PAVEMENT/BUS PAD REPAIR SUMMARY TABLE</p>	
<p>PROJECT NO. 704-36-0035</p>		<p>DATE: May 2009</p>		<p>BY: [Signature]</p>	
<p>STATE PROJECT</p>		<p>LOCAL PROJECT</p>		<p>ORLEANS</p>	
<p>704-36-0035</p>		<p>ER-ERP1(117)</p>		<p>311</p>	

## FINAL PLANS

GALVEZ STREET CURB REPAIRS					
STATION	RT/LT OF C.	DRILLED AND DOWELED BARRIER CURB (LNFT)	DOWELED BARRIER CURB (LNFT)	DRILLED AND DOWELED MOUNTABLE CURB (LNFT)	RESET STONE CURB (LN. FT)
103+93	LT				7
103+83	RT				6
105+11	LT				23
105+95	LT				30
109+71	LT				15
108+13	RT				120
105+85	RT				0
110+27	RT				18
114+27	LT				15
118+58	LT		22		
118+58	LT		22		
118+84	RT				100
121+35	LT				19
122+32	LT				106
125+82	LT				84
125+03	RT				80
128+23	LT				178
131+82	LT				58
128+15	RT				115
128+55	RT				24
129+48	RT				6
131+84	RT				41
133+50	LT				78
133+43	LT				51
133+13	RT		28		
133+28	RT				82
137+84	RT				41
141+53	LT				47
143+11	LT				40
145+11	LT				58
141+15	RT				35
SUBTOTAL		0	72	0	1437

NOTE: THE STATIONS SHOWN ARE ANTICIPATED BASED UPON RECONNAISSANCE AND SITE SURVEY. THE PROJECT ENGINEER SHALL VERIFY ACTUAL LOCATIONS AND DIMENSIONS.



**Stanley Consultants, Inc.**

GALVEZ STREET




SHEET NUMBER	3mm
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PARISH	ORLEANS
FEDERAL PROJECT	ER-ERP1(117)
STATE PROJECT	704-36-0035

DESIGNED	BSR
CHECKED	JRS
DETAILED	BSR
CHECKED	JRS
DATE	May 2009
SHEET	40 OF 40

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GALVEZ STREET
CURB REPAIR SUMMARY TABLE



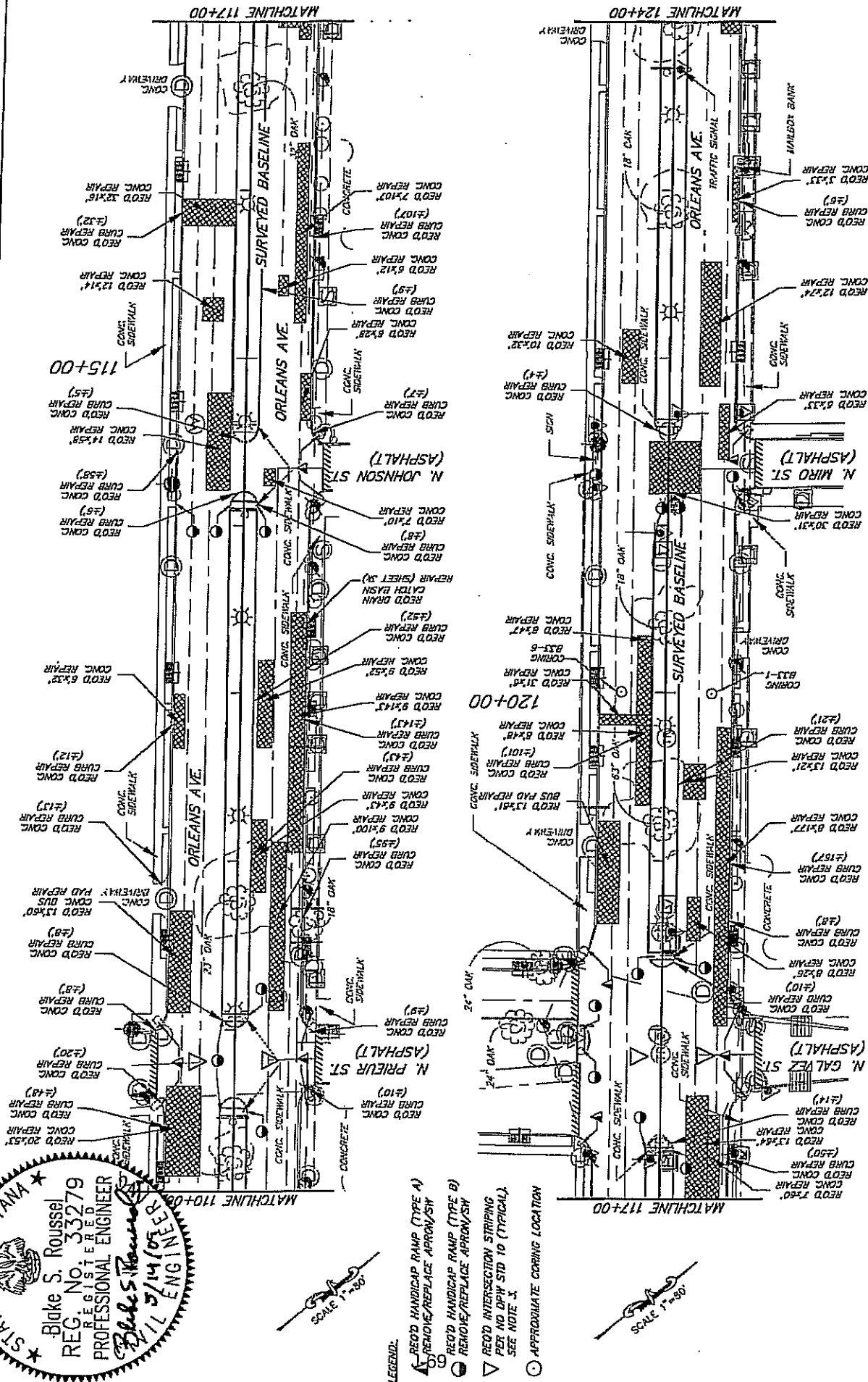
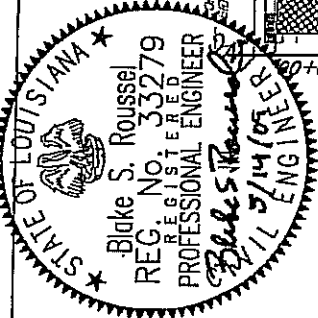
Stanley  
Consultants,  
INC.

A circular professional engineer seal for the State of Louisiana. The outer ring contains the text "STATE OF LOUISIANA" at the top and "PROFESSIONAL ENGINEER" at the bottom, separated by two stars. In the center, the text reads "Blake S. Roussel", "REG. NO. 33279", and "REGISTERED PROFESSIONAL ENGINEER". To the left of the name is a small emblem of a pelican feeding its young in a nest. To the right of the name is a handwritten signature "Blake S. Roussel" and the date "5/14/09".

PLA	PLA
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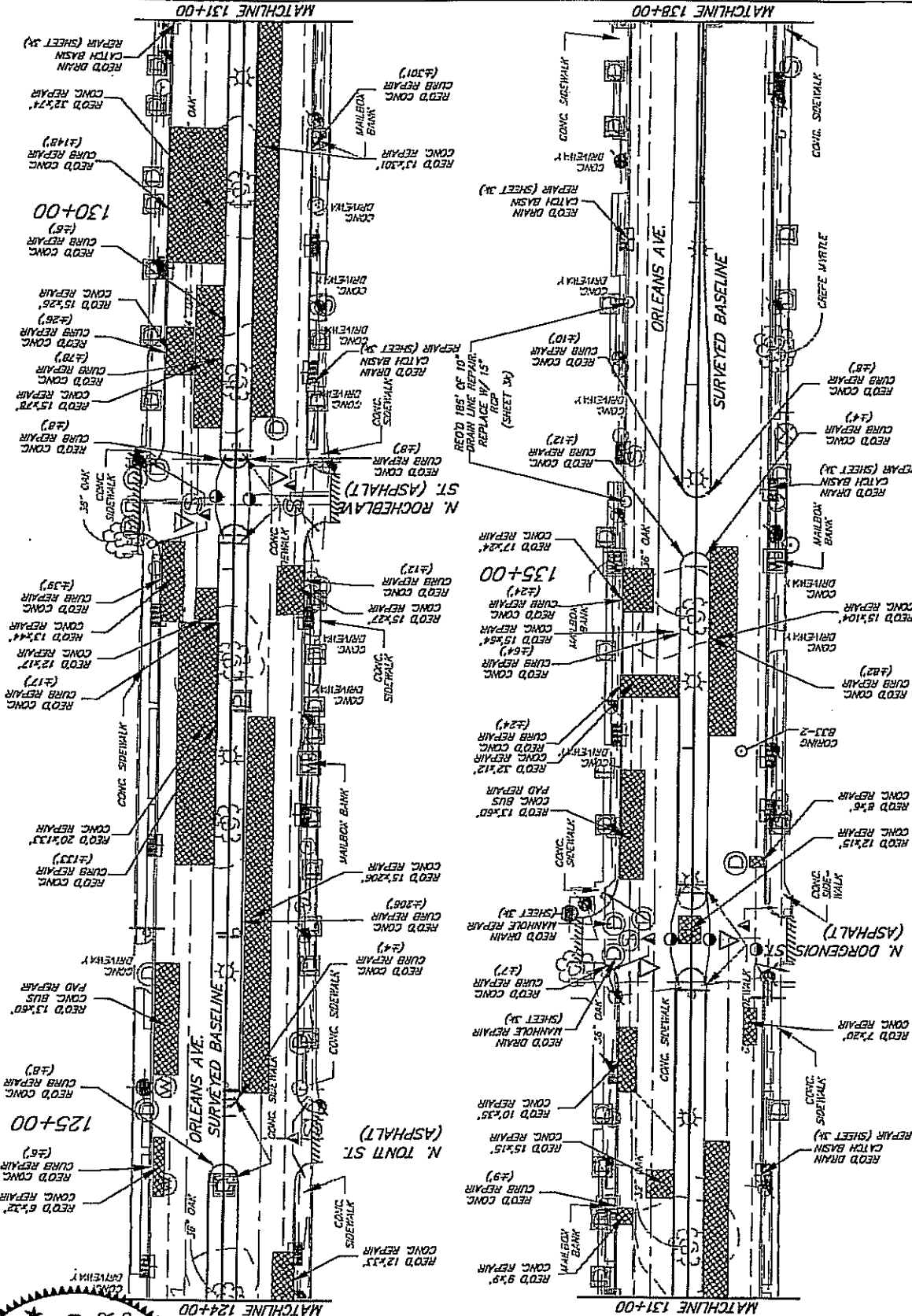
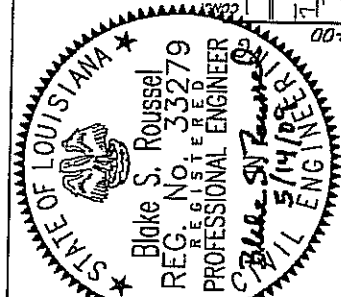


FINAL PLANS

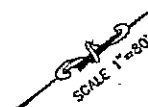


SHEET NUMBER		5
ORLEANS		
PARRISH	ORLEANS	
FEDERAL PROJECT	ER-ERP1(058)	
STATE PROJECT	704-36-0042	
DATE	FEB 2009	
SHEET	2 OF 13	
BY		
DATE		
REVISION DESCRIPTION		
ORLEANS AVENUE		
PLAN SHEET		
STANLEY CONSULTANTS INC.		

FINAL PLANS

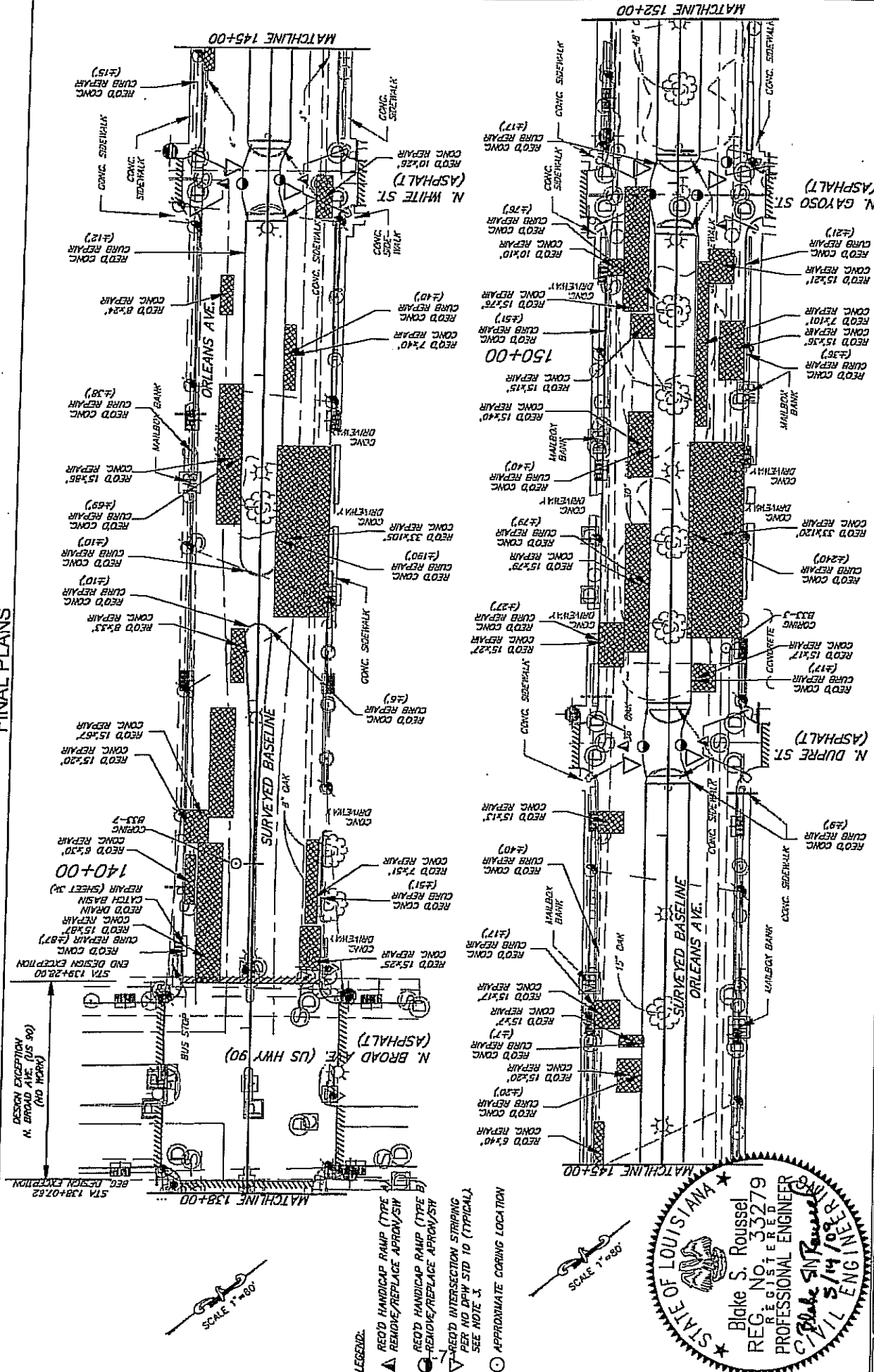


- LEGEND:
- ▲ RECD HANDICAP RAMP (TYPE A)  
REMOVE/REPLACE APRON/SW
  - RECD HANDICAP RAMP (TYPE B)  
REMOVE/REPLACE APRON/SW
  - ▽ RECD INTERSECTION STRIPING  
PER NO DPM STD 10 (TYPICAL).  
SEE NOTE 3.
  - APPROXIMATE CORING LOCATION



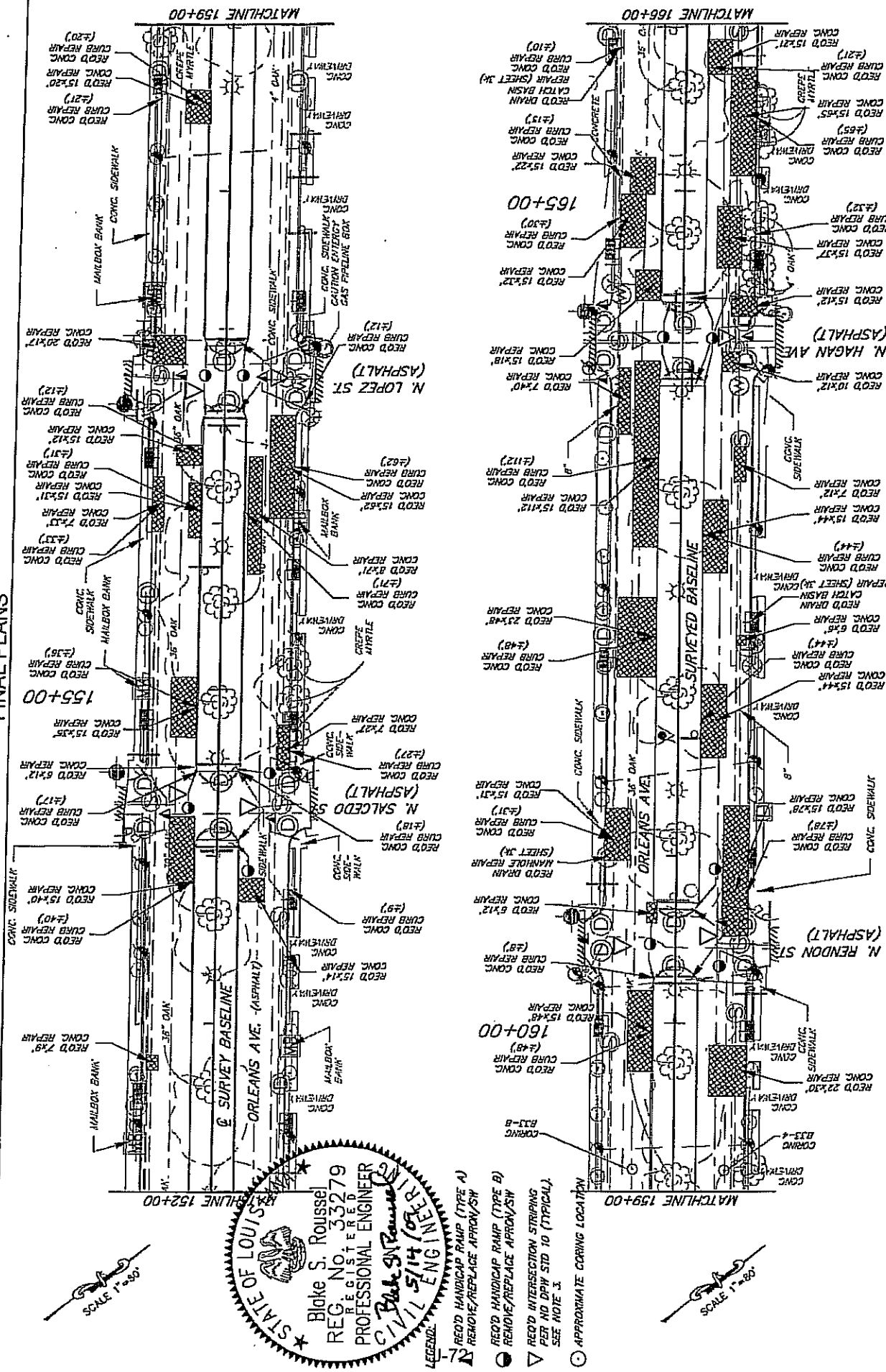
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PROJECT		ER-ERP1(058)		704-36-0042	
DATE		FEB 2009		3 OF 13	
BY		REVISION DESCRIPTION		DATE	
PLAN SHEET		ORLEANS AVENUE		STANLEY CONSULTANTS INC.	

FINAL PLANS



SHEET NUMBER		7	
ORLEANS		ER-ERP1(058)	
FEDERAL PROJECT		704-36-0042	
STATE PROJECT		704-36-0042	
REMOVED BSR		BAS	
CHECKED URS		BSR	
DATE		FEB 2009	
BY		4 OF 13	
REVISION DESCRIPTION		DATE	
NO.		DATE	
ORLEANS AVENUE		PLAN SHEET	
STANLEY CONSULTANTS INC.			

FINAL PLANS



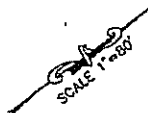
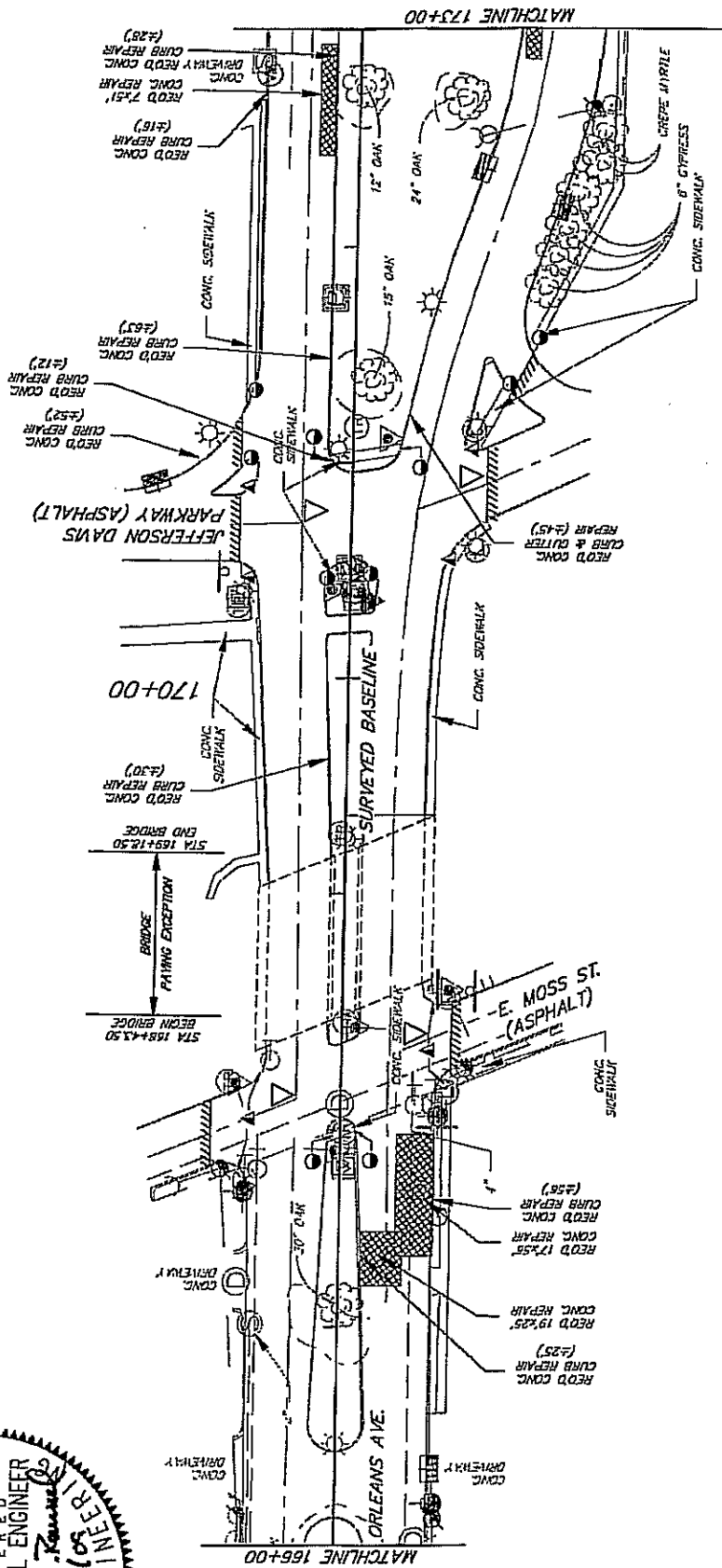
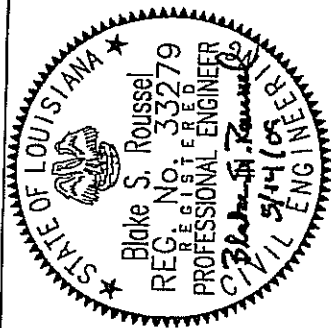
STATE OF LOUISIANA  
Blake S. Roussel  
REG. NO. 33279  
PROFESSIONAL ENGINEER  
CIVIL ENGINEER  
5/14/09

- LEGEND
- RECD HANDICAP RAMP (TYPE A)  
REMOVE/REPLACE APRON/SW
  - RECD HANDICAP RAMP (TYPE B)  
REMOVE/REPLACE APRON/SW
  - RECD INTERSECTION STRIPING  
PER MD DOT STD 10 (TYPICAL)  
SEE NOTE 3
  - APPROXIMATE CORING LOCATION

SHEET NUMBER		8	
ORLEANS		ER-ERP1(05B)	
PARISH		STATE PROJECT	
BSR		704-36-0042	
BSR		FEB 2009	
BSR		5 OF 13	
BSR		DATE	
BSR		BY	
BSR		DESCRIPTION	
ORLEANS AVENUE		PLAN SHEET	
STANLEY CONSULTANTS INC.			



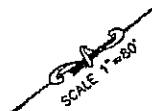
FINAL PLANS



J-73

- LEGEND:
- REPAIR HANDICAP RAMP (TYPE A)
  - REMOVE/REPLACE APRON/SW
  - REPAIR HANDICAP RAMP (TYPE B)
  - REMOVE/REPLACE APRON/SW
  - REPAIR INTERSECTION STRIPING PER MD DPM STD 10 (TYPICAL) SEE NOTE 3
  - APPROXIMATE CORING LOCATION

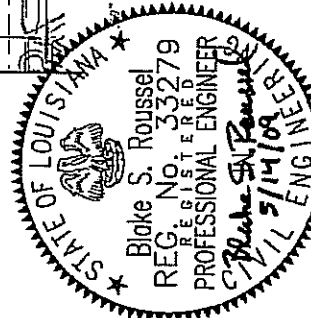
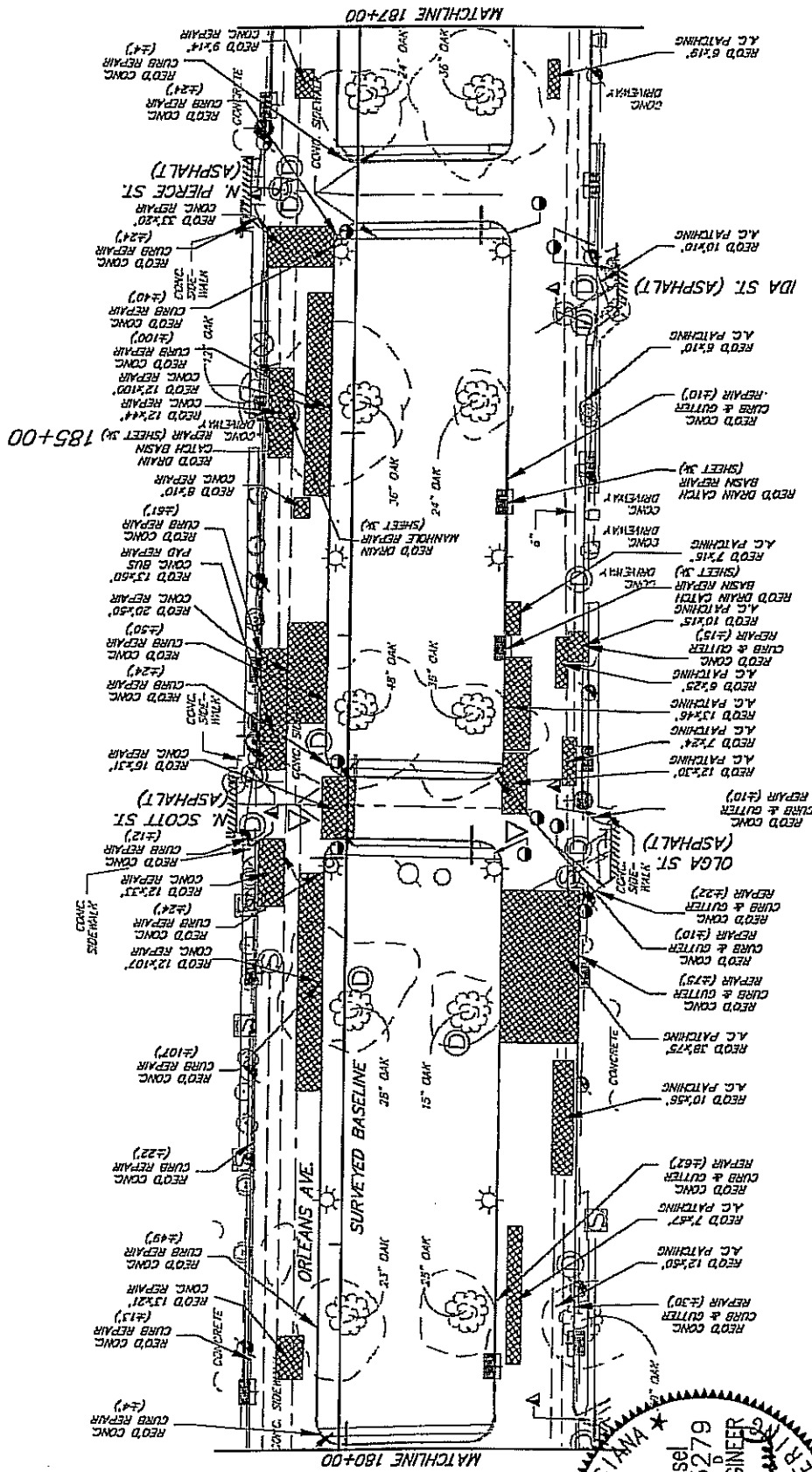
SHEET NUMBER		9	
PROJECT		ORLEANS	
FEDERAL PROJECT		ER-ERP1(058)	
STATE PROJECT		704-36-0042	
DATE		FEB 2009	
SHEET		6 OF 13	
REVISION DESCRIPTION		BT	
NO.		DATE	
ORLEANS AVENUE		PLAN SHEET	
STANLEY CONSULTANTS INC.		bora	



- LEGEND:**
- ▲ REQ'D HANDICAP RAMP (TYPE A)  
REMOVE/REPLACE APRON/SW
  - REQ'D HANDICAP RAMP (TYPE B)  
REMOVE/REPLACE APRON/SW
  - ▽ REQ'D INTERSECTION STRIPING  
PER MD DOT STD 10 (TYPICAL).  
SEE NOTE 1.
  - ⊙ APPROXIMATE CORING LOCATION

[illegible]

# FINAL PLANS

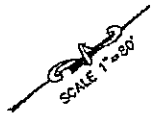
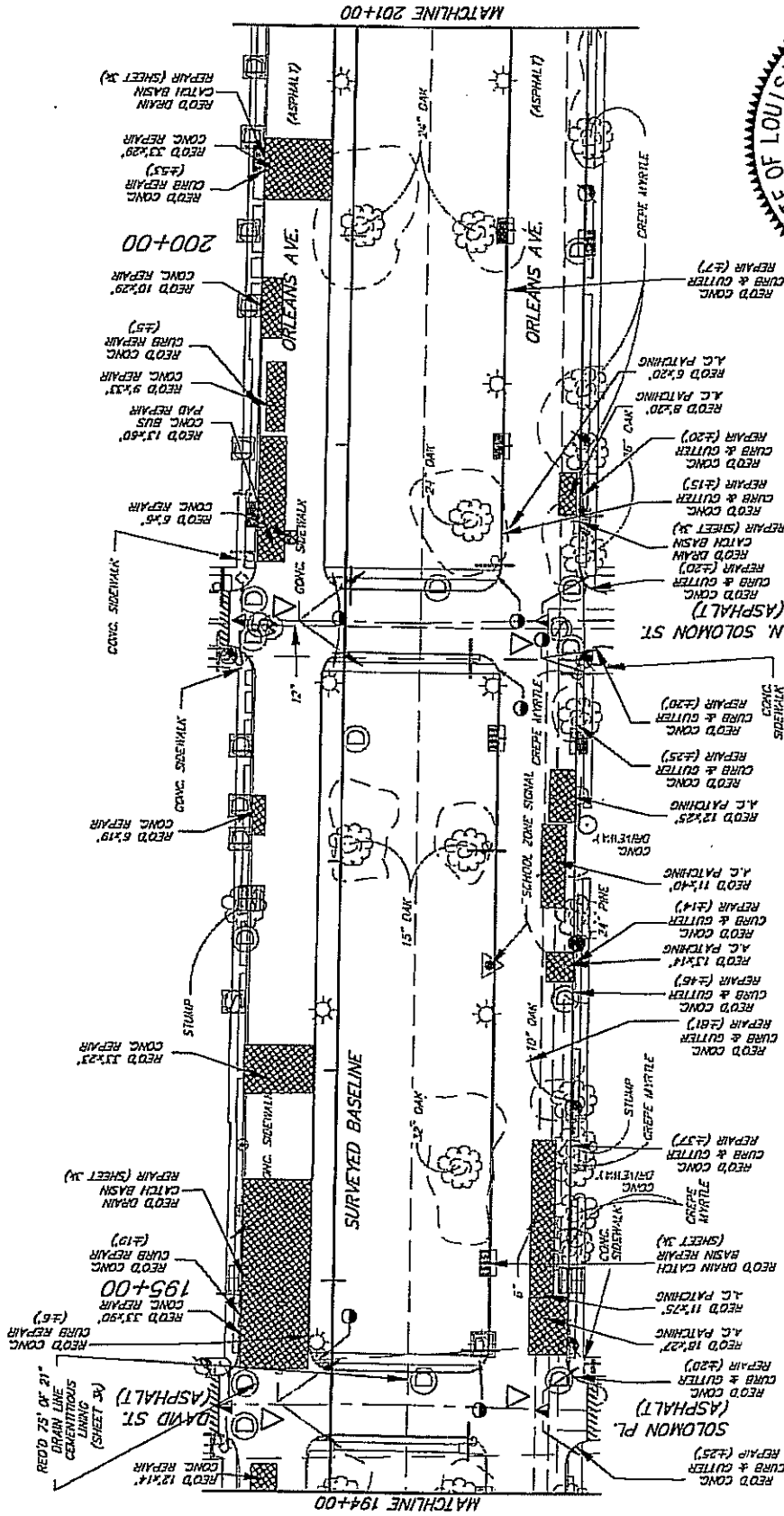


- LEGEND:**
- RED'D HANDICAP RAMP (TYPE A)
  - REMOVE/REPLACE APRON/SH
  - RED'D HANDICAP RAMP (TYPE B)
  - REMOVE/REPLACE APRON/SH
  - RED'D INTERSECTION STRIPING PER MD DPM STD 10 (TYPICAL) SEE NOTE 3
  - APPROXIMATE CORING LOCATION

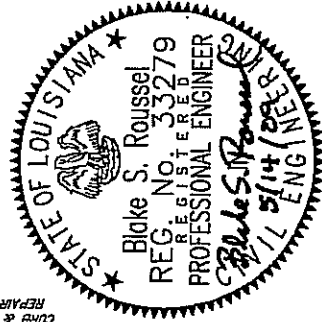
<p><b>ORLEANS AVENUE</b></p>	<p><b>ORLEANS</b></p>	<p><b>ER-ERP1(058)</b></p>	<p><b>704-36-0042</b></p>
<p><b>PLAN SHEET</b></p>	<p><b>DATE</b></p>	<p><b>REVISION DESCRIPTION</b></p>	<p><b>BY</b></p>
<p><b>STANLEY CONSULTANTS INC.</b></p>	<p><b>DATE</b></p>	<p><b>DATE</b></p>	<p><b>DATE</b></p>



FINAL PLANS



J-77

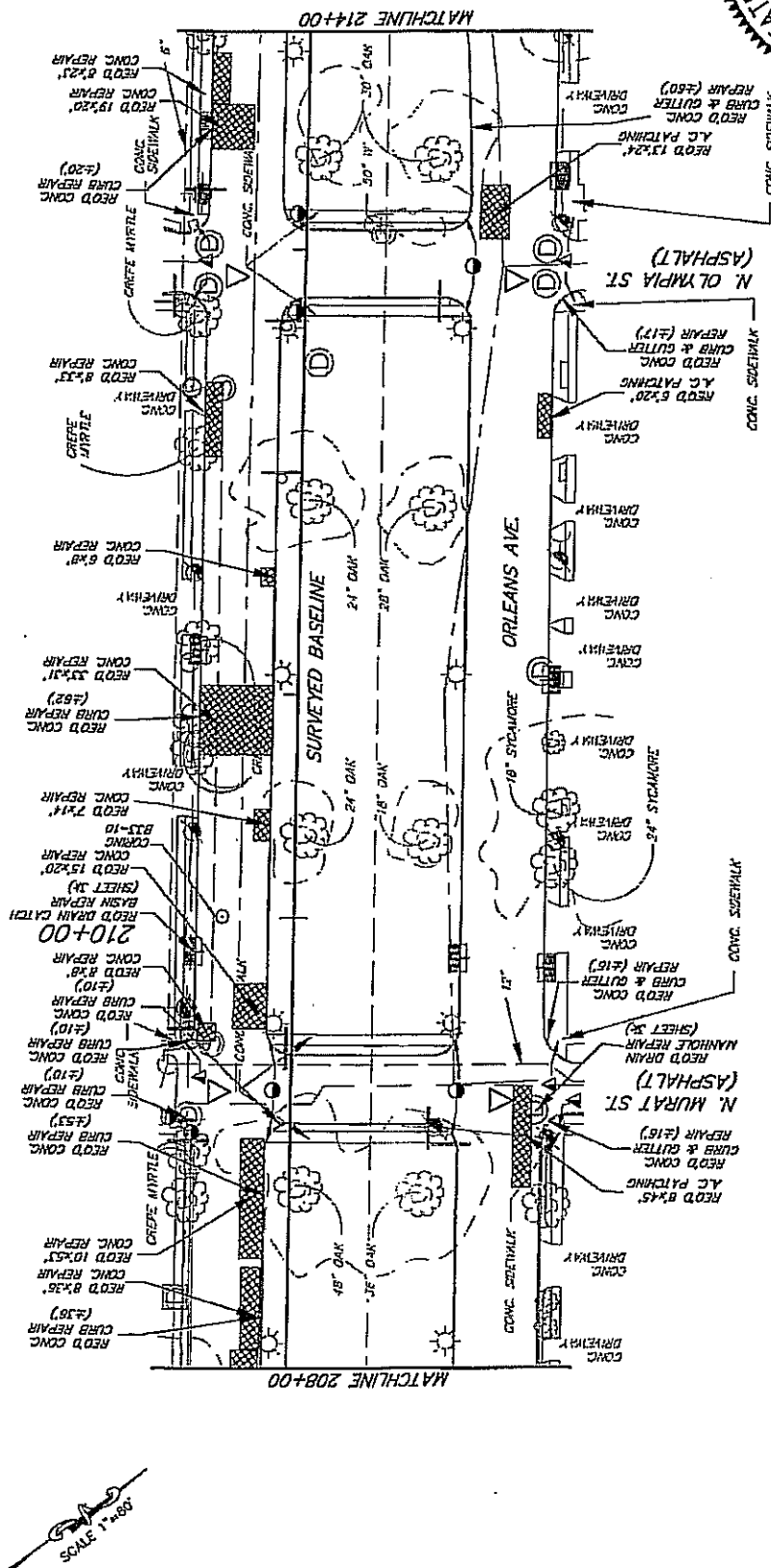


- LEGEND:
- ▲ RECD HANDICAP RAMP (TYPE A)  
REMOVE/REPLACE APRON/SW
  - RECD HANDICAP RAMP (TYPE B)  
REMOVE/REPLACE APRON/SW
  - ▽ RECD INTERSECTION STRIPING  
PER MD DPH STD 10 (TYPICAL)  
SEE NOTE 3
  - APPROXIMATE CORING LOCATION





SHEET NUMBER 13	
ORLEANS AVENUE	
PARRISH	ORLEANS
FEDERAL PROJECT	ER-ERP1(058)
STATE PROJECT	704-36-0042
DATE	FEB 2009
SHEET	10 OF 13
REVISION DESCRIPTION	
NO.	DATE
PLAN SHEET	
STANLEY CONSULTANTS INC.	

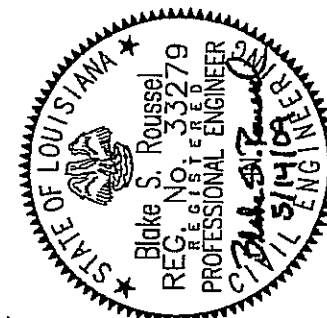


## FINAL PLANS

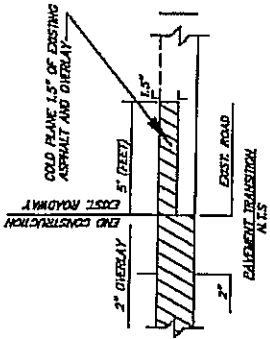
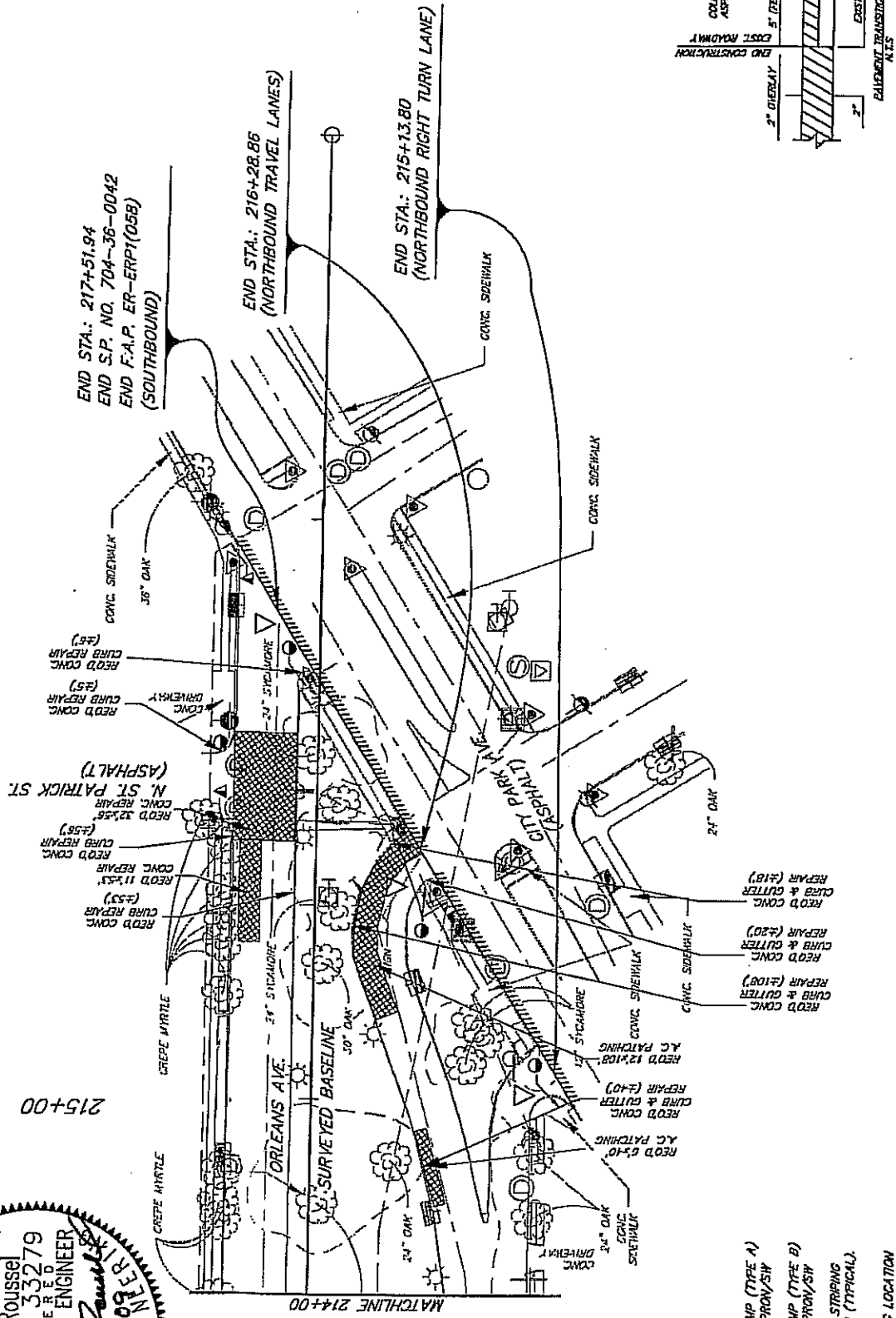


**LEGEND:**

	REQ'D HANDICAP RAMP (TYPE A) REMOVE/REPLACE APRON/SW
	REQ'D HANDICAP RAMP (TYPE B) REMOVE/REPLACE APRON/SW
	REQ'D INTERSECTION STRIPING PER MD DOT STD 10 (TYPICAL). SEE NOTE 3.
	APPROXIMATE CORING LOCATION

[illegible]

FINAL PLANS



- LEGEND:
- ▲ RECD HANDICAP RAMP (TYPE A)  
REMOVE/REPLACE APRON/SW
  - RECD HANDICAP RAMP (TYPE B)  
REMOVE/REPLACE APRON/SW
  - ▽ RECD INTERSECTION STRIPING  
PER MD DPM STD 10 (TYPICAL).  
SEE NOTE 3.
  - APPROXIMATE CORING LOCATION

SHEET NUMBER		16
PROJECT		ORLEANS
FUNDING		ER-ERP1(05B)
STATE PROJECT		704-36-0042
DATE		FEB 2009
BY		13 OF 13
REVISION DESCRIPTION		
DATE		
BY		
ORLEANS AVENUE		PLAN SHEET
STANLEY CONSULTANTS INC.		



FINAL PLANS

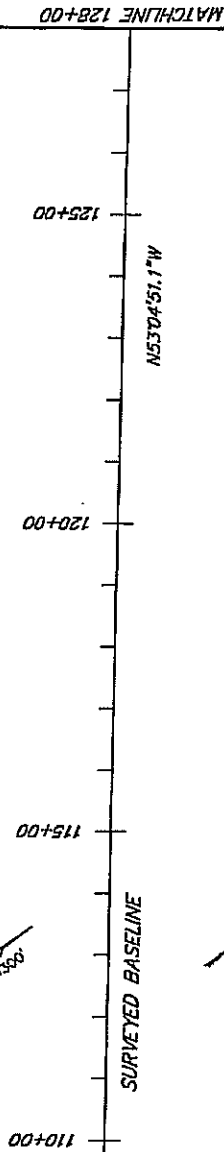
BEGIN STA.: 101+00.00  
BEGIN S.P. NO. 704-36-0042  
BEGIN F.A.P. NO. ER-ERP1(058)

N 534760.95  
E 3679774.70  
STA 101+00  
0' LT

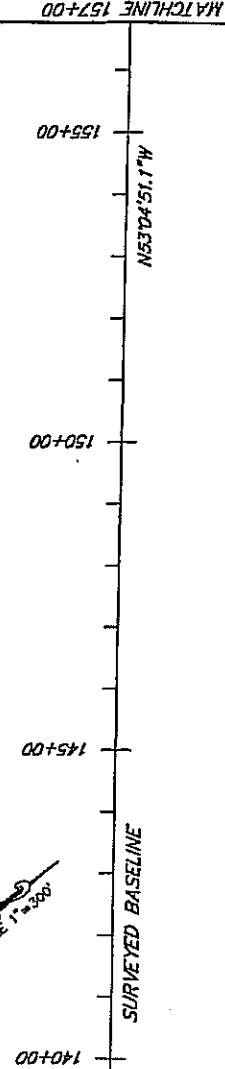
N 534700.88  
E 3679854.65  
STA 100+00  
0' RT



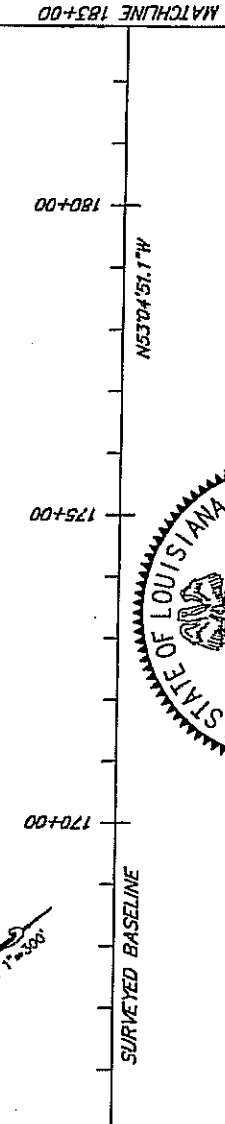
SURVEYED BASELINE



SURVEYED BASELINE



SURVEYED BASELINE



- NOTES:
1. HORIZONTAL CONTROL POINTS WERE ESTABLISHED BY G.P.S. STATIC OBSERVATIONS ON SEPTEMBER 29, 2002.
  2. COORDINATES SHOWN HEREON ARE NAD83, HARN (HPN) STATE PLANE, 1702 LA SOUTH ZONE, US SURVEY FOOT.
  3. VERTICAL CONTROL NOT REQUIRED.

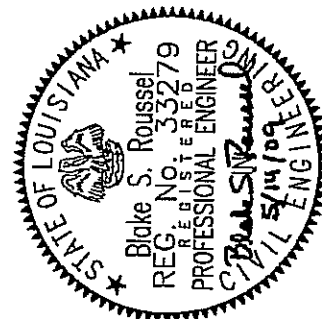
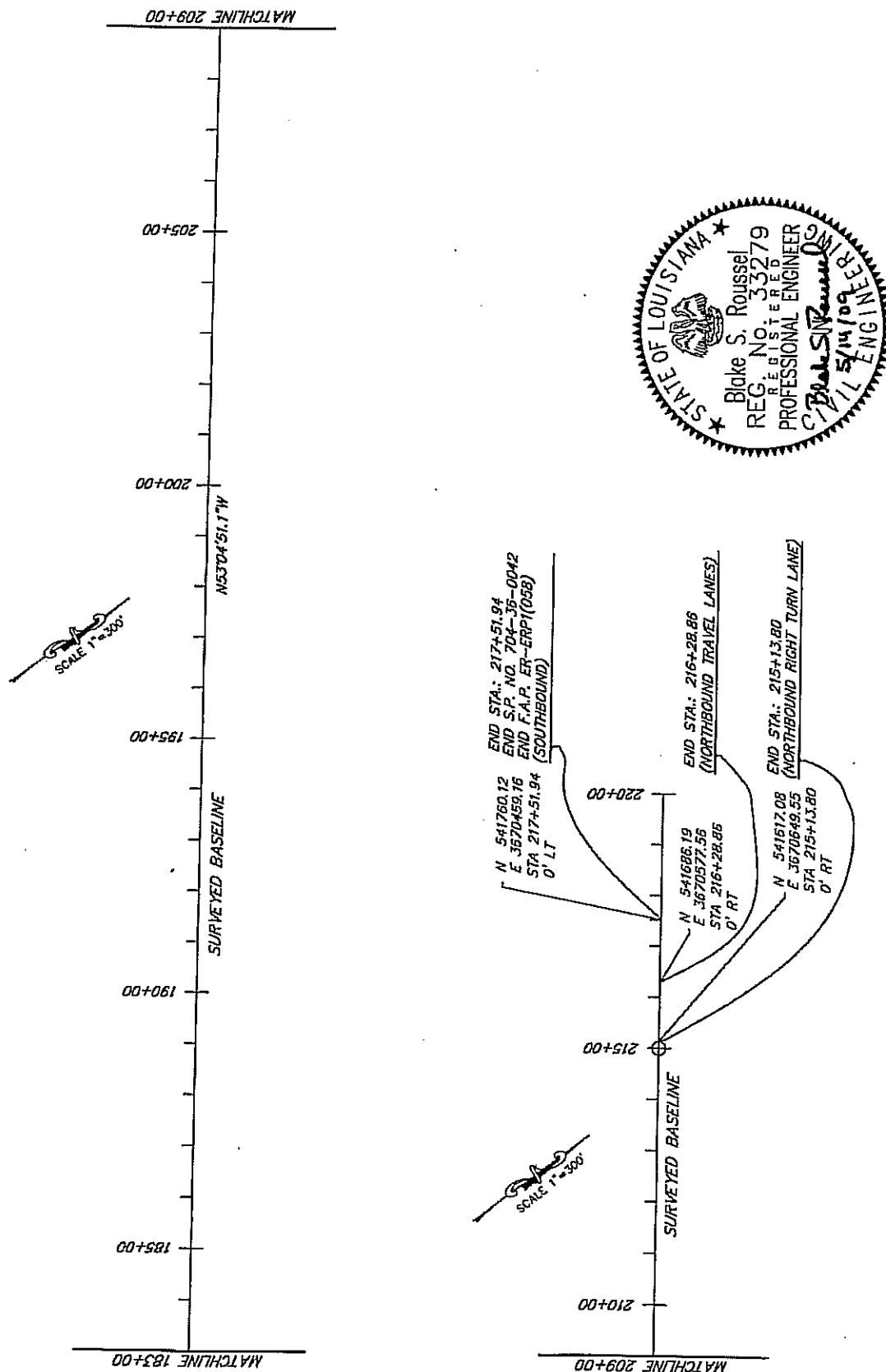


ORLEANS AVENUE

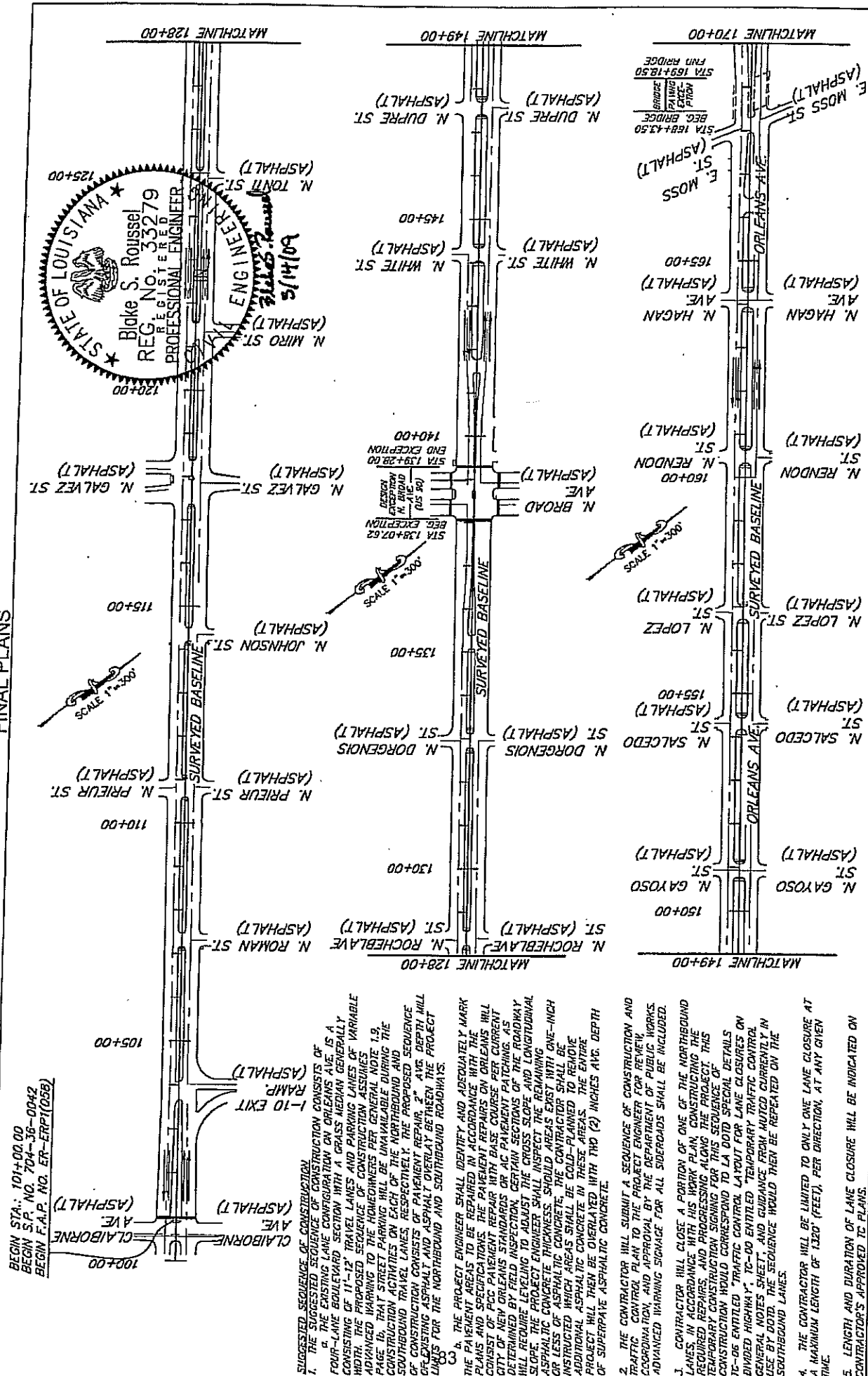
GEOMETRIC LAYOUT

SHEET NUMBER	17
PARISH	ORLEANS
FEDERAL PROJECT	ER-ERP1(058)
STATE PROJECT	704-36-0042
BSR	BSR
CHECKED LRS	CHECKED LRS
DATE	FEB 2009
SHEET	1 OF 2

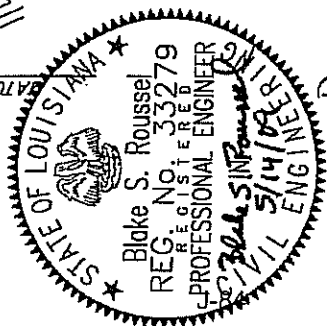
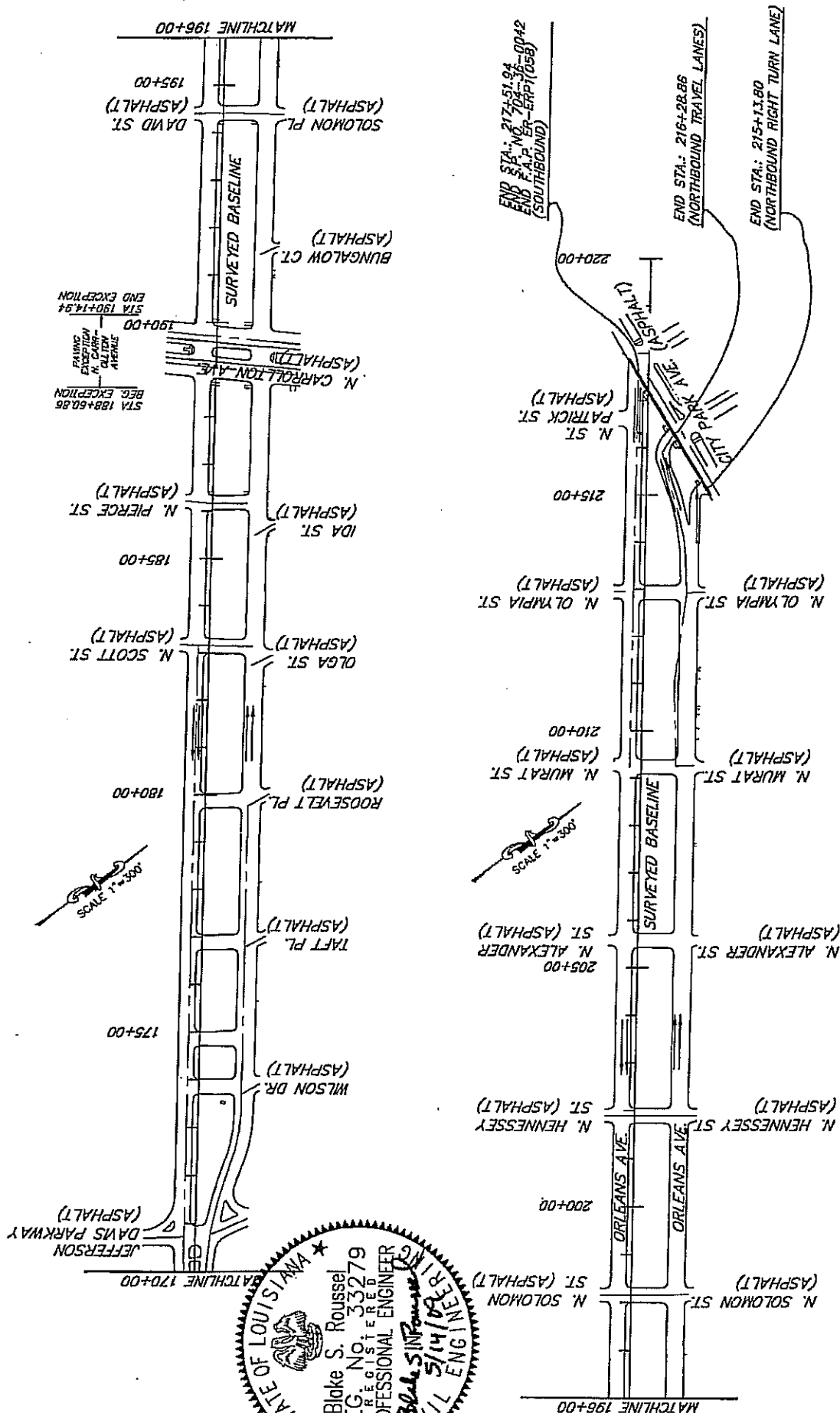
REVISION DESCRIPTION	BY	DATE



[illegible]

FINAL PLANS

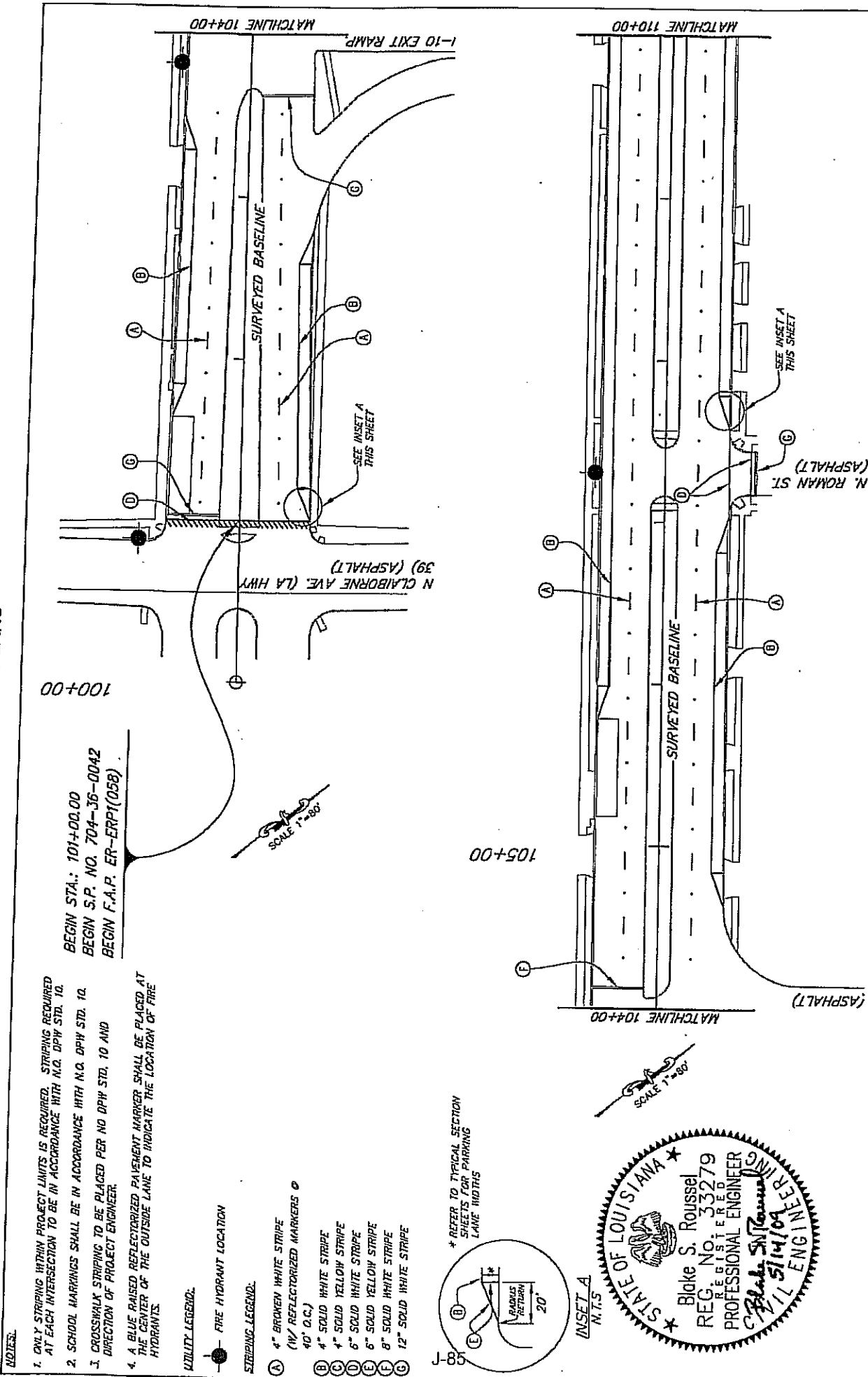


SHEET NUMBER		16	
ORLEANS		ER-ERP1(05B)	
FEDERAL PROJECT		704-36-0042	
DESIGNED BSR		FEB 2009	
CHECKED BSR		1 OF 2	
DATE		BY	
REVISION DESCRIPTION		DATE	
NO.		DATE	
ORLEANS AVENUE		SUGGESTED SEQUENCE OF CONSTRUCTION	
STANLEY CONSULTANTS INC.			



	ORLEANS AVENUE			REMOVED CHECKED	BSR LARS	PARISH PROJECT	ORLEANS	SHEET NUMBER	20
	SUGGESTED SEQUENCE OF CONSTRUCTION			DETAILED CHECKED	BAS BSR				
NO.		DATE	REMOVED DESCRIPTION	DATE SHEET	FEB 2009 2 OF 2	STATE PROJECT	704-35-0042		

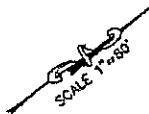
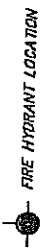
# FINAL PLANS



SHEET NUMBER		21
PROJECT		ORLEANS
PARISH		ORLEANS
FEDERAL PROJECT		ER-ERP1(058)
STATE PROJECT		704-36-0042
DATE		FEB 2009
BY		1 OF 13
REVISION DESCRIPTION		
NO.		DATE
ORLEANS AVENUE		STRIPING PLAN
STANLEY CONSULTANTS INC.		

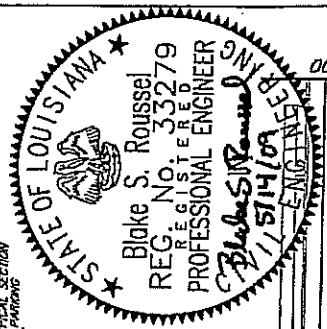
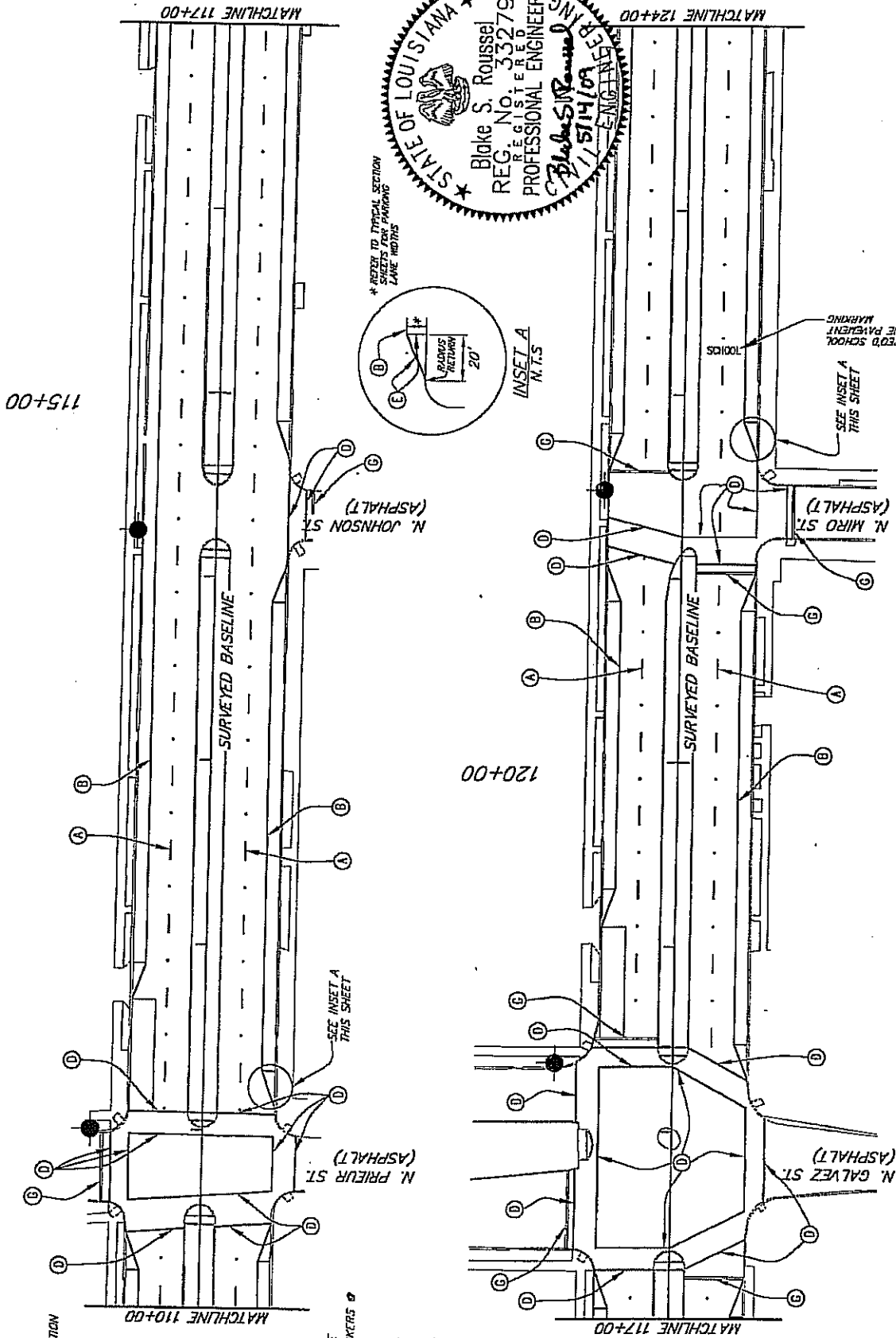
FINAL PLANS

UTILITY LEGEND:



STRIPING LEGEND:

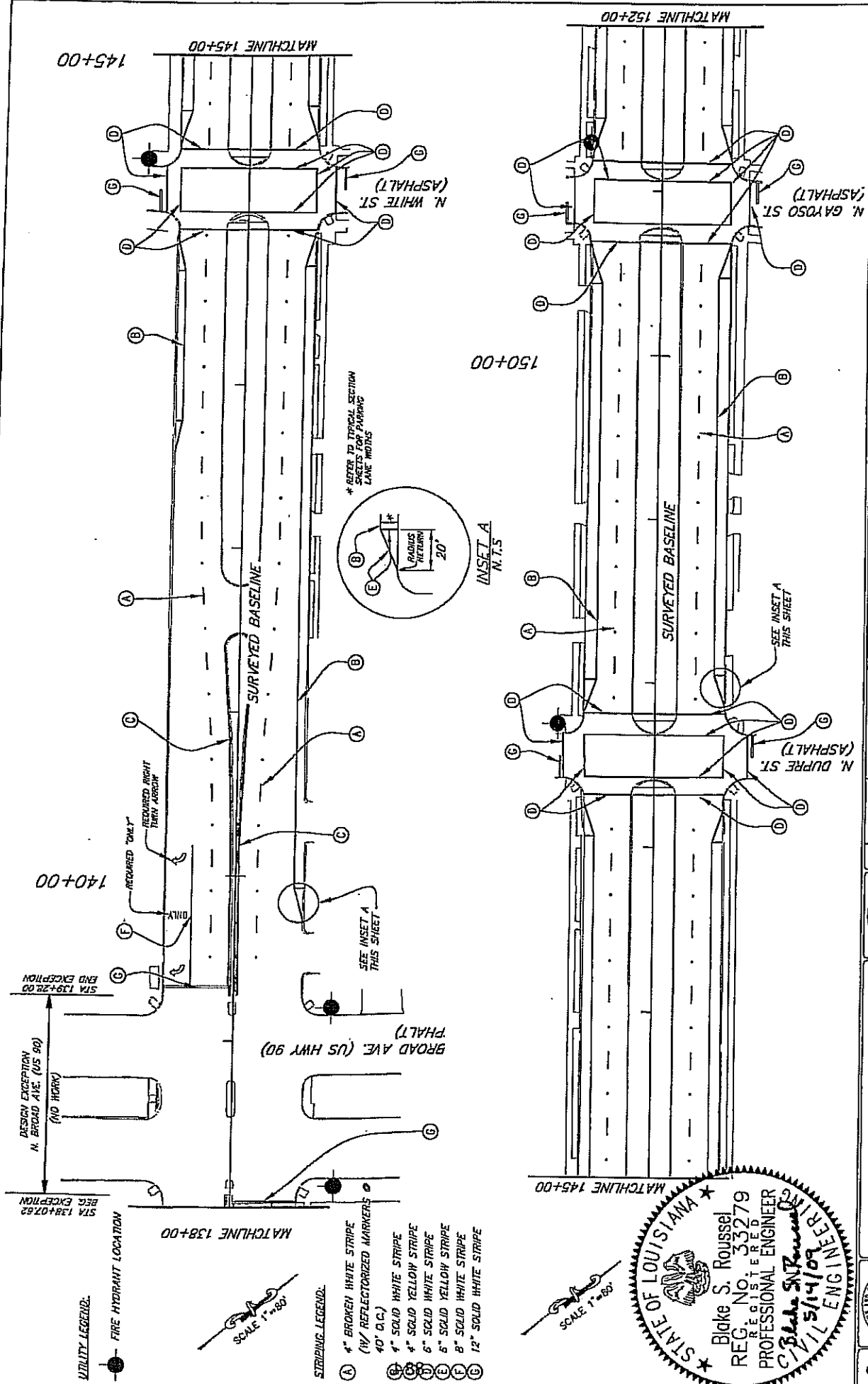
- (A) 4" BROKEN WHITE STRIPE  
(1/4" REFLECTORIZED MARKERS @  
40' O.C.)
- (B) 4" SOLID WHITE STRIPE
- (C) 6" SOLID YELLOW STRIPE
- (D) 6" SOLID WHITE STRIPE
- (E) 8" SOLID YELLOW STRIPE
- (F) 8" SOLID WHITE STRIPE
- (G) 12" SOLID WHITE STRIPE



SHEET NUMBER		22	
PROJECT		ORLEANS	
FEDERAL PROJECT		ER-ERP1(058)	
STATE PROJECT		704-36-0042	
DATE		FEB 2009	
SHEET		2 OF 13	
BY			
REVISION DESCRIPTION			
NO.		DATE	
ORLEANS AVENUE		STRIPING PLAN	
STANLEY CONSULTANTS INC.			



# FINAL PLANS

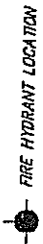


SHEET NUMBER		24
PROJECT		ORLEANS
FEDERAL PROJECT		ER-ERP1(058)
STATE PROJECT		704-36-0042
DATE		MAY 2009
BY		4 OF 13
REVISION DESCRIPTION		
NO.		
DATE		
ORLEANS AVENUE		
STRIPING PLAN		
STANLEY CONSULTANTS INC.		

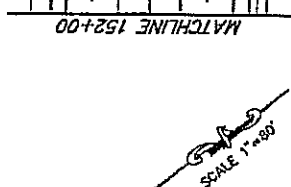


FINAL PLANS

UTILITY LEGEND:



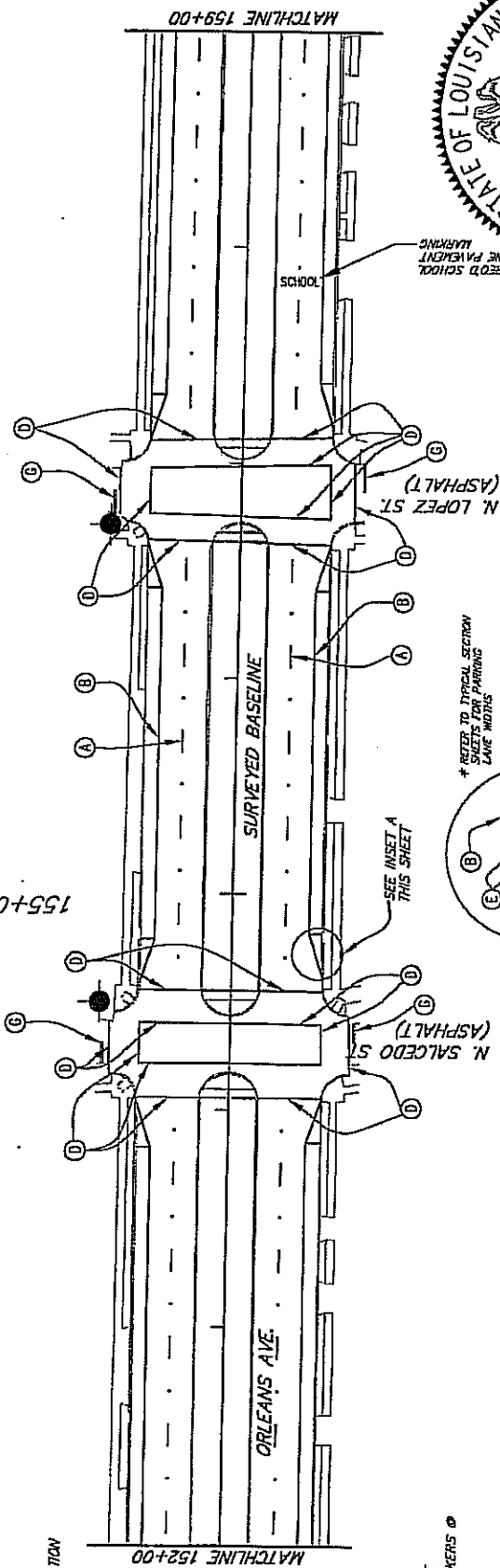
FIRE HYDRANT LOCATION



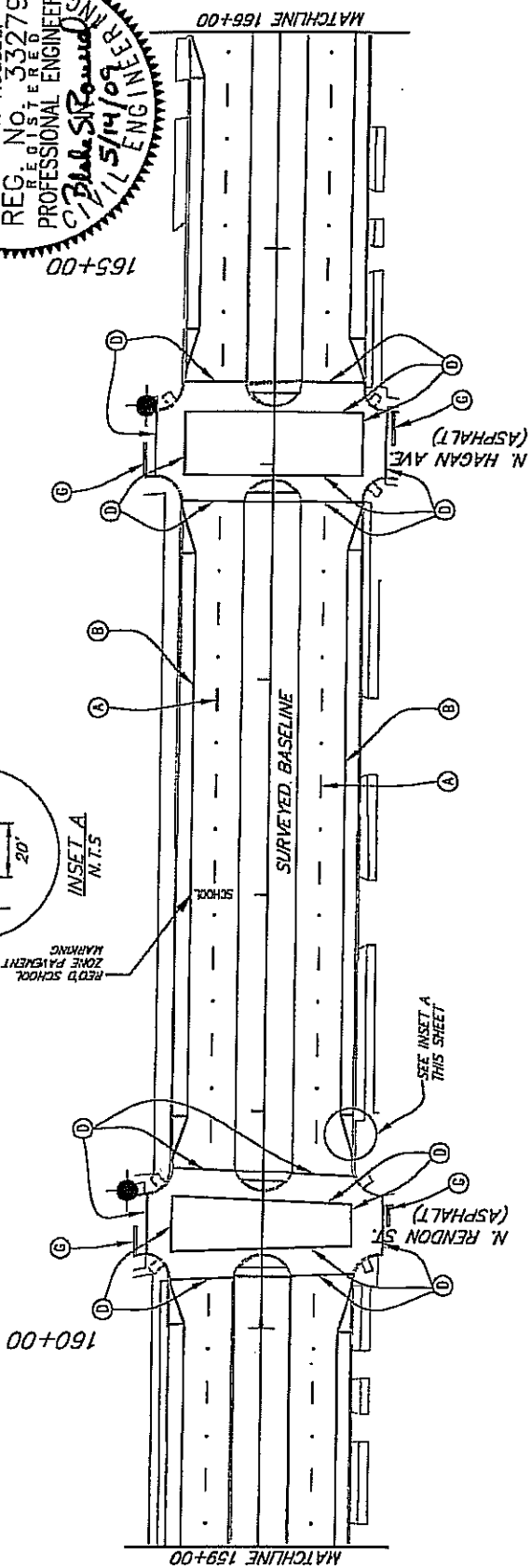
STRIPING LEGEND:

- 4" BROKEN WHITE STRIPE (1/4" REFLECTORIZED MARKERS @ 40' O.C.)
- 4" SOLID WHITE STRIPE
- 4" SOLID YELLOW STRIPE
- 6" SOLID WHITE STRIPE
- 6" SOLID YELLOW STRIPE
- 8" SOLID WHITE STRIPE
- 12" SOLID WHITE STRIPE

155+00



160+00



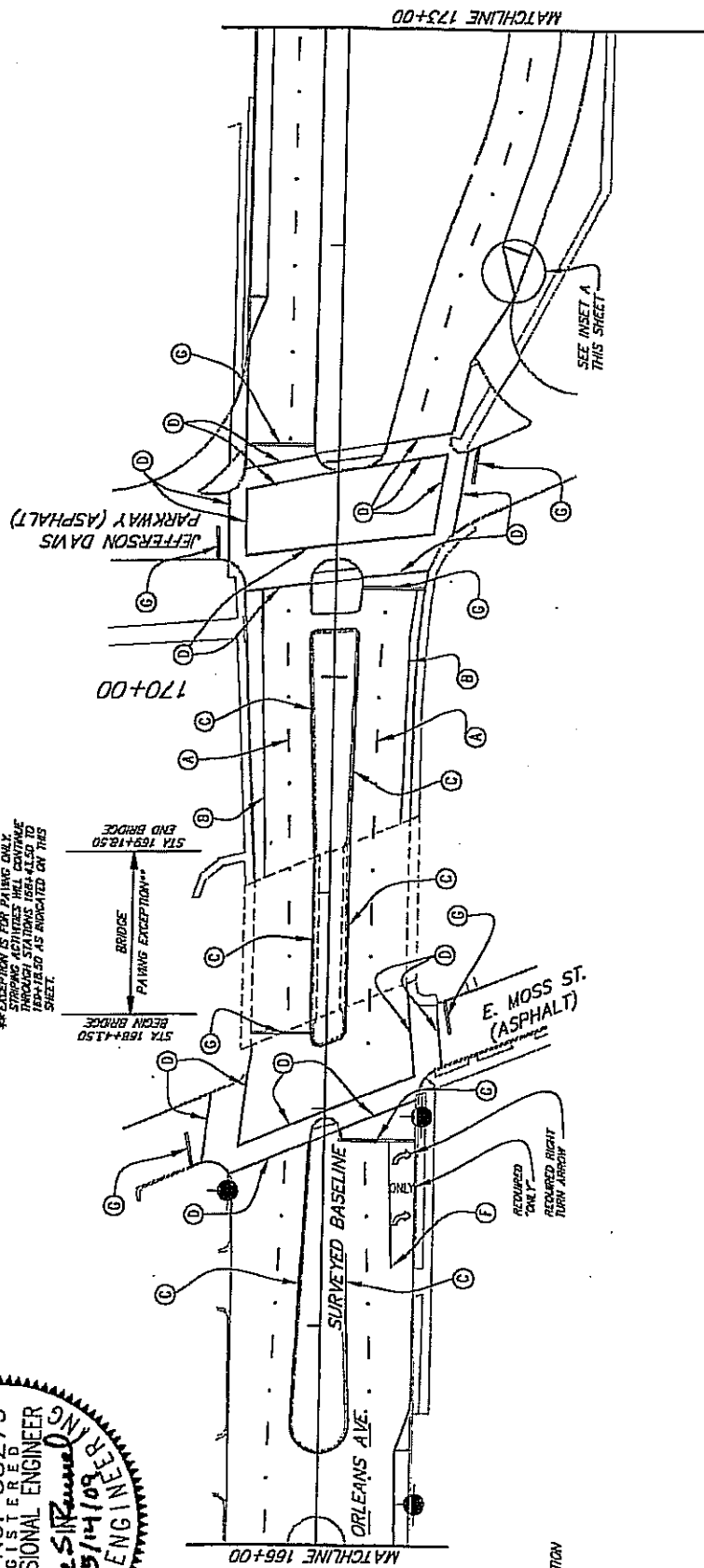
SHEET NUMBER		25
ORLEANS AVENUE		ORLEANS
STRIPING PLAN		ER-ERP1(058)
704-36-0042		STATE PROJECT
FEB 2009		DATE
5 OF 13		SHEET
BY		DESIGN DESCRIPTION
NO.		DATE
STATE OF LOUISIANA		DESIGNED BSR
STANLEY CONSULTANTS INC.		CHECKED JRS
		DETAILED BAS
		CHECKED BSR

# FINAL PLANS



\*\*\*EXCEPTION IS FOR PAVING ONLY  
STRIPING ACTIVITIES WILL CONTINUE  
UNTIL STATIONS 166+41.50 TO  
168+41.50 TO BE INDICATED ON THIS  
SHEET.

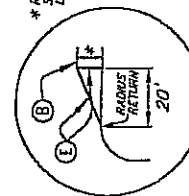
STA 168+41.50  
PAVING BEGIN BRIDGE  
BRIDGE  
PAVING EXCEPTION  
STA 169+12.50  
END BRIDGE



UTILITY LEGEND:



\* REFER TO TYPICAL SECTION  
SHEETS FOR PAVING  
LANE WIDTHS



INSET A  
N.T.S.

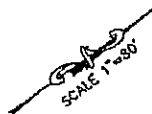
## STRIPING LEGEND:

- (A) 4" BROKEN WHITE STRIPE  
(1/4" REFLECTORIZED MARKERS @  
40' O.C.)
- (B) 4" SOLID WHITE STRIPE
- (C) 4" SOLID YELLOW STRIPE
- (D) 6" SOLID WHITE STRIPE
- (E) 6" SOLID YELLOW STRIPE
- (F) 8" SOLID WHITE STRIPE
- (G) 12" SOLID WHITE STRIPE

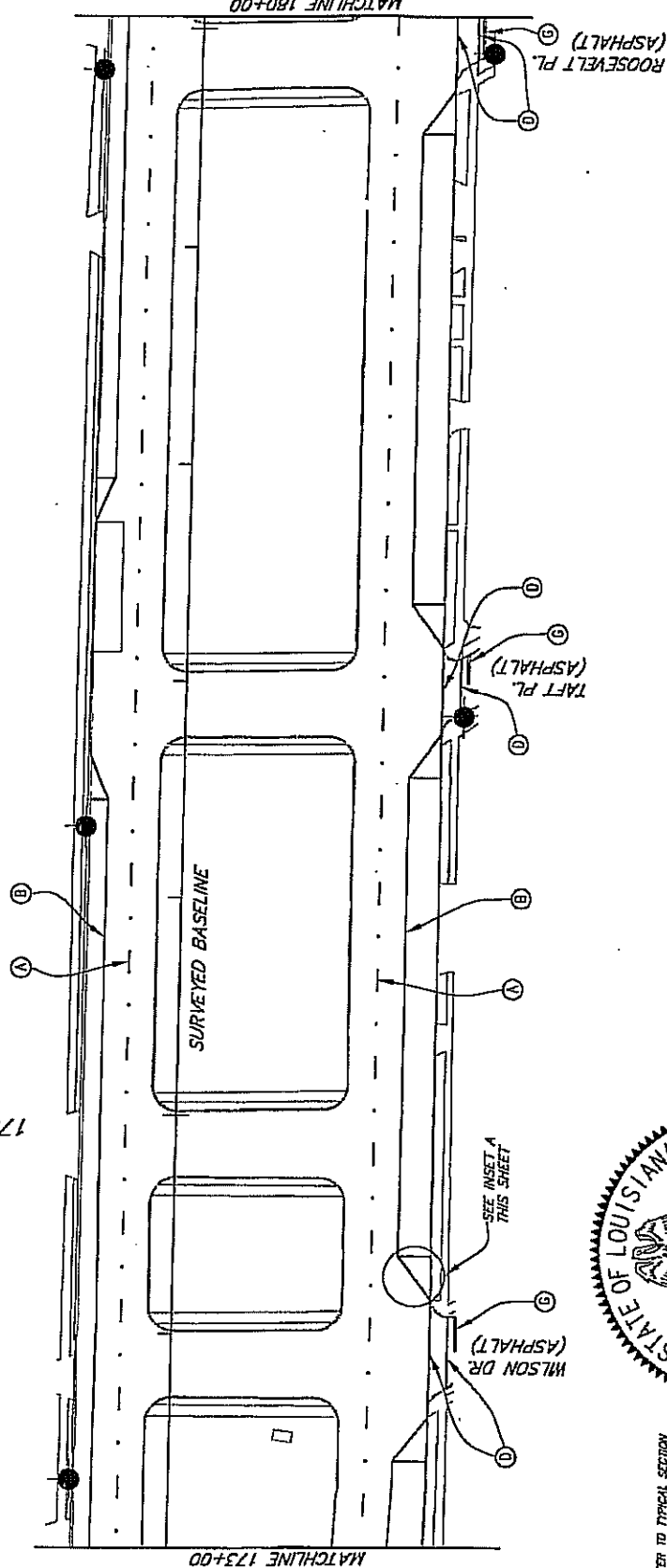
SHEET NUMBER		26
PROJECT		ORLEANS
FEDERAL PROJECT		ER-ERP1(058)
STATE PROJECT		704-36-0042
DESIGNED		BSR
CHECKED		JRS
DATE		FEB 2009
SHEET		6 OF 13
REVISION DESCRIPTION		BY
NO.		DATE
ORLEANS AVENUE		STRIPING PLAN
STANLEY CONSULTANTS INC.		

# FINAL PLANS

UTILITY LEGEND:



175+00

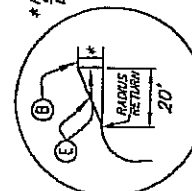


## STRIPING LEGEND:

- A 4" BROKEN WHITE STRIPE (14" REFLECTORIZED MARKERS @ 10' O.C.)
- B 4" SOLID WHITE STRIPE
- C 4" SOLID YELLOW STRIPE
- D 6" SOLID WHITE STRIPE
- E 6" SOLID YELLOW STRIPE
- F 8" SOLID WHITE STRIPE
- G 12" SOLID WHITE STRIPE



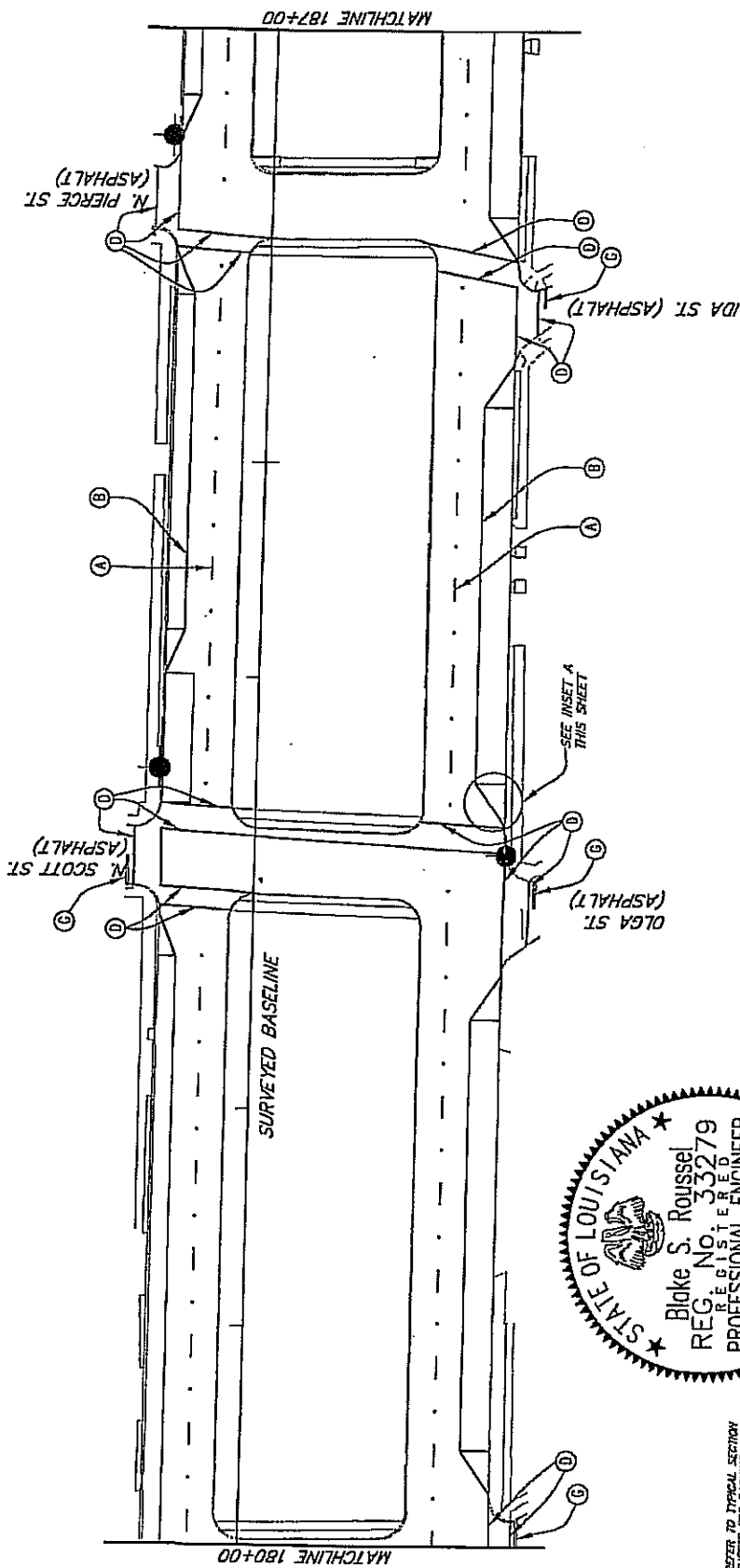
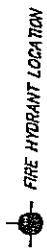
\* REFER TO TYPICAL SECTION FOR STRIPING LANE MARKS



SHEET NUMBER		27	
PROJECT		ORLEANS	
FEDERAL PROJECT		ER-ERP1(05B)	
STATE PROJECT		704-36-0042	
DATE		FEB 2009	
BY		7 OF 13	
REVISION DESCRIPTION			
NO.		DATE	
ORLEANS AVENUE		STRIPING PLAN	
STANLEY CONSULTANTS INC.			

# FINAL PLANS

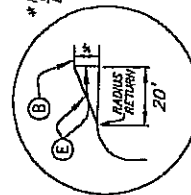
UTILITY LEGEND:



- STRIPING LEGEND:
- (A) 4" BROKEN WHITE STRIPE (W/ REFLECTORIZED MARKERS @ 10' O.C.)
  - (B) 4" SOLID WHITE STRIPE
  - (C) 4" SOLID YELLOW STRIPE
  - (D) 6" SOLID WHITE STRIPE
  - (E) 6" SOLID YELLOW STRIPE
  - (F) 8" SOLID WHITE STRIPE
  - (G) 12" SOLID WHITE STRIPE



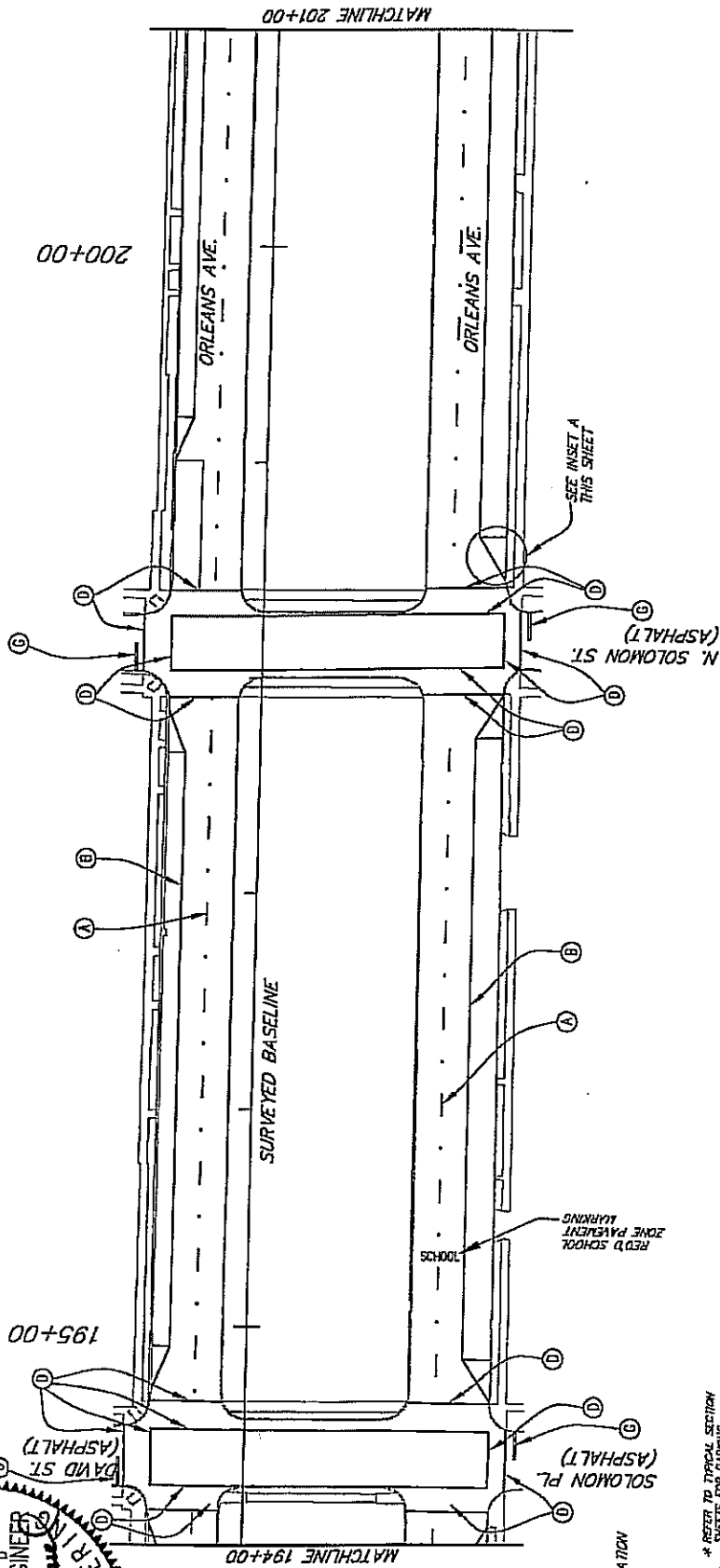
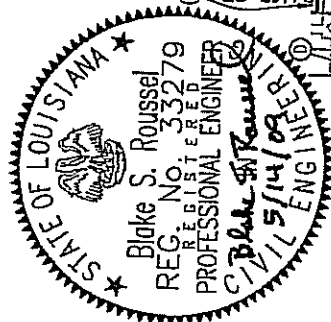
\* REFER TO TYPICAL SECTION SHEETS FOR PLANNING LANE WIDTHS



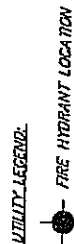
SHEET NUMBER		28	
ORLEANS		PARISH	
ER-ERP1(058)		FEDERAL PROJECT	
704-36-0042		STATE PROJECT	
FEB 2009		DATE	
B OF 13		SHEET	
BY		REVISION DESCRIPTION	
ORLEANS AVENUE		STRIPING PLAN	
STANLEY CONSULTANTS INC.		bota	



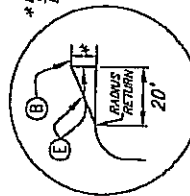
# FINAL PLANS



J-94



\* REFER TO TYPICAL SECTION SHEETS FOR PAVING LANE WIDTHS



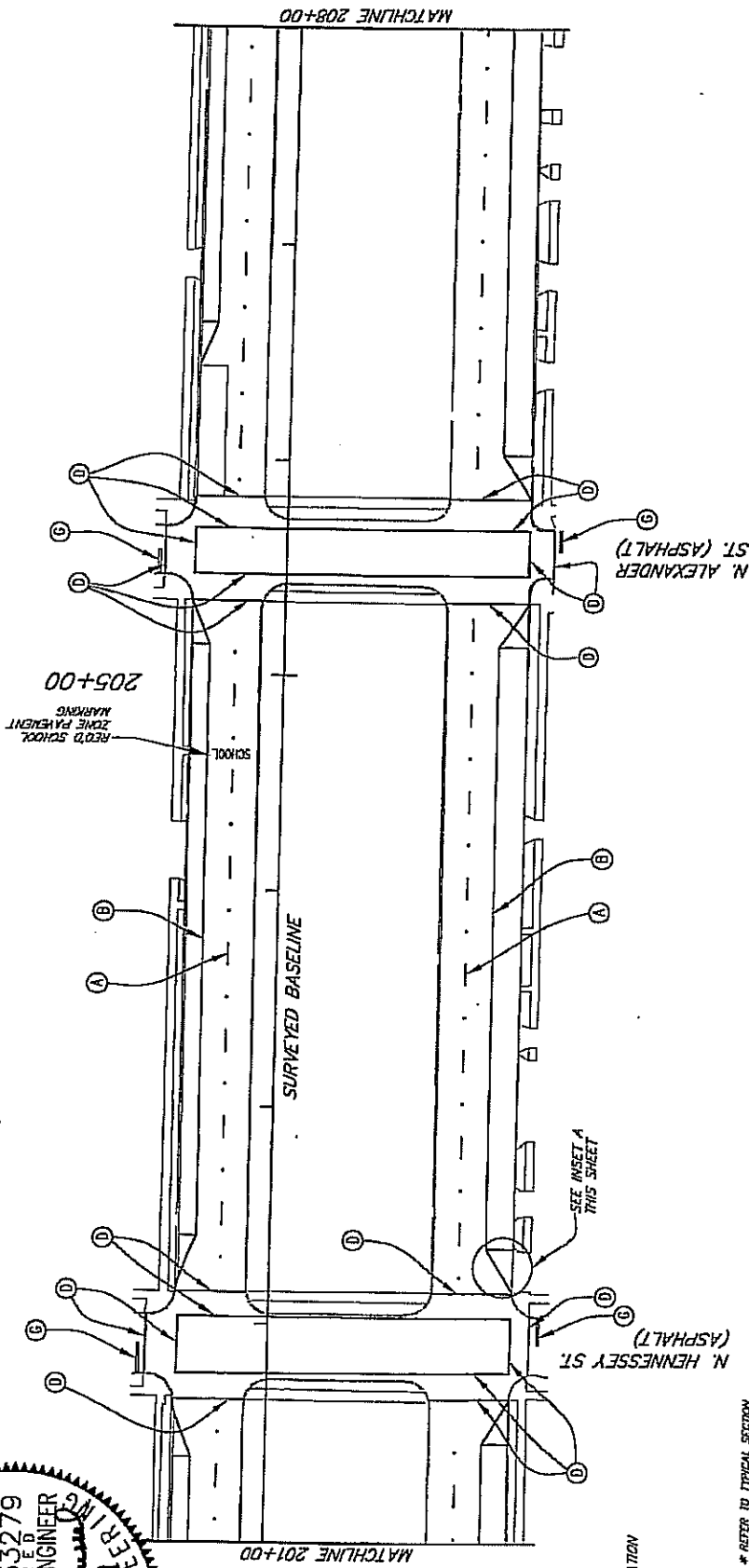
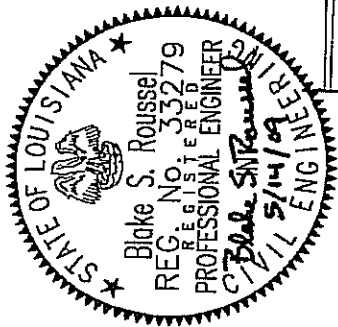
INSET A  
N.T.S.

## STRIPING LEGEND:

- (A) 4" BROKEN WHITE STRIPE (14" REFLECTORIZED MARKERS @ 10' O.C.)
- (B) 4" SOLID WHITE STRIPE
- (C) 4" SOLID YELLOW STRIPE
- (D) 6" SOLID WHITE STRIPE
- (E) 6" SOLID YELLOW STRIPE
- (F) 8" SOLID WHITE STRIPE
- (G) 12" SOLID WHITE STRIPE

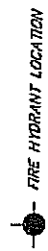
SHEET NUMBER		30	
PROJECT		ORLEANS	
FEDERAL PROJECT		ER-ERP1(058)	
STATE PROJECT		704-36-0042	
DESIGNED	BSR	DATE	FEB 2009
CHECKED	JRS	SHEET	10 OF 13
DESIGNED	BAS	BY	
CHECKED	BSR	PERSON DESCRIPTION	
ORLEANS AVENUE		STRIPING PLAN	
STANLEY CONSULTANTS INC.		BOTH	

# FINAL PLANS

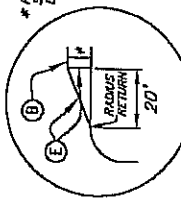


J-95

UTILITY LEGEND:



\* REFER TO TYPICAL SECTION SHEET FOR DIMENSIONS AND MATERIALS



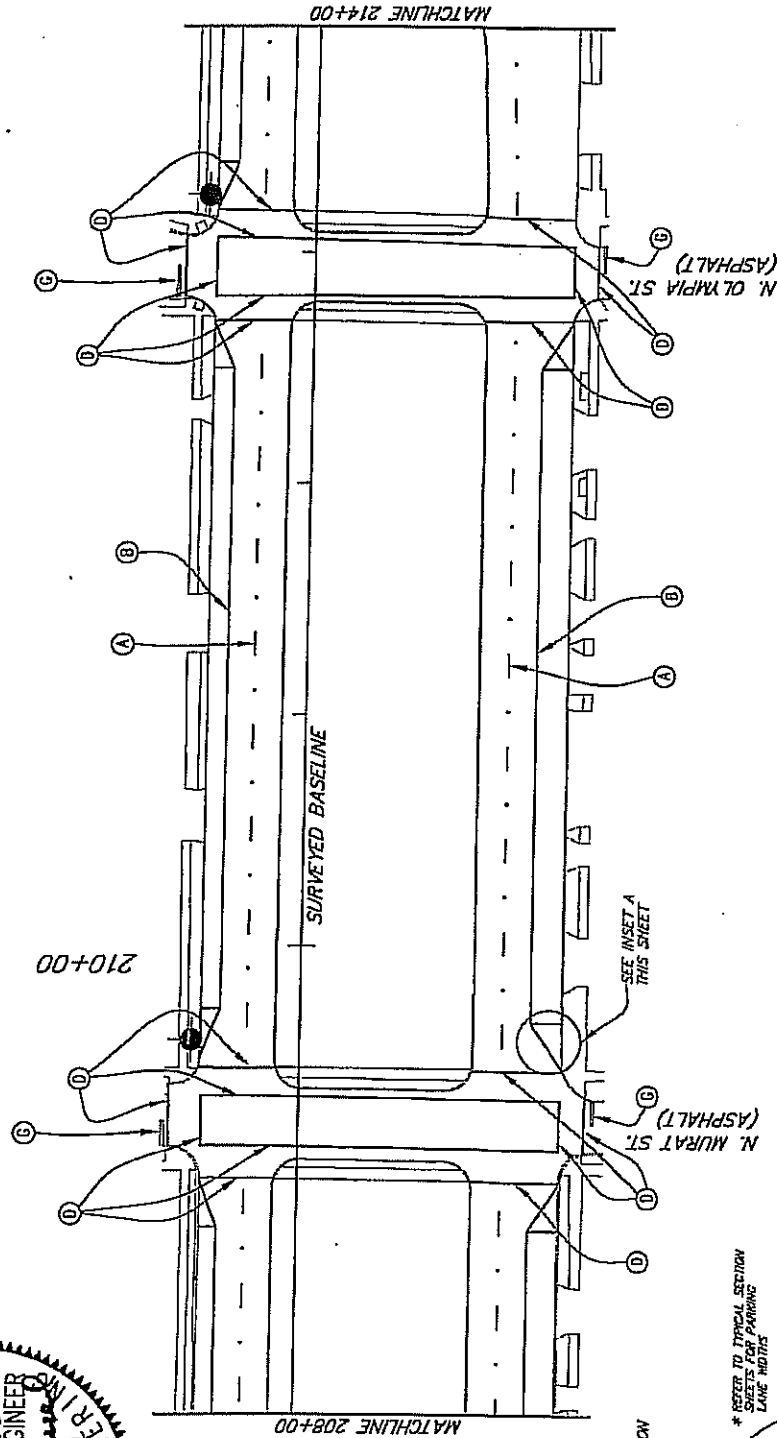
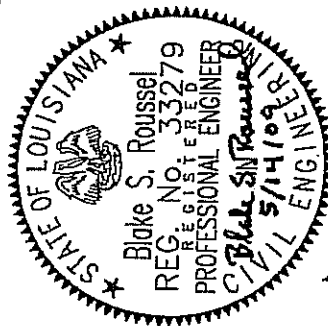
INSET A  
N.T.S.

STRIPING LEGEND:

- (A) 4" BROKEN WHITE STRIPE (W/ REFLECTORIZED MARKERS @ 10' O.C.)
- (B) 4" SOLID WHITE STRIPE
- (C) 4" SOLID YELLOW STRIPE
- (D) 6" SOLID WHITE STRIPE
- (E) 6" SOLID YELLOW STRIPE
- (F) 8" SOLID WHITE STRIPE
- (G) 12" SOLID WHITE STRIPE

		<b>ORLEANS AVENUE</b>		<b>STRIPING PLAN</b>	
SHEET NUMBER 31		PARISH ORLEANS		STATE PROJECT 704-36-0042	
FEDERAL PROJECT ER-ERP1(058)		DESIGNED BSR		DATE FEB 2009	
CHECKED JRS		DETAILER BAS		SHEET 11 OF 13	
DATE FEB 2009		BY		REVISION DESCRIPTION	
STANLEY CONSULTANTS INC.		ORLEANS AVENUE STRIPING PLAN			

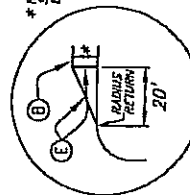
# FINAL PLANS



## STRIPING LEGEND

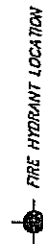
- (A) 4" BROKEN WHITE STRIPE (W/ REFLECTORIZED MARKERS @ 40' O.C.)
- (B) 4" SOLID WHITE STRIPE
- (C) 4" SOLID YELLOW STRIPE
- (D) 6" SOLID WHITE STRIPE
- (E) 6" SOLID YELLOW STRIPE
- (F) 8" SOLID WHITE STRIPE
- (G) 12" SOLID WHITE STRIPE

\* REFER TO TYPICAL SECTION SHEETS FOR PARKING LANE NOTES



INSET A  
N.T.S.

## UTILITY LEGEND

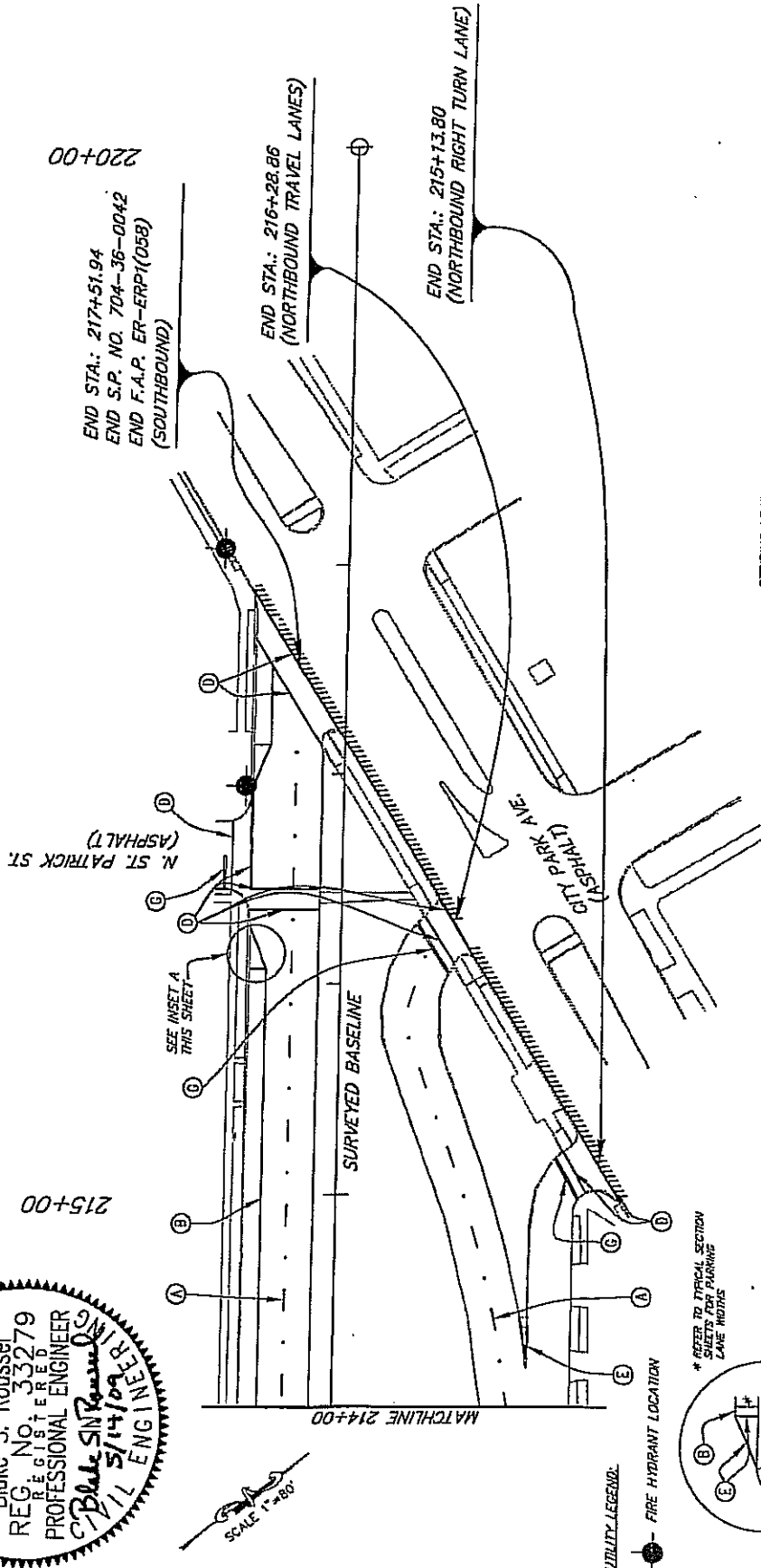
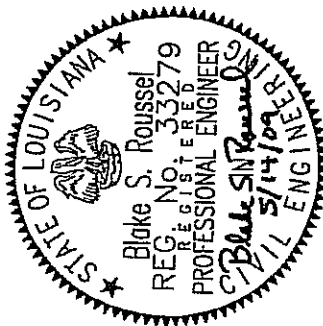


J-96

SHEET NUMBER		32
PROJECT		ORLEANS
FEDERAL PROJECT		ER-ERP1(058)
STATE PROJECT		704-36-0042
DESIGNED	BSR	
CHECKED	JRS	
DATE	FEB 2009	
SHEET	12 OF 13	
REVISION DESCRIPTION		BY
NO.		DATE
ORLEANS AVENUE		STRIPING PLAN
STANLEY CONSULTANTS INC.		



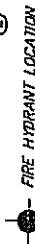
FINAL PLANS



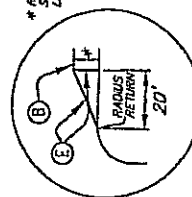
SCALE 1"=80'

J-97

UTILITY LEGEND:



\* REFER TO TYPICAL SECTION SHEETS 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 YELLOW STRIPE
- (D) 6" SOLID WHITE STRIPE
- (E) 6" SOLID YELLOW STRIPE
- (F) 8" SOLID WHITE STRIPE
- (G) 12" SOLID WHITE STRIPE

ORLEANS AVENUE		ORLEANS		SHEET NUMBER	33
STRIPING PLAN		BSR CHECKED	JRS	PARISH	ORLEANS
		DRAWN BY	BSR	FEDERAL PROJECT	ER-ERP1(058)
		DATE	FEB 2009	STATE PROJECT	704-36-0042
		SHEET	13 OF 13		

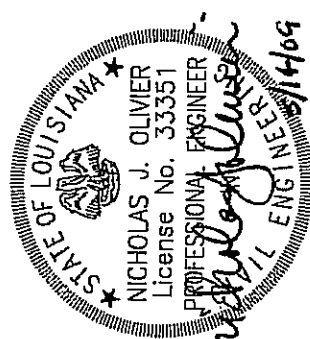
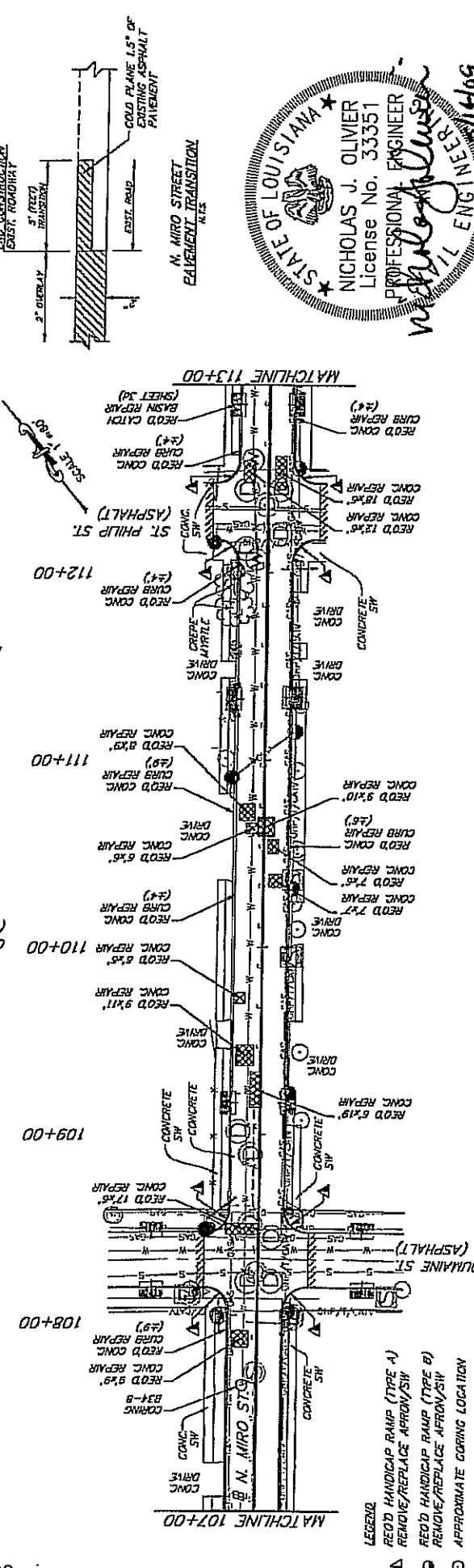
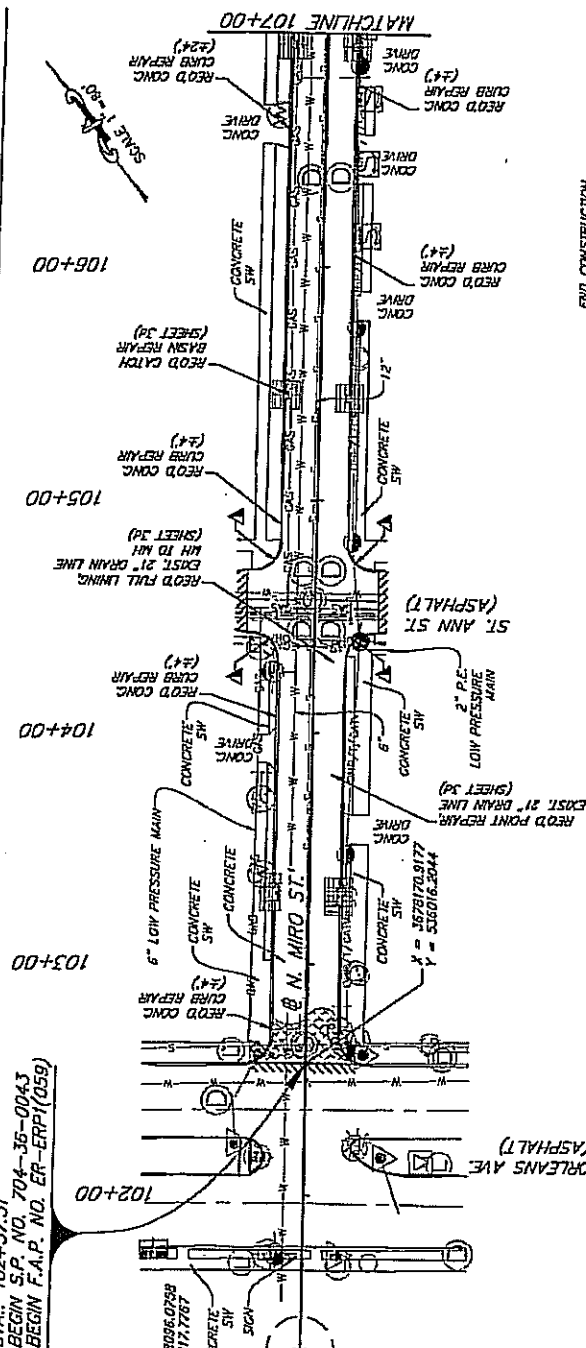
# FINAL PLANS

Q:\PROJECTS\08-4629 New Orleans Roads Grp 11\Drawings\Revised Final Plans 051409\N Miro St\08-4629 N Miro St Replacement plan Sheet.dwg \$DATE\$ \$TIME\$

## NOTES

1. CONTRACTOR SHALL INSTALL AND MAINTAIN RAMPS FOR UTILITY STRUCTURES AND VERTICAL PAVEMENT FACES 2" OR GREATER IN THE ROADWAYS TO MAINTAIN TRAFFIC BETWEEN MILLING AND OVERLAY OPERATIONS (NO DIRECT PAYMENT).
2. CONTRACTOR SHALL VERIFY HEIGHT CLEARANCE FOR TREE CANOPIES 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 UTILITIES 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. ACTUAL LOCATIONS AND AREAS ARE TO BE VERIFIED IN THE FIELD BY THE PROJECT ENGINEER PRIOR TO CONSTRUCTION. SEE N.O. DPW STD. 2, 4-5 FOR CONCRETE PAVEMENT REPAIRS.
7. ANY NECESSARY CURB AND SIDEWALK REMOVAL REQUIRED FOR ADA RAMP WORK TO MEET ADA REQUIREMENTS SHALL BE INCIDENTAL TO ADA RAMP ITEM.

STA.: 102+57.31  
BEGIN S.P. NO. 704-36-0043  
BEGIN F.A.P. NO. ER-ERP1(059)

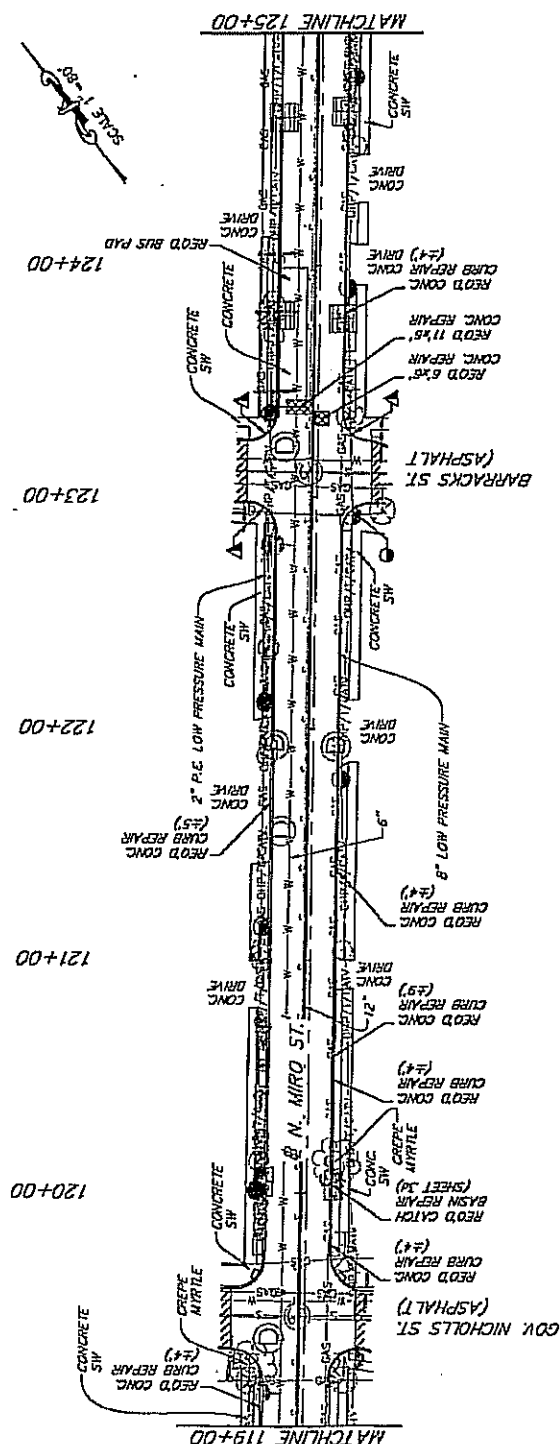
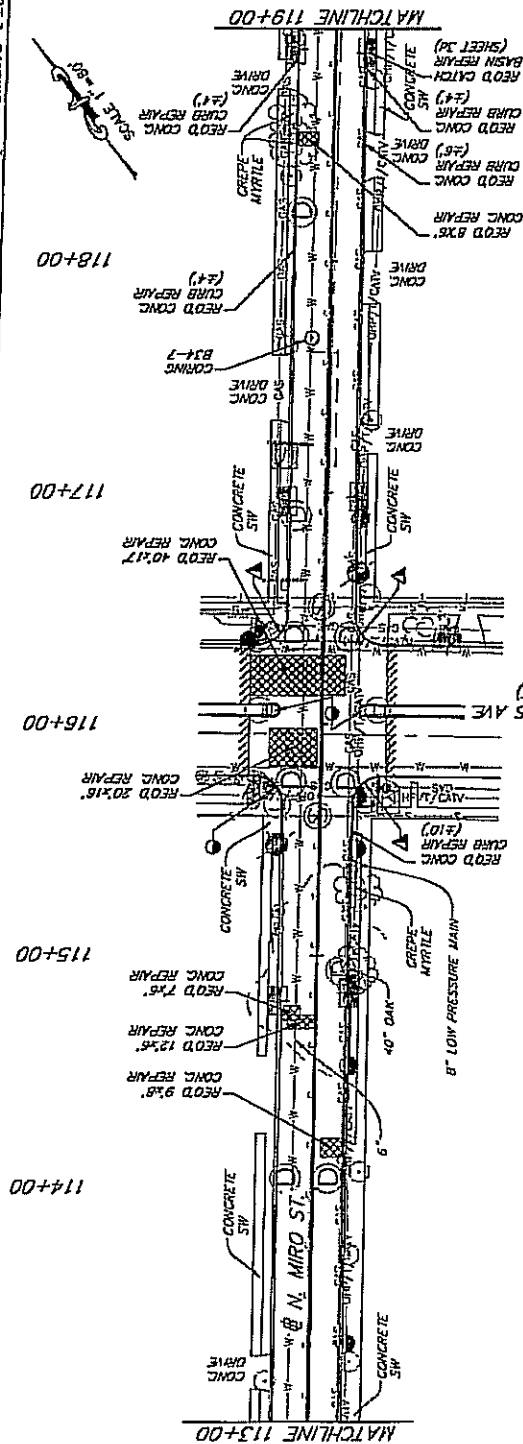


SHEET NUMBER		34
PROJECT		ORLEANS
FEDERAL PROJECT		ER-ERP1(059)
STATE PROJECT		704-36-0043
DESIGNED	NJO	
CHECKED	KWR	
DRAWN	CMR	
DATE	FEB. 2009	
SHEET	1 OF 8	
REVISION DESCRIPTION		
NO.	DATE	BT
N. MIRO STREET		
PLAN SHEET		
CIVIL DESIGN & CONSTRUCTION INC.		

# FINAL PLANS

Q:\PROJECTS\08-4629 New Orleans Roads Grp 11\Drawings\Revised Final Plans 051409\N Miro St\08-4629 N Miro St Replacement Plan Sheet.dwg \$DATE\$ \$TIME\$

- LEGEND
- ▲ RECD HANDICAP RAMP (TYPE A)
  - RECD HANDICAP RAMP (TYPE B)
  - REMOVE/REPLACE APRON/SW
  - REMOVE/REPLACE APPROV/SW
  - APPROXIMATE CORING LOCATION

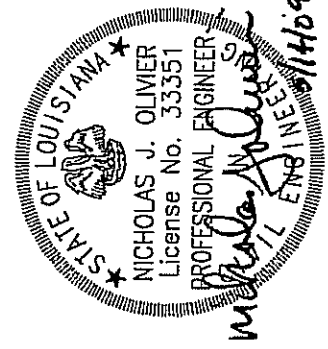
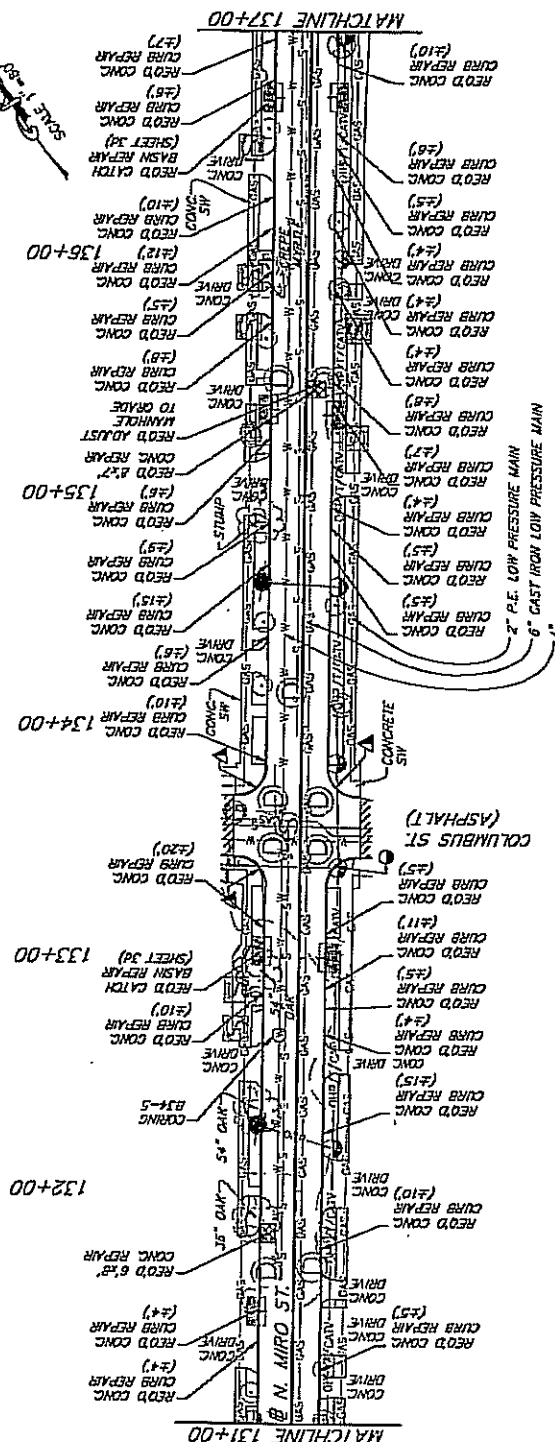
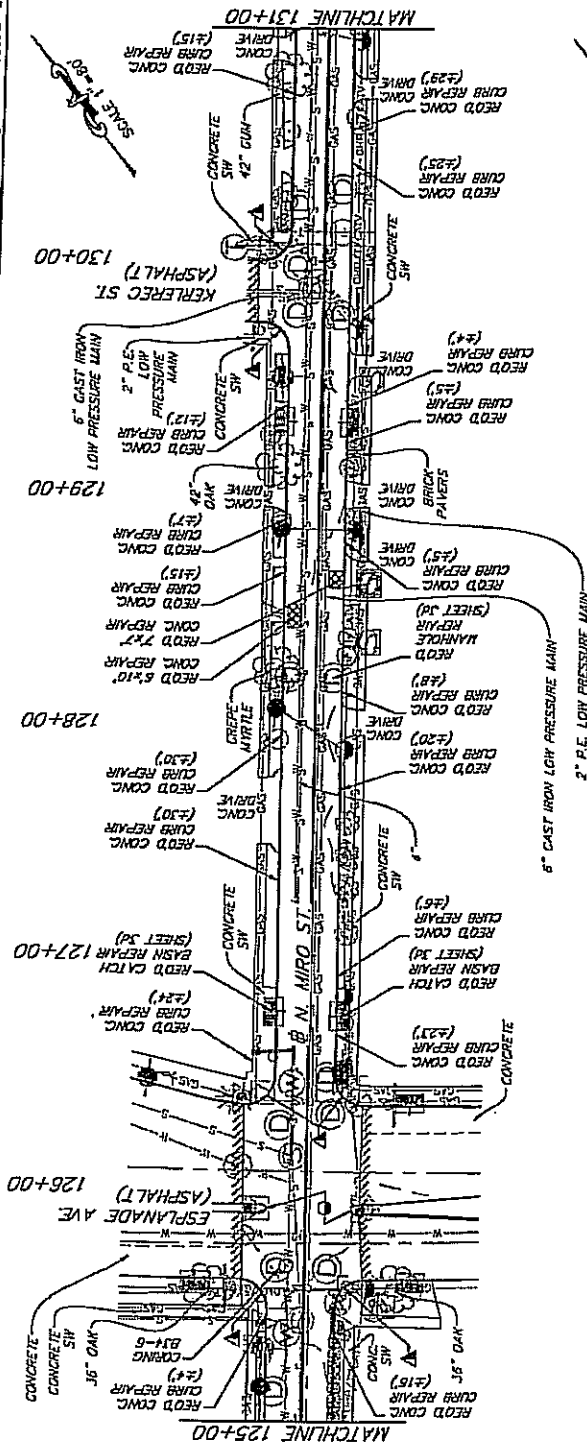


SHEET NUMBER		35	
PROJECT		ORLEANS	
FEDERAL PROJECT		ER-ERP1(059)	
STATE PROJECT		704-36-0043	
DESIGNED		NJO	
CHECKED		KEW	
DRAWN		CMR	
DATE		FEB, 2009	
SHEET		2 OF 8	
BY			
REVISION DESCRIPTION			
NO.		DATE	
N. MIRO STREET		PLAN SHEET	
CIVIL DESIGN & CONSTRUCTION INC.			

# FINAL PLANS

Q:\PROJECTS\08-4629 New Orleans Roads Grp 11\Drawings\Revised Final Plans 051409\N Miro St\08-4629 N Miro St Replacement Plan Sheet.dwg \$DATES \$TIME\$

- LEGEND
- ▲ RED'D HANDICAP RAMP (TYPE A)
  - RED'D HANDICAP RAMP (TYPE B)
  - REMOVE/REPLACE APRON/SH
  - REMOVE/REPLACE APRON/SH
  - APPROXIMATE CORING LOCATION

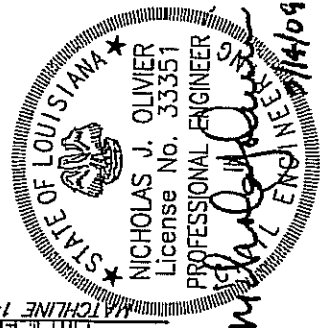
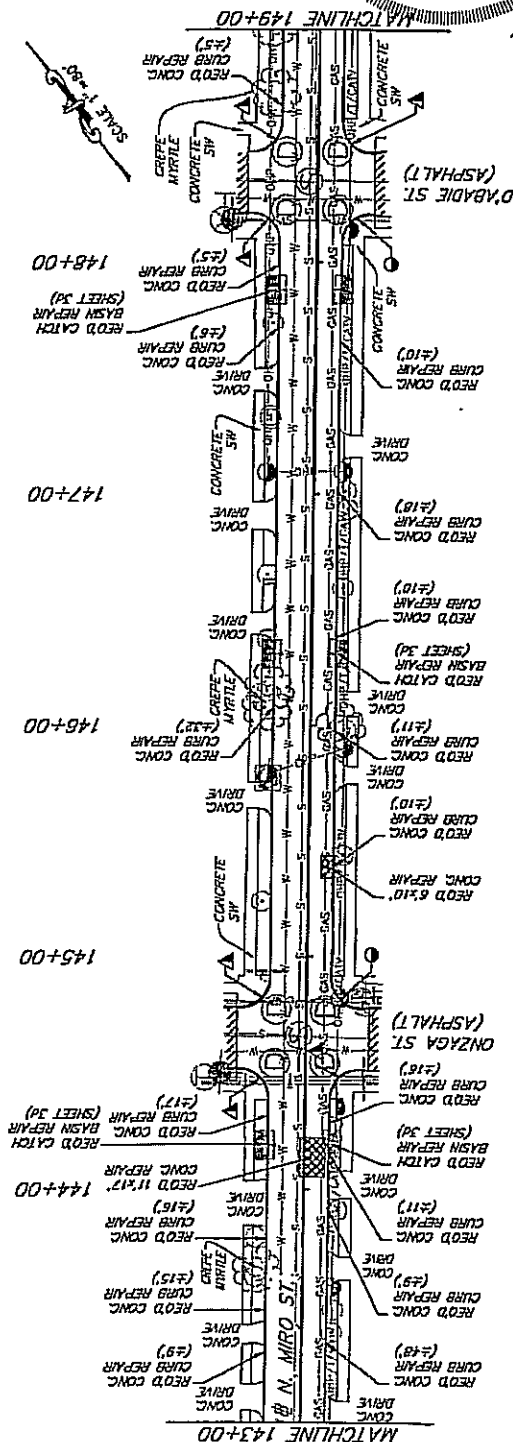
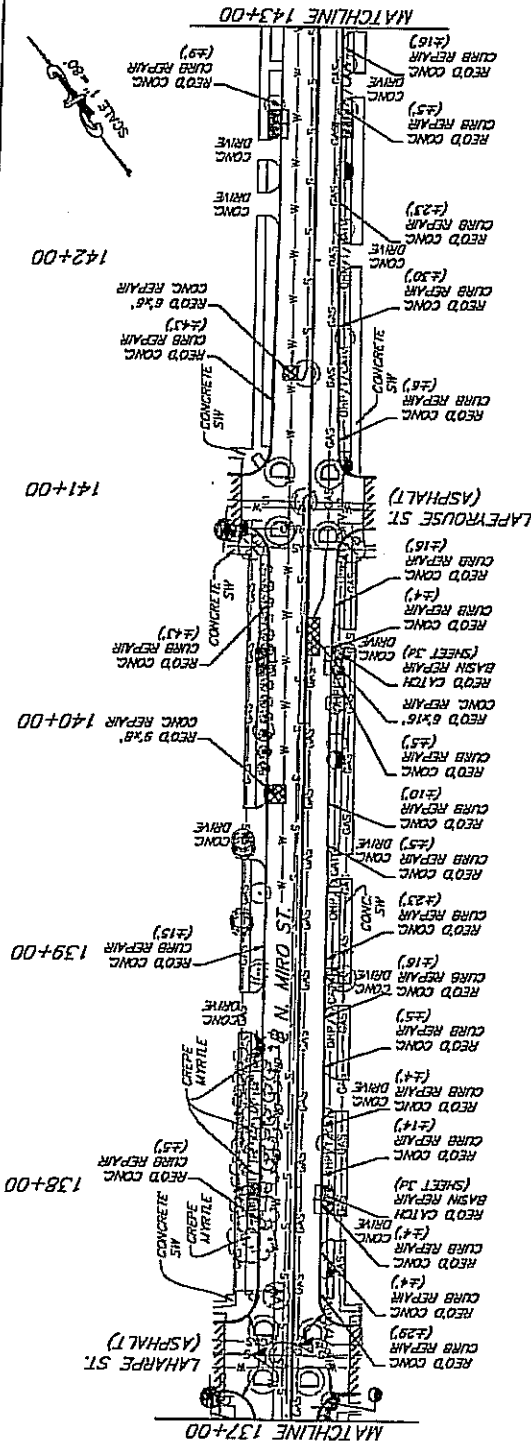


SHEET NUMBER		36	
PANISH	ORLEANS	DESIGNED	NJO
FEDERAL PROJECT	ER-ERP1(059)	CHECKED	KEW
STATE PROJECT	704-36-0043	REVIEWED	CMR
DATE	FEB. 2009	DATE	FEB. 2009
BY	3 OF 8	DATE	
PLAN SHEET			
N. MIRO STREET			
CIVIL DESIGN & CONSTRUCTION INC.			

# FINAL PLANS

Q:\PROJECTS\08-4629 New Orleans Roads Gp 11\Drawings\Revised Final Plans 051409\N Miro St\08-4629 N Miro St Replacement Plan Sheet.dwg \$DATE\$ \$TIME\$



- LEGEND
- RECD HANDICAP RAMP (TYPE A)
  - RECD HANDICAP RAMP (TYPE B)
  - RECD HANDICAP RAMP (TYPE C)
  - RECD HANDICAP RAMP (TYPE D)
  - RECD HANDICAP RAMP (TYPE E)
  - RECD HANDICAP RAMP (TYPE F)
  - RECD HANDICAP RAMP (TYPE G)
  - RECD HANDICAP RAMP (TYPE H)
  - RECD HANDICAP RAMP (TYPE I)
  - RECD HANDICAP RAMP (TYPE J)
  - RECD HANDICAP RAMP (TYPE K)
  - RECD HANDICAP RAMP (TYPE L)
  - RECD HANDICAP RAMP (TYPE M)
  - RECD HANDICAP RAMP (TYPE N)
  - RECD HANDICAP RAMP (TYPE O)
  - RECD HANDICAP RAMP (TYPE P)
  - RECD HANDICAP RAMP (TYPE Q)
  - RECD HANDICAP RAMP (TYPE R)
  - RECD HANDICAP RAMP (TYPE S)
  - RECD HANDICAP RAMP (TYPE T)
  - RECD HANDICAP RAMP (TYPE U)
  - RECD HANDICAP RAMP (TYPE V)
  - RECD HANDICAP RAMP (TYPE W)
  - RECD HANDICAP RAMP (TYPE X)
  - RECD HANDICAP RAMP (TYPE Y)
  - RECD HANDICAP RAMP (TYPE Z)



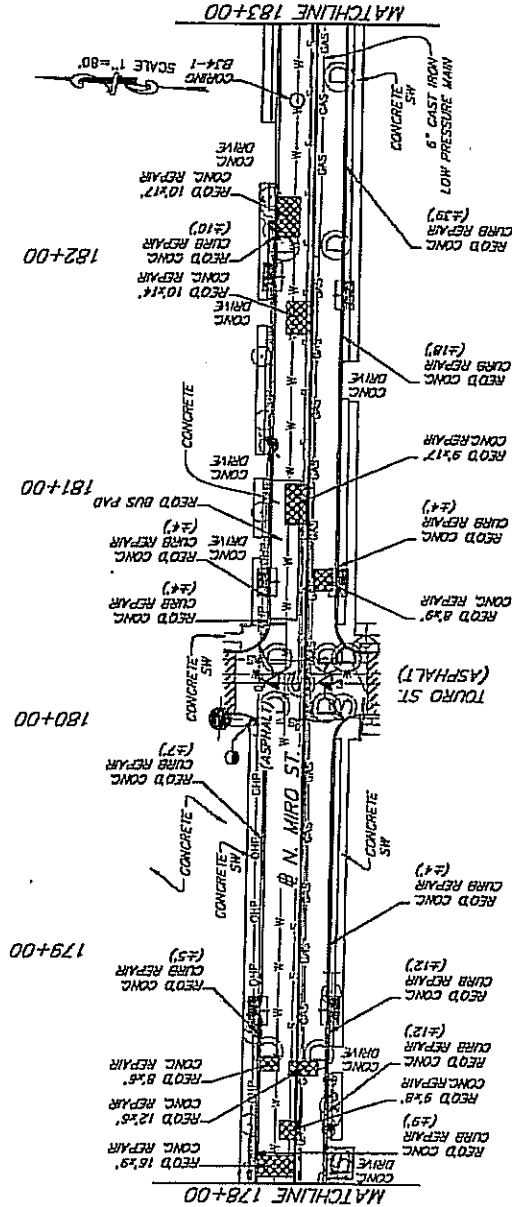
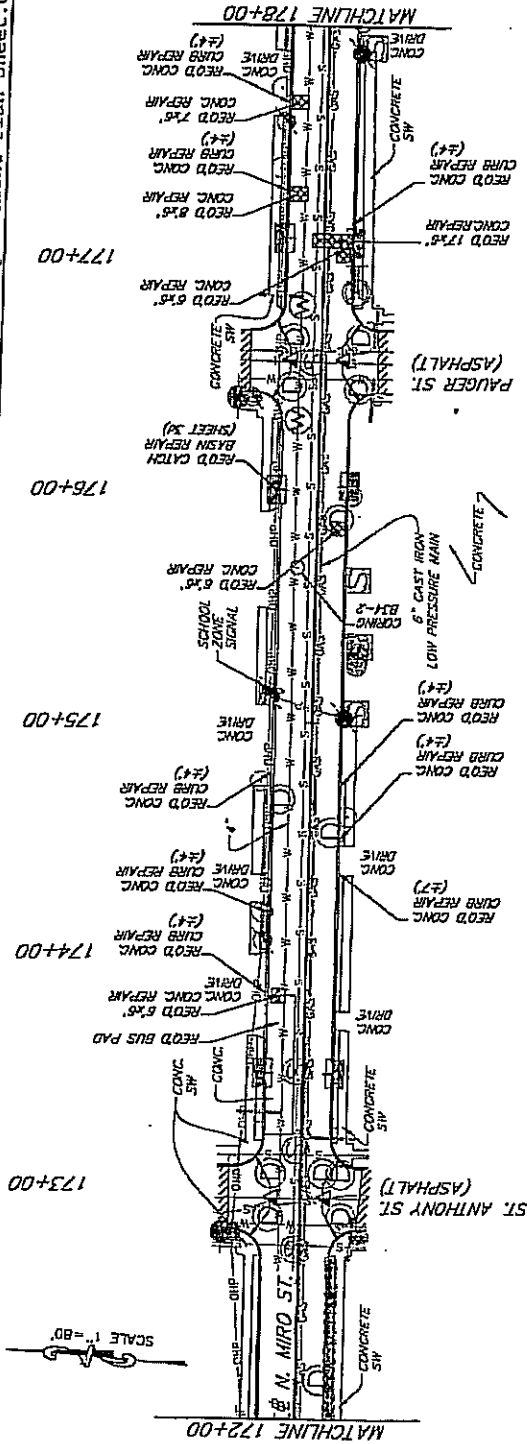
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<div></div> <div>N. MIRO STREET</div> <div></div> <div>PLAN SHEET</div>										DESIGNED CHECKED	NJO KEW	PAPER	ORLEANS	SHEET NUMBER																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
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# FINAL PLANS



- LEGEND
- ▲ REDD HANDICAP RAMP (TYPE A)
  - REMOVE/REPLACE APRON/SW
  - REDD HANDICAP RAMP (TYPE B)
  - REMOVE/REPLACE APRON/SW
  - APPROXIMATE CORING LOCATION



SHEET NUMBER 40	
DESIGNED BY NJO	CHECKED BY KEW
DRAWN BY CMR	DATE FEB-2008
PROJECT ORLEANS	BY 7 OF 8
FEDERAL PROJECT ER-ERP1(059)	REVISION DESCRIPTION
STATE PROJECT 704-38-0043	DATE
PLAN SHEET	
N. MIRO STREET	
CIVIL DESIGN & CONSTRUCTION INC.	

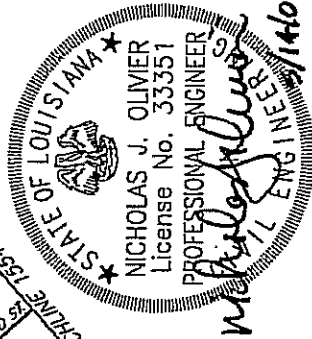








REQ'D HANDICAP RAMP (TYPE A)  
REMOVE/REPLACE APRON/SW

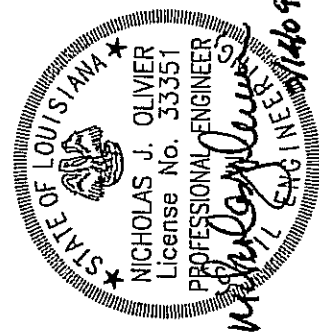
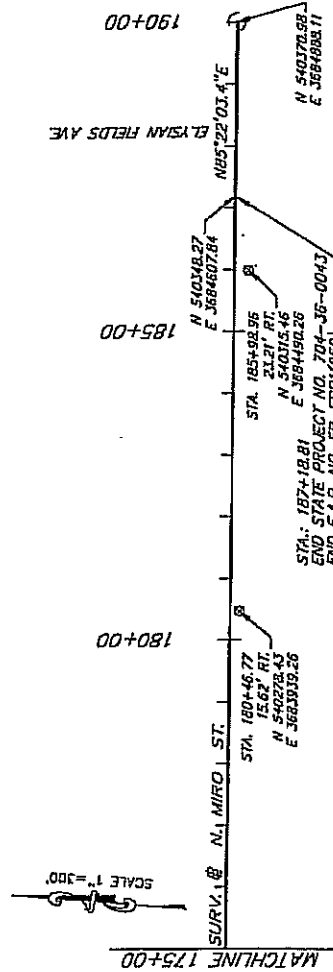
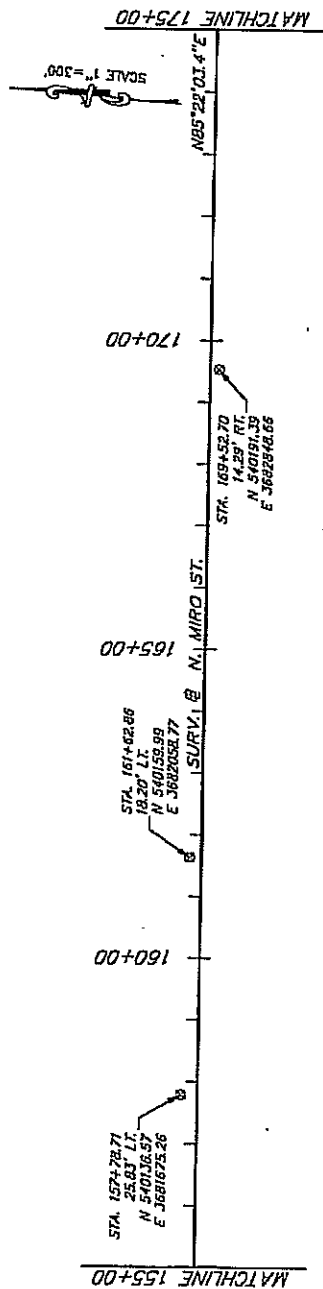
REQ'D HANDICAP RAMP (TYPE B)  
REMOVE/REPLACE APRON/SW

[illegible]



		N. MIRO STREET				SHEET NUMBER		42
		GEOMETRIC LAYOUT				PARISH		ORLEANS
				DESIGNED		NJO		FEDERAL PROJECT ER-ERP1(059) 704-36-0043
				CHECKED		KEW		
				RETAILED		CMR		
				CHECKED		NJO		
				DATE		FEB. 2009		STATE PROJECT
				NO.		SHEET		
				REVISION DESCRIPTION		BY		1 of 2
						DATE		
								

# FINAL PLANS

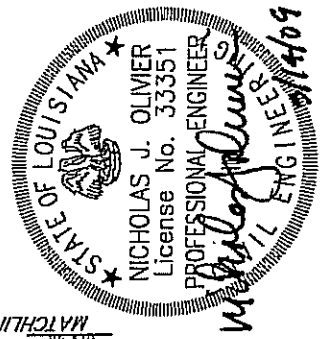
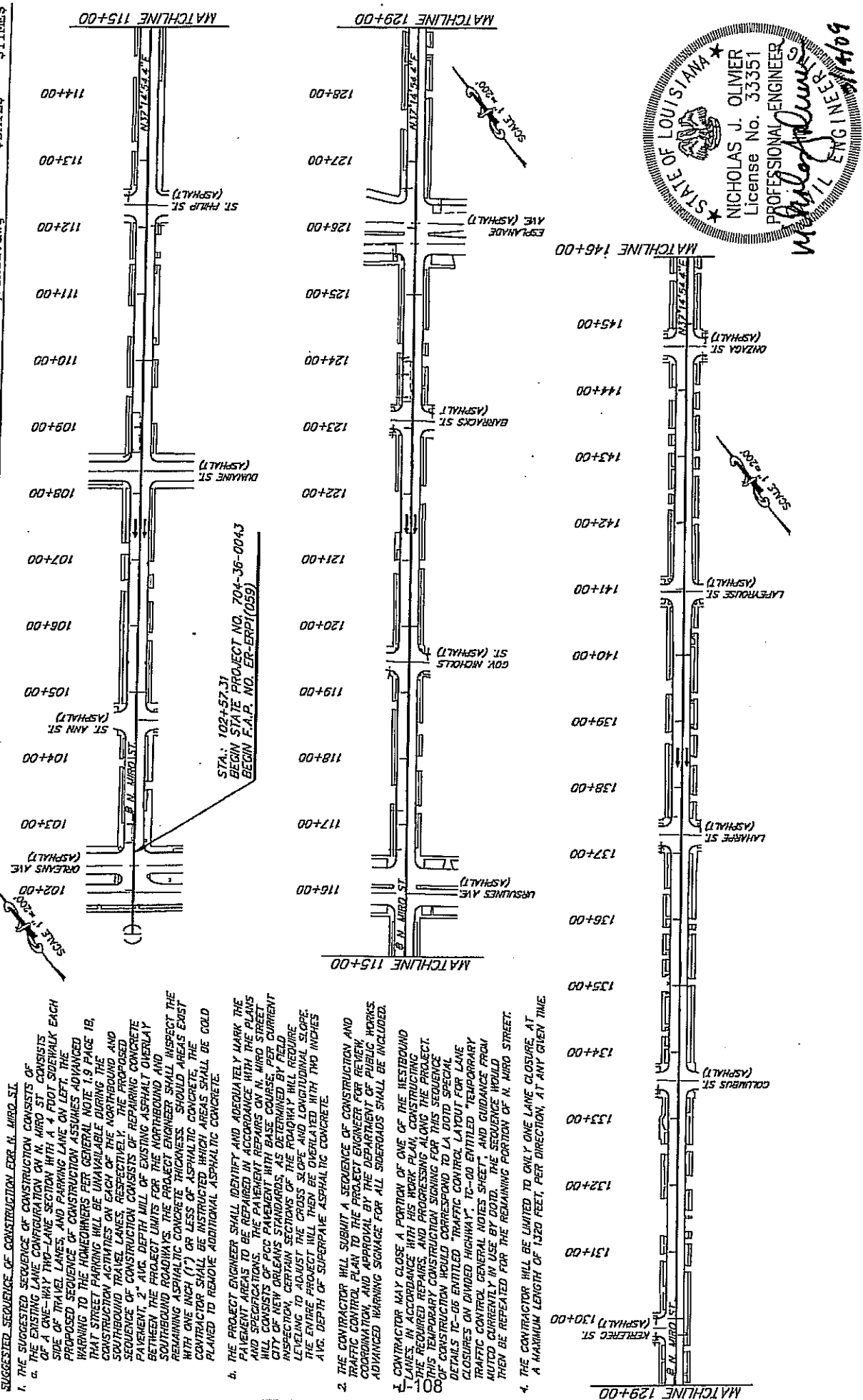


- NOTES:
1. HORIZONTAL CONTROL POINTS WERE ESTABLISHED BY G.P.S. STATIC OBSERVATIONS ON SEPTEMBER 28, 2008.
  2. COORDINATES SHOWN HEREON ARE NAD83, HARN (HPGN) STATE PLANE, 1702 LA SOUTH ZONE, US SURVEY FOOT.
  3. VERTICAL CONTROL NOT REQUIRED.

CIVIL DESIGN & CONSTRUCTION INC.				N. MIRO STREET				DESIGNED: NJO CHECKED: KKW RETAINED: CMR CHECKED: NUD DATE: FEB. 2009 SHEET: 2 of 2		PARISH: ORLEANS	FEDERAL PROJECT: ER-ERP1(059)	STATE PROJECT: 704-36-0043	SHEET NUMBER: 43
REVISION DESCRIPTION NO. DATE BY													

# FINAL PLANS

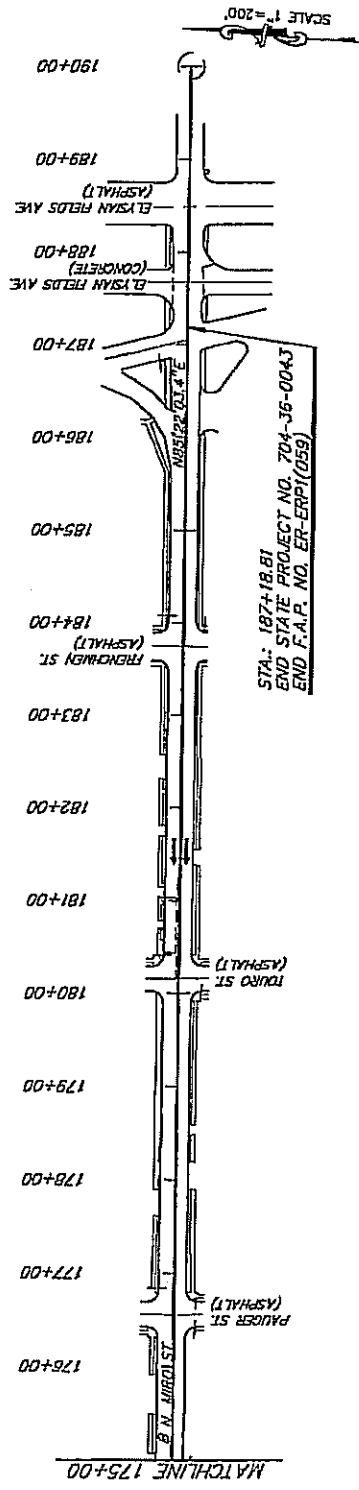
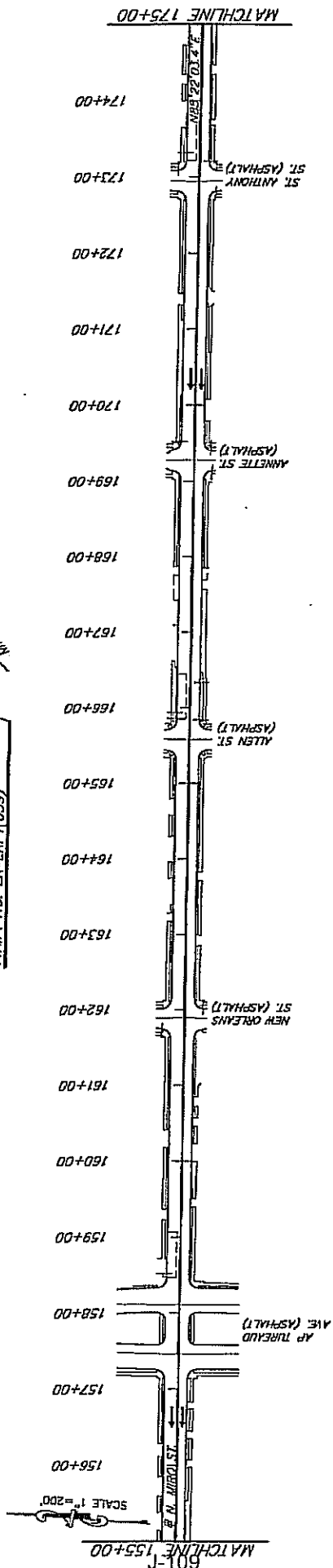
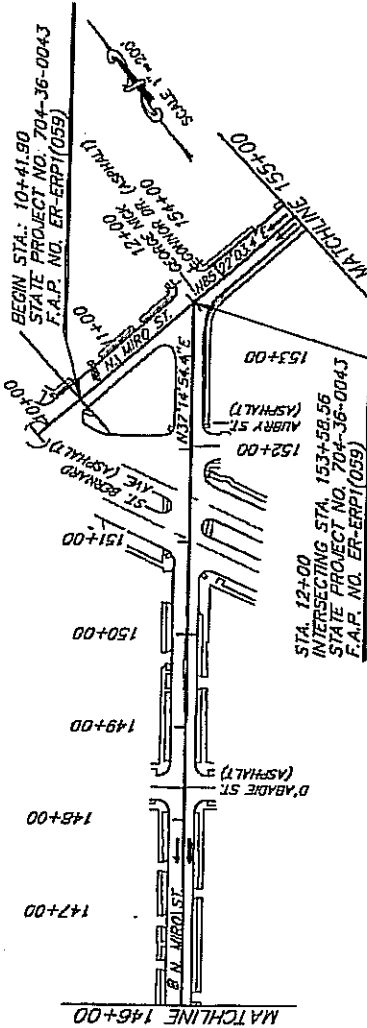
Q:\PROJECTS\08-4629 New Orleans Roads Gp 11\Drawings\Revised Final Plans 051409\N Miro St\08-4629 N Miro St Replacement Sequence.dwg \$DATE\$ \$STIMES\$



1. THE SUGGESTED SEQUENCE OF CONSTRUCTION FOR N. MIRO ST.
  - a. THE EXISTING LANE CONFIGURATION ON N. MIRO ST. CONSISTS OF A ONE-WAY TWO-LANE SECTION WITH A 4 FOOT SIDEWALK EACH SIDE OF TRAVEL LANES, AND PARKING LANE ON LEFT. THE PROPOSED SEQUENCE OF CONSTRUCTION ASSUMES ADVANCED WARNING TO THE HOMEOWNERS PER GENERAL NOTE 1.9 PAGE 18, 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 REPAIRING CONCRETE PAVEMENT, 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 PLANTED 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 N. MIRO STREET SHALL BE IN ACCORDANCE WITH THE 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 BE OVERLAIN WITH TWO INCHES AVG. DEPTH OF SUPERPAVE ASPHALTIC CONCRETE.
2. THE CONTRACTOR WILL SUBMIT A SEQUENCE OF CONSTRUCTION AND TRAFFIC CONTROL PLAN TO THE PROJECT ENGINEER FOR REVIEW AND COORDINATION, AND APPROVAL BY THE DEPARTMENT OF PUBLIC WORKS. ADVANCED WARNING SIGNAGE FOR ALL SUBSEQUENT SHALL BE INCLUDED.
3. CONTRACTOR MAY CLOSE A PORTION OF ONE OF THE WESTBOUND LANE 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 DDD 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 FOR THE REMAINING PORTION OF N. MIRO STREET.
4. THE CONTRACTOR WILL BE LIMITED TO ONLY ONE LANE CLOSURE AT A MAXIMUM LENGTH OF 1320 FEET, PER DIRECTION, AT ANY GIVEN TIME.

SHEET NUMBER		44
PARISH		ORLEANS
FEDERAL PROJECT		ER-ERP1(059)
STATE PROJECT		704-36-0043
DESIGNED	NJO	
CHECKED	KFW	
DRAWN	CMR	
CHECKED	NJO	
DATE	FEB. 2009	
SHEET	1 OF 2	
REVISION DESCRIPTION		IT
NO.		DATE
N. MIRO STREET		
SUGGESTED SEQUENCE OF CONSTRUCTION		
CIVIL DESIGN & CONSTRUCTION INC.		

# FINAL PLANS



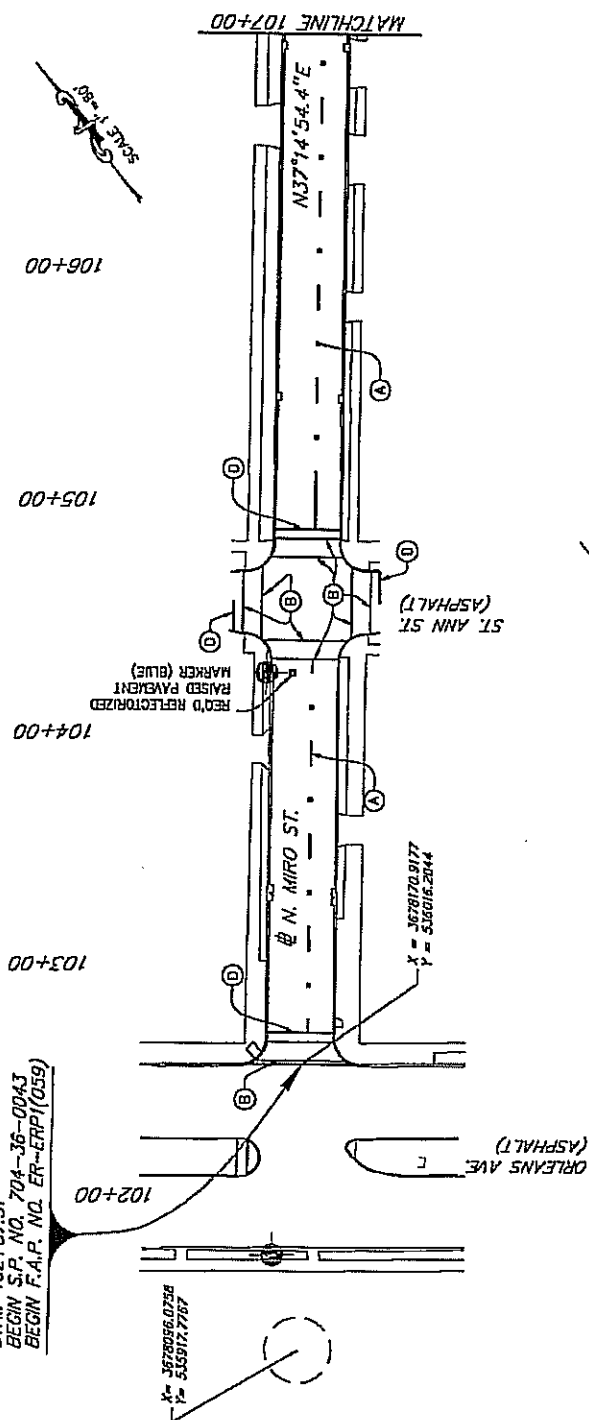
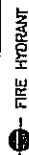
SHEET NUMBER		45	
ORLEANS		ER-ERP1(059)	
FEDERAL PROJECT		STATE PROJECT	
DATE		FEB. 2009	
SHEET		2 OF 2	
REVISION DESCRIPTION		BY	
DATE		NO.	
N. MIRO STREET		SUGGESTED SEQUENCE OF CONSTRUCTION	
CIVIL DESIGN & CONSTRUCTION INC.		bota	

# FINAL PLANS

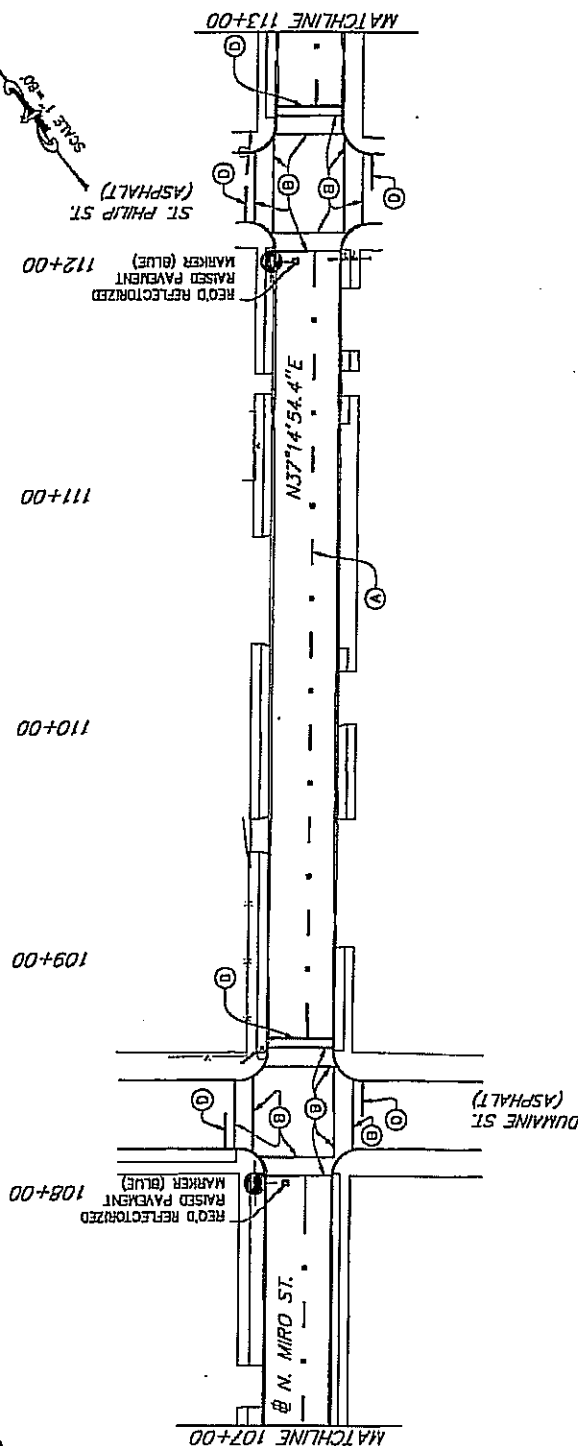
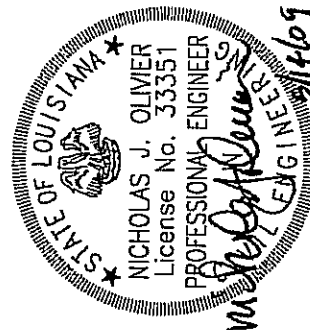
STA.: 102+57.31  
 BEGIN S.P. NO. 704-36-0043  
 BEGIN F.A.P. NO. ER-ERP1(059)

- 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.

## UTILITY LEGEND



- ## STRIPING LEGEND
- (A) 4" BROKEN WHITE STRIPE (W/REFLECTORIZED MARKERS @ 40' O.C.)
  - (B) 6" SOLID WHITE STRIPE
  - (C) 6" SOLID YELLOW STRIPE
  - (D) 12" SOLID WHITE STRIPE
  - (E) 4" SOLID WHITE STRIPE
  - (F) 4" BROKEN WHITE STRIPE



SHEET NUMBER		46
PROJECT		ORLEANS
FEDERAL PROJECT		ER-ERP1(059)
STATE PROJECT		704-36-0043
DATE		FEB. 2009
SHEET		1 OF 7
REVISION DESCRIPTION		
BY		
DATE		
NO.		
N. MIRO STREET		
STRIPING PLAN		
CIVIL DESIGN & CONSTRUCTION INC.		

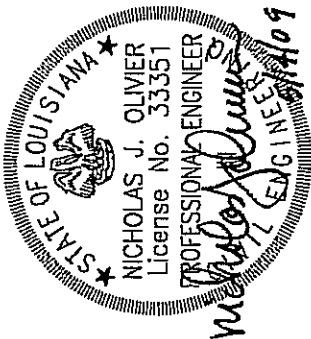
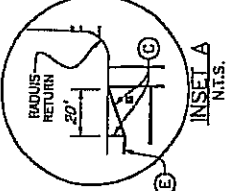
**- FIRE HYDRANT**



3. CROSSWALK STRIPING TO BE PLACED PER N.O. OPW STD. 10 AND DIRECTION OF PROJECT ENGINEER.

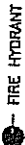
4" BROKEN WHITE STRIPE  
(W)/REFLECTORIZED MARKERS • 40" O.C.

(A) 4" BROKEN WHITE STRIPE  
(B) 6" SOLID WHITE STRIPE  
(C) 6" SOLID YELLOW STRIPE  
(D) 12" SOLID WHITE STRIPE  
(E) 4" SOLID WHITE STRIPE  
(F) 4" BROKEN WHITE STRIPE

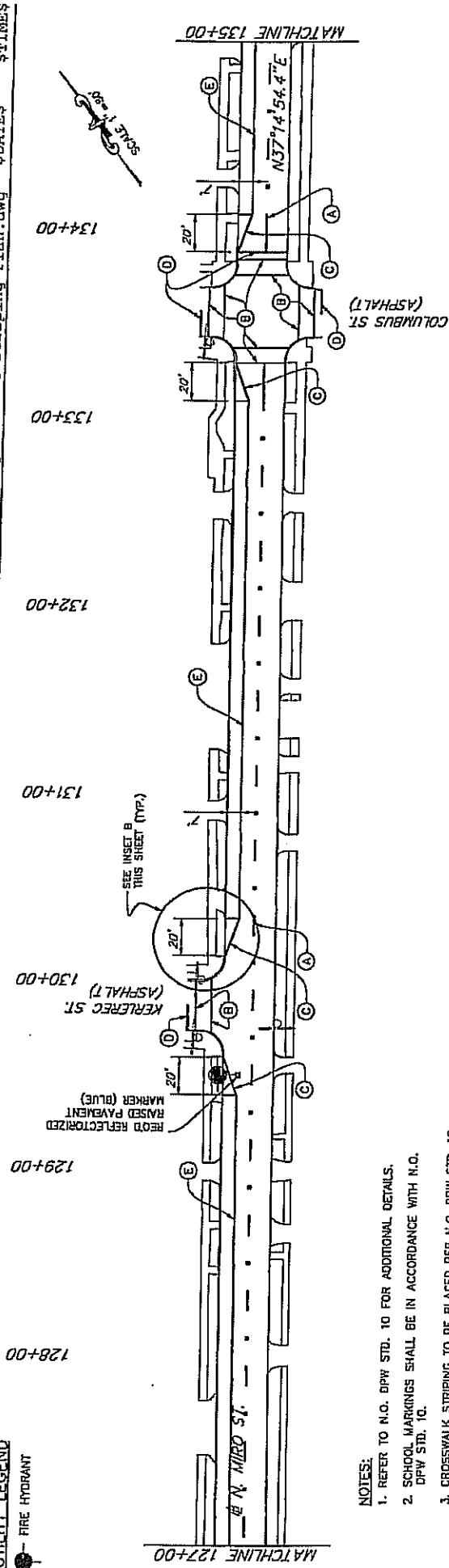
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# FINAL PLANS

## UTILITY LEGEND

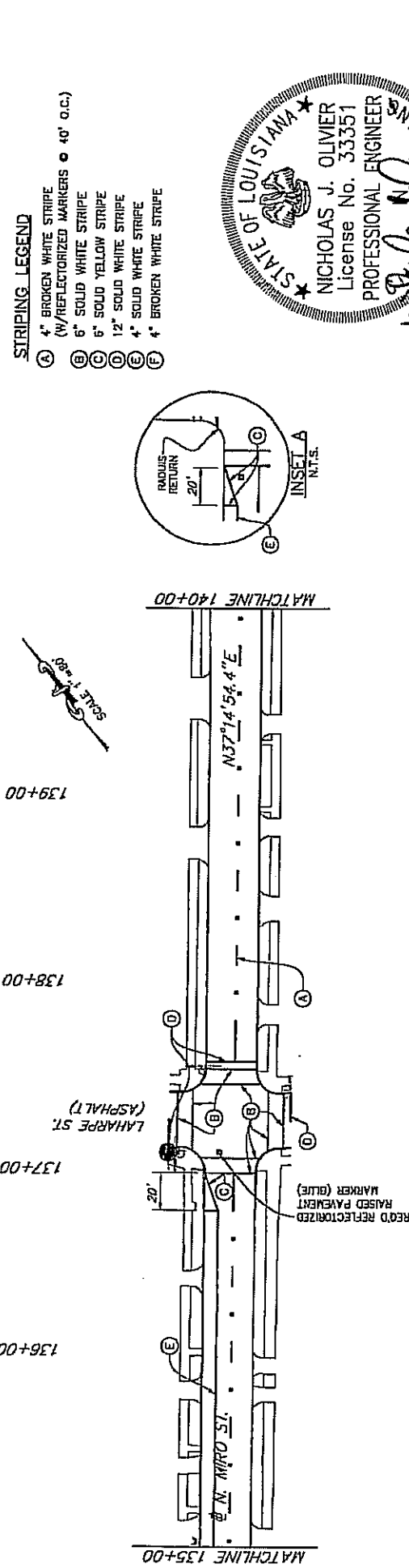


FIRE HYDRANT



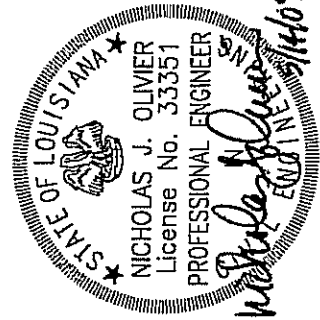
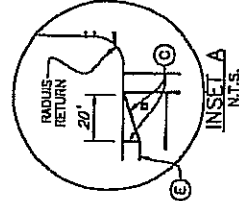
## NOTES:

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) 6" SOLID WHITE STRIPE
- (C) 6" SOLID YELLOW STRIPE
- (D) 12" SOLID WHITE STRIPE
- (E) 4" SOLID WHITE STRIPE
- (F) 4" BROKEN WHITE STRIPE

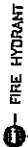


SHEET NUMBER 48	
N. MIRO STREET	
STRIPING PLAN	
DESIGNED NJO	CHECKED KFW
DETAILED NJO	CHECKED CMR
DATE FEB. 2003	SHEET 3 OF 7
PARISH ORLEANS	FEDERAL PROJECT ER-ERP1(059)
STATE PROJECT 704-36-0043	

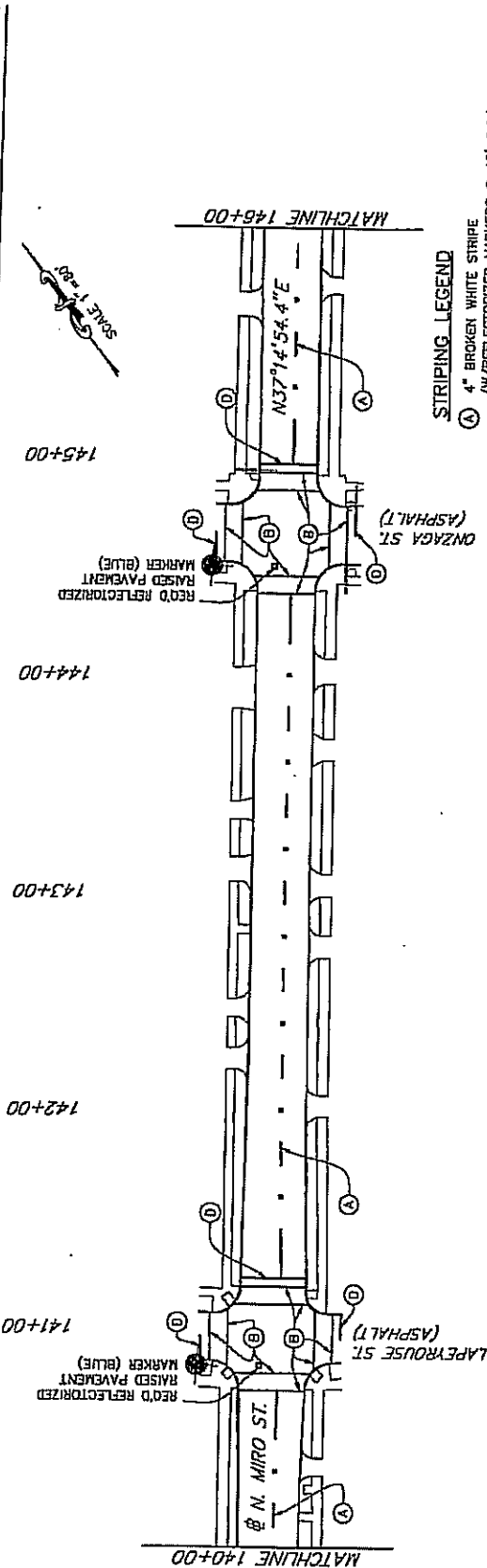


# FINAL PLANS

## UTILITY LEGEND

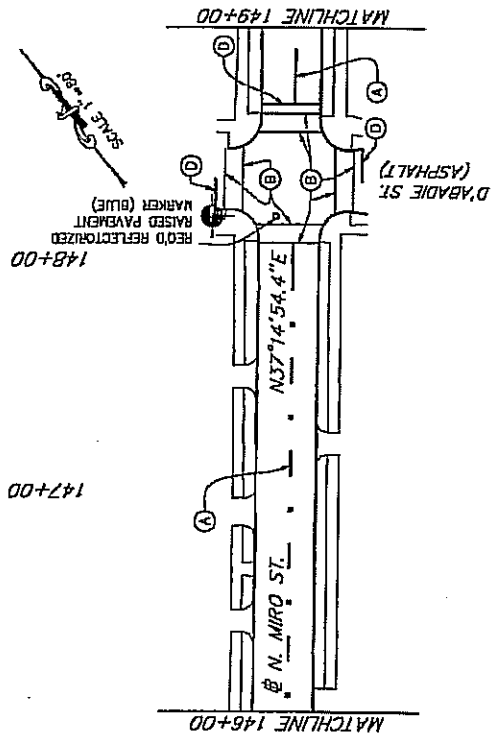


FIRE HYDRANT



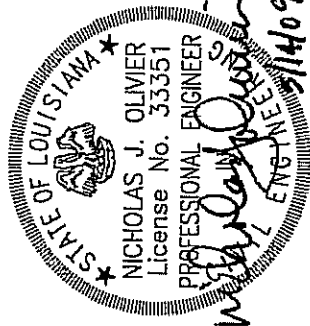
## STRIPING LEGEND

- (A) 4" BROKEN WHITE STRIPE (W/REFLECTORIZED MARKERS @ 40' O.C.)
- (B) 6" SOLID WHITE STRIPE
- (C) 6" SOLID YELLOW STRIPE
- (D) 12" SOLID WHITE STRIPE
- (E) 4" SOLID WHITE STRIPE
- (F) 4" BROKEN WHITE STRIPE



## 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.



SHEET NUMBER		49	
PROJECT		ORLEANS	
FEDERAL PROJECT		ER-ERP1(059)	
STATE PROJECT		704-36-0043	
DESIGNED	NJO	CHECKED	KRW
DESIGNED	CHW	CHECKED	NJO
DATE	FEB, 2009	SHEET	4 OF 7
REASON DESCRIPTION		BT	
N. MIRO STREET		STRIPING PLAN	
CIVIL DESIGN & CONSTRUCTION INC.		DOTA	

## FINAL PLANS

### UTILITY LEGEND

**FIRE HYDRANT**

NY - 36810428558

$$Y = 540059.4129$$
00  
DATED

12/13/2013

00 14701 - 415 NIG38  
BEGIN STA - 10441

BEGIN STA.: 10+41.90  
END STA.: 10+70.17

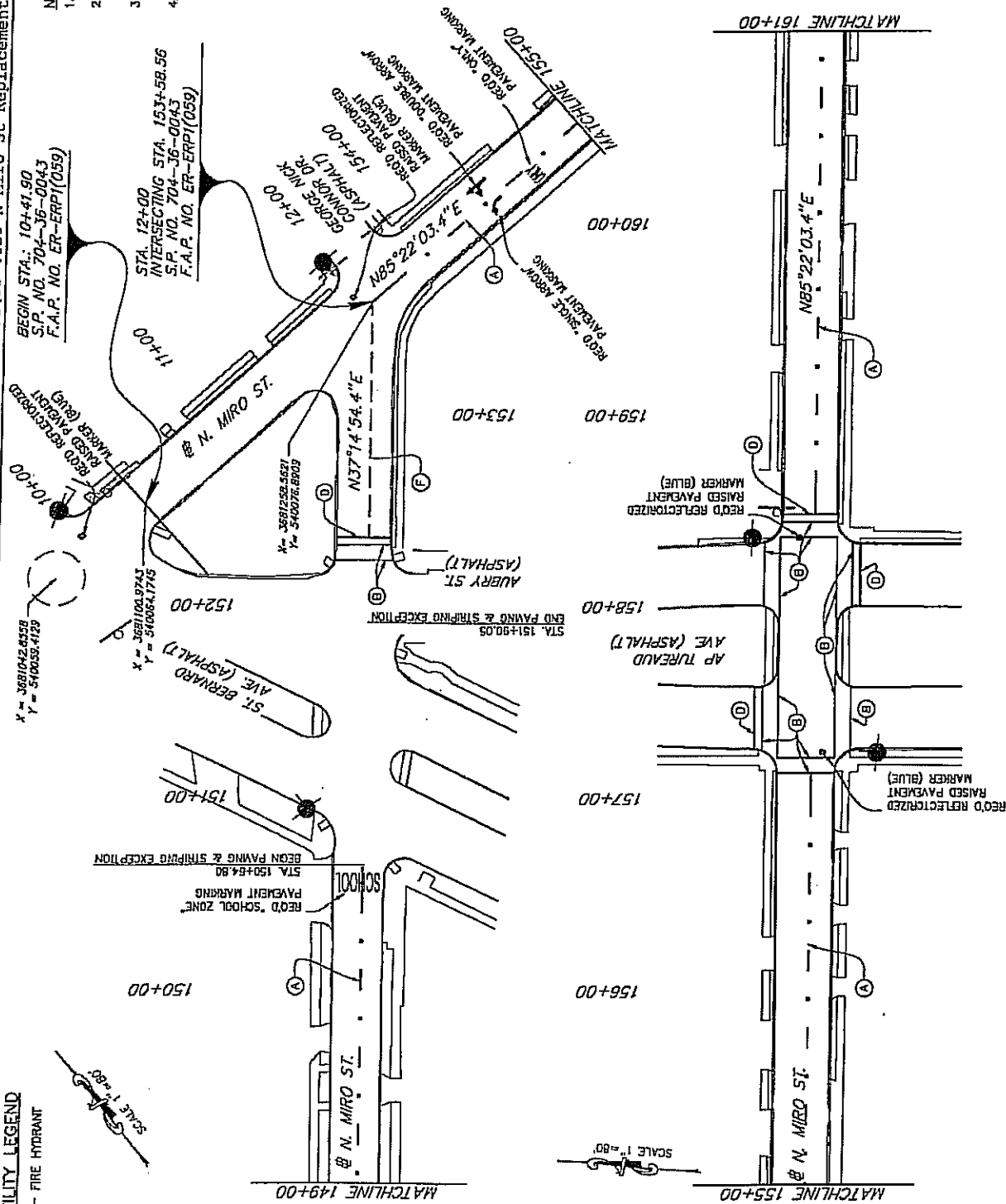
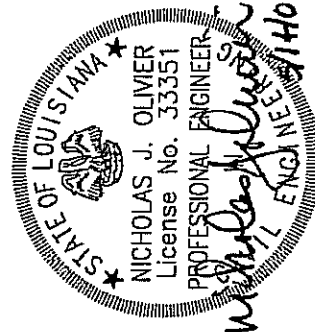
S.P. NO. 704-35-0043  
F.A.P. NO. EP-EPB111111

**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.
4. NO STRIPING WILL BE PLACED BETWEEN STA. 150+84.80 AND STA. 151+81.05.

### STRIPING LEGEND

- 4" BROKEN WHITE STRIPE (W/REFLECTORIZED MARKERS @ 40' O.C.)  
 (A) 6" SOLID WHITE STRIPE  
 (B) 8" SOLID YELLOW STRIPE  
 (C) 12" SOLID WHITE STRIPE  
 (D) 4" SOLID WHITE STRIPE  
 (E) 4" BROKEN WHITE STRIPE  
 (F)



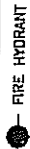
J-114

	N. MIRO STREET		STRIPING PLAN	NO.	DATE	REVISION DESCRIPTION	DESIGNED	NJO	PARISI	ORLEANS	SHEET NUMBER	50	
							CHECKED	KEW					FEDERAL PROJECT
							RETAILED	CMR					STATE PROJECT
							CHECKED	NJO					DATE
						SHEET	5 OF 7						

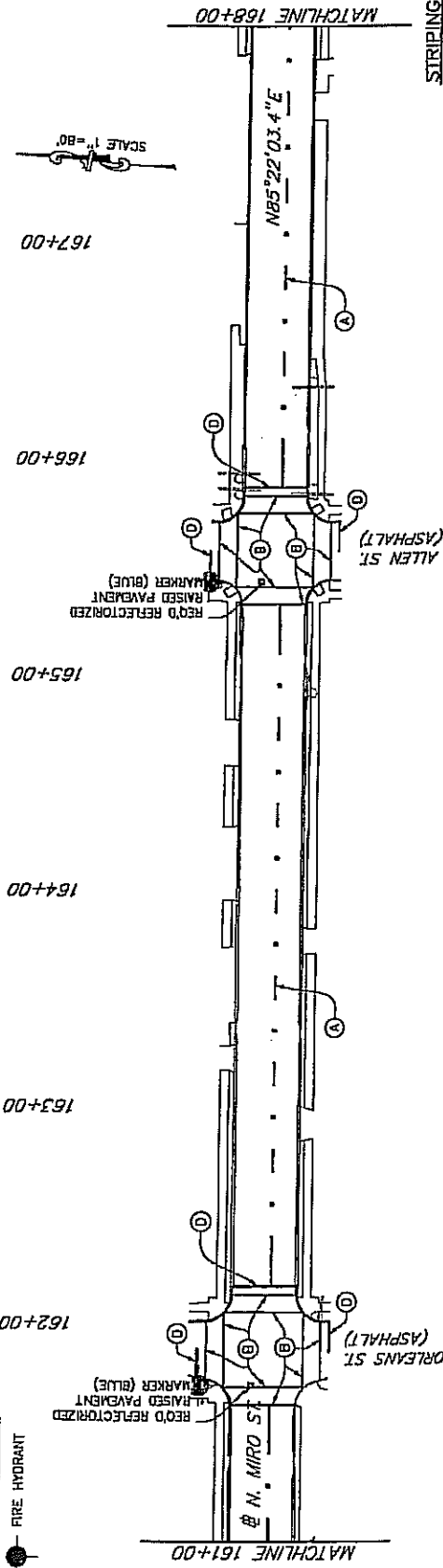
# FINAL PLANS

Q:\PROJECTS\08-4629 New Orleans Roads Grp 11\Drawings\Revised Final Plans 051409\N Miro St\08-4629 N Miro St Replacement Striping Plan.dwg \$DATE\$ \$TIME\$

## UTILITY LEGEND

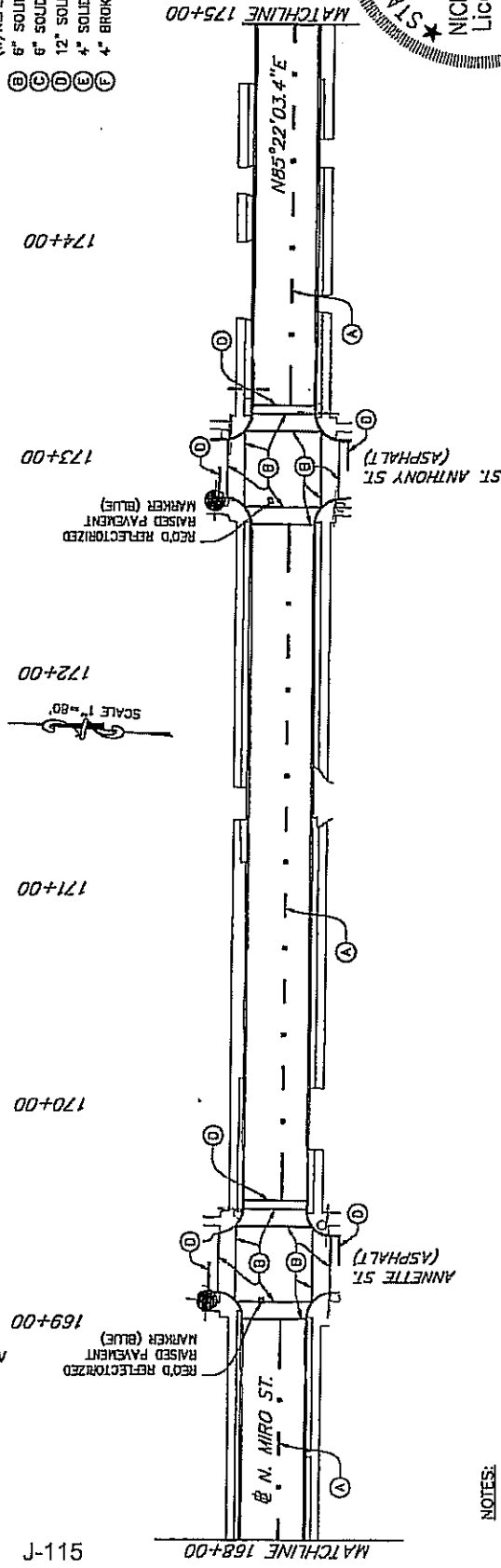


FIRE HYDRANT



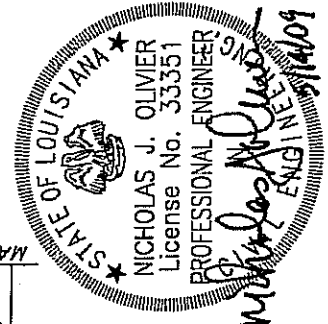
## STRIPING LEGEND

- (A) 4" BROKEN WHITE STRIPE (W/REFLECTORIZED MARKERS @ 40' O.C.)
- (B) 6" SOLID WHITE STRIPE
- (C) 6" SOLID YELLOW STRIPE
- (D) 12" SOLID WHITE STRIPE
- (E) 4" SOLID WHITE STRIPE
- (F) 4" BROKEN WHITE STRIPE



## 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.



SHEET NUMBER		51	
PROJECT		704-36-0043	
PARISH		ORLEANS	
FEDERAL PROJECT		ER-ERPT(059)	
DATE		FEB. 2009	
SHEET		6 OF 7	
REVISION DESCRIPTION		DT	
N. MIRO STREET		STRIPING PLAN	
CIVIL DESIGN & CONSTRUCTION INC.			

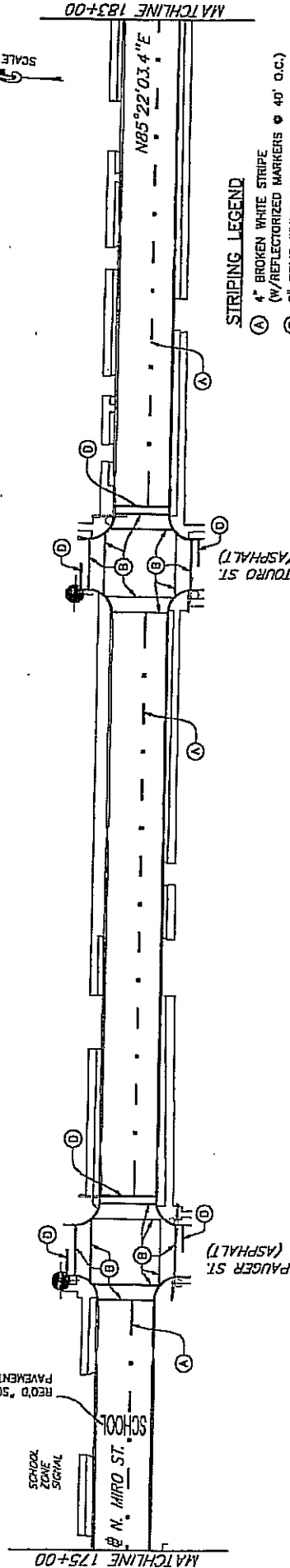
# FINAL PLANS

Q:\PROJECTS\08-4629 New Orleans Roads Grp 11\Drawings\Revised Final Plans 051409\N Miro St\08-4629 N Miro St Replacement Striping Plan.dwg \$TIMES

## UTILITY LEGEND

FIRE HYDRANT

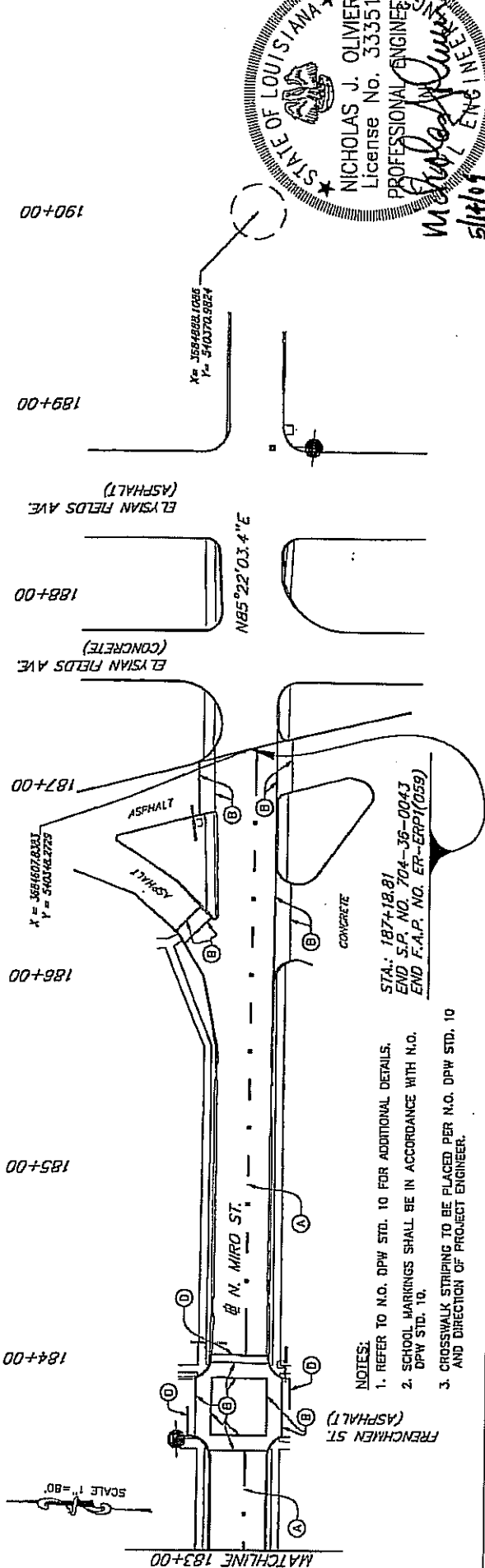
SCHOOL ZONE SIGNAL  
SCHOOL ZONE MARKING  
READ "SCHOOL ZONE"



## STRIPING LEGEND

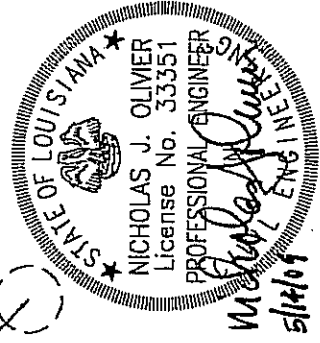
- (A) 4" BROKEN WHITE STRIPE (W/REFLECTORIZED MARKERS @ 40' O.C.)
- (B) 6" SOLID WHITE STRIPE
- (C) 6" SOLID YELLOW STRIPE
- (D) 12" SOLID WHITE STRIPE
- (E) 4" SOLID WHITE STRIPE
- (F) 4" BROKEN WHITE STRIPE

J-116



- 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.

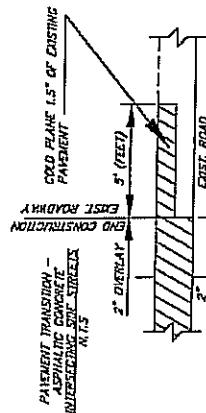
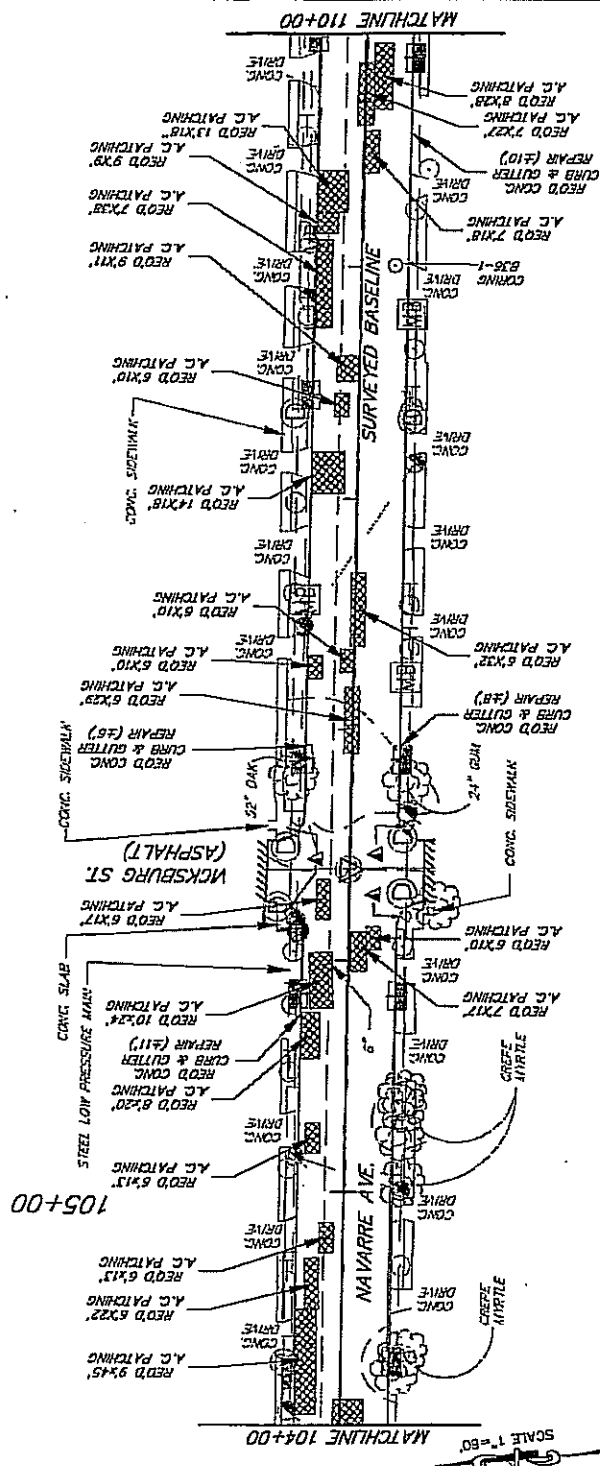
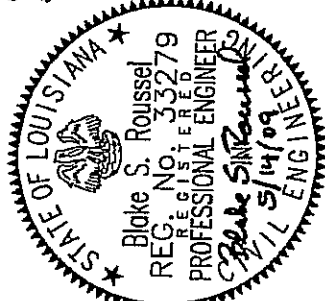
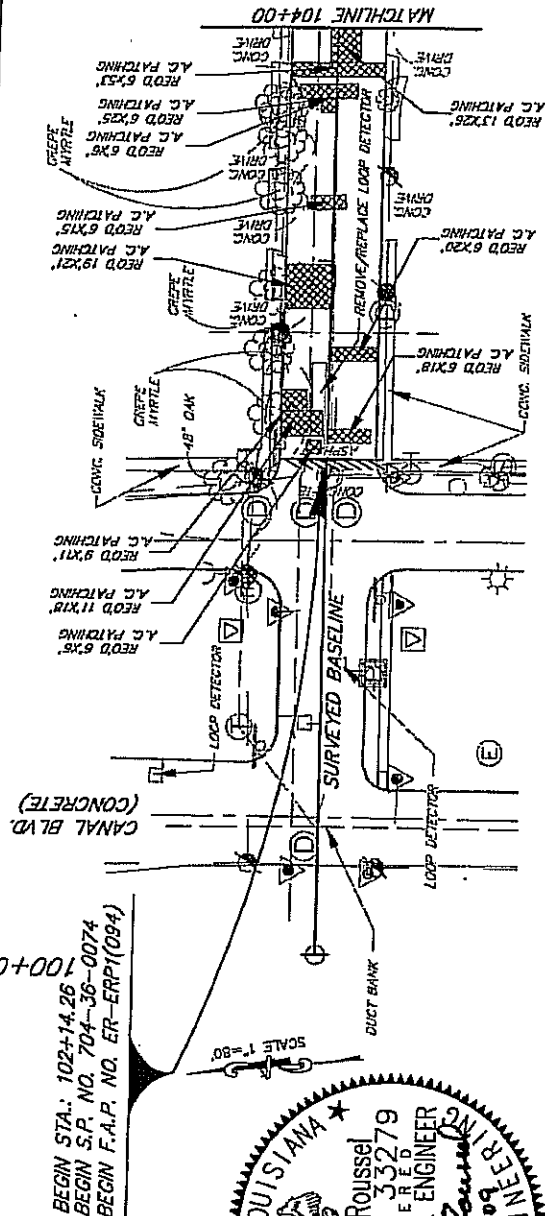
STA.: 187+18.81  
END S.P. NO. 704-36-0043  
END F.A.P. NO. ER-ERP1(059)



CIVIL DESIGN & CONSTRUCTION INC.					
N. MIRO STREET		ORLEANS		52	
STRIPING PLAN		ER-ERP1(059)			
REVISION DESCRIPTION		DATE		BY	
NO.		DATE		BY	
DESIGNED		NJO		KRW	
CHECKED		NJO		KRW	
DRAWN		NJO		KRW	
DATE		FEB. 2008		7 OF 7	
SHEET		7 OF 7			
STATE PROJECT		704-36-0043			

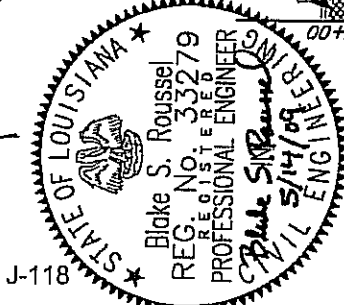
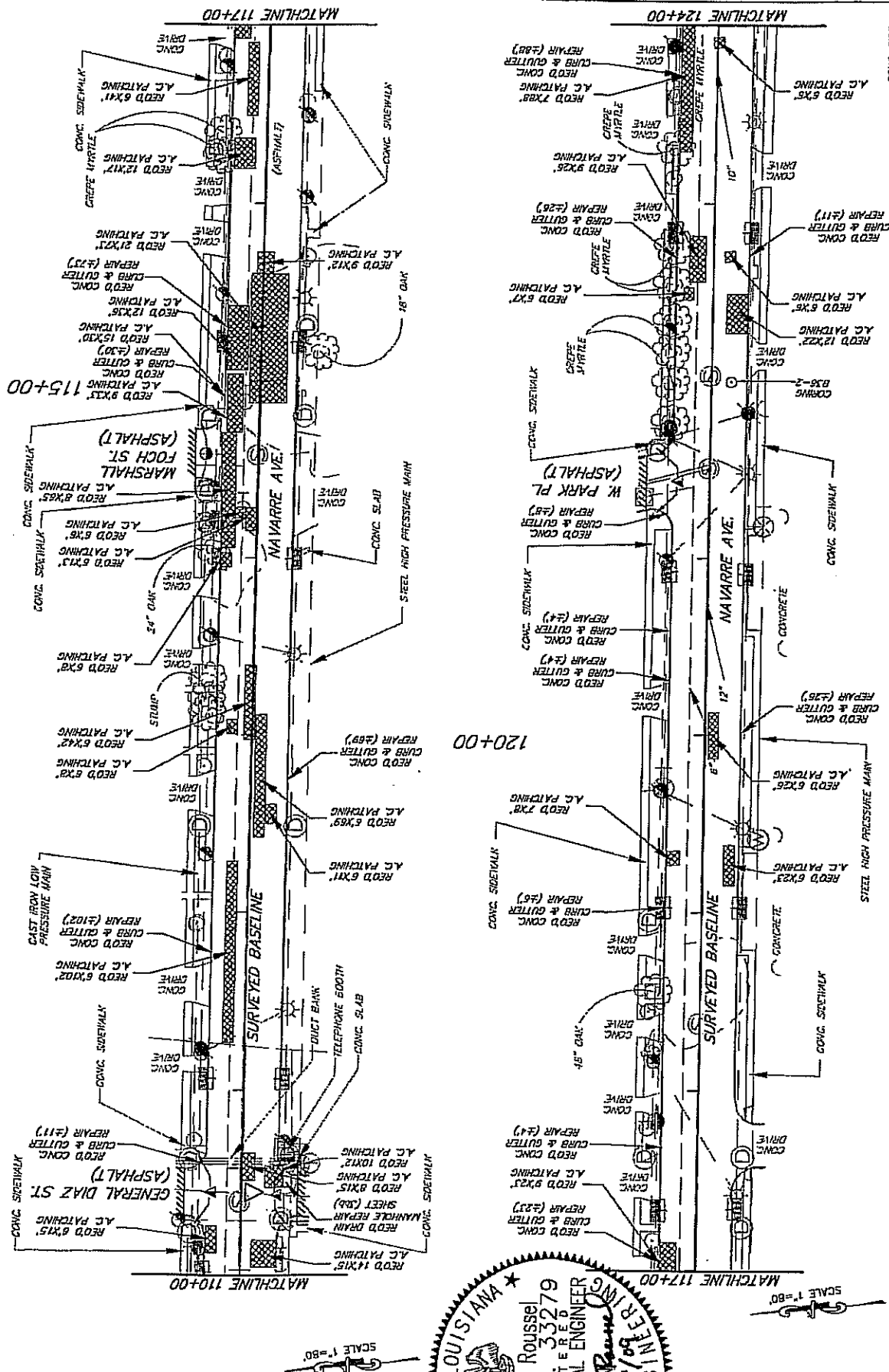
# FINAL PLANS

- NOTES:**
1. CONTRACTOR SHALL INSTALL AND MAINTAIN RAMPS FOR UTILITY STRUCTURES AND VERTICAL PAVEMENT FACES 2" OR GREATER IN THE ROADWAYS TO MAINTAIN TRAFFIC BETWEEN MILLING AND OVERLAY OPERATIONS (NO DIRECT PAVEMENT)
  2. CONTRACTOR SHALL VERIFY HEIGHT CLEARANCE FOR TREE CANOPY AND OTHER OVERHEAD STRUCTURES PRIOR TO CONSTRUCTION. NOT ALL OVERHEAD UTILITIES ARE SHOWN IN PLANS.
  3. ONLY STRIPING WITHIN PROJECT LIMITS IS REQUIRED. STRIPING REQUIRED AT EACH INTERSECTION TO BE IN ACCORDANCE WITH M.C. DPW STD. 10.
  4. UTILITIES HAVE BEEN LOCATED USING FIELD MARKINGS AND AS-BUILT INFORMATION. LOCATIONS TO BE FIELD VERIFIED BY CONTRACTOR. NOT ALL UTILITIES MAY BE 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. (SEE PAVEMENT TRANSITION)
  6. ALL REPAIR LOCATIONS AND DIMENSIONS ARE APPROXIMATE. ACTUAL LOCATIONS AND AREAS TO BE VERIFIED IN THE FIELD BY THE PROJECT ENGINEER PRIOR TO CONSTRUCTION. SEE M.C. DPW STD. 2, 4, & 5 FOR CONCRETE PAVEMENT REPAIRS.
  7. ANY NECESSARY CURB AND SIDEWALK REMOVAL REQUIRED FOR ADA RAMP WORK TO MEET ADA REQUIREMENTS SHALL BE INCIDENTAL TO ADA RAMP WORK.
- LEGEND:**
- REMOVED HANDICAP RAMP (TYPE A)
  - REMOVED/REPLACE APPROX/SW
  - REMOVED HANDICAP RAMP (TYPE B)
  - REMOVED/REPLACE APPROX/SW
  - REMOVED INTERSECTION STRIPING PER M.C. DPW STD 10 (TYPICAL). SEE NOTE 3.
  - APPROXIMATE CORING LOCATION

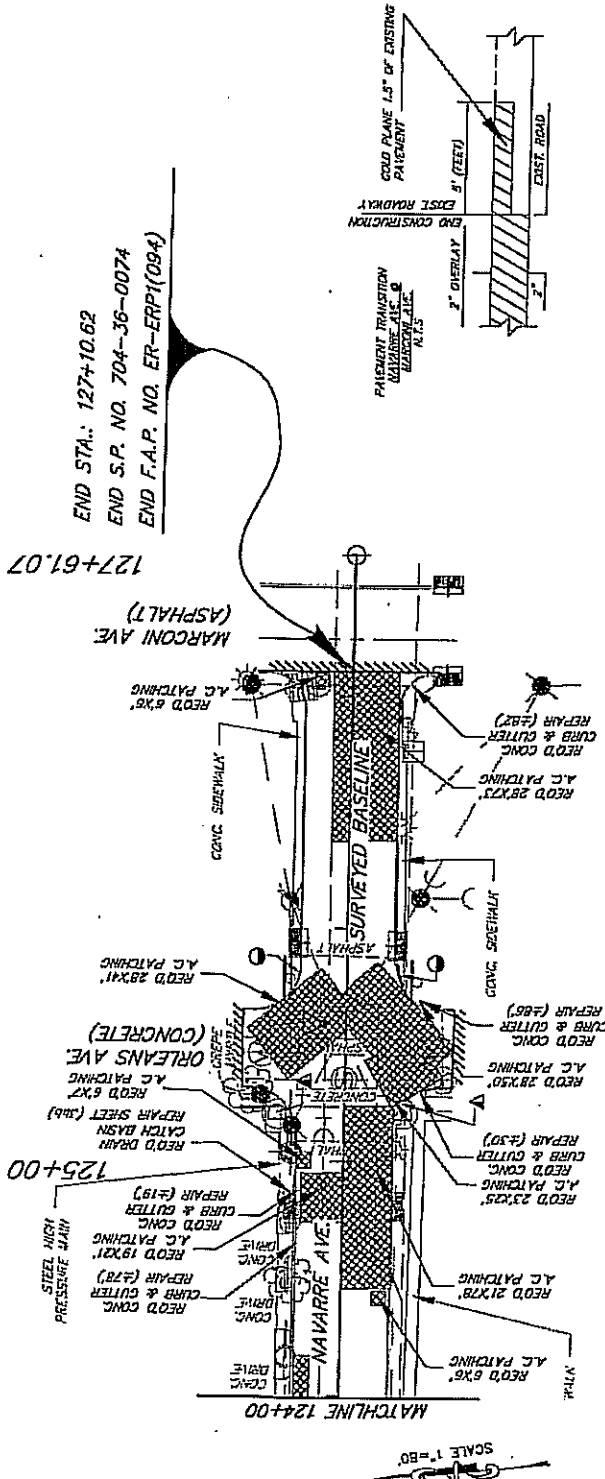


SHEET NUMBER		53	
PROJECT		704-36-0074	
FEDERAL PROJECT		ER-ERP1(094)	
DATE		FEB 2009	
SHEET		1 OF 3	
BY			
REVISION DESCRIPTION			
NO.		DATE	
NAVARRA AVENUE		PLAN SHEET	
STANLEY CONSULTANTS INC.			

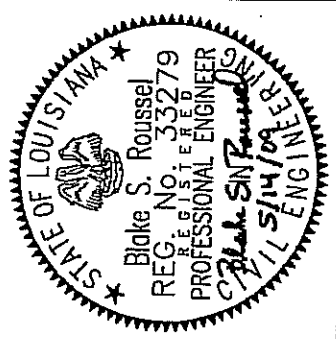
## FINAL PLANS



FINAL PLANS

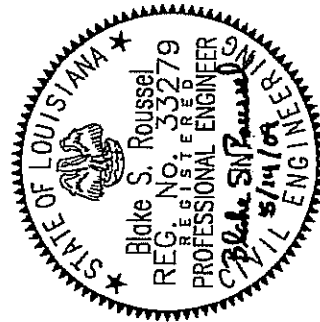
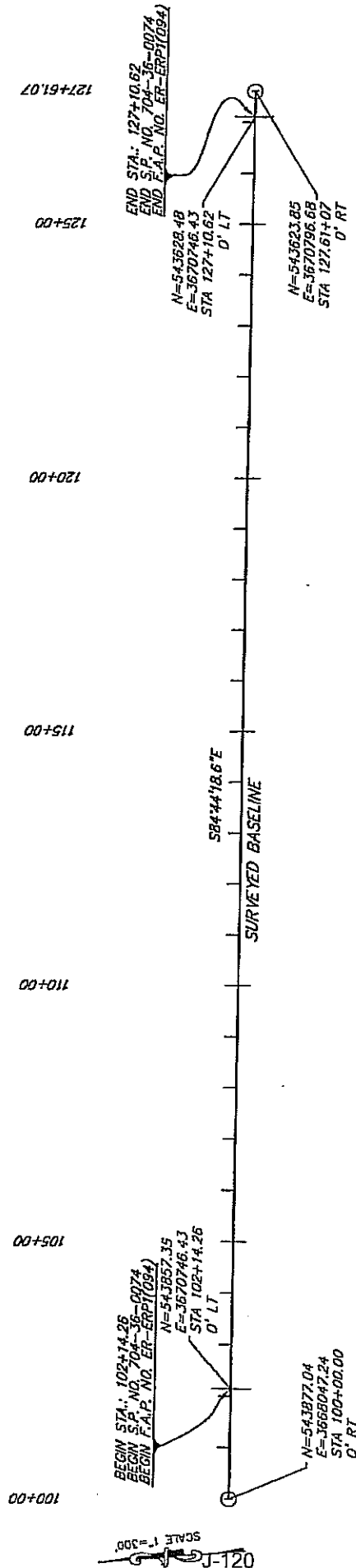


J-119



SHEET NUMBER		55	
PROJECT		ORLEANS	
FEDERAL PROJECT		ER-ERP1(094)	
STATE PROJECT		704-36-0074	
DESIGNED	BSR	CHECKED	URS
DETAILS	BAS	CHECKED	BSR
DATE	FEB 2009	SHEET	3 OF 3
REVISION DESCRIPTION		BY	
NO.		DATE	
NAVARRE AVENUE			
PLAN SHEET			
STANLEY CONSULTANTS INC.			

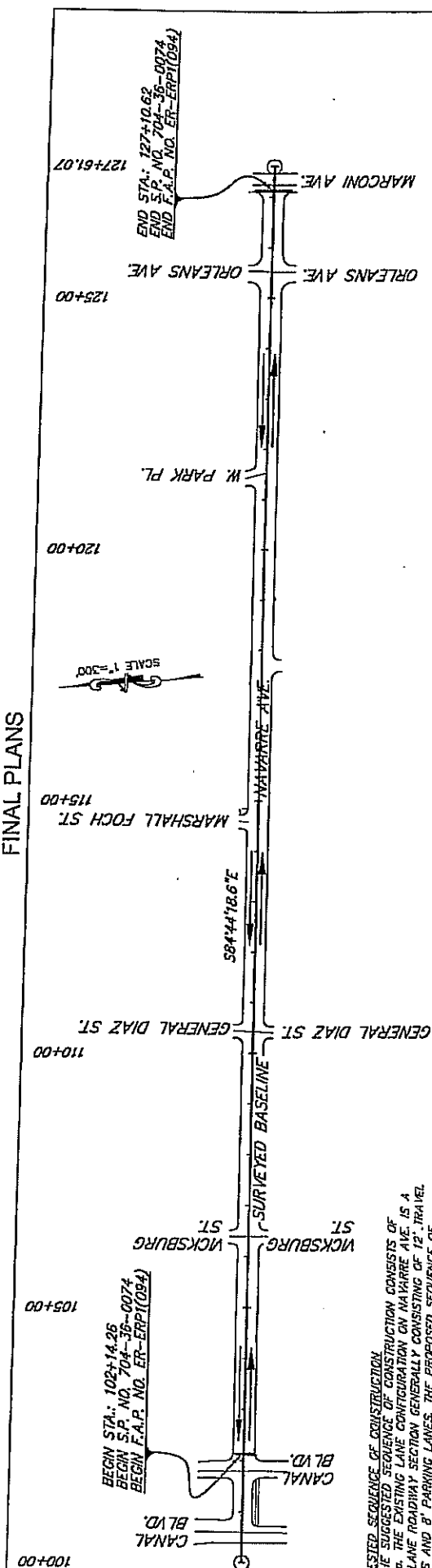
# FINAL PLANS



- NOTES:
1. HORIZONTAL CONTROL POINTS WERE ESTABLISHED BY G.P.S. STATIC OBSERVATIONS ON SEPTEMBER 29, 2008.
  2. COORDINATES SHOWN HEREON ARE NAD83, HARN (HPGN) STATE PLANE, 1702 LA SOUTH ZONE, US SURVEY FOOT.
  3. VERTICAL CONTROL NOT REQUIRED.

SHEET NUMBER		56	
PROJECT		ORLEANS	
FEDERAL PROJECT		ER-ERP1(094)	
STATE PROJECT		704-36-0074	
DESIGNED	BSR	DATE	FEB 2009
CHECKED	JRS	BY	1 OE 1
DETAILS	BAS		
CHECKED	BSR		
REVISION DESCRIPTION			
NAVARRE AVENUE			
GEOMETRIC LAYOUT			
Stanley Consultants, Inc.			





1. THE SUGGESTED SEQUENCE OF CONSTRUCTION CONSISTS OF

a. THE EXISTING LANE CONFIGURATION ON MAHARRE AVE. IS A TWO-LANE ROADWAY SECTION GENERALLY CONSISTING OF 12' TRAVEL LANES AND 8' PARKING LANES. THE PROPOSED SEQUENCE OF CONSTRUCTION ASSUMES ADVANCED WARNING TO THE HOMEOWNERS PER GENERAL NOTE 1.5, PAGE 16, THAT STREET PARKING WILL BE AVAILABLE DURING THE CONSTRUCTION ACTIVITIES ON BOTH OF THE EXISTING TRAVEL LANES.

2. 8"GC DEPTH WILL BE REQUIRED FOR CONSTRUCTION OF PAVEMENT REPAIR, BETWEEN THE PROJECT LIMITS FOR THE EASTBOUND AND WESTBOUND TRAVEL LANES.

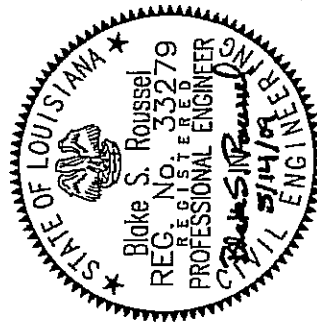
6. THE PROJECT ENGINEER SHALL IDENTIFY AND ADEQUATELY MARK THE PAVEMENT AREAS TO BE PREPARED IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS. THE PAVEMENT REPAIRS ON MAINWHEEL WILL CONSIST OF AC PAVEMENT PATCHING, AS DETERMINED BY FIELD INSPECTION. CERTAIN AREAS OF THE ROADWAY WILL REQUIRE LEVELING AND ADJUST THE CROSS SLOPE AND LONGITUDINAL SLOPE. THE PROJECT ENGINEER SHALL INSPECT THE REMAINING ASPHALT CONCRETE PAVEMENT AREAS EXISTING WITH ONE-INCH OR LESS OF ASPHALT CONCRETE. THE PROJECT ENGINEER SHALL BE INSTRUCTED WHICH AREAS SHALL BE COLD-PLANTED ASPHALT CONCRETE AND WHICH AREAS SHALL BE HOT-PLANTED ASPHALT CONCRETE. IN THESE AREAS, THE ENTIRE PROPOSED THICKEN BE OVERLAPPED WITH TWO (2) INCHES AVG. DEPTH OF SUPERPAVE ASPHALT CONCRETE.

2. THE CONTRACTOR WILL 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 MAY CLOSE A PORTION OF ONE OF THE EASTBOUND LANES IN ACCORDANCE WITH HIS WORK PLAN, CONSTRUCTING THE REQUIRED PAVEMENT AND CURB AND GUTTER. DURING THE PERIOD OF TEMPORARY CONSTRUCTION, TRAFFIC FLOWING IN THIS DIRECTION WOULD CORRESPOND TO A ROAD SPECIAL DETAILS 16-02 ENTITLED "TRAFFIC CONTROL LAYOUT FOR LANE CLOSURES LESS THAN 1/4 MILE IN LENGTH". TO GO AROUND TEMPORARY TRAFFIC CONTROL, GENERAL NOISE SHEET AND SIGNAGE FROM AVOIDED CURRENTLY IN USE BY DOT. THE SEQUENCE WOULD THEN BE REPEATED ON THE WESTBOUND LANES.

4. THE CONTRACTOR WILL 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 WILL BE INDICATED ON CONTRACTOR'S APPROVED TC PLANS.

[illegible]

# FINAL PLANS

## NOTES:

1. ONLY STRIPING WITHIN PROJECT LIMITS IS REQUIRED. STRIPING REQUIRED AT EACH INTERSECTION TO BE IN ACCORDANCE WITH N.C. DPW STD. 10.
2. SCHOOL MARKINGS SHALL BE IN ACCORDANCE WITH N.C. 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.

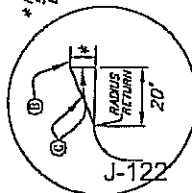
## STRIPING LEGEND

- ① 4" BROKEN YELLOW STRIPE (W/ REFLECTORIZED MARKERS @ 40' O.C.)
- ② 4" SOLID WHITE STRIPE
- ③ 6" SOLID YELLOW STRIPE
- ④ 6" SOLID WHITE STRIPE
- ⑤ 12" SOLID WHITE STRIPE
- ⑥ 8" SOLID WHITE STRIPE

## UTILITY LEGEND:

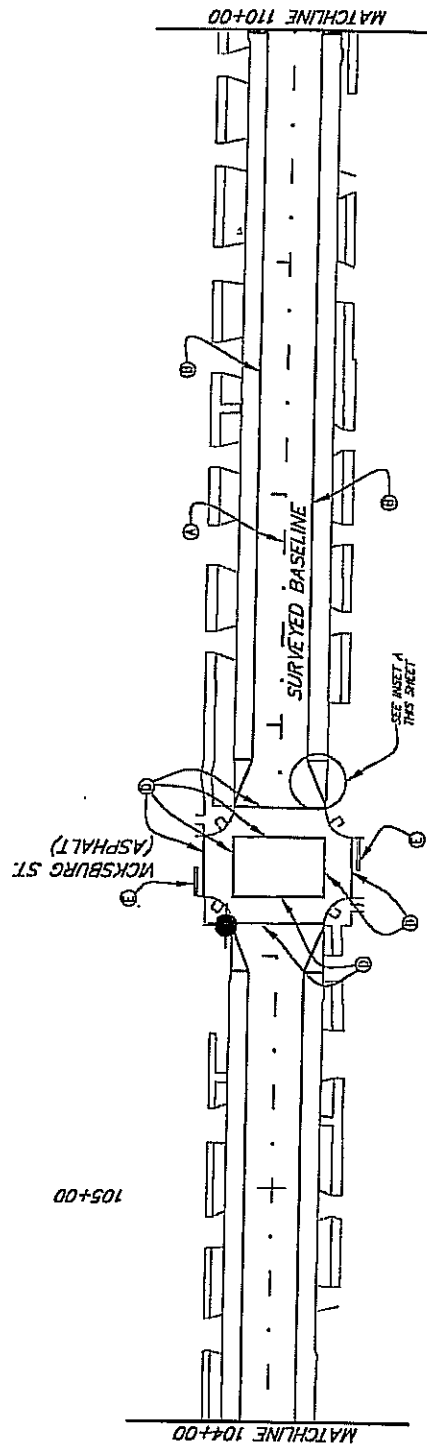
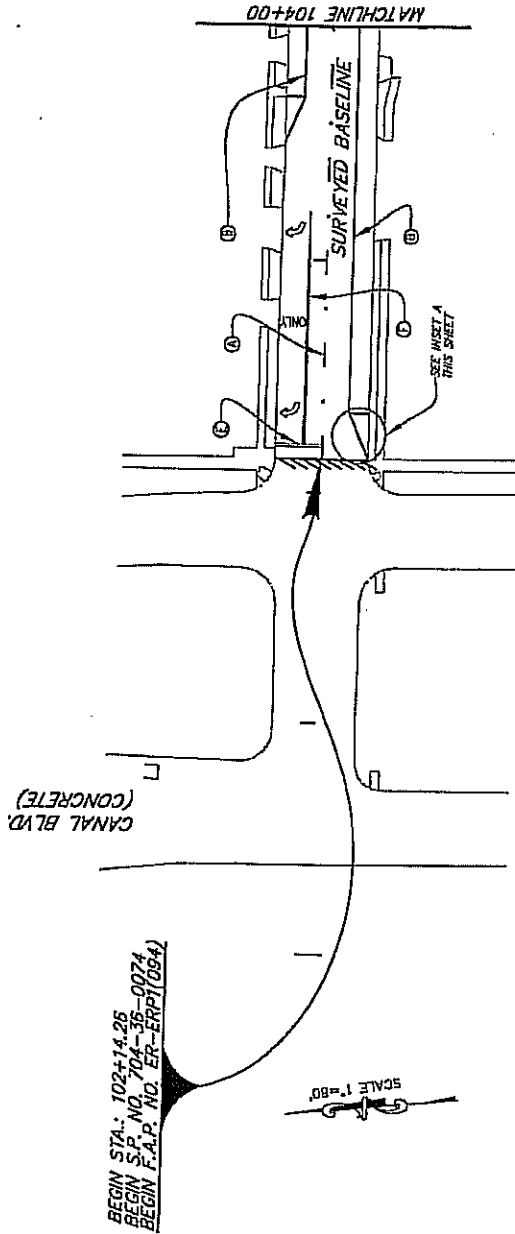
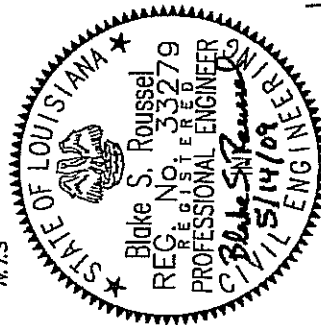
- FIRE HYDRANT LOCATION

\* REFER TO TYPICAL SECTIONS SHEETS 2-21 FOR PARKING LANE WIDTHS



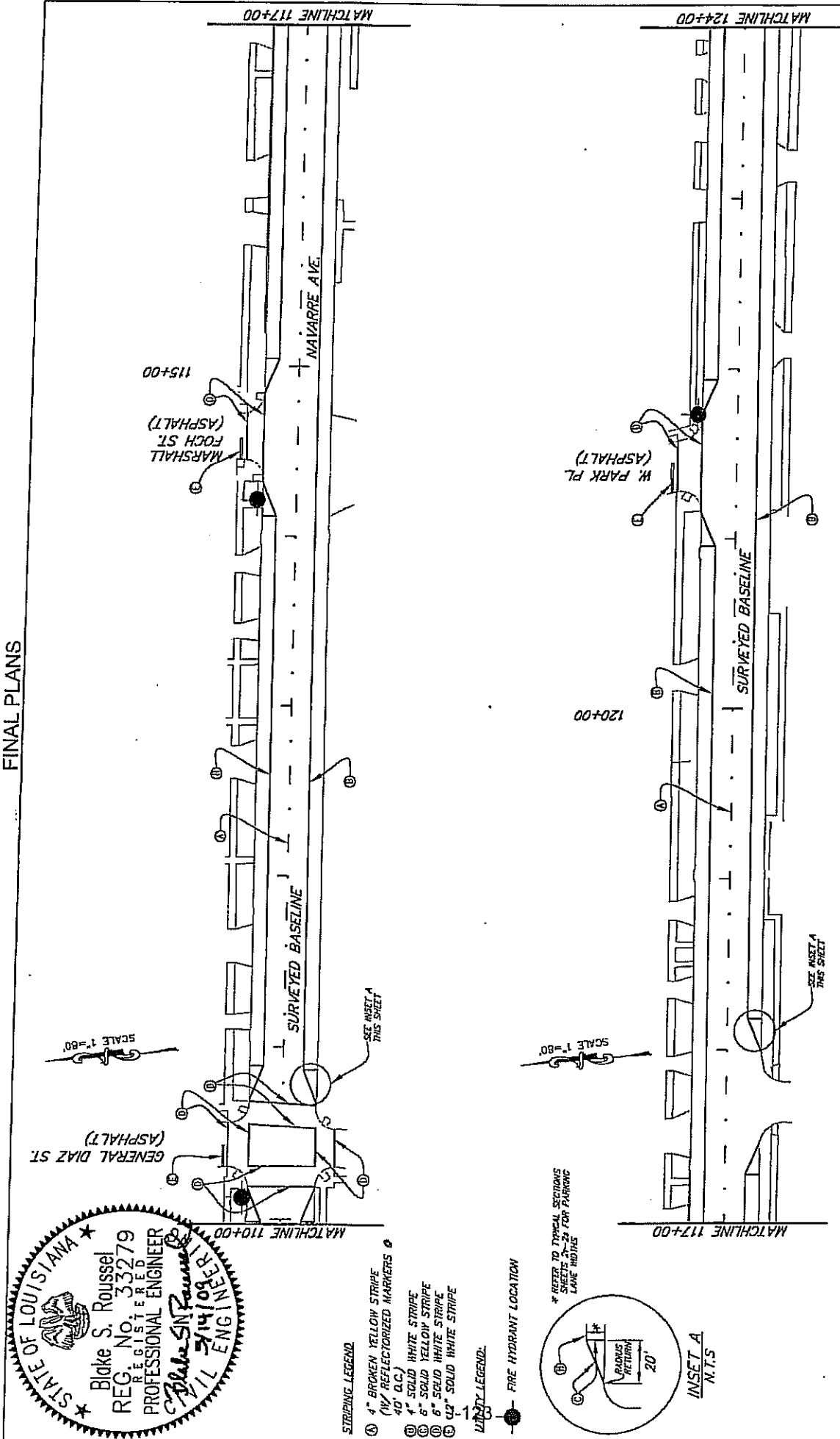
J-122

INSET A  
N.T.S.



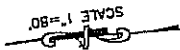
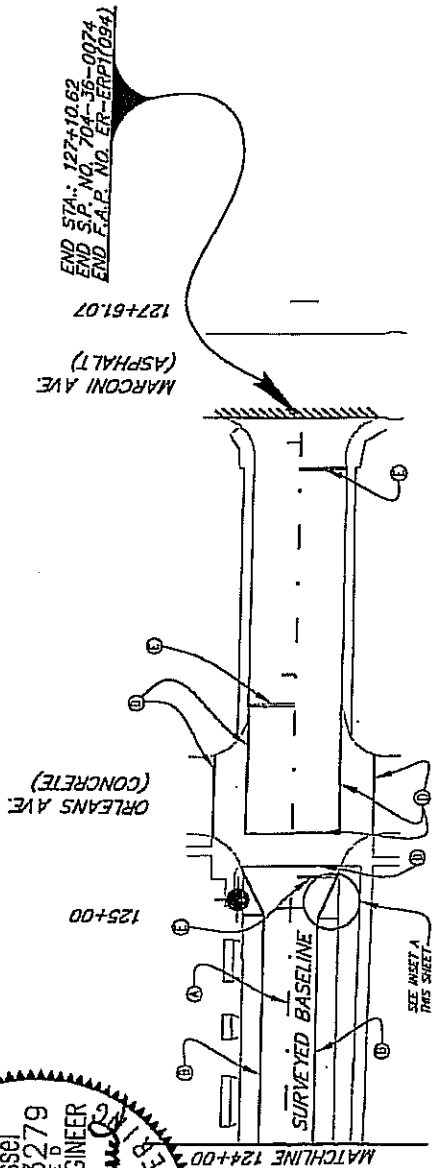
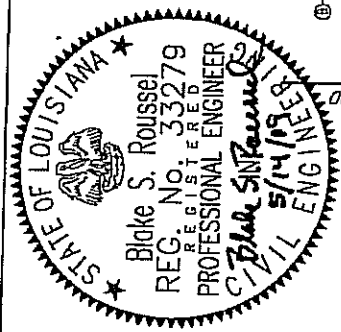
STANLEY CONSULTANTS INC.		NAVARRA AVENUE		STRIPING PLAN		STATE OF LOUISIANA		ORLEANS		PARISH		FEDERAL PROJECT		STATE PROJECT		SHEET NUMBER	
58		704-36-0074		ER-ERP1(094)		MAY 2009		1 OF 3		DATE		SHEET		BY		REVISION DESCRIPTION	

# FINAL PLANS



SHEET NUMBER		59
PROJECT		ORLEANS
FEDERAL PROJECT		ER-ERP1(094)
STATE PROJECT		704-36-0074
DATE		MAY 2009
SHEET		2 OF 3
BY		
REVISION DESCRIPTION		
NO.		DATE
NAVARRA AVENUE		STRIPING PLAN
STANLEY CONSULTANTS INC.		

# FINAL PLANS



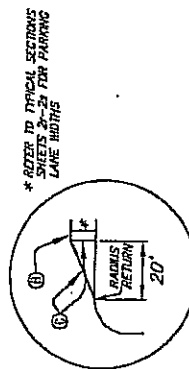
J-124

## UTILITY LEGEND:



## STRIPING LEGEND:

- ① 4" BROKEN YELLOW STRIPE (W/ REFLECTORIZED MARKERS @ 10' O.C.)
- ② 4" SOLID WHITE STRIPE
- ③ 6" SOLID YELLOW STRIPE
- ④ 6" SOLID WHITE STRIPE
- ⑤ 12" SOLID WHITE STRIPE



INSET A  
N.T.S.



NAVARRE AVENUE

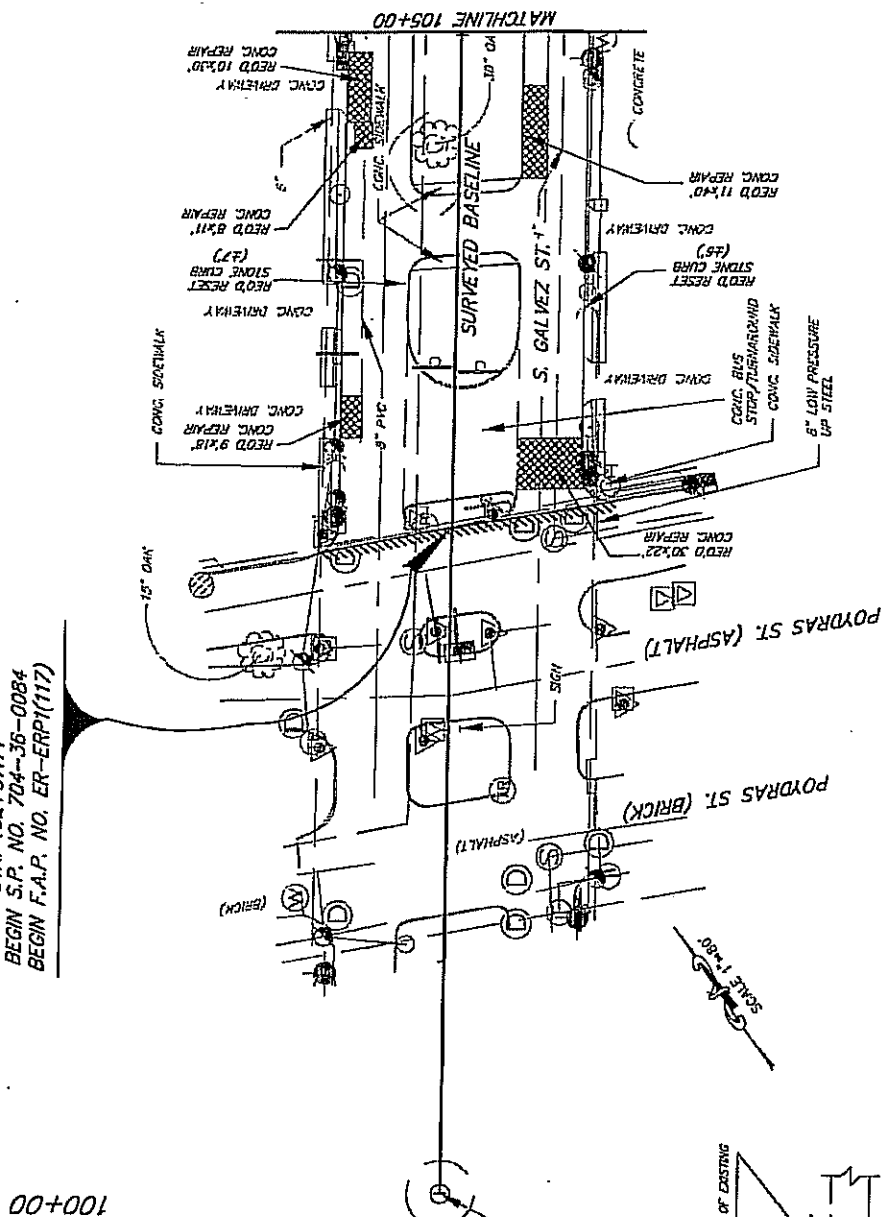
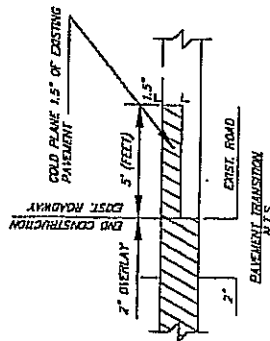
STRIPING PLAN



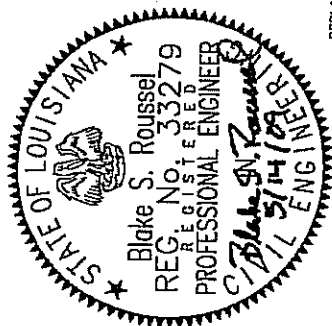
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		PARISH		ORLEANS	
		FEDERAL PROJECT		ER-ERP1(094)	
		STATE PROJECT		704-36-0074	
		DESIGNED CHECKED JRS		MAY 2009	
		DETAILED CHECKED BSR		3 OF 3	
		DATE		BY	
NO.		DATE		REVISION DESCRIPTION	

- 25

- 



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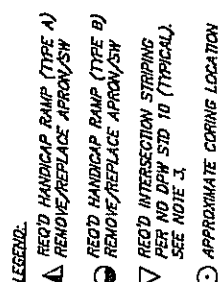






**LEGEND:**

▲	RETO'D HANDICAP RAMP (TYPE A) REMOVE/REPLACE APPROX/5W
●	RETO'D HANDICAP RAMP (TYPE B) REMOVE/REPLACE APPROX/5W
▽	RETO'D INTERSECTION STRIPING PER MD DOTD STD 10 (TYPICAL). SEE NOTE 1.
⊙	APPROXIMATE CORING LOCATION

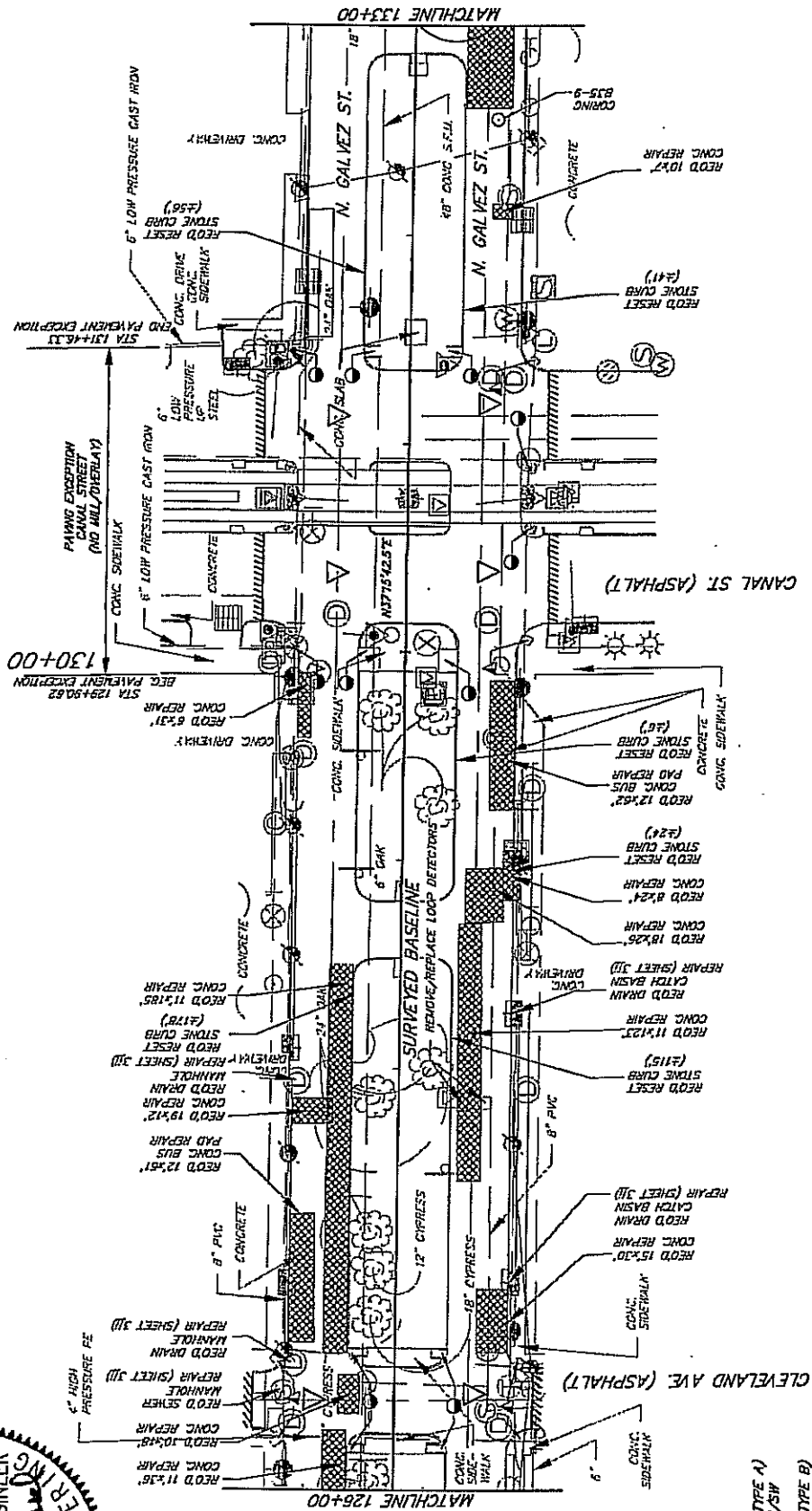
 STANLEY CONSULTANTS INC.			GALVEZ STREET		NO.	DATE	REVISION DESCRIPTION	BY	DESIGNED	BSR	PARISH	ORLEANS	SHEET NUMBER	63
									DETAILED	BAS	FEDERAL PROJECT	ER-ERP1(117)		
PLAN SHEET														



 STANLEY CONSULTANTS INC.	GALVEZ STREET		REMOVAL DESCRIPTION		BY	DATE		NO.	DETAIL CHECKED BAS DETAIL CHECKED BSR		FEDERAL PROJECT ER-ERPI(117)	PARISH ORLEANS	SHEET NUMBER 64
			PLAN SHEET			FEB 2009	4 OF 8	STATE PROJECT 704-36-0084					



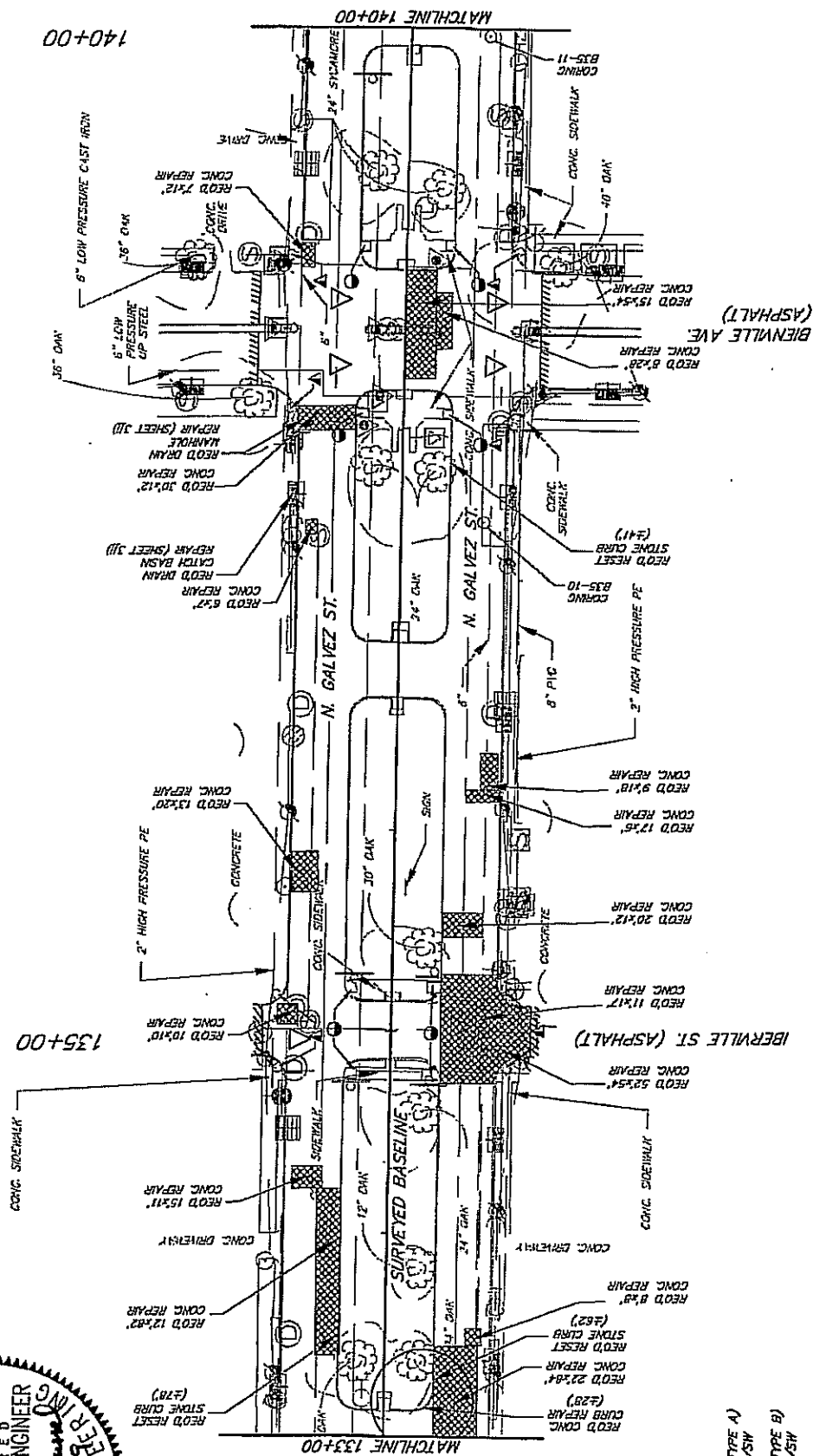
# FINAL PLANS







J-129

- LEGEND:**
- △ PROPOSED HANDICAP RAMP (TYPE A)
  - PROPOSED HANDICAP RAMP (TYPE B)
  - ▽ PROPOSED INTERSECTION STRIPING PER MD DPH STD 10 (TYPICAL) SEE NOTE 3
  - APPROXIMATE CORING LOCATION

SHEET NUMBER		65
PARISH		ORLEANS
FEDERAL PROJECT		ER-ERP1(117)
STATE PROJECT		704-36-0084
DESIGNED		BSR
CHECKED		JPS
DETAILED		BAS
CHECKED		BSR
DATE		FEB 2009
SHEET		5 OF 8
BY		
REVISION DESCRIPTION		
NO.		DATE
PLAN SHEET		
GALVEZ STREET		
STANLEY CONSULTANTS INC.		

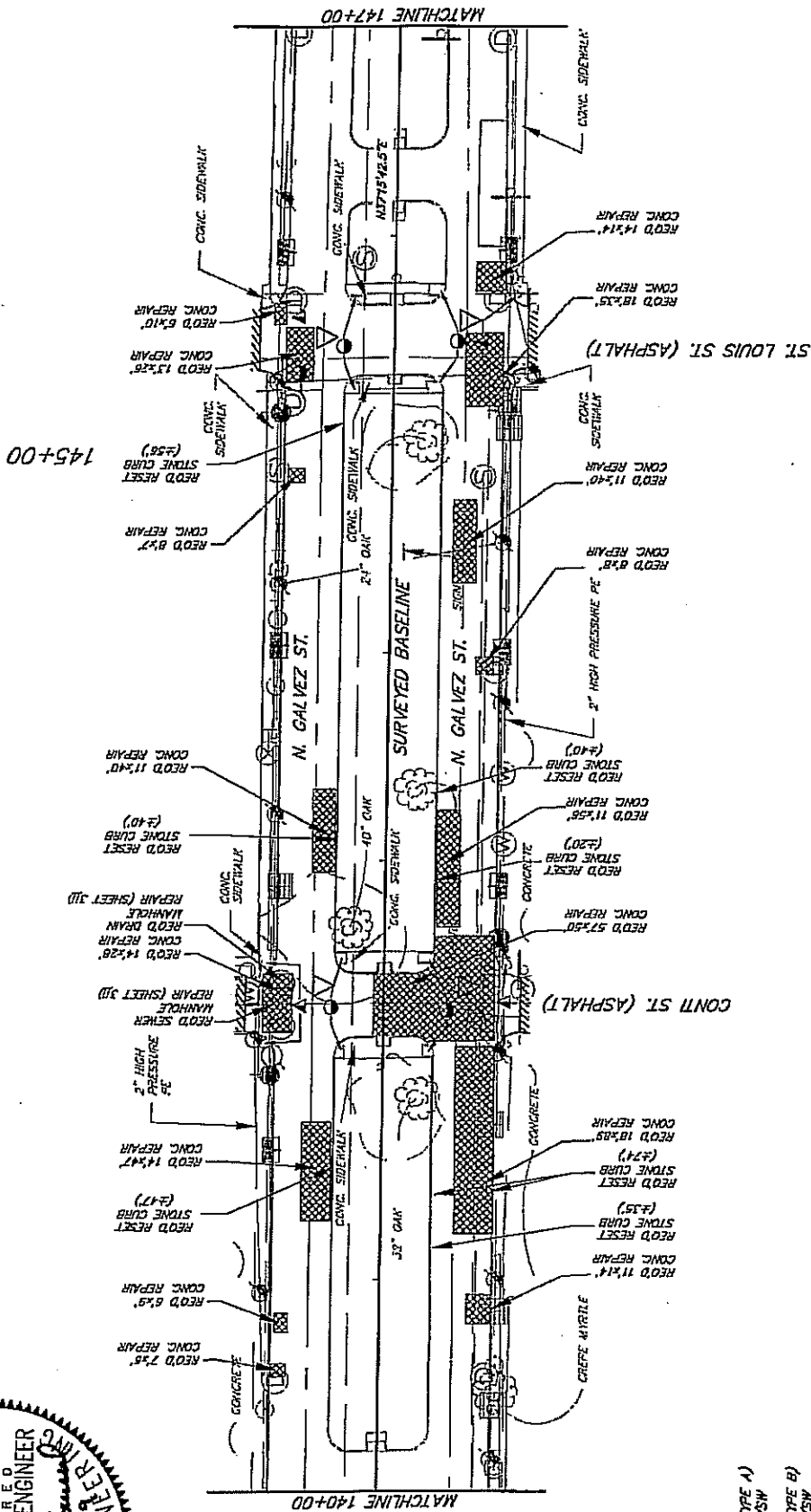


**LEGEND:**

	REQ'D HANDICAP RAMP (TYPE A) REMOVE/REPLACE APRON/SH
	REQ'D HANDICAP RAMP (TYPE B) REMOVE/REPLACE APRON/SH
	REQ'D INTERSECTION STRIPING PER MD OPW STD 10 (TYPICAL). SEE NOTE 3.
	APPROXIMATE CORING LOCATION

[illegible]

# FINAL PLANS





J-131

- LEGEND:
- ▲ RECD. HANDICAP RAMP (TYPE A)
  - ▲ REMOVE/REPLACE APRON/SW
  - RECD. HANDICAP RAMP (TYPE B)
  - REMOVE/REPLACE APRON/SW
  - ▽ RECD. INTERSECTION STRIPING
  - ▽ PER NO. DPH STD. 10 (TYPICAL)
  - SEE NOTE 3
  - APPROXIMATE CORING LOCATION

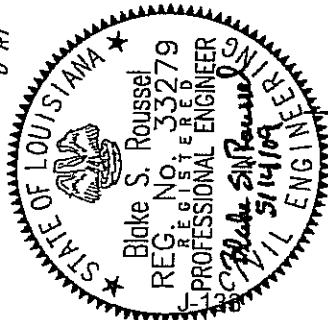
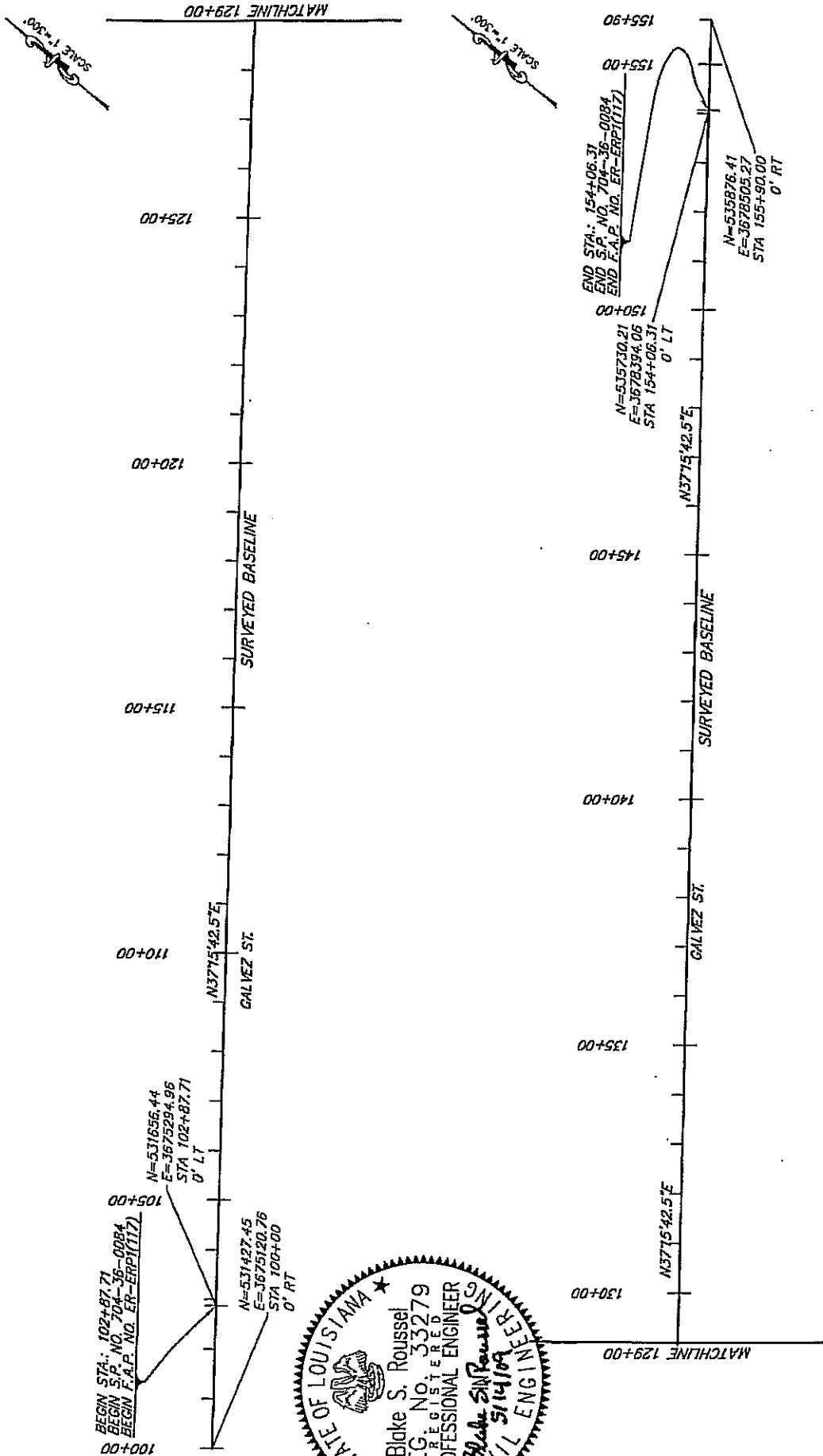
SHEET NUMBER		67	
PROJECT		ORLEANS	
FEDERAL PROJECT		ER-ERP1(117)	
STATE PROJECT		704-36-0084	
DATE		FEB 2009	
BY		7 OF 8	
REVISION DESCRIPTION			
IND.		DATE	
PLAN SHEET		GALVEZ STREET	
STANLEY CONSULTANTS INC.			



STATE OF LOUISIANA ★  
 ★  
 Blake S. Roussel  
 REG. NO. 33279  
 REGISTERED  
 PROFESSIONAL ENGINEER  
 5/14/09

 STANLEY CONSULTANTS INC.	GALVEZ STREET		<table><tr><td>NO.</td><td>DATE</td><td>BY</td><td>REVISION DESCRIPTION</td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr></table>				NO.	DATE	BY	REVISION DESCRIPTION					<table><tr><td>DESIGNED</td><td>BSR</td><td rowspan="2">ORLEANS</td></tr><tr><td>CHECKED</td><td>JRS</td></tr><tr><td>DRAWN</td><td>BAS</td><td rowspan="2">ER-ERPT(117)</td></tr><tr><td>CHECKED</td><td>BSR</td></tr><tr><td>DATE</td><td>FEB 2009</td><td rowspan="2">704-35-0084</td></tr><tr><td>SHEET</td><td>8 OF 8</td></tr></table>	DESIGNED	BSR	ORLEANS	CHECKED	JRS	DRAWN	BAS	ER-ERPT(117)	CHECKED	BSR	DATE	FEB 2009	704-35-0084	SHEET	8 OF 8	<table><tr><td>SHEET NUMBER</td><td>68</td></tr></table>	SHEET NUMBER	68
			NO.	DATE	BY	REVISION DESCRIPTION																											
DESIGNED	BSR	ORLEANS																															
CHECKED	JRS																																
DRAWN	BAS	ER-ERPT(117)																															
CHECKED	BSR																																
DATE	FEB 2009	704-35-0084																															
SHEET	8 OF 8																																
SHEET NUMBER	68																																
PLAN SHEET																																	

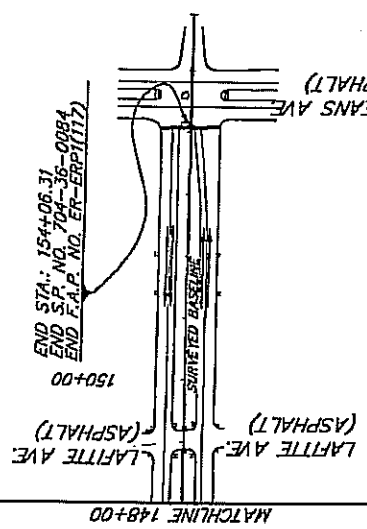
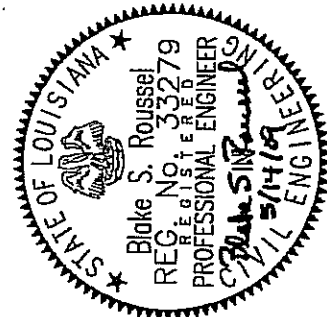
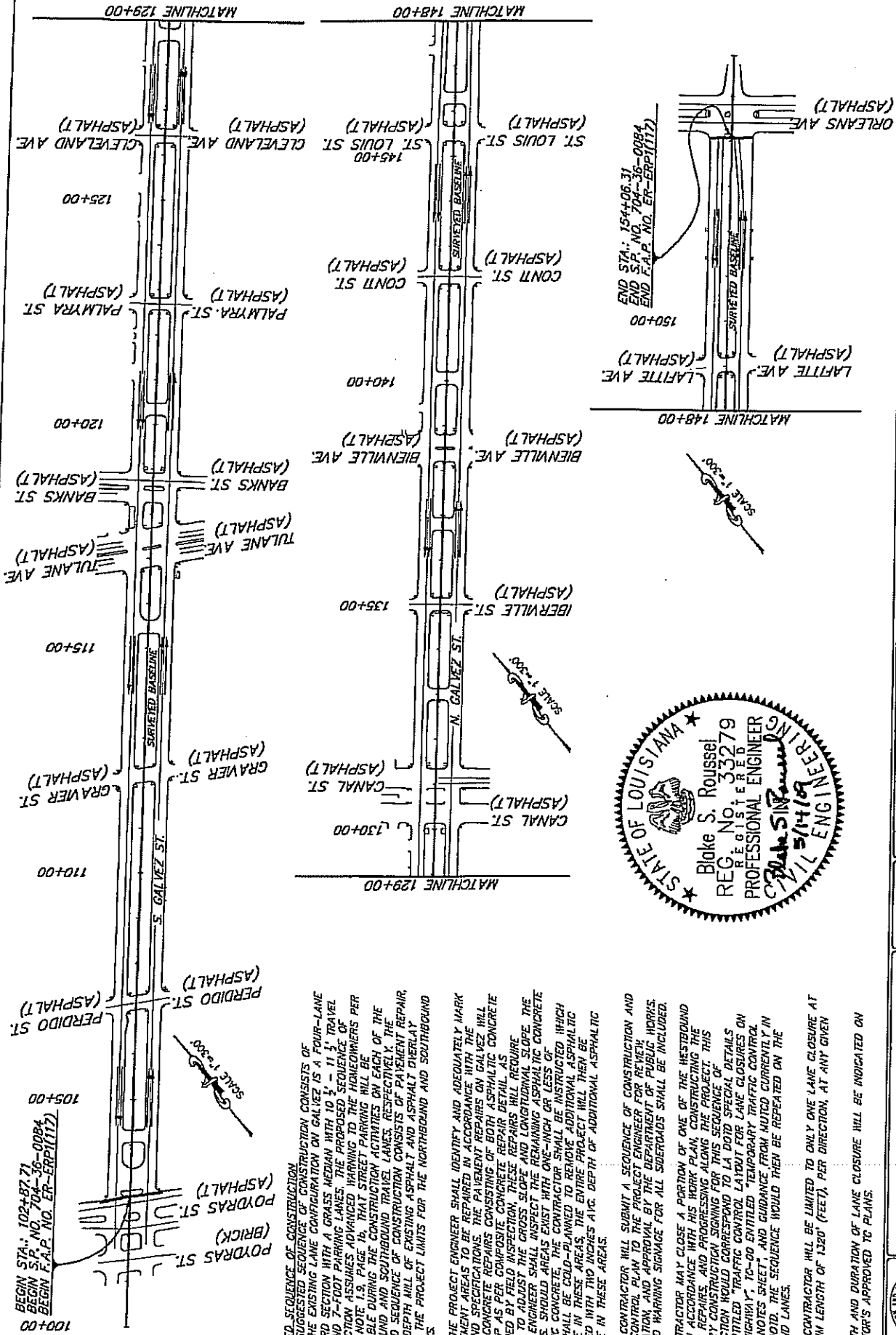
FINAL PLANS



- NOTES:
1. HORIZONTAL CONTROL POINTS WERE ESTABLISHED BY G.P.S. STATIC OBSERVATIONS ON SEPTEMBER 29, 2008.
  2. COORDINATES SHOWN HEREON ARE NAD83, HARN (NIPCN) STATE PLANE, 1702 LA SOUTH ZONE, US SURVEY FOOT.
  3. VERTICAL CONTROL NOT REQUIRED.

SHEET NUMBER 69	
ORLEANS	
PARISH	
FEDERAL PROJECT ER-ERP1(117)	
STATE PROJECT 704-36-0084	
DESIGNED BSR	CHECKED JRS
DETAILED BAS	CHECKED BSR
DATE FEB 2009	SHEET 1 OF 1
REVISION DESCRIPTION	
DATE	BY
GALVEZ STREET	
GEOMETRIC LAYOUT	
STANLEY CONSULTANTS INC.	

FINAL PLANS



- SUGGESTED SEQUENCE OF CONSTRUCTION**
- THE SUGGESTED SEQUENCE OF CONSTRUCTION CONSISTS OF:
    - THE EXISTING LANE CONFIGURATION ON GALVEZ IS A FOUR-LANE BOULEVARD SECTION WITH A GRAVEL MEDIAN WITH 10' - 11' TRAVEL LANES AND 7-FOOT PARKING LANES. THE PROPOSED SEQUENCE OF CONSTRUCTION ASSUMES ADVANCED WARNING TO THE HOMEOWNERS PER GENERAL NOTE 1.9, PAGE 10. 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 PAVEMENT REPAIR, 2" AVG. DEPTH MILL OF EXISTING ASPHALT AND ASPHALT OVERLAY BETWEEN THE PROJECT LIMITS FOR THE NORTHBOUND AND SOUTHBOUND ROADWAYS.
    - 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 GALVEZ WILL INCLUDE CONCRETE REPAIRS CONSISTING OF BOTH ASPHALTIC CONCRETE AND PCOP AS PER COMPOSITE CONCRETE REPAIR DETAILS AS DETERMINED BY FIELD INSPECTION. THESE REPAIRS WILL REQUIRE LEVELING TO ADJUST THE CROSS SLOPE AND LONGITUDINAL SLOPE. 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. THE ENTIRE PROJECT WILL THEN BE OVERLAPPED WITH TWO INCHES AVG. DEPTH OF ADDITIONAL ASPHALTIC CONCRETE IN THESE AREAS.
  - THE CONTRACTOR WILL 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 SUPERROADS SHALL BE INCLUDED.
  - CONTRACTOR MAY 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 DOT SPECIAL DETAILS 10-06 ENTITLED "TRAFFIC CONTROL LAYOUT FOR LANE CLOSURES ON DIVIDED HIGHWAY", 10-00 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.
  - THE CONTRACTOR WILL BE LIMITED TO ONLY ONE LANE CLOSURE AT A MAXIMUM LENGTH OF 1320' (FEET), PER DIRECTION, AT ANY GIVEN TIME.
  - LENGTH AND DURATION OF LANE CLOSURE WILL BE INDICATED ON CONTRACTOR'S APPROVED TO PLANS.

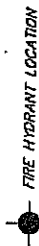
SHEET NUMBER		70	
ORLEANS		ER-ERP1(117)	
PARISH		STATE PROJECT	
FEDERAL PROJECT		704-36-0084	
FEB 2009		1 OF 1	
DATE		BY	
SHEET		REVISION DESCRIPTION	
NO.		DATE	
STATE OF LOUISIANA		SEQUENCE OF CONSTRUCTION	
STANLEY CONSULTANTS INC.		GALVEZ STREET	

# FINAL PLANS

## NOTES:

1. ONLY STRIPING INTRIN 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.

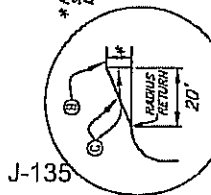
## UTILITY LEGEND:



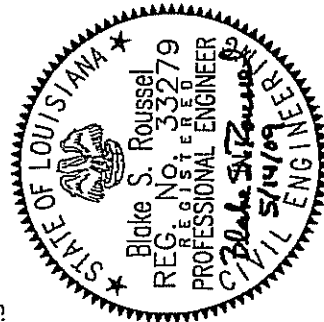
## STRIPING LEGEND

- ① 4" BROKEN WHITE STRIPE (W/ REFLECTORIZED MARKERS 10' O.C.)
- ② 4" SOLID WHITE STRIPE
- ③ 6" SOLID YELLOW STRIPE
- ④ 6" SOLID WHITE STRIPE
- ⑤ 12" SOLID WHITE STRIPE

\* REFER TO TYPICAL SECTIONS SHEETS 31-24 FOR PAVING LANE NOTES

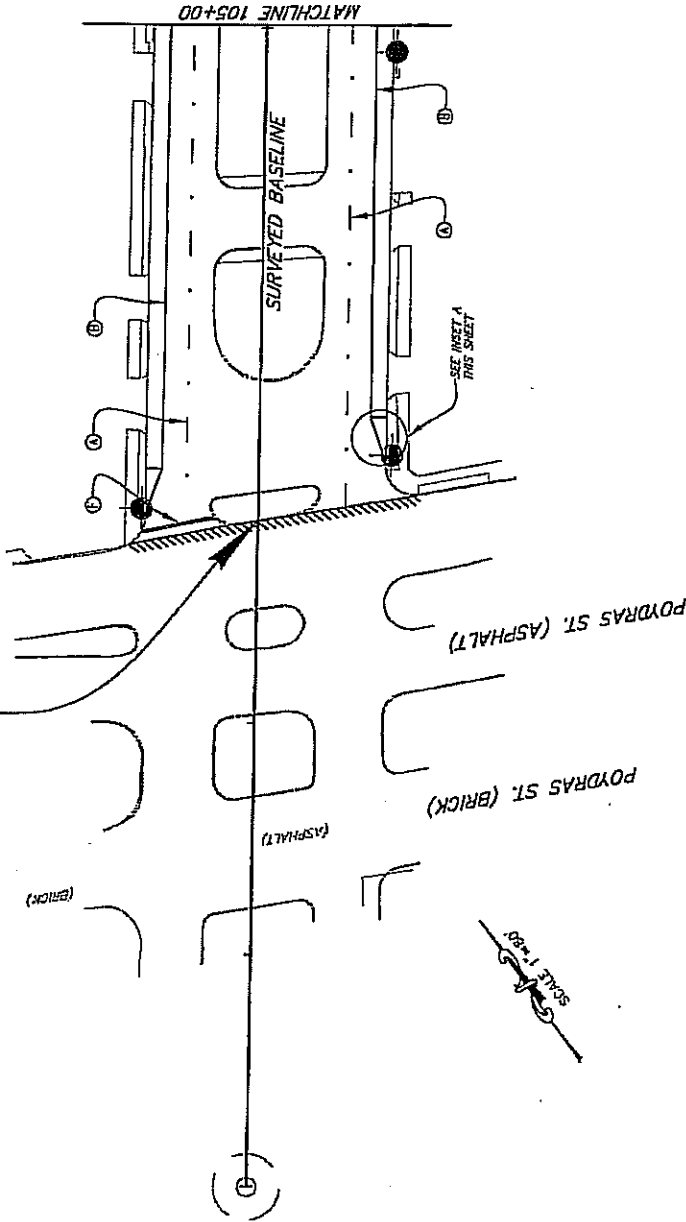


INSET A  
N.T.S.



100+00

BEGIN STA. 102+87.71  
BEGIN S.P. NO. 704-36-0084  
BEGIN F.A.P. NO. ER-ERP1(117)

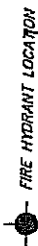


SHEET NUMBER		71	
PROJECT		ORLEANS	
FEDERAL PROJECT		ER-ERP1(117)	
STATE PROJECT		704-36-0084	
DESIGNED	BSR	DATE	FEB 2009
CHECKED	JRS	SHEET	1 OF 8
DETAILS	BAS		
CHECKED	BSR		
REVISION DESCRIPTION			
NO.	DATE		
GALVEZ STREET		STRIPING PLAN	
STANLEY CONSULTANTS INC.			

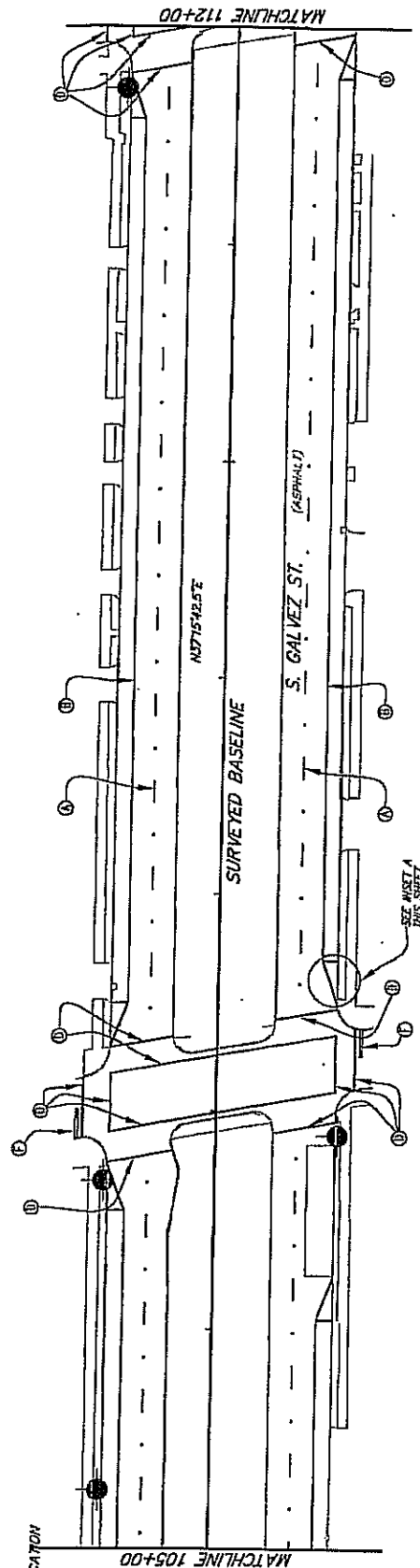
## FINAL PLANS



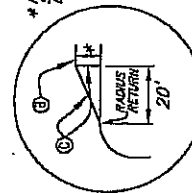
### UTILITY / LEGEND:



J-136



PERDIDO ST.  
(ASPHALT)






INSET A  
N.7.5

\* REFER TO TYPICAL SECTIONS  
SHEETS 20-21 FOR PARKING  
LANE WIDTHS

### STRIPING LEGEND

- ④ 4" BROKEN WHITE STRIPE  
(W/ REFLECTORIZED MARKERS @  
40' O.C.)
- ⑩ 4" SOLID WHITE STRIPE
- ⑪ 6" SOLID YELLOW STRIPE
- ⑫ 6" SOLID WHITE STRIPE
- ⑬ 8" SOLID WHITE STRIPE
- ⑭ 12" SOLID WHITE STRIPE

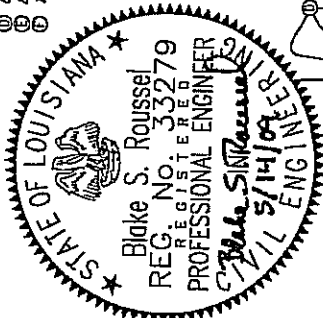
				GALVEZ STREET  STRIPING PLAN				DESIGNED CHECKED JRS		BSR		PARISH ORLEANS		SHEET NUMBER 72	
								RETAINED CHECKED BSR		FEDERAL PROJECT ER-ERP1(117)		DATE FEB 2009 SHEET 2 OF 8		STATE PROJECT 704-36-0084	
NO.		DATE		BY		REVIEWER DESCRIPTION									



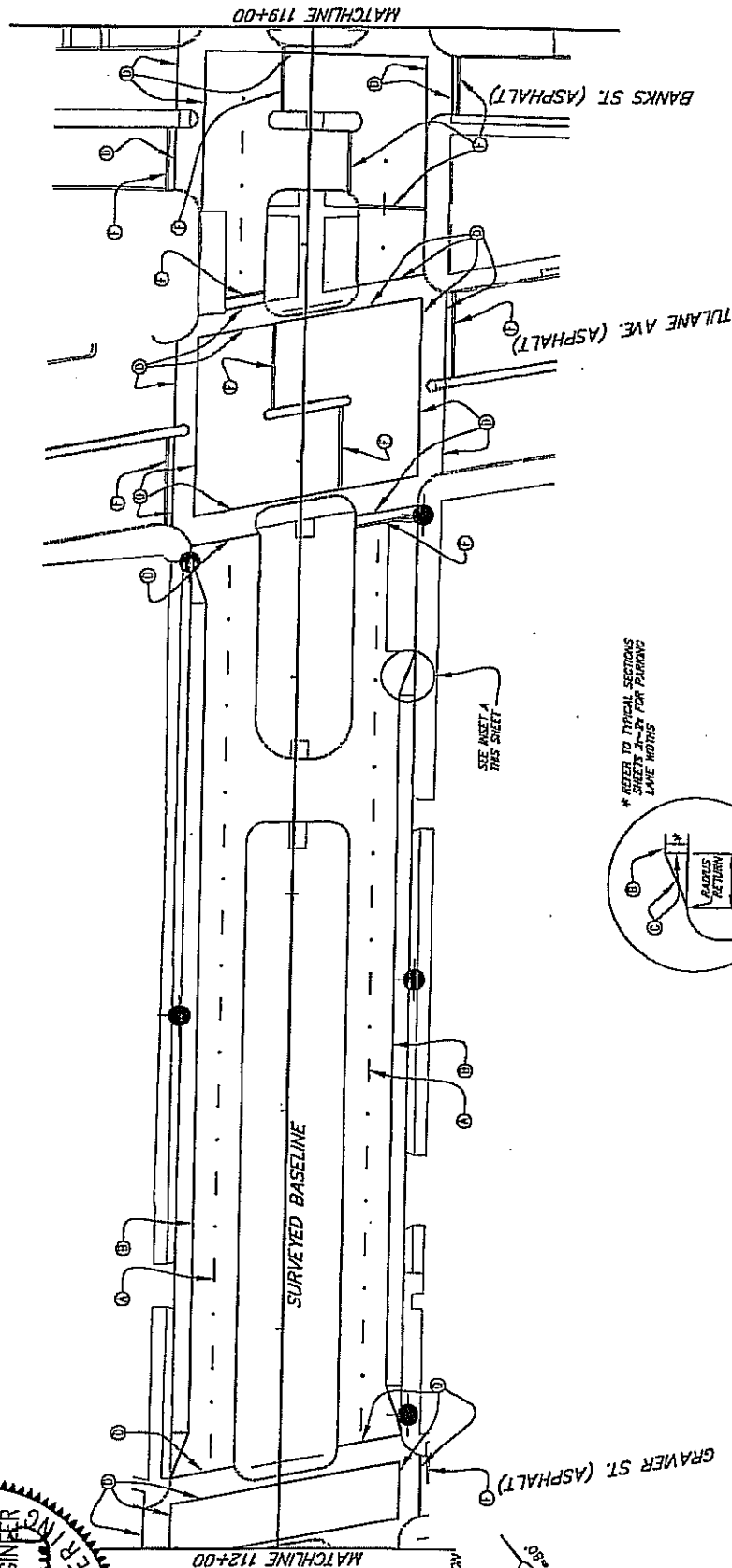
# FINAL PLANS

## STRIPING LEGEND

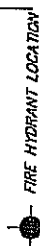
- ① 4" BROKEN WHITE STRIPE  
(1/4" REFLECTORIZED MARKERS @ 40' O.C.)
- ② 4" SOLID WHITE STRIPE
- ③ 6" SOLID YELLOW STRIPE
- ④ 6" SOLID WHITE STRIPE
- ⑤ 8" SOLID WHITE STRIPE
- ⑥ 12" SOLID WHITE STRIPE



J-137



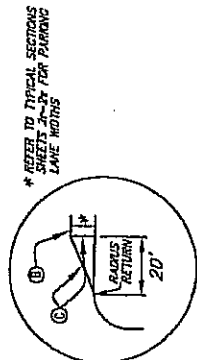
UTILITY LEGEND:



● FIRE HYDRANT LOCATION



SEE INSET A  
THIS SHEET



\* REFER TO TYPICAL SECTIONS  
SHEETS A-101 FOR PARKING  
LANE NOTES

INSET A  
N.T.S.

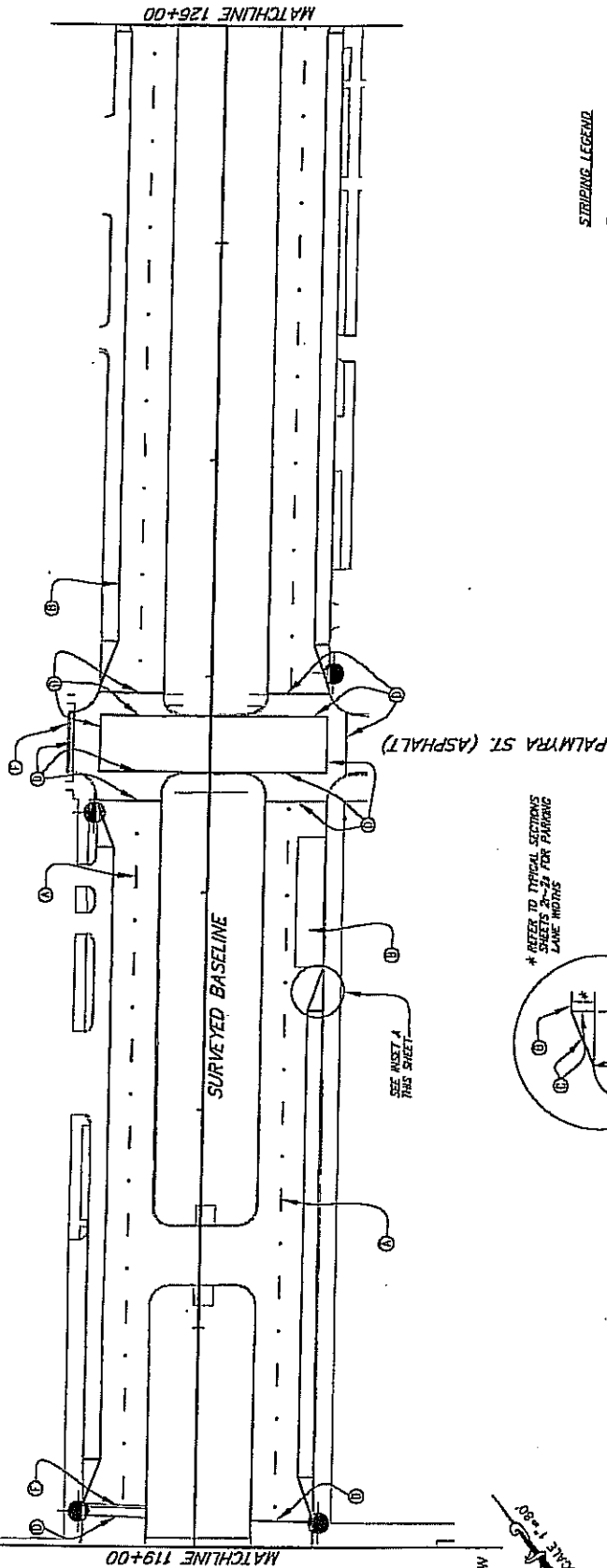
SHEET NUMBER		73	
PROJECT		704-36-0084	
STATE PROJECT		ER-ERP1(117)	
PARISH PROJECT		ORLEANS	
DATE		FEB 2009	
SHEET		3 OF 8	
BY			
REVISION DESCRIPTION			
NO.		DATE	
GALVEZ STREET		STRIPING PLAN	
STANLEY CONSULTANTS INC.			

# FINAL PLANS

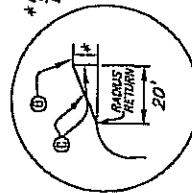


120+00

125+00



\* REFER TO PHYSICAL SETTINGS SHEETS FOR PAIRING LANE NOTES

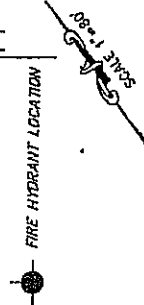


INSET A  
N.T.S.

## STRIPING LEGEND

- ① 4" BROKEN WHITE STRIPE (W/ REFLECTORIZED MARKERS @ 40' O.C.)
- ② 4" SOLID WHITE STRIPE
- ③ 6" SOLID YELLOW STRIPE
- ④ 6" SOLID WHITE STRIPE
- ⑤ 8" SOLID WHITE STRIPE
- ⑥ 12" SOLID WHITE STRIPE

UTILITY LEGEND:



J-138

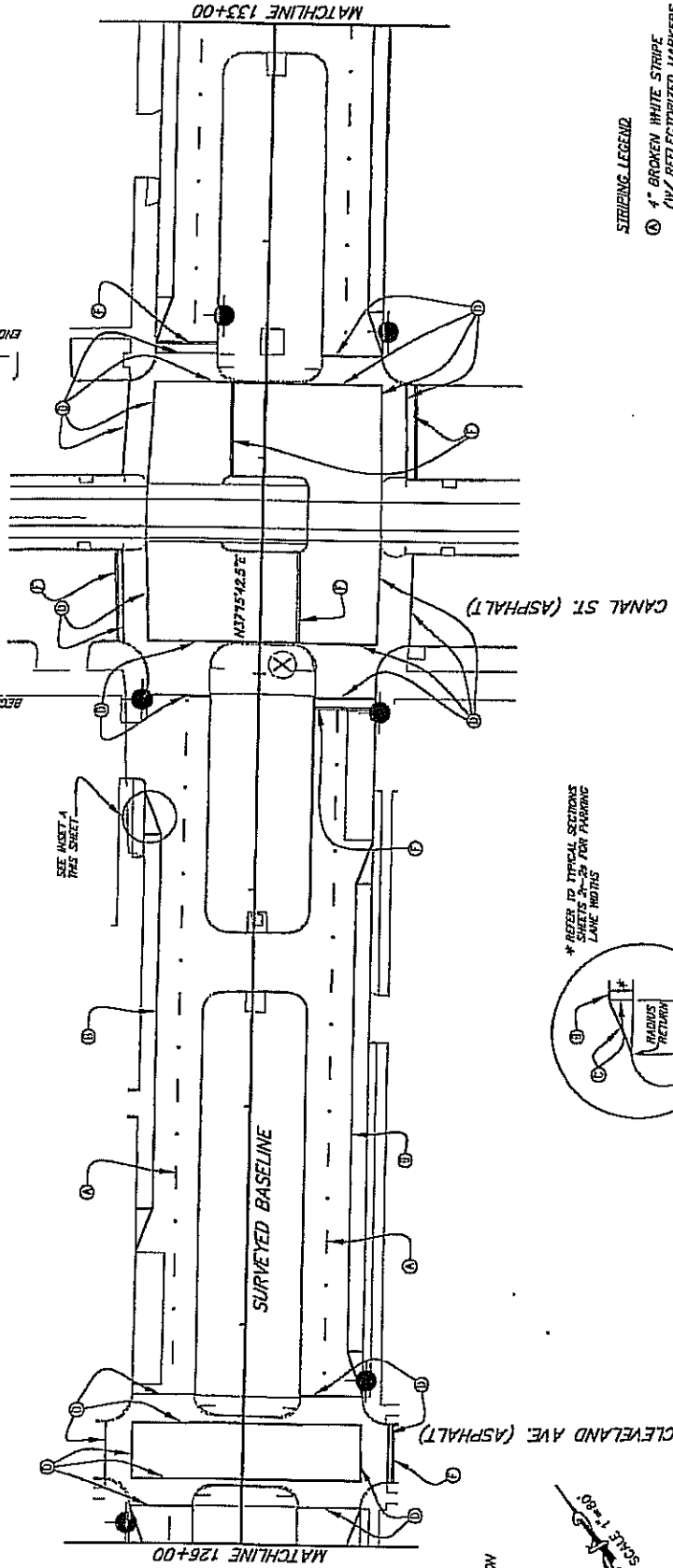
SHEET NUMBER		74
ORLEANS		
FEDERAL PROJECT		ER-ERPI(117)
STATE PROJECT		704-36-0084
DESIGNED	BSR	DATE
CHECKED	URS	BY
DATE	FEB 2009	
CHECKED	BAS	
CHECKED	BSR	
DATE	4 OF 8	
REVISION DESCRIPTION		
DATE		
BY		
STANLEY CONSULTANTS INC.		
GALVEZ STREET		
STRIPING PLAN		

# FINAL PLANS



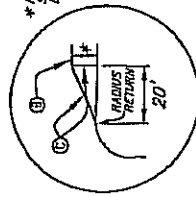
\* CIRCULATION IS FOR PARKING ONLY  
CONTAINING THROUGH TRAFFIC  
158+82.66 TO 159+13.94 AS  
INDICATED ON THIS SHEET.

STA 129+90.62  
BEC. PAVEMENT EXCEPTION  
130+00  
STA 131+46.33  
END PAVEMENT EXCEPTION



- STRIPING LEGEND**
- ① 4" BROKEN WHITE STRIPE  
(1/4" REFLECTORIZED MARKERS @ 40' O.C.)
  - ② 4" SOLID WHITE STRIPE
  - ③ 6" SOLID YELLOW STRIPE
  - ④ 6" SOLID WHITE STRIPE
  - ⑤ 8" SOLID WHITE STRIPE
  - ⑥ 12" SOLID WHITE STRIPE

\* REFER TO TYPICAL SECTIONS  
SHEETS 24-25 FOR PARKING  
LAKE NOTING



INSET A  
N.T.S.

UTILITY LEGEND.

● FIRE HYDRANT LOCATION

SCALE 1"=40'

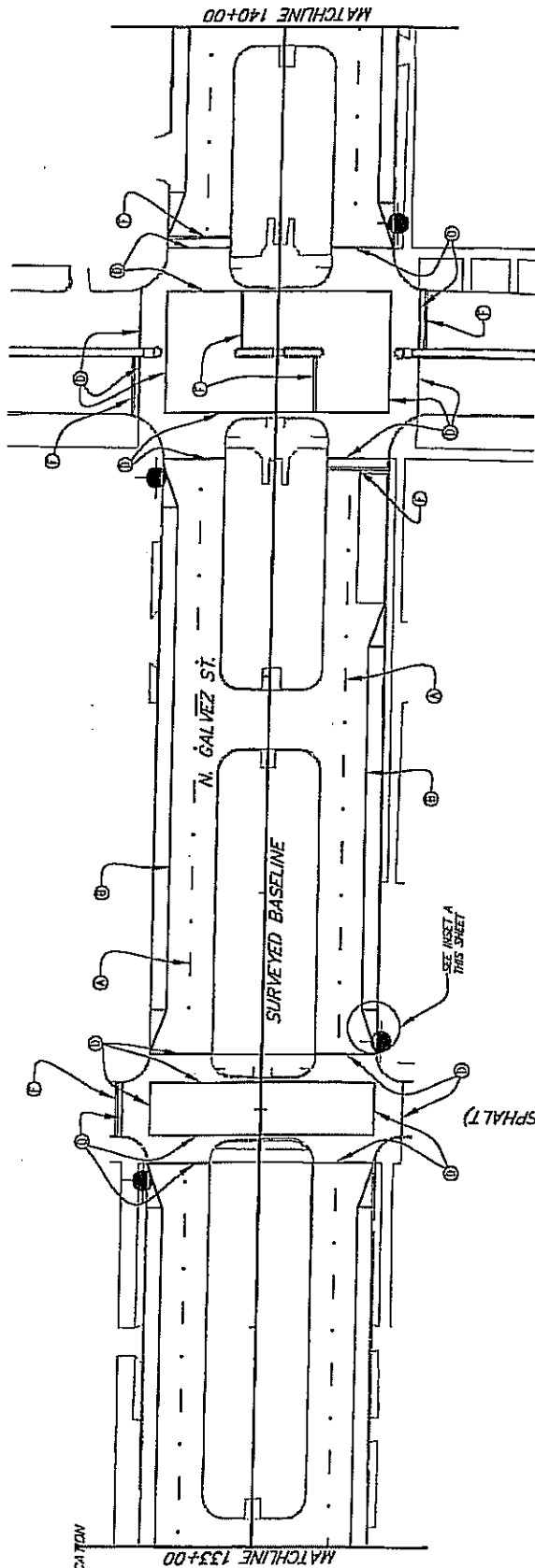
SHEET NUMBER		75	
PROJECT		ORLEANS	
FEDERAL PROJECT		ER-ERP1(117)	
STATE PROJECT		704-36-0084	
DESIGNED	BSR	CHECKED	JRS
DATE	MAY 2009	DATE	MAY 2009
BY		SHEET 5 OF 8	
REVISION DESCRIPTION			
NO. DATE			
GALVEZ STREET		STRIPING PLAN	
STANLEY CONSULTANTS INC.		STATE OF LOUISIANA	

# FINAL PLANS

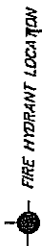


135+00

140+00



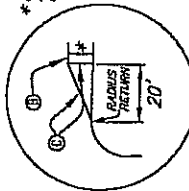
UTILITY LEGEND:



J-140



\* REFER TO TYPICAL SECTIONS  
STREETS AND SIDEWALKS  
FOR PAVING  
AND FINISHES



INSET A  
N.T.S

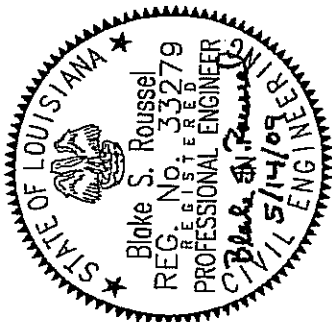
BIENVILLE AVE.  
(ASPHALT)

STRIPING LEGEND

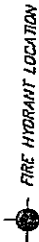
- ① 4" BROKEN WHITE STRIPE  
(W/ REFLECTORIZED MARKERS  
10" D.C.)
- ② 4" SOLID WHITE STRIPE
- ③ 6" SOLID YELLOW STRIPE
- ④ 6" SOLID WHITE STRIPE
- ⑤ 8" SOLID WHITE STRIPE
- ⑥ 12" SOLID WHITE STRIPE

SHEET NUMBER		79	
PROJECT		ORLEANS	
PARISH		ORLEANS	
FEDERAL PROJECT		ER-ERP1(117)	
STATE PROJECT		704-36-0084	
DESIGNED	BSR	DATE	FEB 2009
CHECKED	URS	SHEET	6 OF 8
DETAILS	BAS		
CHECKED	BSR		
REVISION DESCRIPTION			
NO.	DATE	BY	
<p>GALVEZ STREET</p> <p>STRIPING PLAN</p>			

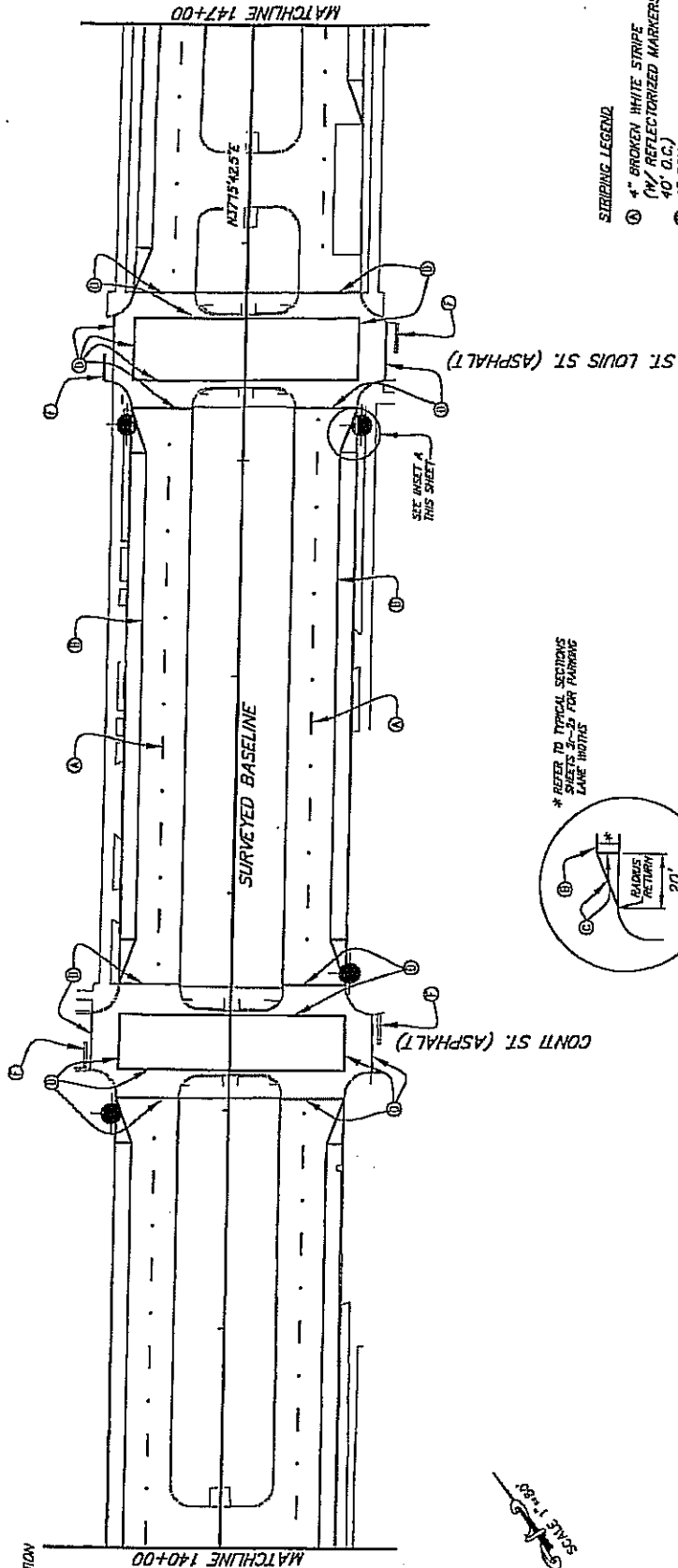
FINAL PLANS



UTILITY LEGEND:

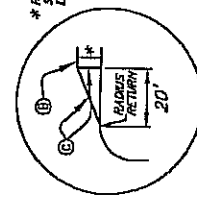


FIRE HYDRANT LOCATION



145+00

\* REFER TO TYPICAL SECTIONS  
SHEETS 2-10 FOR PARALLEL  
LANE WIDTHS



INSET A  
N.T.S.

STRIPING LEGEND

- ① 4" BROKEN WHITE STRIPE (W/ REFLECTORIZED MARKERS @ 40' O.C.)
- ② 4" SOLID WHITE STRIPE
- ③ 6" SOLID YELLOW STRIPE
- ④ 6" SOLID WHITE STRIPE
- ⑤ 8" SOLID WHITE STRIPE
- ⑥ 12" SOLID WHITE STRIPE

SHEET NUMBER 77	
ORLEANS	
PARRISH	FEDERAL PROJECT
ER-ERP1(117)	STATE PROJECT
704-36-0084	
DESIGNED BSR	CHECKED JRS
DRAWN BAS	CHECKED BSR
DATE FEB 2009	SHEET 7 OF 8
NO.	DATE
REASON DESCRIPTION	
BY	
STRIPING PLAN	
GALVEZ STREET	
STANLEY CONSULTANTS INC.	

# FINAL PLANS

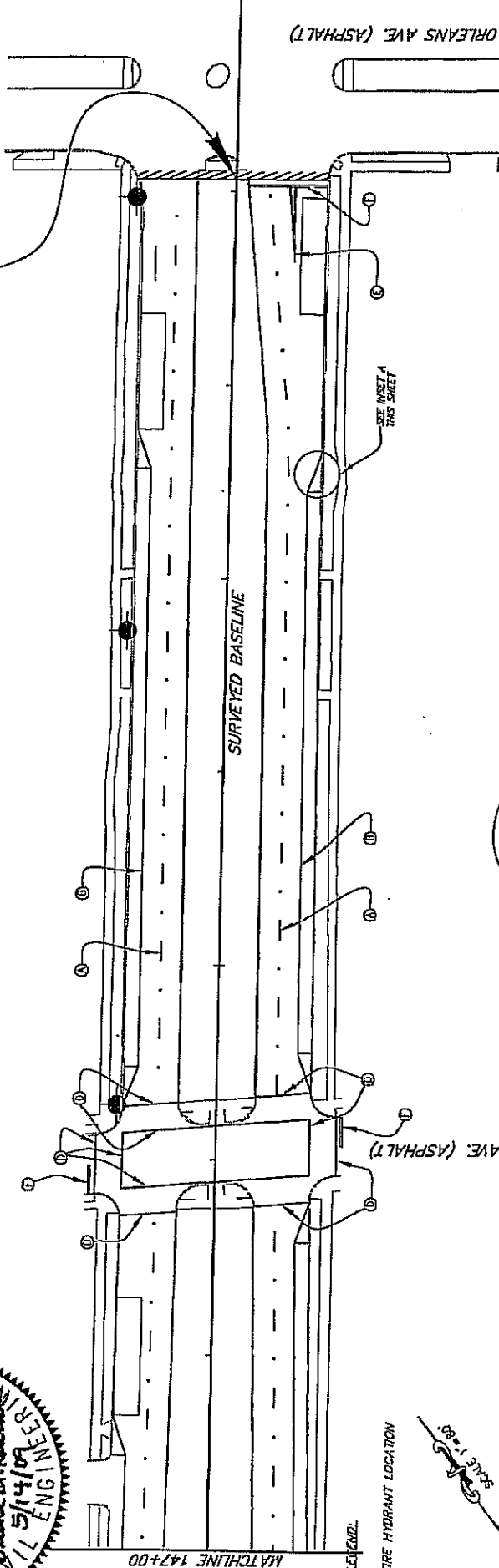
## STRIPING LEGEND

- ① 4" BROKEN WHITE STRIPE (W/ REFLECTORIZED MARKERS @ 10' O.C.)
- ② 4" SOLID WHITE STRIPE
- ③ 6" SOLID YELLOW STRIPE
- ④ 6" SOLID WHITE STRIPE
- ⑤ 8" SOLID WHITE STRIPE
- ⑥ 12" SOLID WHITE STRIPE



150+00

END STA.: 154+06.31  
END S.P. NO. 704-J6-0084  
END F.A.P. NO. ER-ERP1(117)



ORLEANS AVE. (ASPHALT)

LAFFITE AVE. (ASPHALT)

MATCHLINE 147+00

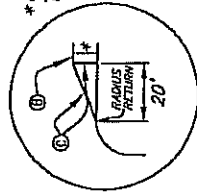
J-142

UTILITY LEGEND

● FIRE HYDRANT LOCATION



\* REFER TO TYPICAL SECTIONS SHEETS 2-21 FOR PARKING LANE WIDTHS



INSET A  
N.T.S.

SHEET NUMBER		78
PROJECT		ORLEANS
FEDERAL PROJECT		ER-ERP1(117)
STATE PROJECT		704-36-0084
DATE		FEB 2009
BY		B OF 8
REASON DESCRIPTION		
NO.		
DATE		
STANLEY CONSULTANTS INC.		
GALVEZ STREET		
STRIPING PLAN		

## GENERAL PROVISIONS

- At Temporary Traffic Control Devices used shall be in accordance with the LADOT Standard Specifications for Road and Bridges, the Manual on Uniform Traffic Control Devices (MUTCD), and that meet the National Cooperative Highway Research Program (NCHRP) 350 for Level 3 requirements.
- Materials used for Temporary Traffic Control shall be in accordance with the LADOT Standard Specifications for Road and Bridges and when applicable the LADOT Qualified Products List (QPL).
- The Temporary Traffic Control 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 of 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 the technical advisor to the Project Engineer for all Traffic Control matters.
- Work that is "XX Day" sign shall be required on all projects equal to or greater than 2 miles and located at the beginning of the project limits, otherwise noted. The distance on the sign shall be added to the "XX Day" sign. The sign shall be a minimum 36"x60" unless otherwise noted.
- Warning signs shall be used for lane closures or lane shifts in which the roadway shall be narrowed for public use within 12 hours or less may be placed on NCHRP 350 approved portable sign frames.
- If the opening on the plan need to be cleared, the new openings 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 failed surfaces or uneven pavement;
  - (B) work is in progress in the immediate vicinity of the roadway, or low speed diversions; lane shifts or lane shifts 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 posted 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 DPL)

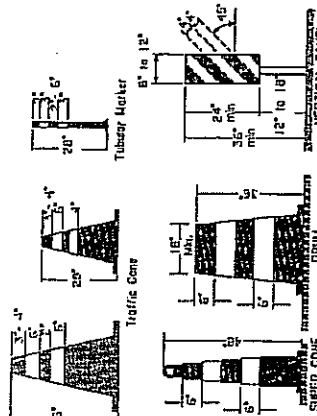
- As permanent markings within the limits of the project that are in conflict with the project opening or the required traffic movements shall be removed from the pavement by laser etching or grinding. Relocating striping shall not be painted over with black paint or covered with tape.
- If special pavement 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 lanes, in detours, and in other areas of need as checked by the Project Engineer.
- Materials and placement of temporary pavement markings shall conform to section 713 of the Standard Specifications. If no day firm width, temporary markings will be considered hazardous to traffic control.

## SIGNS

- All signs used for temporary traffic control shall follow the Department's Traffic Control (TC) details and the MUTCD. Signs shown in the TC Specifications are typical and may vary with each specific condition.
- Base appropriate signage 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 closure has been removed.
- Signs over 10 sq ft shall be mounted on at least two posts and signs over 20 sq ft shall be mounted on at least two posts.
- Signs shall have a minimum of two bolts per post.
- Permanent signs to be removed or replaced shall be removed or replaced with a warning sign, highway, advance material, warning sign used for temporary traffic control shall meet the following guidelines unless otherwise noted in the plans:
  - (A) size shall be 48" x 48", (B) see the Department's Standard Specifications and the DPL 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 2' above the roadway surface unless there is a concern for pedestrians or bicycle traffic in which it shall be a minimum of 7', (E) sign distance shall be a minimum of 100' from the start of shoulder or side of pavement if no shoulder and 150' from the back of road in urban areas.
- Signs shall be placed so that they are visible to all drivers.
- Signs shall be removed or replaced when no longer applicable.
- Contractor shall not attempt to cover existing signs which remain in place. Any DOT signs damaged by work operations shall be replaced.

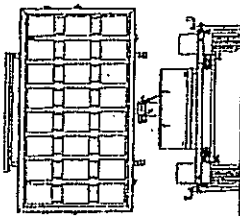
## CHANNELIZING DEVICES

- The following devices may be used:
  - Tubular Markers, Vertical Posts, Cones, Dimples, and Sugar Cones.
- Devices (for standard spacing) and Super Cones (if/when needed) shall be used on the only devices allowed to be used in taper areas on the interstate system during daylight hours. Only cones can be used in taper areas during night operations.
- The spacing of channelizing devices in a taper shall 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 taper shall 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.
- High reflective material pattern used on upper cones shall match that used on dummies.
- 20" traffic cones are not allowed on I-1 Interstates, 24" highways with speeds greater than 40 mph. During night time operations 18" and 36" cones are not allowed. 24" cones are the only device allowed in the taper.



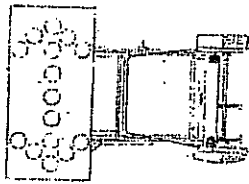
## PORTABLE CHANGEABLE MESSAGE SIGNS

- When working within the traveled way, including shoulders and auxiliary lanes, Changeable Message Signs (CMS) shall be used on all Interstates, 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 roadways.
- Vehicles are moving 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 barriers or if the previous two options are not feasible, they should be delineated with retroreflective TTC devices.



## FLASHING ARROW PANELS

- Flashing Arrow Panels shall be used for lane closures on all Interstates with 2 or more lanes in a single direction and on roads with greater than 35 mph.
- When used, flashing arrow panels shall be located on the shoulder at the beginning of the taper.
- When the arrow panel is located on the shoulder, 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 or greater) shall be 4' x 8' Type C.
- When Flashing Arrow Panels are not being used, they should be shielded by barriers or if the previous two options are not feasible, they should be delineated with retroreflective TTC devices.

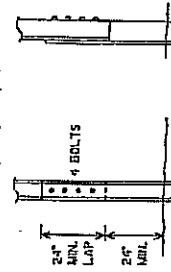


## LIGHTING (see DPL)

- When used for overnight closures, lighting shall supplement all barricades that are placed in a closed area or that extend across a highway. Two Type B High Intensity Lights shall be used per lane closed in taper areas. In urban areas two Type A Low Intensity Lights may be used where adequate lighting is available.
- One Type C High Intensity Light shall be used to supplement the taper in the case of a signal that gives warning about a lane closure during night time conditions.
- Type C steady burn lights shall be used on all channelizing devices in the taper as well as the first two devices in the taper, for night use.

## ALLOWABLE LAP SPACES FOR U-CHANNEL POST

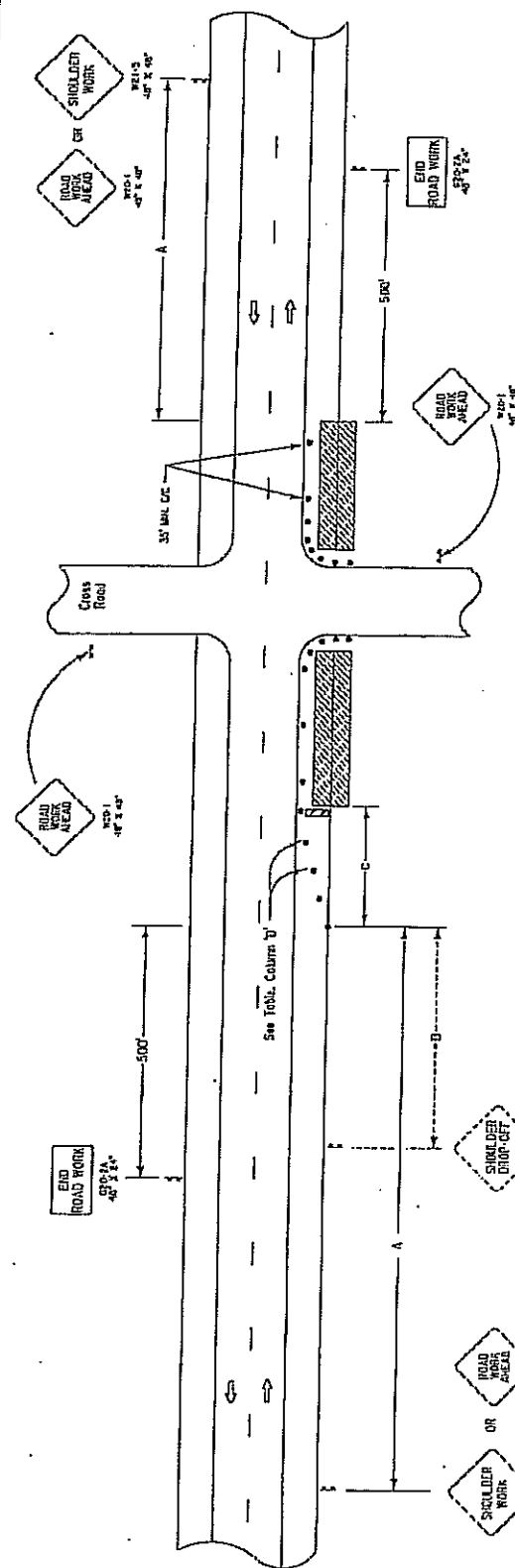
- U-Channel posts may be spaced where long lengths are required. The upper section shall overlap the lower section by at least 24 inches. The bottom edge of the upper section of the splice shall be a minimum of 24 inches above the ground. This spaced section shall be secured with at least four 1/4 inch diameter bolts spaced evenly along the splice.



## TYPE II BARRICADES

- All barricades shall use Type 3 High Intensity Sheeting on both sides of the barricade.
- All Type II Barricades shall be a minimum of 8 feet in length and must meet MCHRP 350 requirements.
- When signs and lights are to be installed on a barricade, they must meet MCHRP 350 requirements.

MUTCD Website:  
<http://mutcd.fhwa.dot.gov/>



# LEGEND

- Trillix Sign
- Channelizing Devices
- Work Area
- Type III Barricades

SPEED LIMIT	Spacing		Shoulder Closure Time	
	'A'	'B'	Minimum Length	Maximum Spacing
35 mph	800'	250'	100'	25'
45 mph	1000'	300'	200'	45'
≥ 55 mph	1500'	500'	250'	50'

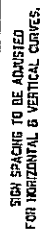
If horizontal curve radius is less than 300', devices spacing shall be 25'.

## NOTES

- THIS LAYOUT REPRESENTS TRAFFIC CONTROL REQUIRED FOR WORKERS AND EQUIPMENT OPERATING WITHIN THE CLEAR ZONE FOR MORE THAN 1 HOUR, LESS THAN 1 HOUR, SEE FIG. 12-4 OF THE MANUAL. PORTABLE SIGNS MAY BE USED FOR WORK LASTING LESS THAN 3 DAYS.
- NO SIGNS OR BARRICADES ARE REQUIRED FOR EQUIPMENT OPERATING OR WORK IN PROGRESS OUTSIDE THE CLEAR ZONE.
- SIGNS AND BARRICADES SHALL BE COVERED OR REMOVED DURING NONWORKING HOURS UNLESS A DROP-OFF OR PHYSICAL OBSTRUCTION REMAINS WITHIN THE CLEAR ZONE.
- TRAFFIC CONES MAY BE USED AS CHANNELIZING DEVICES ALONG THE WORK AREA DURING DAYLIGHT HOURS ONLY.
- 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 OR FLASHER 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.
- WHEN A SHOULDER DROP-OFF IS GREATER THAN 2' BUT LESS THAN 15', WHEN THE DROP-OFF EXCEEDS 5', THE "SHOULDER DROP-OFF" SIGN SHALL BE REPLACED BY A "NO SHOULDER" SIGN.
- IF THE SPEED LIMIT IS GREATER THAN 45 MPH AND THE DROP-OFF IS 10' OR GREATER WITHIN 2' OF THE TRAVEL LANE DURING NONWORKING HOURS, A PORTABLE BARRIER SHALL BE USED.
- A TEMPORARY EDGE LINE OR CHANNELIZING DEVICE SHALL BE PLACED AT THE POINT OF THE DROP-OFF TO THE DROP-OFF DURING NONWORKING HOURS WHEN THE DROP-OFF IS GREATER THAN 2'.
- SPEED LIMIT IN THE ABOVE TABLE REFERS TO THE LEGALLY ESTABLISHED SPEED LIMIT BEFORE THE OBSTRUCTION. IF WORKERS ARE PRESENT WITHIN 5' OF TRAVEL LANE, SPEED LIMIT MAY NEED TO BE REDUCED.
- 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.
- ANY SIGNS IN CONFLICT WITH CONSTRUCTION SIGNING SHALL BE REMOVED OR COVERED.
- MINIMUM CONSTRUCTION SIGNING ANY ADDITIONAL SIGNS SHOWN IN THE MANUAL OR TABLE SHALL BE INSTALLED UNDER ITEM 715.01.
- ANY SIGNS IN CONFLICT WITH CONSTRUCTION SIGNING SHALL BE REMOVED OR COVERED.







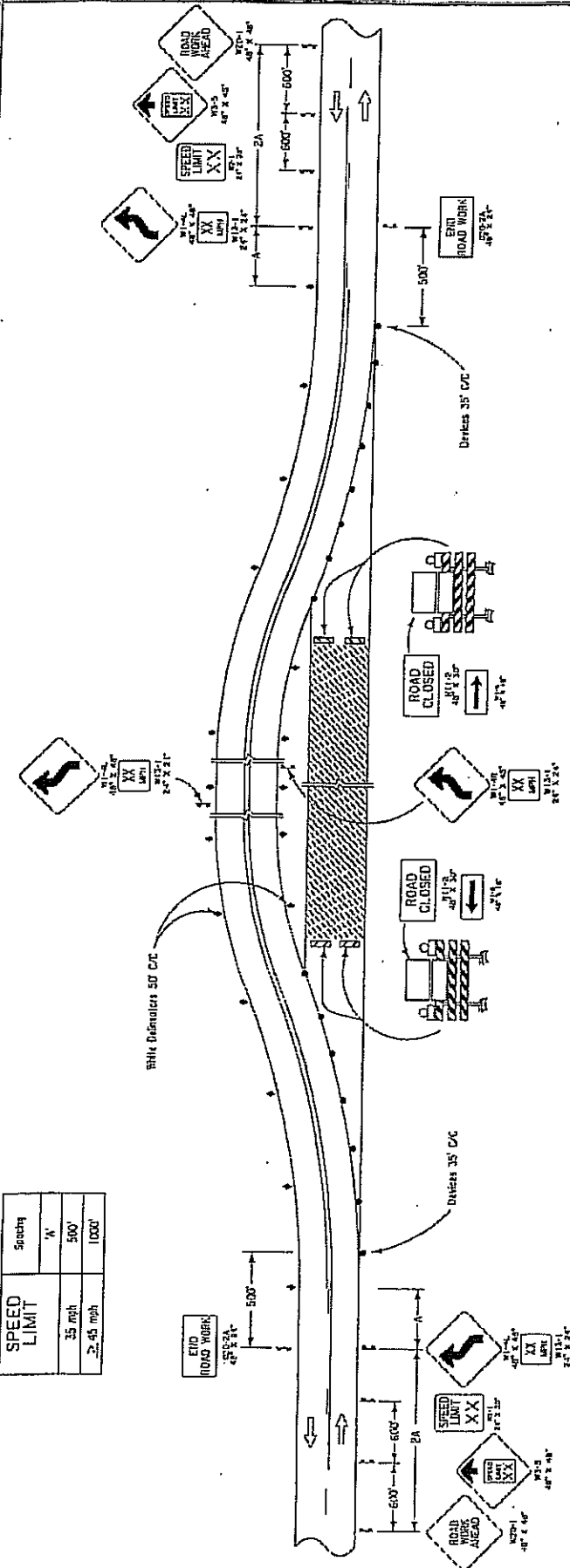
**F. VISUAL OR RADIO CONTACT SHALL BE REQUIRED BETWEEN FLAGGERS AT ALL TIMES. THE FLAGGER SHALL BE VISIBLE FROM FLAGGER SIGN.**

- 1 Traffic Sign
- 2 Flagger
- 3 Channelizing Devices
- 4 Type III Barricades
- 5 Work Area
- 6 Type B Light

1. NEITHER WORK ACTIVITY NOR STORAGE OF EQUIPMENT, VEHICLES, OR MATERIALS SHALL OCCUR WITHIN THE BUFFER SPACE.







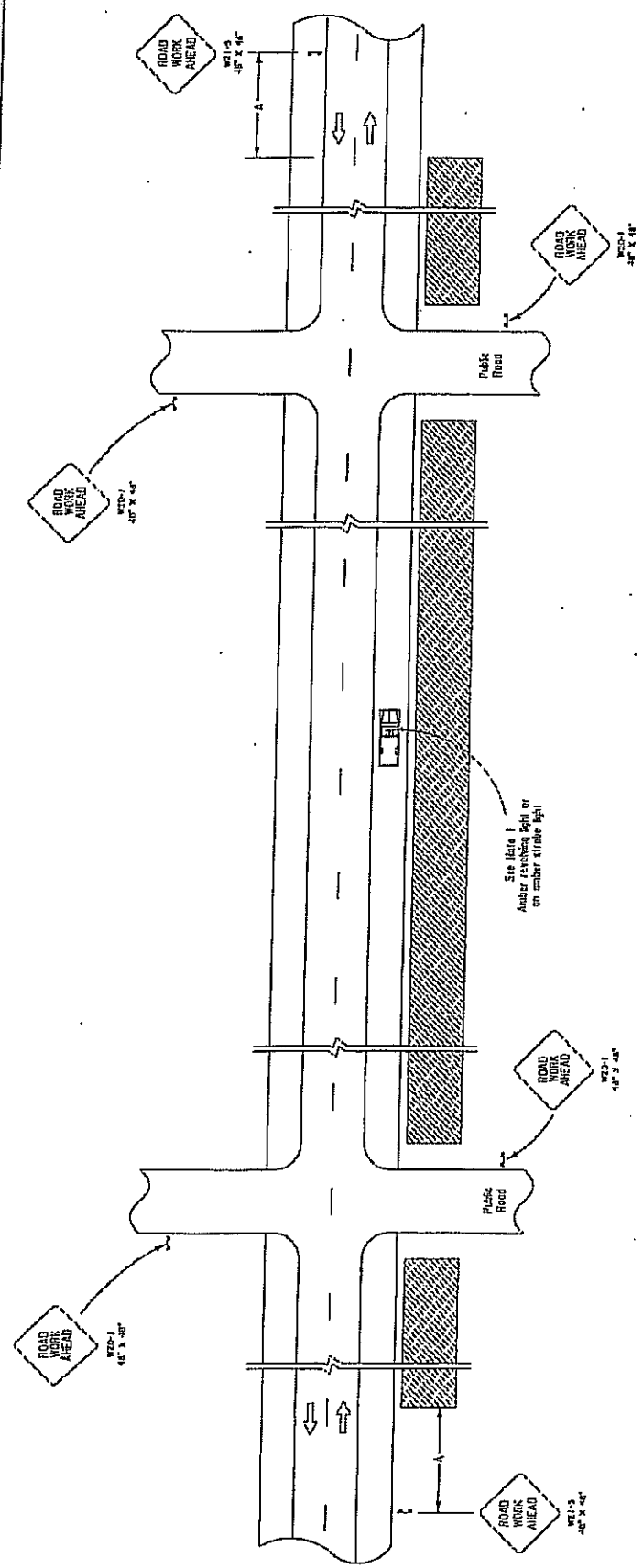
### NOTES

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 SIGN (W1-32) OR (W1-48) WILL BE CHANGED TO REVERSE TURN SIGN (W1-32A OR W1-32B).
3. ADVISORY SPEED TO BE DETERMINED IN THE FIELD BY THE DISTRICT TRAFFIC OPERATIONS ENGINEER.
4. ALL CONFLICTING PAVEMENT MARKINGS SHALL BE REMOVED, AND DIRECT PAINT FOR APPROACH END TREATMENTS.
5. ANY SIGNS IN CONFLICT WITH CONSTRUCTION SIGNING SHALL BE REMOVED OR COVERED.
6. MINIMUM CONSTRUCTION SIGNING, ANY ADDITIONAL SIGNS SHOWN IN THIS LAYOUT SHALL BE REQUIRED. TRAFFIC CONTROL DEVICES AND REQUIRED BY THE PROJECT ENGINEER SHALL BE INSTALLED UNDER ITEM 711-01.
7. IF THE RIGHT OF WAY PROMOTES THE DIVERSION FROM BEING CONSTRUCTED ON THE RIGHT OF WAY, THE DIVERSION SHALL BE STRIPPED WITH DOUBLE YELLOW SOLID LINES AND RAISED PAVEMENT MARKINGS AS PER PA-01.

### LEGEND

- Traffic Sign
- Channeling Devices
- Type III Barricades
- Single White Dividers
- Type B Light





**NOTES**

THIS SHEET SHALL BE USED WITH THE "TEMPORARY TRAFFIC CONTROL GENERAL NOTED SHEET 11C-001".

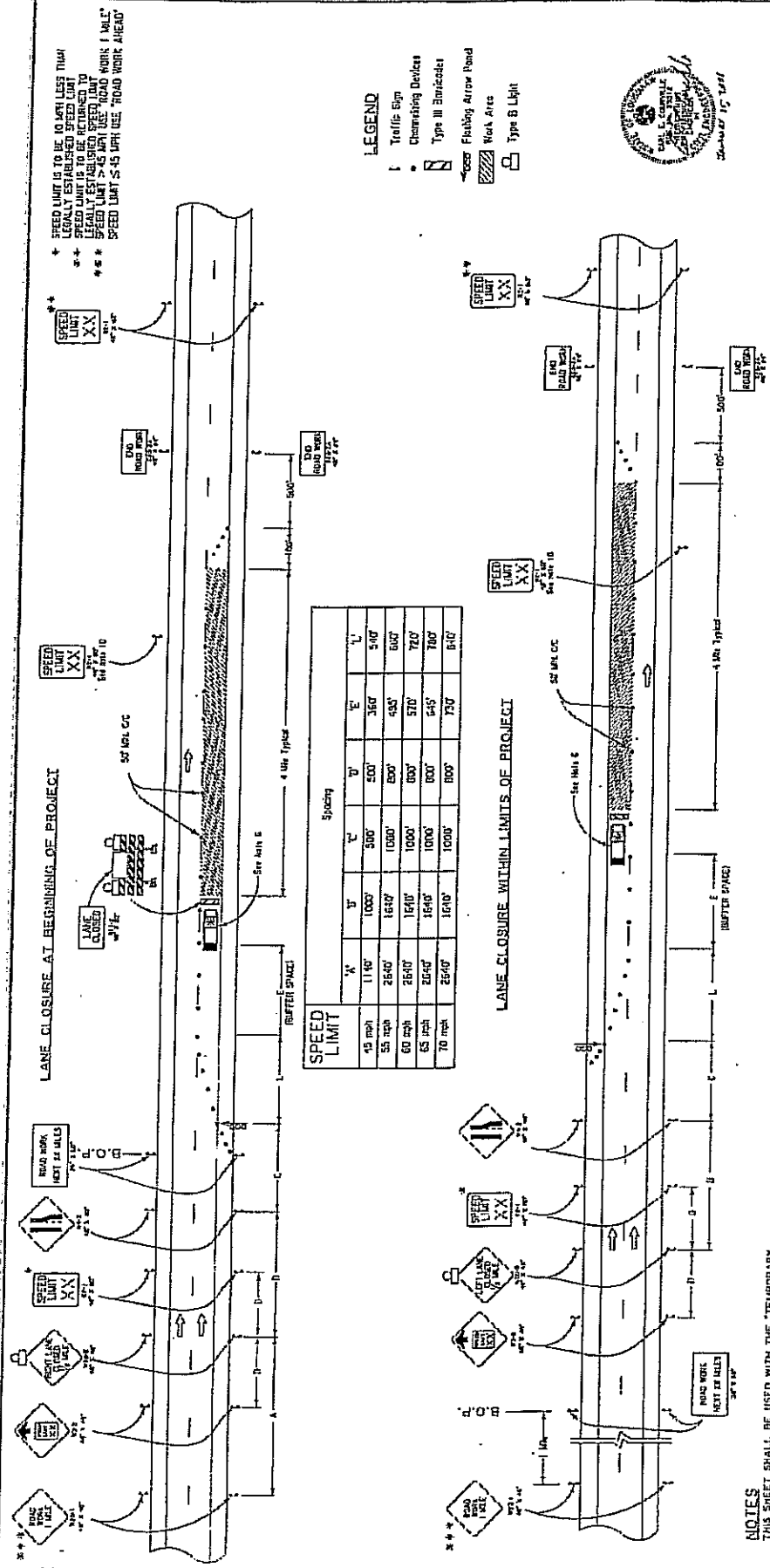
1. THIS LAYOUT REPRESENTS TRAFFIC CONTROLS REQUIRED FOR WORKERS AND EQUIPMENT OPERATING OUTSIDE OF CLEAR ZONE. IF THE OPERATION RESULTS IN EQUIPMENT OR OTHER VEHICLES BEING PARKED WITHIN THE CLEAR ZONE, BUT NOT WITHIN THE ROADWAY EACH VEHICLE SHALL HAVE AN AMBER LIGHT.
2. WHEN A WORK AREA HAS BEEN ESTABLISHED 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. WHEN CONSTRUCTION SIGNING ANY ADDITIONAL SIGNS SHOWN IN "TEMPORARY TRAFFIC CONTROL GENERAL NOTED SHEET 11C-001" BY THE PROJECT ENGINEER SHALL BE INSTALLED UNDER ITEM 11C-01.

**LEGEND**

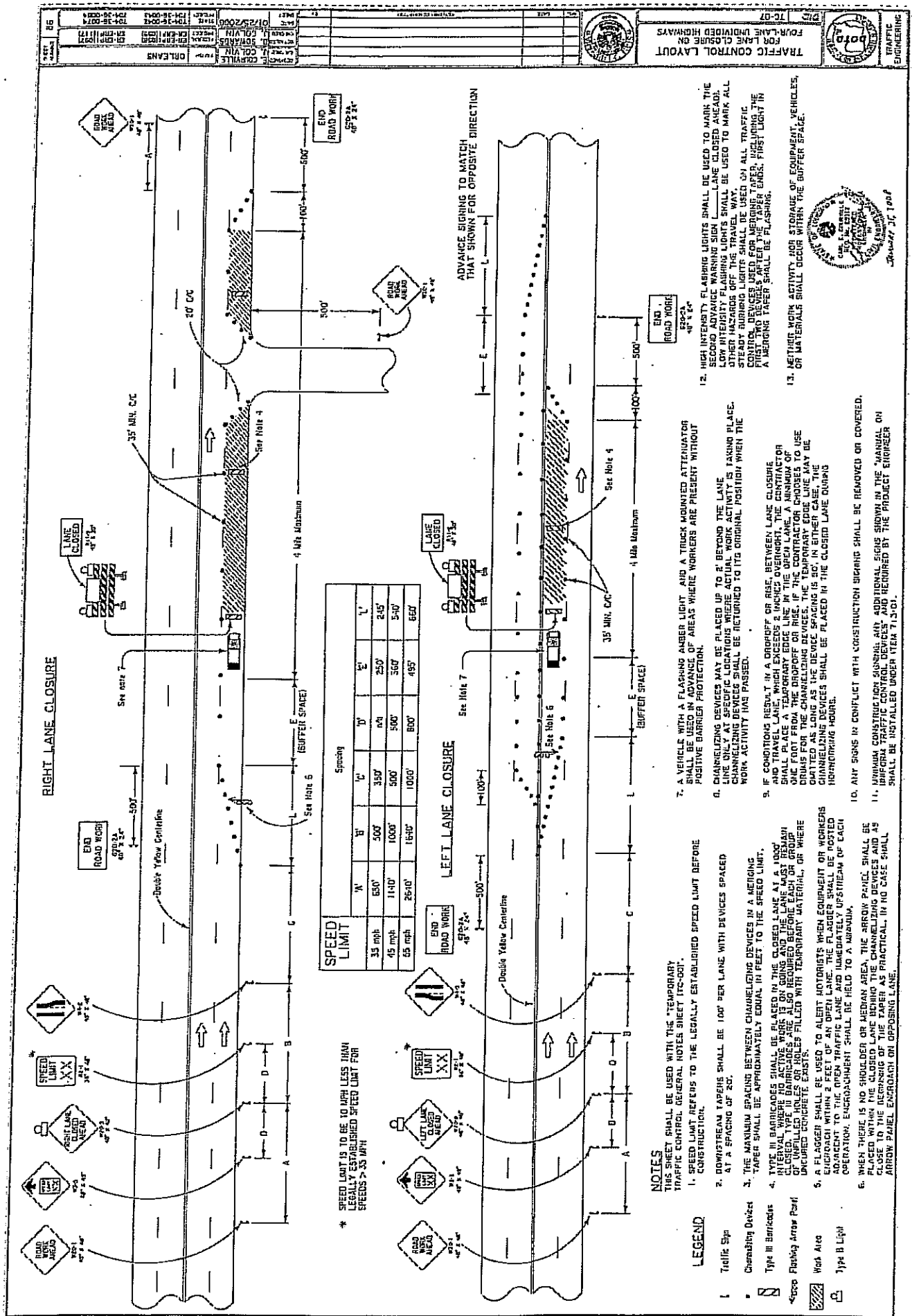
- 1 Traffic Sign
- 2 Work Area

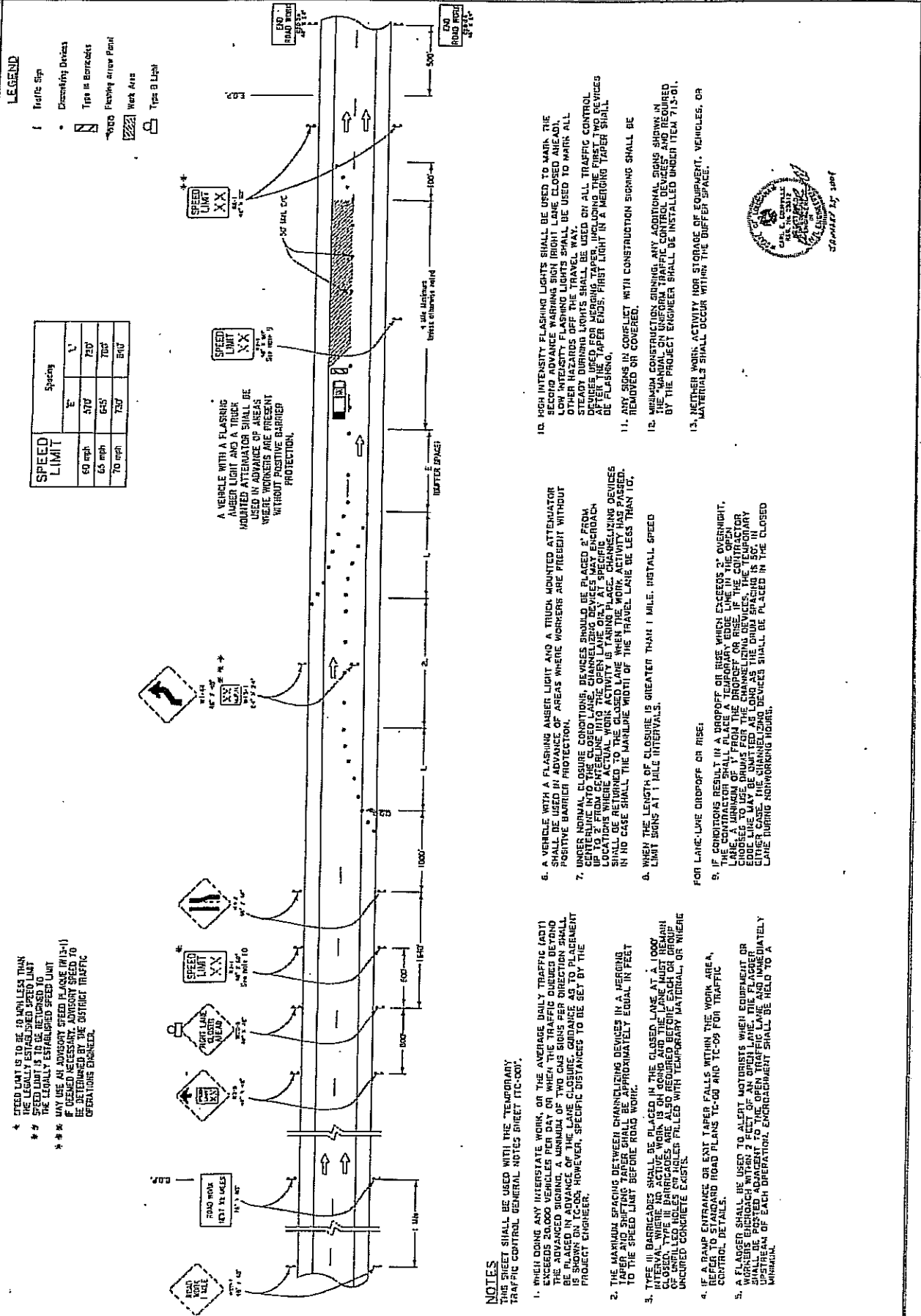
SPEED LIMIT	Spacing
35 mph	1/4"
45 mph	500'
55 mph	1000'
65 mph	1500'

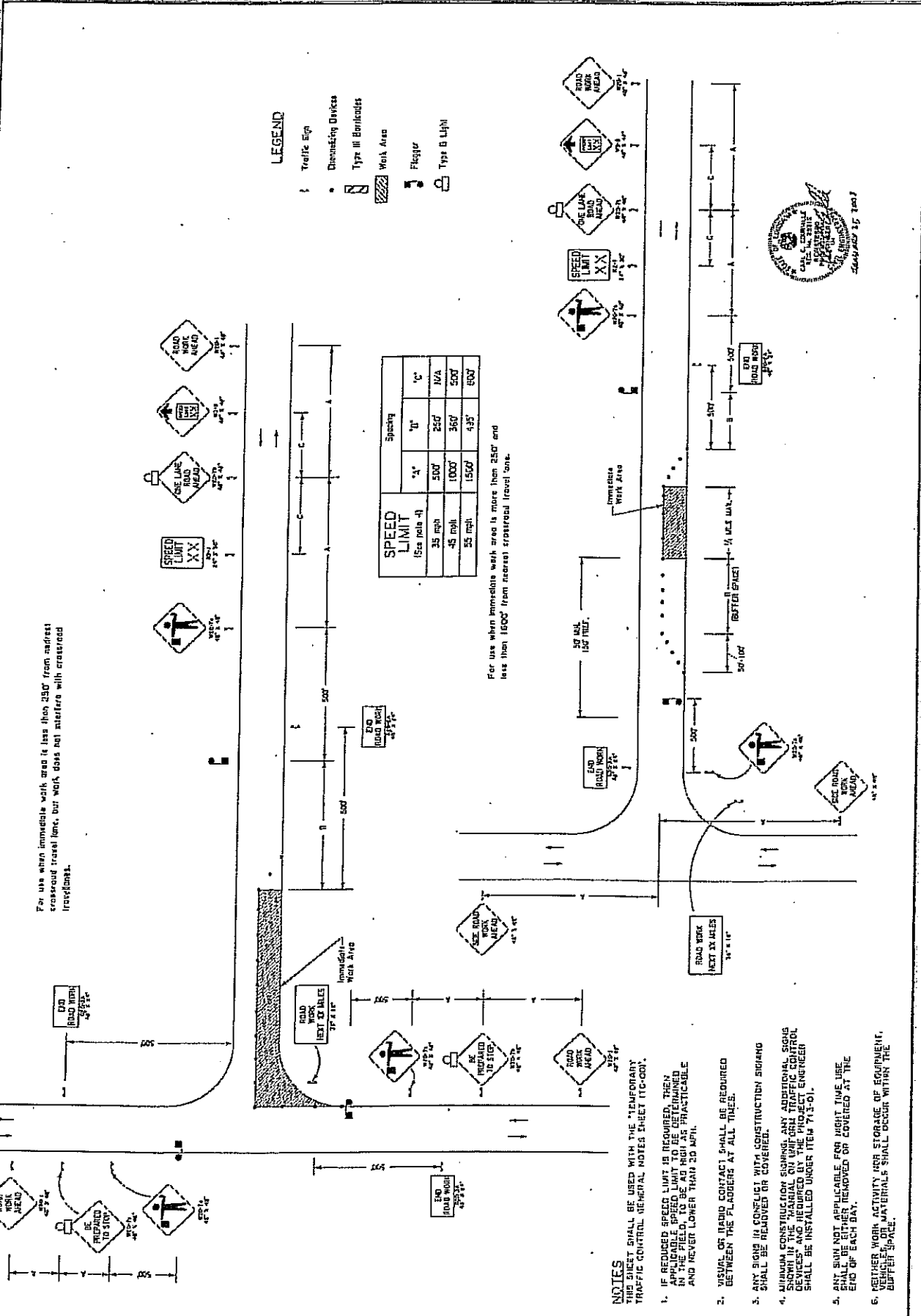




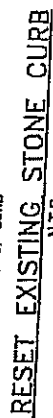
11. HIGH INTENSITY FLASHING LIGHTS SHALL BE USED TO MARK THE BEGINNING AND END OF ANY LANE CLOSURE. LANE CLOSURE SHALL BE MARKED WITH LOW INTENSITY FLASHING LIGHTS. ALL OTHER HAZARDOUS OFF THE TRAVEL SHALL BE USED TO MARK ALL OTHER HAZARDOUS OFF THE TRAVEL. ALL OTHER HAZARDOUS OFF THE TRAVEL SHALL BE USED TO MARK ALL OTHER HAZARDOUS OFF THE TRAVEL.
12. STEADY BURNING LIGHTS SHALL BE USED ON ALL TRAFFIC CONTROL DEVICES USED FOR WARNING TAPER, INCLUDING THE FIRST TWO DEVICES BE FLASHING. AFTER ENDS, FIRST LIGHT IN A WARNING TAPER SHALL BE FLASHING.
13. THE MAXIMUM SPACING BETWEEN CHANNELIZING DEVICES IN A WARNING TAPER AND SPACING TAPER SHALL NOT BE GREATER THAN 50'.
14. ANY SIGNS IN CONFLICT WITH CONSTRUCTION SIGNING SHALL BE REMOVED OR COVERED.
15. MINIMUM CONSTRUCTION SIGNING, ANY ADDITIONAL SIGNS SHOWN IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, ARE REQUIRED BY THE PROJECT ENGINEER. SHALL BE INSTALLED UNDER ITEM 713-01.
16. NEITHER WORK ACTIVITY NOR STORAGE OF EQUIPMENT, VEHICLES, OR MATERIALS SHALL OCCUR WITHIN THE BUFFER SPACE.













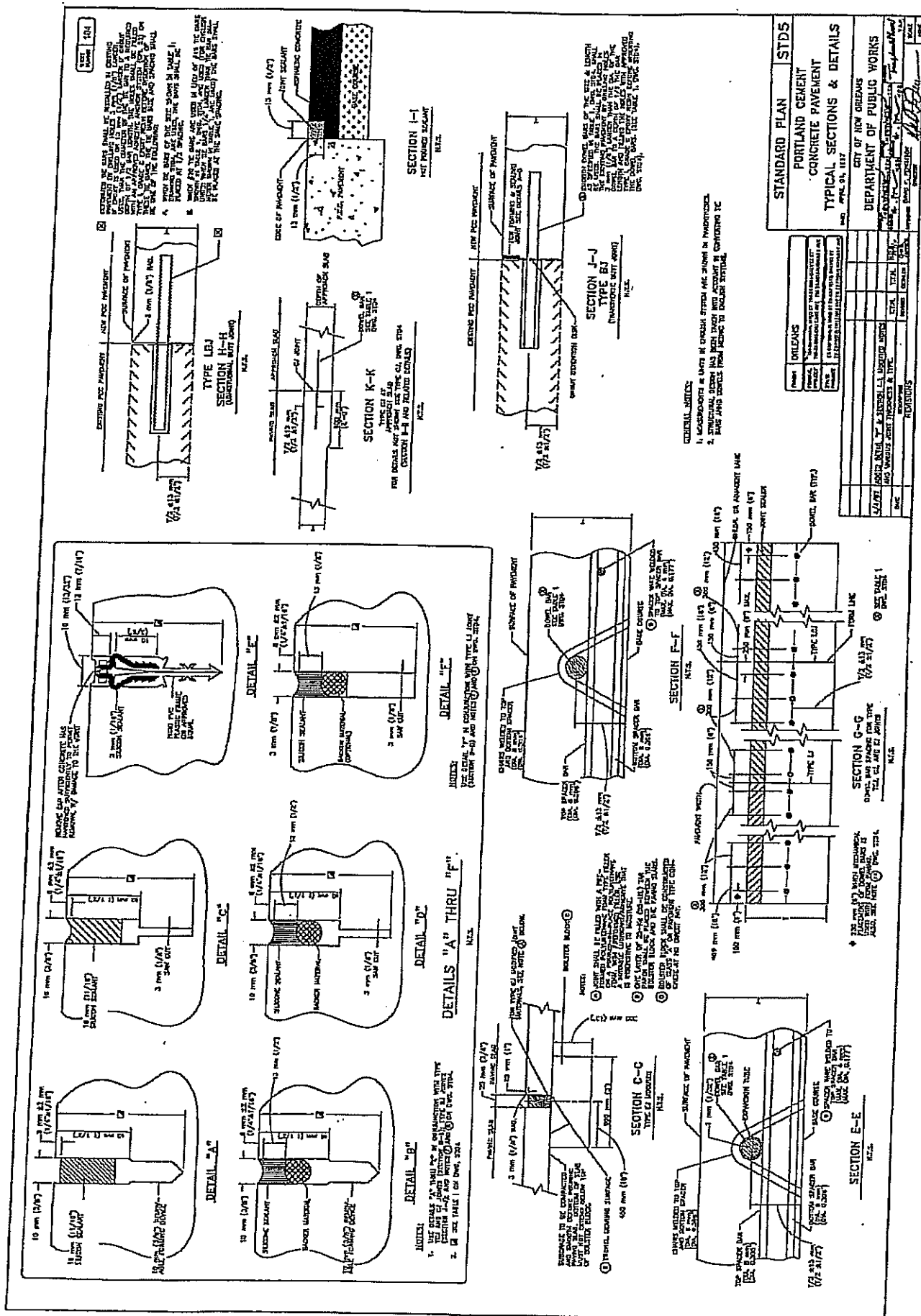
N.T.S.

	<p>RESETTING STONE CURB</p>		DESIGNED CHECKED JRS		BSR	PARISH	ORLEANS	SHEET NUMBER
			DRAWN CHECKED BAS		BSR			
<p>SPECIAL DETAILS</p>	NO.	DATE	DATE FEB 2009		BY	FEAT. PROJECT 704-36-0084	09	
			REMOVAL DESCRIPTION					

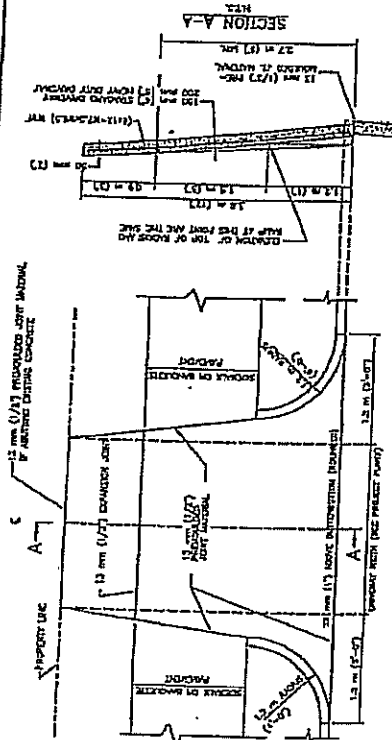


J-155

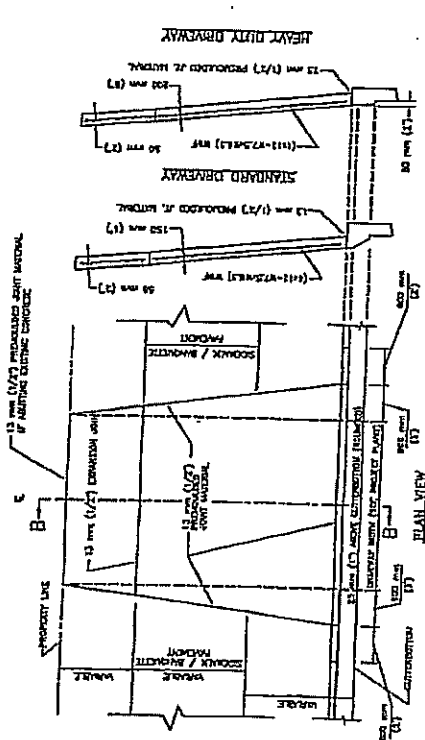




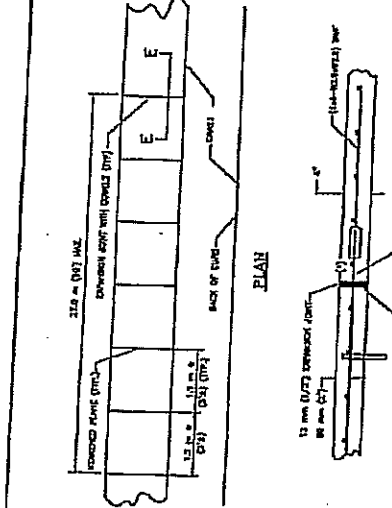
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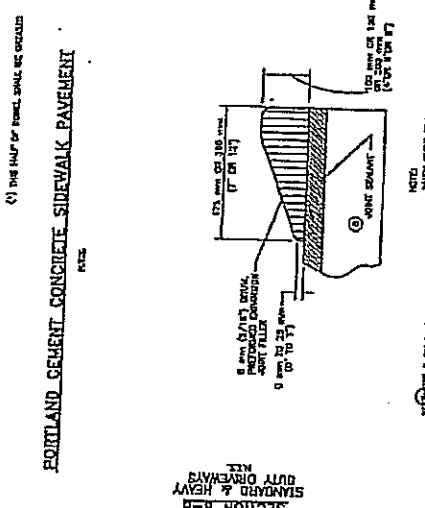
DETAIL OF STANDARD DRIVEWAY FOR CONCRETE VERTICAL CURB



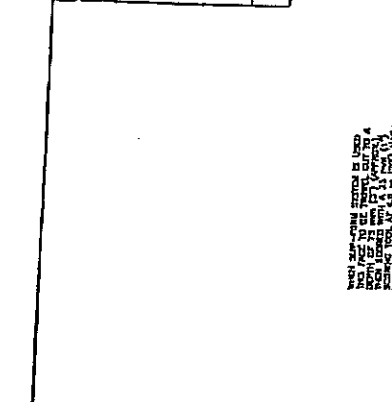
DETAIL OF STANDARD DRIVEWAY FOR CONCRETE VERTICAL CURB



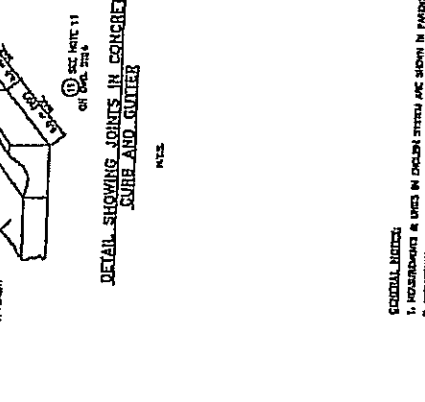
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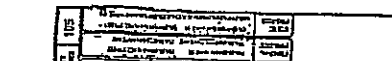
DETAIL OF STANDARD DRIVEWAY FOR CONCRETE VERTICAL CURB



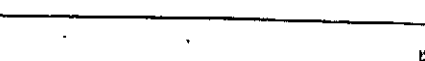
DETAIL OF STANDARD DRIVEWAY FOR CONCRETE VERTICAL CURB



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DETAIL OF STANDARD DRIVEWAY FOR CONCRETE VERTICAL CURB

STANDARD PLAN	STD66
PORTLAND CEMENT CONCRETE PAVEMENT MISCELLANEOUS DETAILS	
CITY OF NEW ORLEANS	
DEPARTMENT OF PUBLIC WORKS	
APRIL 24, 1917	
DESIGNED BY: [Signature]	
CHECKED BY: [Signature]	
APPROVED BY: [Signature]	
DATE: [Date]	

NO.	REVISION	DATE
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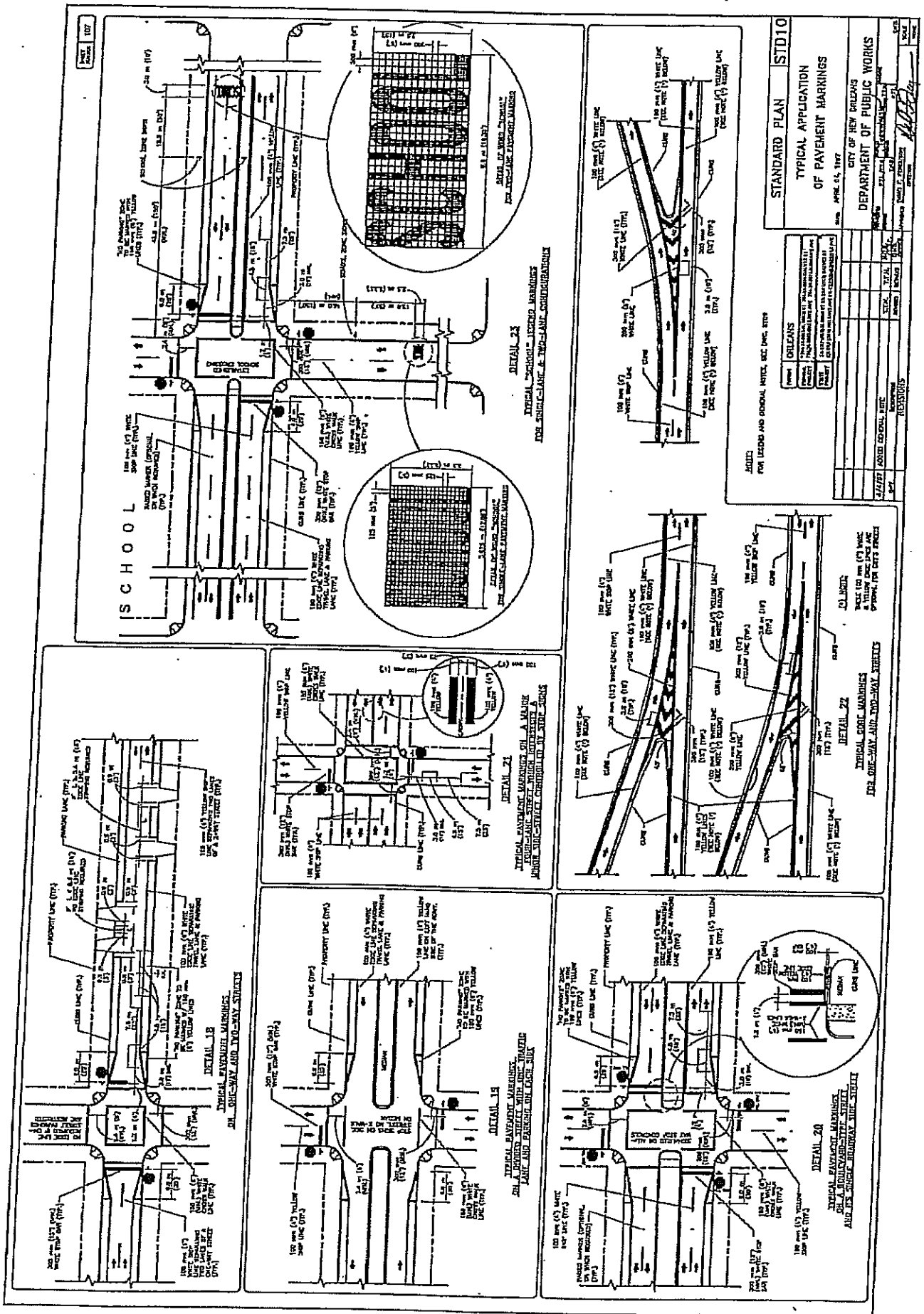
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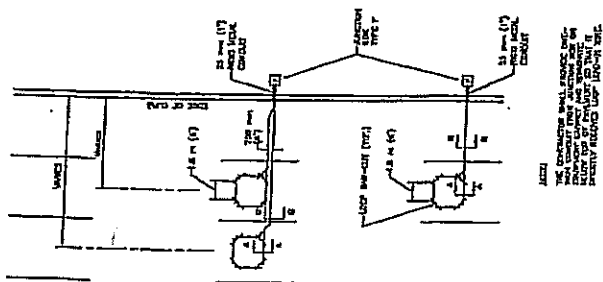
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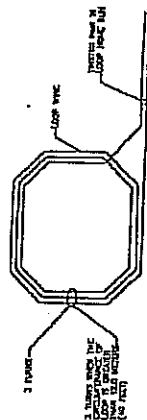




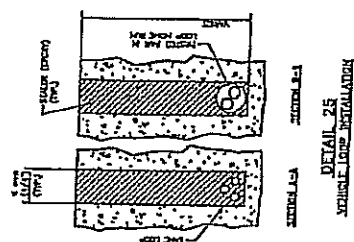




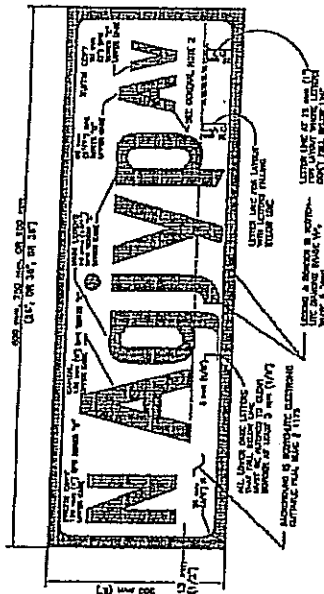
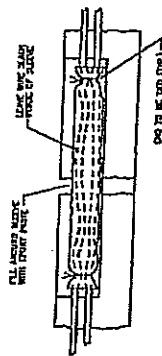
DETAIL 24  
OPTICAL LOOP SAW-CUT LAYOUT



DETAIL 27  
ROLLY PINE SHED 2007



DETAIL 28  
SECTION OF PLASTIC SHEETING  
AT PAVEMENT JOINT AND CRACK



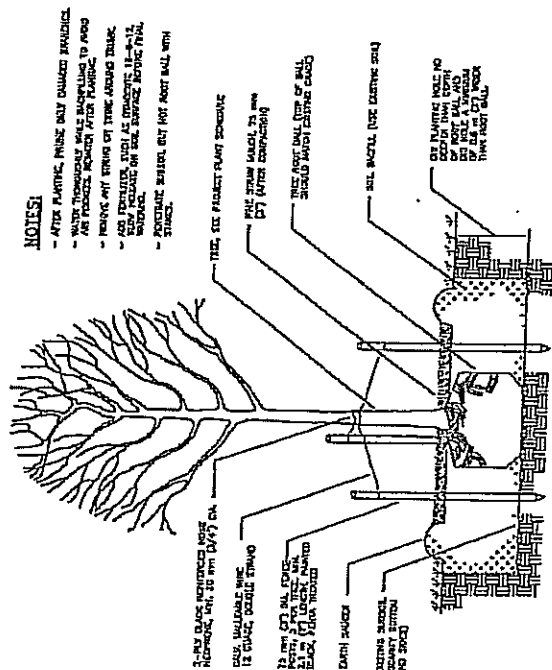
STREET NAME SIGN - LEGEND & BORDER

75478

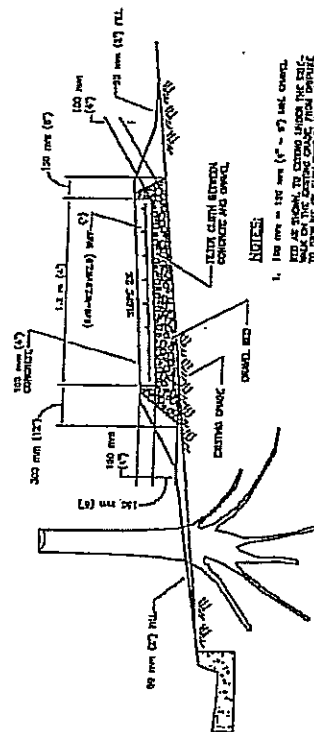
**GENERAL NOTES:**

1. MEASUREMENTS IN UNITS OF CLOUGH STITCHES ARE SHOWN IN PARENTHESES.
2. IF STITCH NAME DIFFERS IS "STITCH", STITCH IS OBTAINED FROM 5000

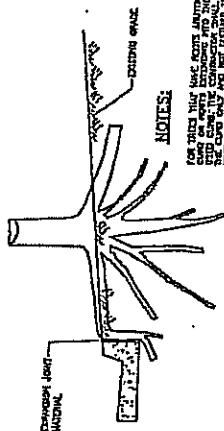
[illegible]



TREE PLANTING DETAIL



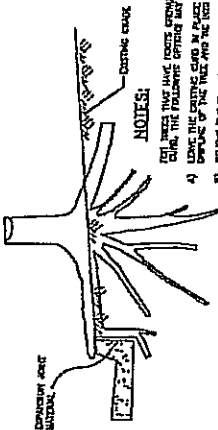
SIDEWALK GRAVEL BED  
REQ'D. AT EACH TREE LOCATION



**NOTES:**

FOR STORIES THAT HAVE BEEN AMBITIOUS AND  
CARED ON STORIES EXTENDING INTO THE PRESENT  
TOLD LONG. THE CONSTRUCTION THAT MOVES  
THE STORY ONLY AND NOT NEARLY THAT  
WHICH MOVES THE STORY INTO IT IS  
THE ONLY WAY TO THE STORY AND THE  
ONE WAY TO THE STORY CAN BE PROVED BY  
A LEGITIMATE METHOD.

**TYPICAL DIAGRAM NO. 1**  
**TREE ROOTS GROWING BEHIND**  
**EXISTING OR PROPOSED CURBS**

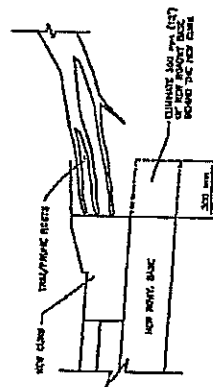


NOTES:

7) INDICES THAT HAVE POINTS CRAWLING OVER THE CLIMB, THE FOLLOWING OFFICERS MAY BE POSSIBLE:

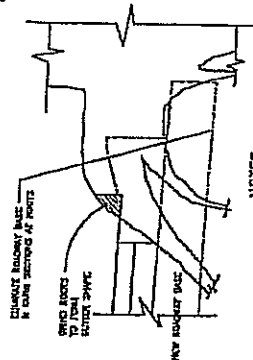
- A) LEAVE THE EXISTING CLIMB IN PLACE UNDER THE BELIEF OF THE TRIP AND THE NEW CLIMB.
- B) REMOVE THE EXISTING CLIMB BY HAND AND THEN HAND CLIMB BY HAND AROUND THE NEW CLIMB WITHOUT POINT PLACING.
- C) REMOVE THE EXISTING CLIMB BY HAND, REMOVE NOTED AS HAVING BY THE PARADIGM COMMISSION, THEN AND FOR THE NEW CLIMB.

**TYPICAL DIAGRAM NO. 2**  
**TREE ROOTS GROWING OVER CURB**



**DETAIL "A"**

DETAIL FOR ROOT PRUING AT CURBS.  
REFER TO "TWO" DRAWING NO. 1"  
KSA.



## NOTES:

WATSON AND WATSON OFFERS THIS MONTHLY EDITION, ILLUSTRATED MONTHLY BLET AND THIS EDITION AT REPT. TWO CASH BOOKS TO FOUR CASH BOOKS. WATSON AND WATSON OFFERS THIS MONTHLY EDITION, ILLUSTRATED MONTHLY BLET AND THIS EDITION AT REPT. TWO CASH BOOKS TO FOUR CASH BOOKS.

**TYPICAL DIAGRAM NO. 3**  
**TREE ROOTS EXTENDING INTO**  
**PROPOSED ROADWAY SECTION**

**GENERAL NOTE:**

- THE COMMISSION IS REQUESTING FOR FIVE A LETTERS REQUEST TO  
PURVE THE MOODS OF CITY TRICK  
ALL PROTECTS BEARING ON THE PROTECTION IN THE NAME AND SUPPORT  
COMMISSIONER AND THE REQUEST TO CERTAIN THE PROTECT OF MOOD  
PRUNING THAT WILL BE REQUESTED OR ALLOWED

[illegible][illegible]



EM: TEMPORARY SEDIMENT CHECK DAM (STORED)

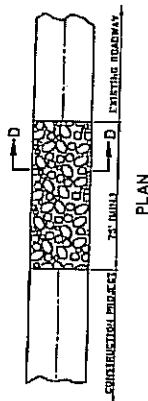
- 

FOR CONSTRUCTION DETAILS AND SPECIFICATIONS SEE SHEET 2 OF 2.)

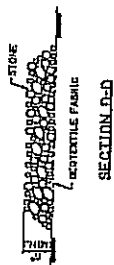


**PAY ITEM: TEMPORARY SEQUINENT CHECK DAW (IAT)**

1. A LAY BALE BARRIER IS A TEMPORARY SEGMENT BARRIER CONSISTING OF A LAY BALE OR BARRIERS LAYED IN A LINE TO WITHSTAND THE IMPACT OF A MOVING VEHICLE OR VEHICLES. THE CHECK DAMS TO BE USED IN THE LAY BALE BARRIER SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE LATEST EDITION OF THE AASHTO STANDARD SPECIFICATIONS FOR LAY BALE BARRIERS.
2. A NEW BASIC DESIGN GUIDELINES FOR THE USE OF A LAY BALE BARRIER ARE:
1. USE WHERE EROSION WOULD OCCUR IN THE FORM OF SHEET AND RILL EROSION
2. USE IN MINOR SPALLS ON DISTRICT WHERE THE MAINTENANCE DRAINAGE AREA IS 2 ACRES
3. MUST USE WHERE THE EFFECTIVENESS IS REQUIRED FOR LESS THAN 3 MONTHS
4. NOT TO BE USED FOR PERMANENT OR IN SPALLS ON DISTRICTS WHERE THERE IS AN 25% POSSIBILITY OF A LAY BALE BARRIER BEING REQUIRED FOR MORE THAN 3 MONTHS



PLAN



SECTION D-D

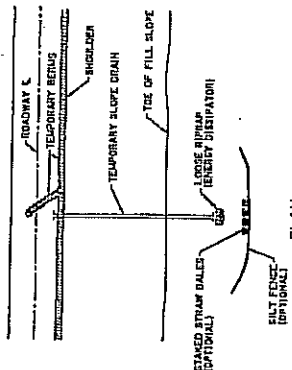
### TEMPORARY STONE CONSTRUCTION ENTRANCE

PAY ITEM: TEMPORARY STONE CONSTRUCTION ENTRANCE

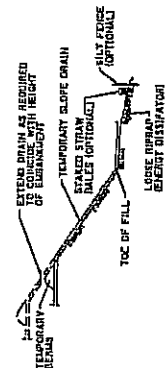
#### NOTES:

##### TEMPORARY STONE CONSTRUCTION ENTRANCE ALONG WALL DRAIN

1. A STONE WALL MUST BE CONSTRUCTED AT POINTS OF VERTICAL CURVES AND OTHERS ON THE CONSTRUCTION WORK AREA. IN A LOWER AREA, THE WALL MUST BE CONSTRUCTED TO THE POINT OF VERTICAL CURVE. THE WALL MUST BE CONSTRUCTED TO THE POINT OF VERTICAL CURVE. THE WALL MUST BE CONSTRUCTED TO THE POINT OF VERTICAL CURVE.
2. THE LENGTH OF THE PAD MUST BE AT LEAST 10 FEET AND IT MUST EXTEND THE FULL WIDTH OF THE VERTICAL CURVE.
3. A GEOTEXTILE FABRIC UNDERLAYER IS REQUIRED. THE GEOTEXTILE FABRIC SHALL BE IN ACCORDANCE WITH PROJECT SPECIFICATIONS FOR GEOTEXTILE FABRIC (CLASS D).
4. A 6" WIDE RIBBON IS NECESSARY. PROVISIONS MUST BE MADE TO INTERCEPT THE MAIN WATER FLOW AND THE MAIN WATER FLOW MUST BE CARRIED OFF-SITE.



PLAN

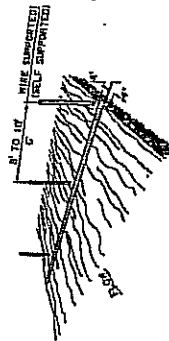


ELEVATION

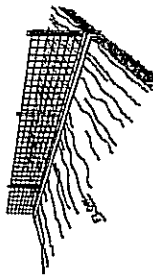
### TEMPORARY SLOPE DRAIN

1. A TEMPORARY SLOPE DRAIN IS A DEVICE USED TO CARRY WATER FROM THE CONSTRUCTION WORK AREA. IN A LOWER AREA, THE DRAIN MUST BE CONSTRUCTED TO THE POINT OF VERTICAL CURVE. THE DRAIN MUST BE CONSTRUCTED TO THE POINT OF VERTICAL CURVE. THE DRAIN MUST BE CONSTRUCTED TO THE POINT OF VERTICAL CURVE.
2. THE LENGTH OF THE PAD MUST BE AT LEAST 10 FEET AND IT MUST EXTEND THE FULL WIDTH OF THE VERTICAL CURVE.
3. A GEOTEXTILE FABRIC UNDERLAYER IS REQUIRED. THE GEOTEXTILE FABRIC SHALL BE IN ACCORDANCE WITH PROJECT SPECIFICATIONS FOR GEOTEXTILE FABRIC (CLASS D).
4. A 6" WIDE RIBBON IS NECESSARY. PROVISIONS MUST BE MADE TO INTERCEPT THE MAIN WATER FLOW AND THE MAIN WATER FLOW MUST BE CARRIED OFF-SITE.
5. TO ENSURE PROPER OPERATION, TEMPORARY SLOPE DRAINS MUST BE MAINTAINED AND THE SLOPE DRAIN MUST BE CARRIED OFF-SITE.

1. SET POSTS AND EXCAVATE A 4" X 4" TRENCH DEEP ENOUGH TO HOLD THE POSTS.



2. STAPLE WIRE FENCING TO THE POSTS.



3. ATTACH THE SILT FENCE TO THE WIRE FENCE AND EXTEND IT INTO THE TRENCH.



4. BACKFILL AND COMPACT EXCAVATED SOIL.



EXTENSION OF FABRIC INTO THE TRENCH



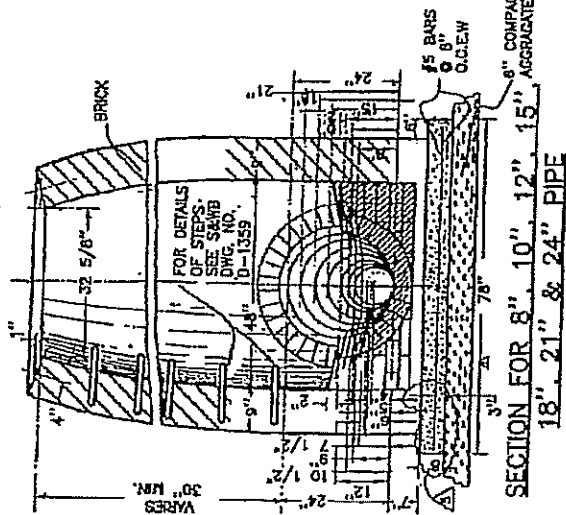
### CONSTRUCTION OF TEMPORARY SILT FENCING

ONCE SUPPORTED SILT FENCE IS KNOWN, SELF-SUPPORTED SILT FENCE WILL BE CONSTRUCTED ACCORDING TO MANUFACTURER'S SPECIFICATIONS.

#### NOTES:

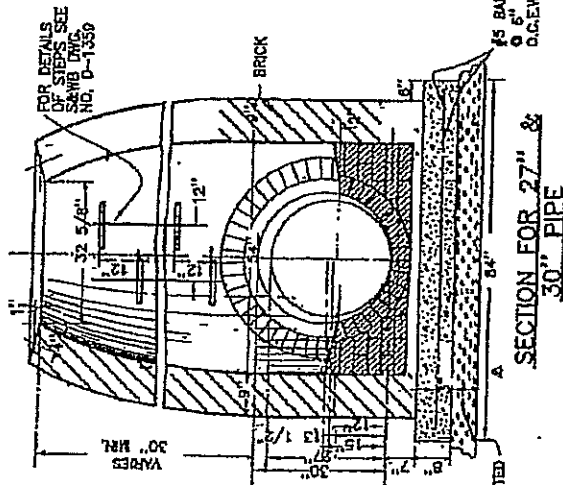
1. SILT FENCING IS A TEMPORARY EROSION CONTROL DEVICE CONSISTING OF A FILTER FABRIC SUPPORTED BY A FRAME OF POSTS AND RAILS. THE SILT FENCE IS USED TO INTERCEPT AND DETAIN SILT AND SEDIMENT. THE SILT FENCE IS USED TO INTERCEPT AND DETAIN SILT AND SEDIMENT. THE SILT FENCE IS USED TO INTERCEPT AND DETAIN SILT AND SEDIMENT.
2. USE WHERE EROSION WOULD OCCUR IN THE FORM OF DRAINAGE AND FILL EROSION.
3. USE WHERE THE MAXIMUM SLOPE LENGTH BEHIND THE DRAINAGE IS 100 FEET.
4. USE WHERE THE MAXIMUM SLOPE LENGTH BEHIND THE DRAINAGE IS 100 FEET.
5. DO NOT USE SILT FENCES IN LIVE STREAMS OR IN DITCHES OR SWALES WHERE FLOWS EXCEED ONE CUBIC FOOT PER SECOND.

NO.1 M.H.



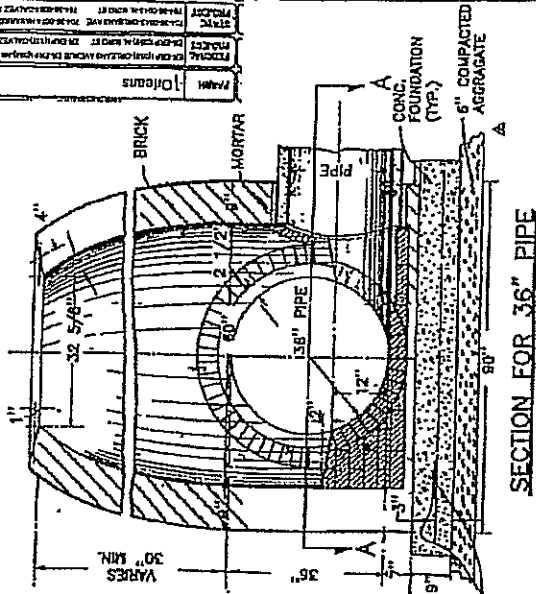
SECTION FOR 8" 10" 12" 15" 18" 21" & 24" PIPE

NO.2 M.H.

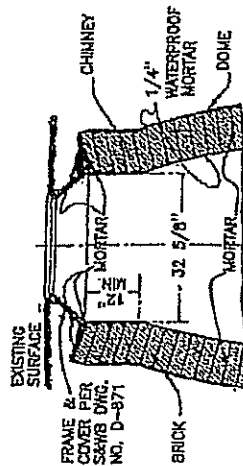


SECTION FOR 27" & 30" PIPE

NO.3 M.H.



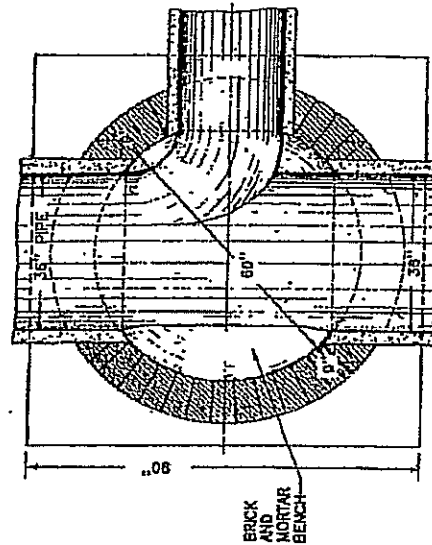
SECTION FOR 36" PIPE



TYPICAL UPPER MANHOLE SECTION

△ NOTES:

1. ALL MANHOLES, FRAMES AND COVERS SHALL BE AS SHOWN ON SANDWICH 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 SANDWICH DWG. NO. 6178-B-6 FOR PRE-CAST MANHOLES.



SECTION A-A

NO.3 M.H. - AS SHOWN  
NO.1 & 2 M.H. - SIMILAR

SCALE: N.T.S.

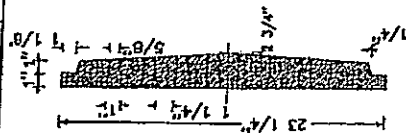
NO.	DESCRIPTION	DATE
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2	CHECKED BY	
3	APPROVED BY	
4	DESIGNED AND DRAWN BY	
5	CHECKED BY	
6	APPROVED BY	
7	DESIGNED AND DRAWN BY	
8	CHECKED BY	
9	APPROVED BY	
10	DESIGNED AND DRAWN BY	
11	CHECKED BY	
12	APPROVED BY	

SEWERAGE AND WATER BOARD  
OF NEW ORLEANS

GENERAL SECTION OF STANDARD  
DRAWING BOARD

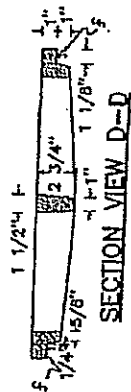
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7	DESIGNED AND DRAWN BY	
8	CHECKED BY	
9	APPROVED BY	
10	DESIGNED AND DRAWN BY	
11	CHECKED BY	
12	APPROVED BY	

DWG. NO. D-870  
REV. 12-11-58

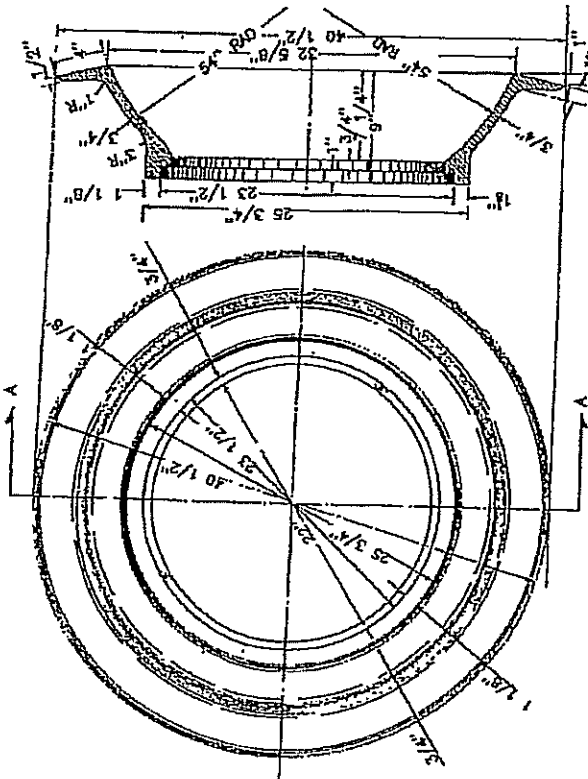


TOP VIEW OF OPEN GRATE  
MANHOLE COVER

SECTION VIEW C-C

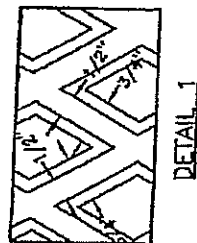


SECTION VIEW D--D

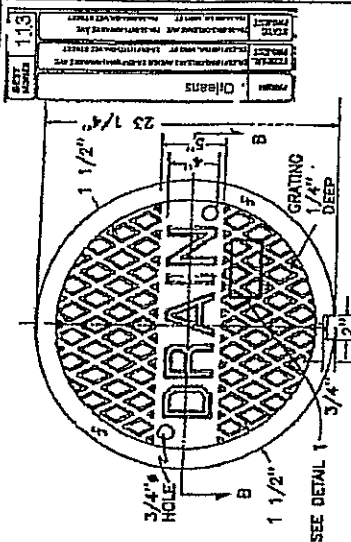


TOP VIEW OF MANHOLE FRAME

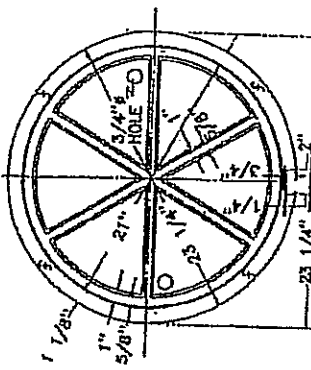
SECTION VIEW A-A



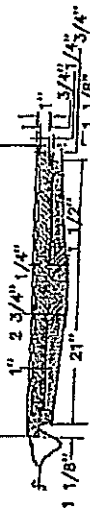
DETAIL 1



TOP VIEW OF MANHOLE COVER



BOTTOM VIEW OF MANHOLE COVER

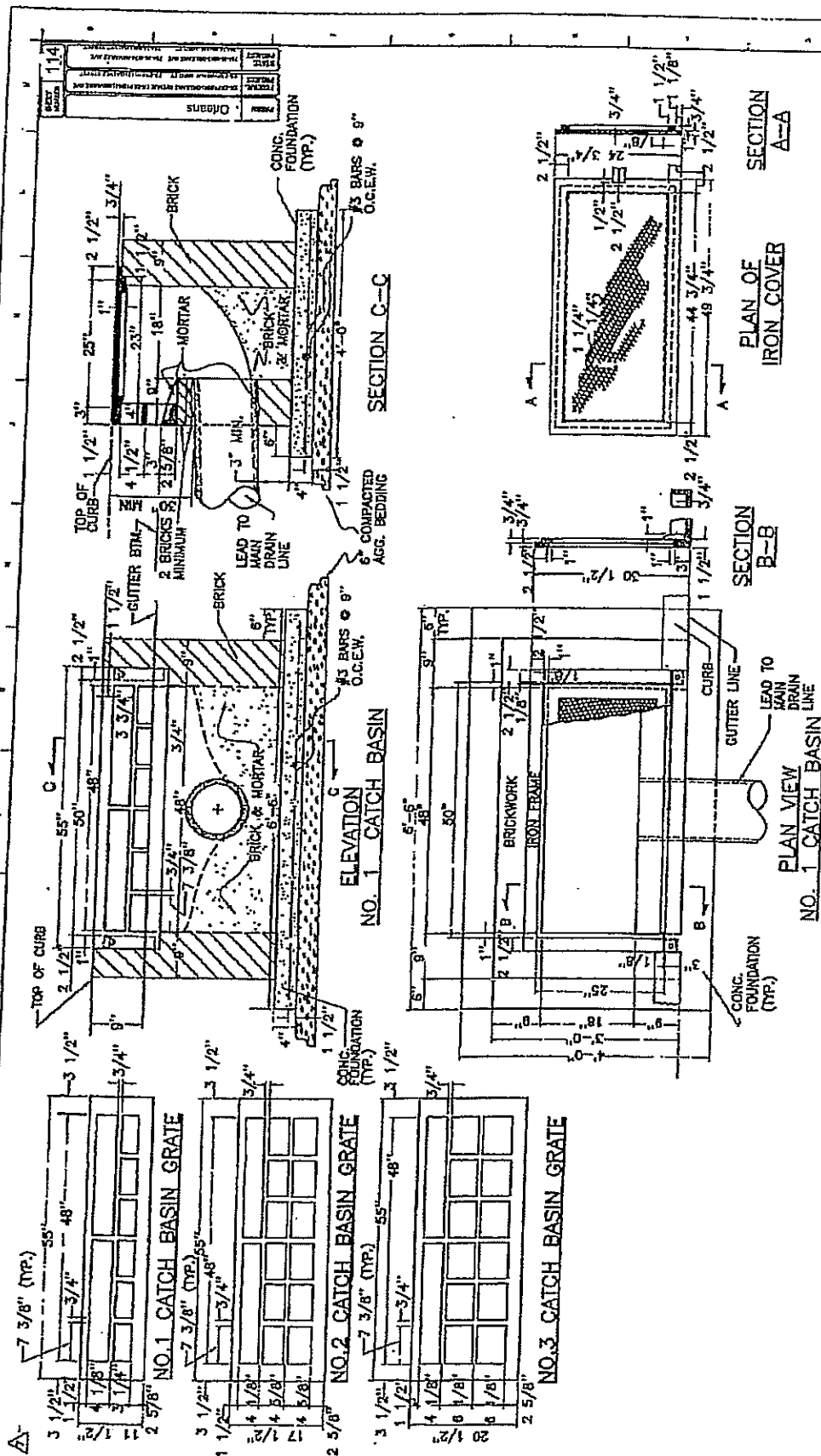


SECTION VIEW B-B

**SCALE: N.T.S.**

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97	DATE-CHARGED	DATE	TIME
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99	DATE-CHARGED	DATE	TIME
100	NAME	ADDRESS	PHONE

- NOTES:**
1.  $f =$  MACHINED SURFACE.
  2. FRAME & COVER SHALL CONFORM TO EAST JORDAN IRON WORK, INC. V-1501 FRAME & COVER OR APPROVED EQUAL.



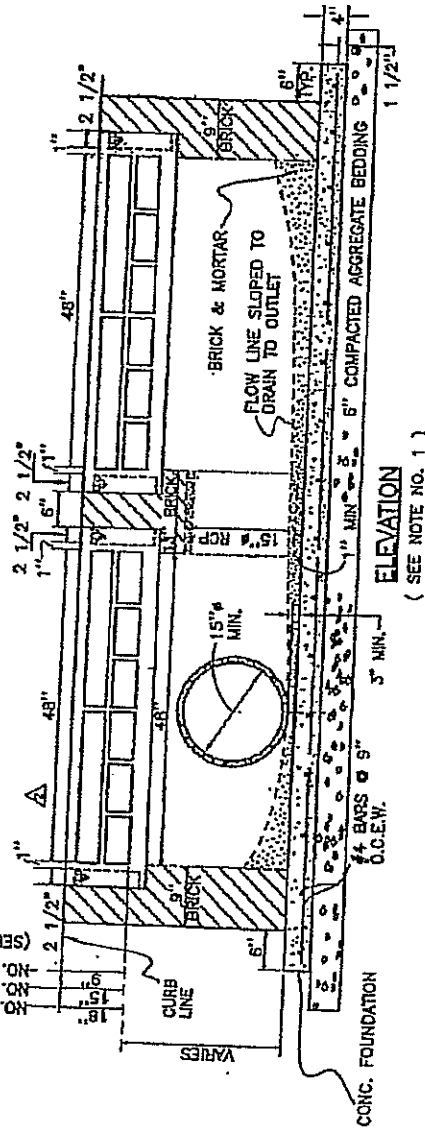
# NOTES:

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.	REVISION	DATE	BY	CHKD.
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100	REVISION			

(SEE DWG. D-873)  
NO. 1 CATCH BASIN  
NO. 2 CATCH BASIN  
NO. 3 CATCH BASIN



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:**

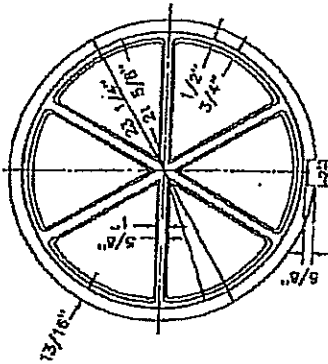
1. DOUBLE CATCH BASIN SHOWN. SEE S&WB DWG. NO. D-873 FOR SINGLE TYPE CATCH BASIN CASTINGS.
2. SEE S&WB DWG. NO. D-873 FOR SECTIONS & DETAILS OF CATCH BASINS 1, 2 & 3 AND METAL CASTING.
3. INSIDE & OUTSIDE OF BRICK WALLS, BENCHES, & INVERTS TO BE MORTARED WITH A WATERPROOFING COMPOUND, THICKNESS OF 1/4" 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-3284 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, Y-4510 CURB INLETS SERIES.

SCALE: N.T.S.

DESIGNED BY	ENGINEER	DATE	NO.
CHECKED BY	ENGINEER	DATE	NO.
APPROVED BY	ENGINEER	DATE	NO.
REVIEWER AND WATER BOARD			
OF NEW ORLEANS			
DETAIL OF STILL DOUBLE			
VERTICAL CURB BASIN			
BY	DATE	DWG. NO.	DATE
		D-873A	



DE KONTINENTALE VERBODEN ALLE MAASCHEN EN HET DE KONTINENTALE VERBODEN ALLE MAASCHEN EN HET	1174 1174 1174 1174
DE KONTINENTALE VERBODEN ALLE MAASCHEN EN HET DE KONTINENTALE VERBODEN ALLE MAASCHEN EN HET	1174 1174 1174 1174



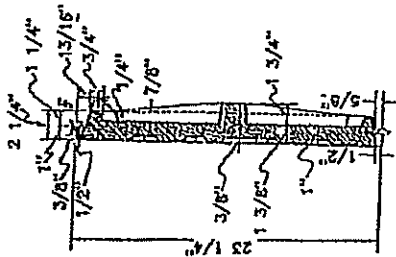
BOTTOM VIEW OF  
MANHOLE COVER  
(SEWER & WATER)

**NOTE:**

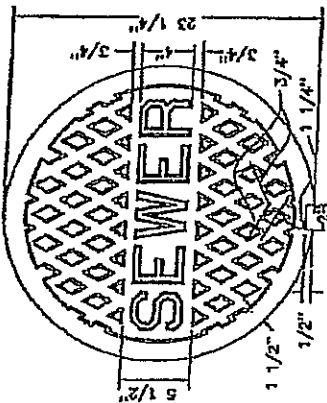
1. f = MACHINED SURFACE
2. FRAME & COVER SHALL CONFORM TO EAST JORDAN IRON WORKS, V-1501 FRAME AND COVER.

[illegible]

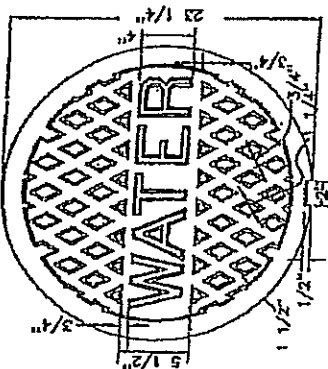
**STATUS**



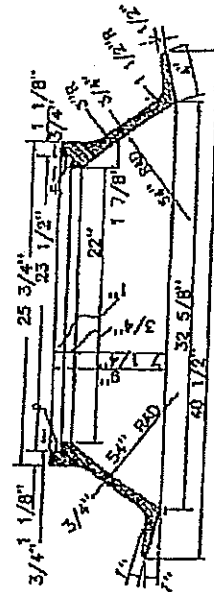
CROSS SECTION OF  
MANHOLE COVER  
(SEWER & WATER)



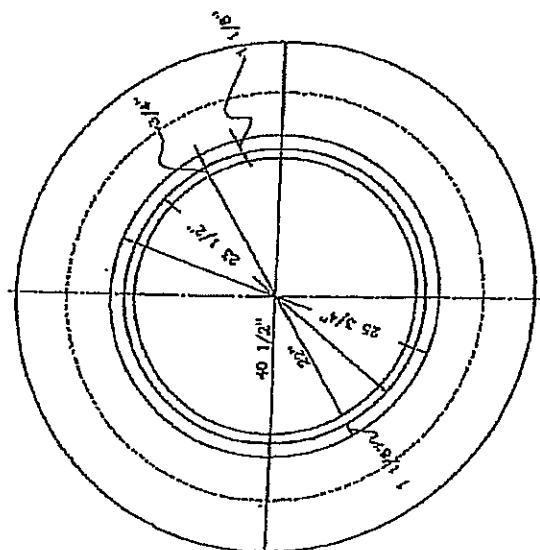
TOP VIEW OF SEWER  
MANHOLE COVER



TOP VIEW OF WATER  
MANHOLE COVER



CROSS SECTION OF FLARING  
MANHOLE FRAME  
(SEWER & WATER)



PLAN OF FLARING FRAME MANHOLE

[illegible]

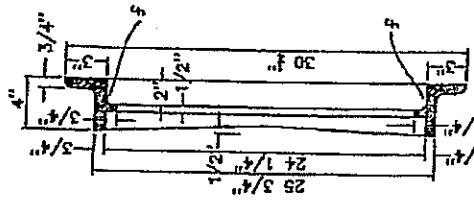
**⚠ NOTES:**

1. WEIGHT OF FRAME 154 LBS.
2. WEIGHT OF COVER 278 LBS.
3.  $f \approx$  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. 12-4430 GUTTER INLET OR APPROVED EQUAL.

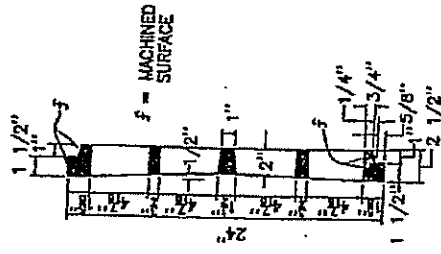
**SCALE: N.T.S.**

[illegible]

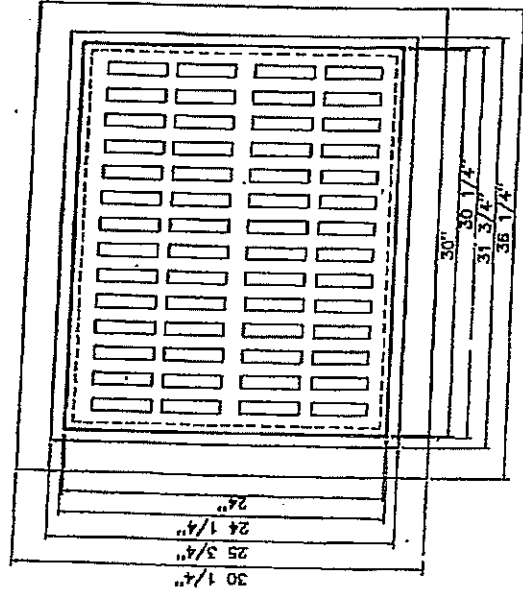
TRANSVERSE SECTION OF  
FRAME



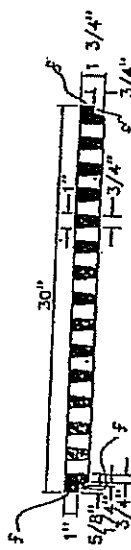
TRANSVERSE SECTION OF  
GRATE



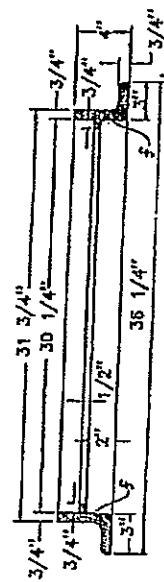
PLAN OF FRAME AND GRATE



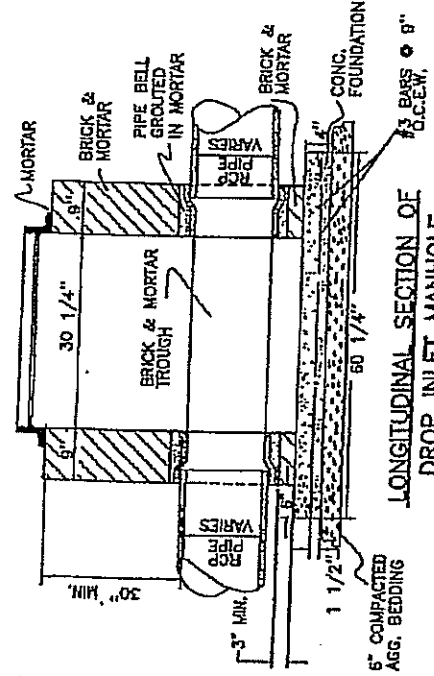
LONGITUDINAL SECTION OF GRATE



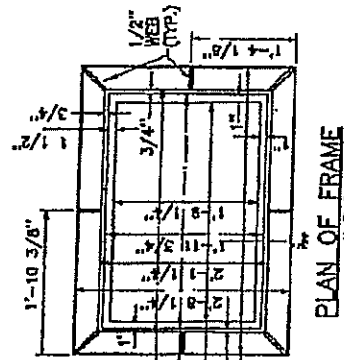
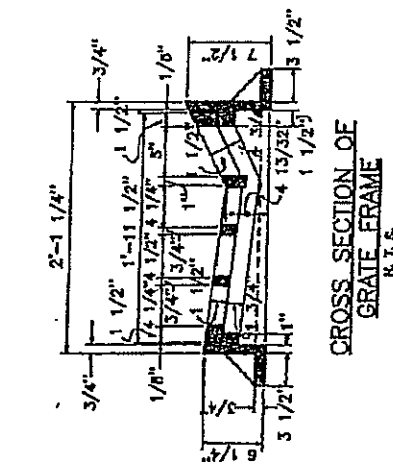
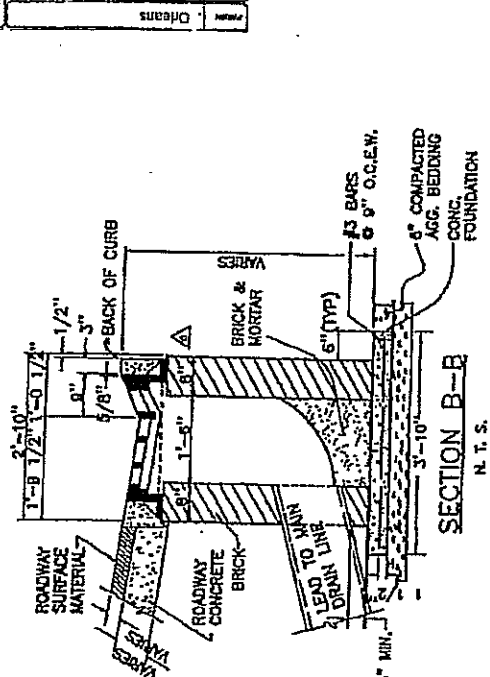
### LONGITUDINAL SECTION OF FRAME



LONGITUDINAL SECTION OF  
DROP INLET MANHOLE

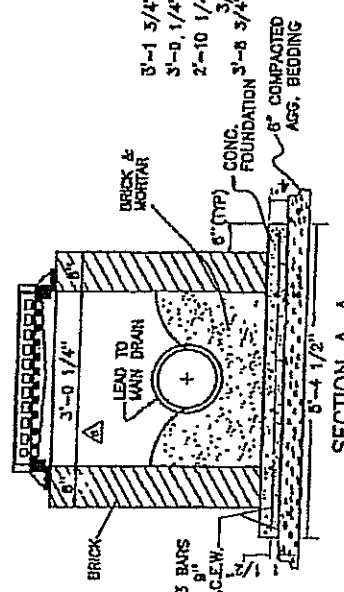
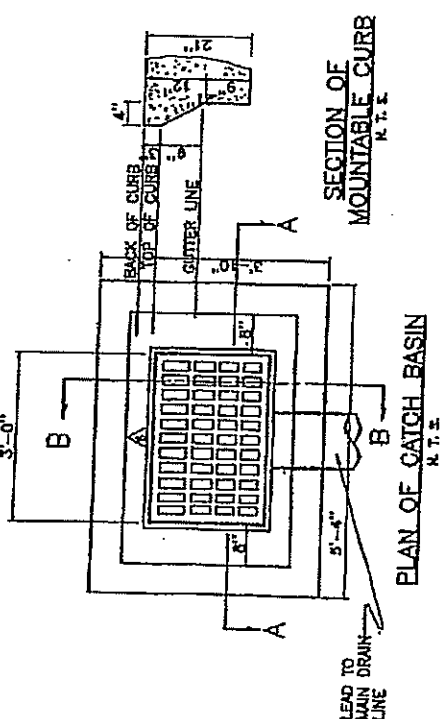


NO. 1118	PROJECT	STATION	DATE
	NEW ORLEANS		
	DESIGNED BY	CHECKED BY	DATE

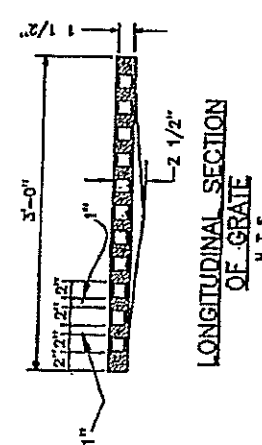


CROSS SECTION OF GRATE FRAME  
N.T.S.

PLAN OF FRAME  
N.T.S.



SECTION A-A  
N.T.S.



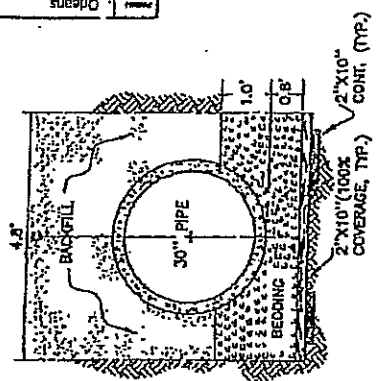
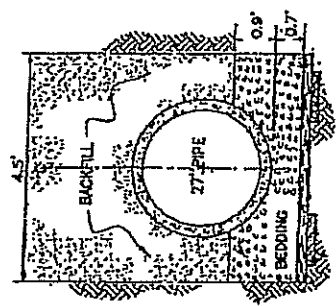
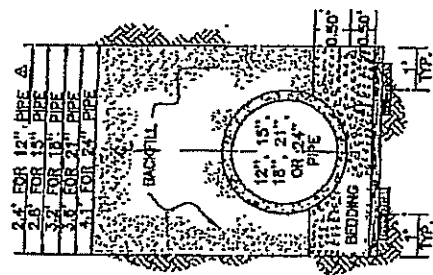
LONGITUDINAL SECTION OF GRATE  
N.T.S.

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 GUTTER INLET OR APPROVED EQUAL.

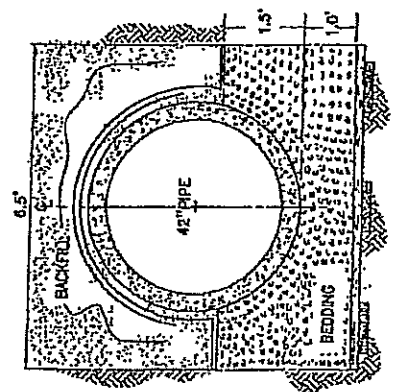
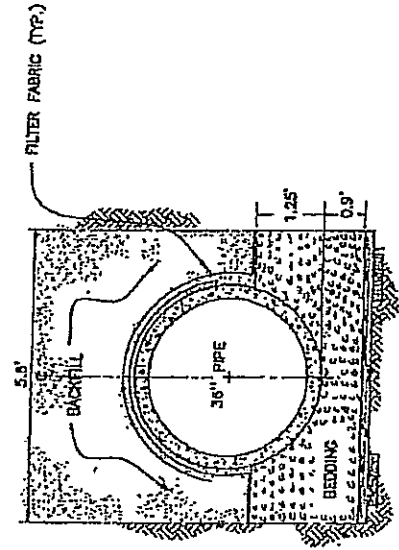
NO. 1118	PROJECT	STATION	DATE
	NEW ORLEANS		
	DESIGNED BY	CHECKED BY	DATE

PROJECT	115
DATE	11/15
BY	11/15
CHECKED	11/15
APPROVED	11/15
REVISIONS	
NO.	DESCRIPTION
1	11/15
2	11/15
3	11/15
4	11/15
5	11/15
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100	11/15



# 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 SAME 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 II UNLESS OTHERWISE NOTED.

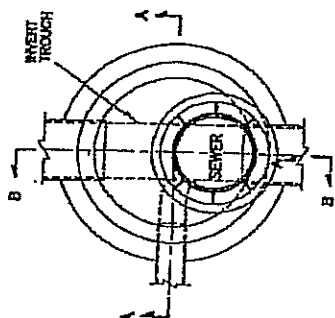


## CONCRETE PIPE BEDDING SECTIONS FROM 12" TO 42"

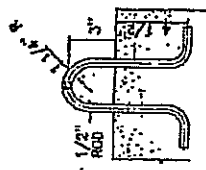
SCALE: N.T.S.

PROJECT	115
DATE	11/15
BY	11/15
CHECKED	11/15
APPROVED	11/15
REVISIONS	
NO.	DESCRIPTION
1	11/15
2	11/15
3	11/15
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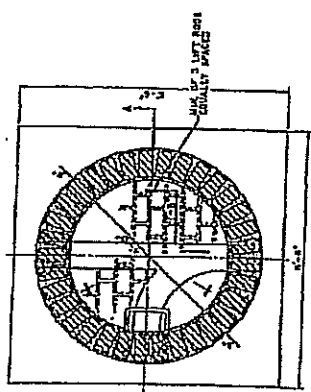




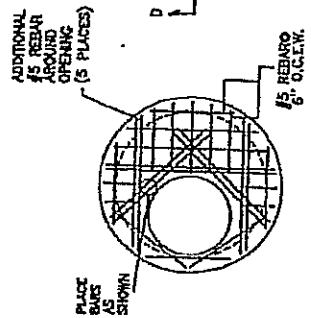
PLAN VIEW



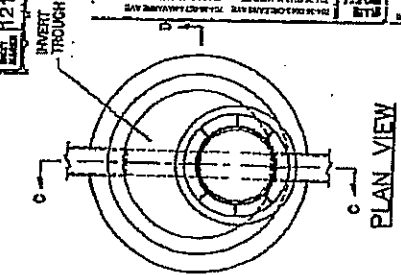
LIFTING EYE  
DETAIL



PLAN OF MANHOLE  
TROUGH

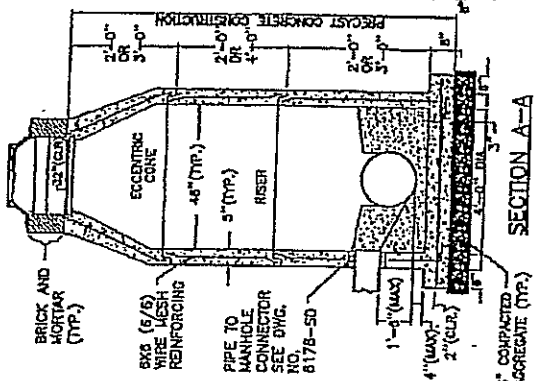


CONCRETE TOP  
SLAB PLAN



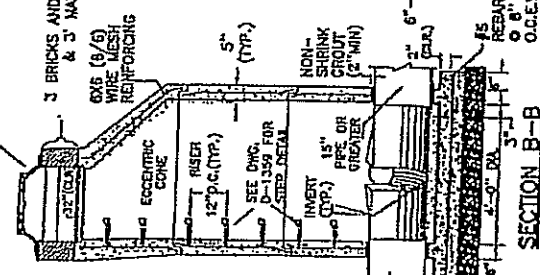
PLAN VIEW

STANDARD MANHOLE  
FRAME AND COVER SEE  
DWG. NO. D-871 OR  
DWG. NO. 3143-E-1 FOR  
MANHOLE CASTINGS

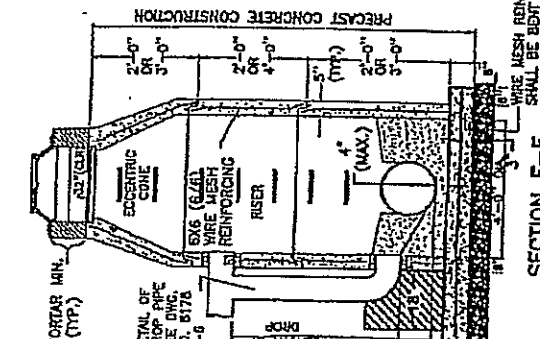


SECTION A-A

STANDARD MANHOLE DETAIL

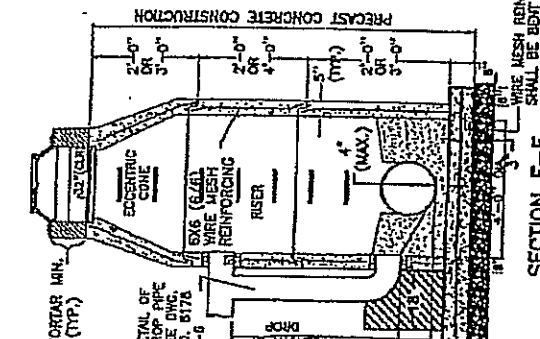


SECTION B-B



SECTION E-E

STANDARD DROP  
MANHOLE DETAIL



SECTION D-D

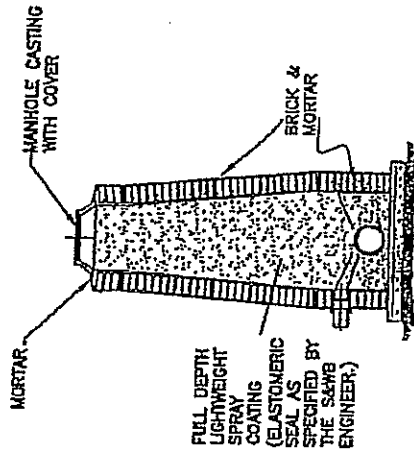
NOTES:

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. 15" 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 WATER, AGGRESSIVE CHEMICALS BY EITHER AN APPROVED CONCRETE BATCH ADDITIVE OR PROTECTIVE WATERPROOFING COMPOUND.
8. A DROP CONNECTION SHALL BE CONSTRUCTED WHERE THE BELOW INVERTS ARE 18" OR MORE ABOVE THE OUTFLOW INVERTS.
9. REFERENCE DWG. NO. D-1359 FOR STEPS.

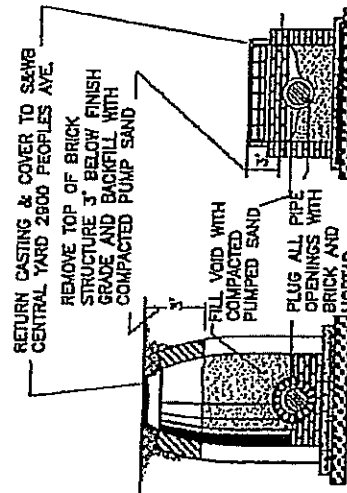
SCALE: N.T.S.

NO.	DATE	REVISION
1	12/1/68	SEWERAGE AND WATER BOARD OF NEW ORLEANS
2	12/1/68	TYPICAL PRE-CAST CONCRETE MANHOLE
3	12/1/68	CONCRETE MANHOLE
4	12/1/68	CONCRETE MANHOLE
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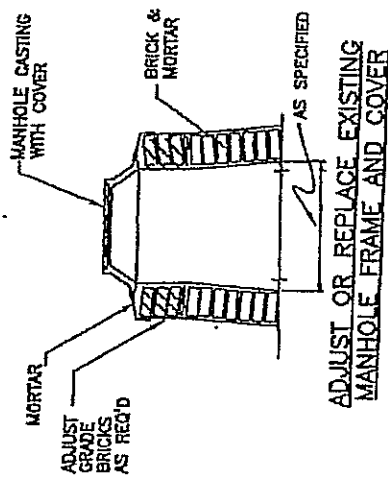
SCALE N.T.S.					
REV.	DATE	DESCRIPTION	BY		
<b>BEVERAGE AND WATER BOARD OF NEW ORLEANS</b>					
<b>WINDHOLE ADJUSTMENT AND REBATHING</b>					
DATE WORK DONE	BY WHOM DONE	CHECKED BY	APPROVED BY		
			<i>[Signature]</i>	DWG NO. BT80-SO	



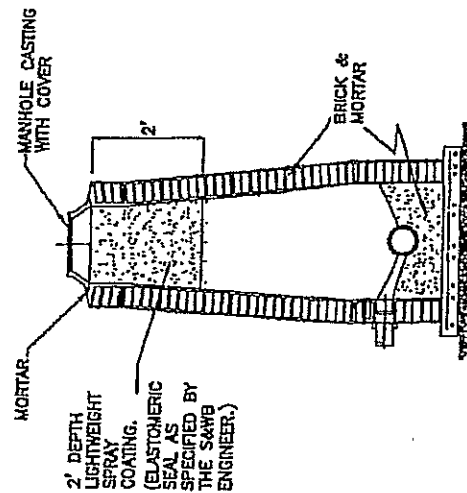
MANHOLE REHABILITATION FULL  
DEPTH WITH SPRAY APPLIED  
STRUCTURAL CEMENTITIOUS LINER



TYPICAL ABANDON MANHOLE  
AND CATCH BASIN DETAIL



**NOTES:**



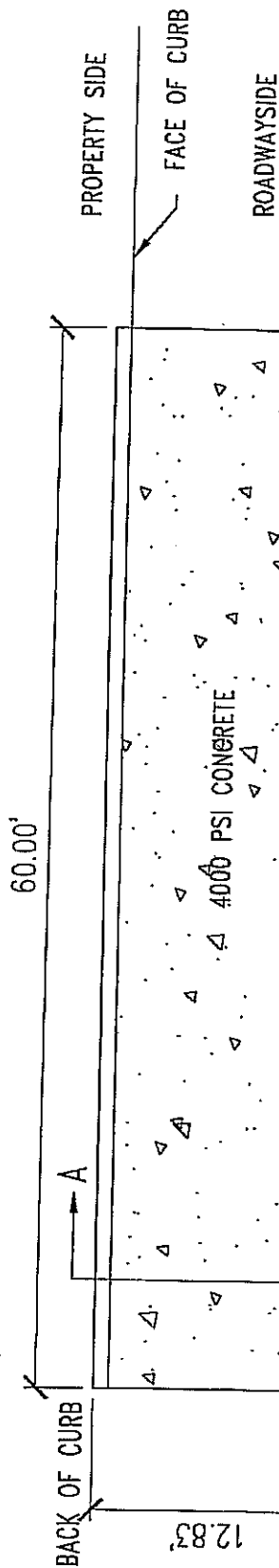
MANHOLE REHABILITATION 2' DEPTH  
WITH SPRAY APPLIED STRUCTURAL  
CEMENTITIOUS LINER





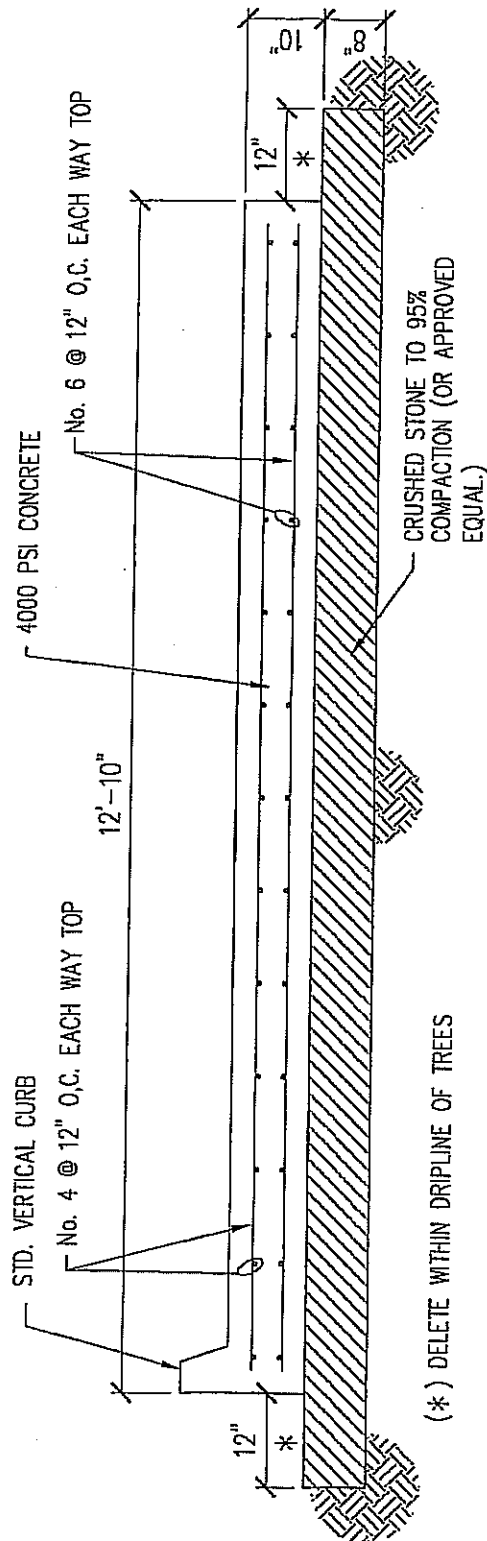
# FINAL PLANS

\$DATE\$ \$TIME\$



## PLAN

SCALE: 1"=10'



## SECTION A-A

SCALE: 1/2"=1'-0"

ORLEANS AVE. NAVARRE AVE. N. MIRO ST. GALVEZ ST.		BUS PAD DETAIL		SHEET NUMBER 124	
DATE: FEB 2009		PROJECT: 08-071(08)-N. MRO AVE		PARISH: ORLEANS	
CHECKED: JRS		DESIGNED: JRS		STATE: LA	
DATE: FEB 2009		CHECKED: JRS		PROJECT: 08-071(08)-N. MRO AVE	
DATE: FEB 2009		CHECKED: JRS		PROJECT: 08-071(08)-N. MRO AVE	

**STATE OF LOUISIANA  
DEPARTMENT OF TRANSPORTATION AND  
DEVELOPMENT**



**CONSTRUCTION PROPOSAL  
INFORMATION  
FOR**

**FEDERAL AID PROJECT**

**STATE PROJECT NO(S).**

**704-36-0042, 704-36-0043, 704-36-0074 & 704-36-0084**

**PERMANENT REPAIR TO FEDERAL AID ELIGIBLE ROADS  
ORLEANS AVE., N. MIRO ST., NAVARRE AVE. & GALVEZ ST.  
ORLEANS PARISH**

**CONTRACT TIME FORM  
COST-PLUS-TIME BIDDING PROCEDURE  
(A + B) METHOD**

STATE PROJECT NO(S). 704-36-0042, 704-36-0043, 704-36-0074 & 704-36-0084

FEDERAL AID PROJECT NO(S). ER-ERP1(058), ER-ERP1(059), ER-ERP1(094) & ER-ERP1(117)

NAME OF PROJECT Permanent Repair to Federal Aid Eligible Roads

ROUTE Orleans Ave., N. Miro St., Navarre Ave. & Galvez St.

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.

<b>CONTRACT TIME</b> <b>(Calendar Days To Completion, In Words)</b>
<div style="border-bottom: 1px solid black; margin-bottom: 10px;"></div> <div style="text-align: right; margin-bottom: 10px;">Calendar Days</div>

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). 704-36-0042, 704-36-0043, 704-36-0074 & 704-36-0084; FEDERAL AID PROJECT NO(S). ER-ERP1(058), ER-ERP1(059), ER-ERP1(094) & ER-ERP1(117); ORLEANS AVE., N. MIRO ST., NAVARRE AVE. & GALVEZ ST.; 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)  
By \_\_\_\_\_

Authorized Officer-Owner-Partner

\_\_\_\_\_  
Typed or Printed Name

If a Joint Venture, Second Partner  
By \_\_\_\_\_

Authorized Officer-Owner-Partner

\_\_\_\_\_  
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



6/20/2009

## Louisiana Department of Transportation and Development

## Proposal Schedule of Items

Page: 1

Contract ID: 704-36-0042

Project(s): 704-36-0042, 704-36-0043,  
704-36-0074, 704-36-0084

SECTION: 1

General Items

Proposal Line Number	Item ID	Description  Unit Price (In Words, Ink or Typed)	Approximate Quantity	Unit of Measure
0001	204-06-00100	Temporary Silt Fencing	11,187.000	LNFT
				Dollars
				Cents
0002	402-01-00100	Traffic Maintenance Aggregate (Vehicular Measurement)	1,500.000	CUYD
				Dollars
				Cents
0003	502-01-00100	Superpave Asphaltic Concrete	22,996.600	TON
				Dollars
				Cents
0004	502-01-00200	Superpave Asphaltic Concrete, Drives, Turnouts and Miscellaneous	2,536.800	TON
				Dollars
				Cents
0005	509-01-00100	Cold Planing Asphaltic Pavement	163,231.000	SQYD
				Dollars
				Cents
0006	510-01-00100	Pavement Patching (6" Minimum Thickness)	6,809.000	SQYD
				Dollars
				Cents
0007	510-01-00200	Pavement Patching (12" Minimum Thickness)	4,704.000	SQYD
				Dollars
				Cents
0008	602-02-00100	Cleaning and Resealing Existing Longitudinal and Transverse Pavement Joints	26,306.000	LNFT
				Dollars
				Cents



6/20/2009

## Louisiana Department of Transportation and Development

## Proposal Schedule of Items

Page: 2

Contract ID: 704-36-0042

Project(s): 704-36-0042, 704-36-0043,  
704-36-0074, 704-36-0084

SECTION: 1

General Items

Proposal Line Number	Item ID	Description  Unit Price (In Words, Ink or Typed)	Approximate Quantity	Unit of Measure
0009	701-03-01000	Storm Drain Pipe (15" RCP/PP)	276.000	LNFT
				Dollars
				Cents
0010	701-03-01020	Storm Drain Pipe (18" RCP/PP)	147.000	LNFT
				Dollars
				Cents
0011	713-01-00100	Temporary Signs and Barricades		LUMP SUM
				Dollars
				Cents
0012	713-02-00100	Temporary Pavement Markings (4" Width)	39,050.000	LNFT
				Dollars
				Cents
0013	713-02-00300	Temporary Pavement Markings (8" Width)	335.000	LNFT
				Dollars
				Cents
0014	713-02-00400	Temporary Pavement Markings (12" Width)	3,655.000	LNFT
				Dollars
				Cents
0015	717-01-00100	Seeding	350.000	LB
				Dollars
				Cents
0016	718-01-00100	Fertilizer	5,000.000	LB
				Dollars
				Cents



6/20/2009

## Louisiana Department of Transportation and Development

## Proposal Schedule of Items

Page: 3

Contract ID: 704-36-0042

Project(s): 704-36-0042, 704-36-0043,  
704-36-0074, 704-36-0084

SECTION: 1

General Items

Proposal Line Number	Item ID	Description  Unit Price (in Words, Ink or Typed)	Approximate Quantity	Unit of Measure
0017	723-02-00100	Granular Material (Vehicular Measurement)	1,500.000	CUYD
				Dollars
				Cents
0018	727-01-00100	Mobilization		LUMP SUM
				Dollars
				Cents
0019	729-01-00100	Sign (Type A)	35.200	SQFT
				Dollars
				Cents
0020	729-21-00100	U-Channel Post	4.000	EACH
				Dollars
				Cents
0021	731-02-00100	Reflectorized Raised Pavement Markers	1,042.000	EACH
				Dollars
				Cents
0022	732-01-01020	Plastic Pavement Striping (6" Width) (Thermoplastic 90 mil)	29,652.000	LNFT
				Dollars
				Cents
0023	732-01-01040	Plastic Pavement Striping (8" Width) (Thermoplastic 90 mil)	335.000	LNFT
				Dollars
				Cents
0024	732-01-01060	Plastic Pavement Striping (12" Width) (Thermoplastic 90 mil)	3,655.000	LNFT
				Dollars
				Cents



6/20/2009

## Louisiana Department of Transportation and Development

## Proposal Schedule of Items

Page: 4

Contract ID: 704-36-0042

Project(s): 704-36-0042, 704-36-0043,  
704-36-0074, 704-36-0084

SECTION: 1

General Items

Proposal Line Number	Item ID	Description  Unit Price (in Words, Ink or Typed)	Approximate Quantity	Unit of Measure
0025	732-02-02000	Plastic Pavement Striping (Solid Line) (4" Width) (Thermoplastic 90 mil)	5.343	MILE
				Dollars
				Cents
0026	732-03-02000	Plastic Pavement Striping (Broken Line) (4" Width) (Thermoplastic 90 mil)	7.396	MILE
				Dollars
				Cents
0027	732-04-01080	Plastic Pavement Legends and Symbols (Arrow - Left Turn)	2.000	EACH
				Dollars
				Cents
0028	732-04-01100	Plastic Pavement Legends and Symbols (Arrow - Right Turn)	6.000	EACH
				Dollars
				Cents
0029	732-04-15020	Plastic Pavement Legends and Symbols (ONLY)	5.000	EACH
				Dollars
				Cents
0030	732-04-19020	Plastic Pavement Legends and Symbols (SCHOOL ZONE)	9.000	EACH
				Dollars
				Cents
0031	736-09-00100	Loop Detector	164.000	LNFT
				Dollars
				Cents
0032	740-01-00100	Construction Layout		LUMP SUM
				Dollars
				Cents





6/20/2009

## Louisiana Department of Transportation and Development

## Proposal Schedule of Items

Page: 5

Contract ID: 704-36-0042

Project(s): 704-36-0042, 704-36-0043,  
704-36-0074, 704-36-0084

SECTION: 1

General Items

Proposal Line Number	Item ID	Description  Unit Price (In Words, Ink or Typed)	Approximate Quantity	Unit of Measure
0033	NS-SRP-00001	ADA Ramps (Type A)	213.000	EACH
				Dollars
				Cents
0034	NS-SRP-00002	ADA Ramps (Type B)	208.000	EACH
				Dollars
				Cents
0035	NS-SRP-00004	Adjust (Manhole)	32.000	EACH
				Dollars
				Cents
0036	NS-SRP-00005	Adjust Catch Basin (Type A)	37.000	EACH
				Dollars
				Cents
0037	NS-SRP-00007	Adjust Drop Inlet	1.000	EACH
				Dollars
				Cents
0038	NS-SRP-00012	Concrete Pavement Repair (18.0 sq. yd. and Under)	1,204.800	SQYD
				Dollars
				Cents
0039	NS-SRP-00013	Concrete Pavement Repair (18.1 sq. yd. to 48.0 sq. yd.)	3,333.300	SQYD
				Dollars
				Cents
0040	NS-SRP-00014	Concrete Pavement Repair (48.1 sq. yd. and Over)	14,108.400	SQYD
				Dollars
				Cents



6/20/2009

## Louisiana Department of Transportation and Development

## Proposal Schedule of Items

Page: 6

Contract ID: 704-36-0042

Project(s): 704-36-0042, 704-36-0043,  
704-36-0074, 704-36-0084

SECTION: 1

General Items

Proposal Line Number	Item ID	Description  Unit Price (In Words; Ink or Typed)	Approximate Quantity	Unit of Measure
0041	NS-SRP-00016	Doweled Barrier	2,595.000	LNFT
				Dollars
				Cents
0042	NS-SRP-00017	Doweled Mountable Curb	2,464.000	LNFT
				Dollars
				Cents
0043	NS-SRP-00018	Drilled and Doweled Barrier	1,101.000	LNFT
				Dollars
				Cents
0044	NS-SRP-00019	Drilled and Doweled Mountable Curb	611.000	LNFT
				Dollars
				Cents
0045	NS-SRP-00023	Pipe (Storm Drain) (21 inch)	12.000	LNFT
				Dollars
				Cents
0046	NS-SRP-00027	Pipe Lining (Cured In-Place) (21 inch)	282.000	LNFT
				Dollars
				Cents
0047	NS-SRP-00029	Project Signs (SRP)	8.000	EACH
				Dollars
				Cents
0048	NS-SRP-00030	Reconstruct Barrier Curb and Gutter	3,188.000	LNFT
				Dollars
				Cents



6/20/2009

## Louisiana Department of Transportation and Development

## Proposal Schedule of Items

Page: 7

Contract ID: 704-36-0042

Project(s): 704-36-0042, 704-36-0043,  
704-36-0074, 704-36-0084

SECTION: 1

General Items

Proposal Line Number	Item ID	Description  Unit Price (In Words, Ink or Typed)	Approximate Quantity	Unit of Measure
0049	NS-SRP-00031	Reconstruct Mountable Curb and Gutter	735.000	LNFT
				Dollars
				Cents
0050	NS-SRP-00032	Rehabilitate Catch Basins	16.000	EACH
				Dollars
				Cents
0051	NS-SRP-00035	Repair Bus Pads	1,366.100	SQYD
				Dollars
				Cents
0052	NS-SRP-00037	Replace Frame and Cover (Manhole Drain)	5.000	EACH
				Dollars
				Cents
0053	NS-SRP-00038	Replace Frame and Cover (Catch Basin)	27.000	EACH
				Dollars
				Cents
0054	NS-SRP-00040	Replace Frame and Cover (Sanitary Sewer)	1.000	EACH
				Dollars
				Cents
0055	NS-SRP-00041	Reset Curb (Stone)	1,719.000	LNFT
				Dollars
				Cents
0056	NS-SRP-00044	Tree Protection		LUMP SUM
				Dollars
				Cents



6/20/2009

## Louisiana Department of Transportation and Development

## Proposal Schedule of Items

Page: 8

Contract ID: 704-36-0042

Project(s): 704-36-0042, 704-36-0043,  
704-36-0074, 704-36-0084

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-00045	Tree Trimming		LUMP SUM
				Dollars
				Cents
0058	NS-SRP-00046	Root Pruning and Trenching		LUMP SUM
				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). 704-36-0042, 704-36-0043, 704-36-0074 & 704-36-0084

FEDERAL AID PROJECT NO(S). ER-ERP1(058), ER-ERP1(059), ER-ERP1(094) & ER-ERP1(117)

NAME OF PROJECT ORLEANS AVE., N. MIRO ST., NAVARRE AVE. & GALVEZ ST.

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.

CS-14A  
08/06

STATE PROJECT NO(S). 704-36-0042, 704-36-0043, 704-36-0074 & 704-36-0084

## 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