



## ST. TAMMANY PARISH

MICHAEL B. COOPER  
PARISH PRESIDENT

### NOTICE TO BIDDERS

#### ST. TAMMANY PARISH

Sealed bids will be received by the Department of Procurement, until 2:00 p.m., **Tuesday, July 1, 2025**, and then opened and read publicly at that time by the Procurement Staff for the following project:

#### **Bid # 25-19-2 – St. John Church Rd Bridge**

Each paper bid must be submitted in a sealed envelope. The outside of the envelope shall show the Name and Address of the Bidder, the State Contractor's License Number of the Bidder (if the work is estimated at \$50k or more), the Bid Name and the Bid Number.

**The project classification is:**

#### **Highway, Street and Bridge Construction**

This bid package is available online at [www.bidexpress.com](http://www.bidexpress.com) or LaPAC <https://wwwcfprd.doa.louisiana.gov/osp/lapac/pubmain.cfm>. It is the Vendor's responsibility to check Bid Express, or LaPAC frequently for any possible addenda that may be issued. The Parish is not responsible for a Vendor's failure to download any addenda documents required to complete a submission.

Bids will be received at 21454 Koop Dr., Suite 2F, Mandeville, LA 70471 from each bidder or his agent and given a written receipt, by certified mail with return receipt requested, or electronically at [www.bidexpress.com](http://www.bidexpress.com).

Procurement Department

# **BID PROPOSAL**

ST. TAMMANY PARISH  
GOVERNMENT



BID PACKAGE FOR

## **St. John Church Rd Bridge**

BID NO.: 25-19-2

May 20, 2025



**Section 01**

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## Section 02

### Instructions to Bidders

Bidders are urged to promptly review the requirements of this specification and submit questions for resolution as early as possible during the bid period. Questions or concerns must be submitted in writing to the Procurement Department no later than 2:00 CST seven (7) working days prior to the bid opening date. Otherwise, this will be construed as acceptance by the bidders that the intent of the specifications is clear and that competitive bids may be obtained as specified herein. Protests with regard to the specification documents will not be considered after bids are opened.

1. Bid security is required. Be sure that your bid includes such security as is necessary to meet Parish requirements and is properly signed. The bid must be fully completed. All applicable Louisiana license numbers must be affixed.
2. The Owner is the St. Tammany Parish Government (the “Parish”).
3. The terms “he/his” and “it/its” may be used interchangeably.
4. The terms “Owner,” the “Parish,” and “St. Tammany Parish” may be used interchangeably.
5. The successful Bidder understands the limited contract time in the contract is **two hundred and ten (210) calendar days**, and shall submit any request for an extension of time in accordance with the General and Supplementary Conditions. Said request will reflect the days requested and the reason for same. No extension request is guaranteed or absolute.
6. Bidder specifically understands that acknowledgment of the General Conditions is required. Bidder specifically understands that signature of receipt of the General Conditions is mandated. **The Bidder’s signature on the “Louisiana Uniform Public Work Bid Form” will serve as acknowledgment of the Bidder’s receipt and understanding of the General Conditions as well as any Supplementary Conditions.**
7. ***If any additional work is performed by the contractor without written approval by owner, the cost of the work will be borne by the contractor and will not be reimbursed by the Parish.***
8. **Only** the Louisiana Uniform Public Bid Form, the Unit Price Form (if necessary), the bid security, and written evidence of authority of person signing the bid shall be submitted on or before the bid opening time and date provided for in the Bid Documents. Necessary copies of the Louisiana Uniform Public Work Forms and Unit Price Forms (if necessary) will be furnished for Bidding. Bound sets of the Contract Documents are for Bidder's information and should not be used in submitting Bids.
9. All other documents and information required are to be submitted by the low Bidder within ten (10) days after the opening of the bids, and at the same time of day and location as given for the opening of the bids in the Bid Documents.
10. Each Bid must be submitted in a sealed envelope, unless submitted electronically. The outside of the envelope shall show the name and address of the Bidder, the State Contractor’s License Number of the Bidder (if work requires contractor’s license), and the Project name and the Bid number. In the case of an electronic bid proposal, a contractor may submit an authentic digital signature on the electronic bid proposal accompanied by the contractor's license number, Project name and the Bid number.
11. The price quoted for the Work shall be stated in words and figures on the Bid Form, and in figures only on the Unit Price Form. The price in the Bid shall include all costs necessary for the complete performance of the Work in full conformity with the conditions of the Contract Documents, and shall include all applicable Federal, State, Parish, Municipal or

other taxes. The price bid for the items listed on the Unit Price Form will include the cost of all related items not listed, but which are normally required to do the type of Work bid.

12. The Bid shall be signed by the Bidder. The information required on the Louisiana Uniform Public Work Bid Form must be provided. Evidence of agency, corporate, or partnership authority is required and shall be provided in conformance with LSA-R.S. 38:2212(B).
13. Only a Contractor licensed by the State to do the type of Work as indicated on the Notice to Bidders can submit a Bid. The Bidder's signature on the Bid Form certifies that he holds an active license under the provisions of Chapter 24 of Louisiana Revised Statutes Title 37. Failure to be properly licensed constitutes authority for the Owner to reject the Bid.
14. Bidders shall not attach any conditions or provisions to the Bid. Any conditions or provisions so attached may, at the sole option of the Owner, cause rejection of the Bid.
15. A Bid Guarantee of five percent (5%) of the amount of the total Bid, including Alternates, must accompany the Proposal and, at the option of the Bidder, may be a cashier's check, certified check or a satisfactory Bid Bond. The Bid Guarantee must be attached to the Louisiana Uniform Public Work Bid Form. No Bid will be considered unless it is so guaranteed. Cashier's check or certified check must be made payable to the order of the Owner. Cash deposits will not be accepted. The Owner reserves the right to cash or deposit the cashier's check or certified check. Such guarantees shall be made payable to the Parish of St. Tammany. In accordance with LSA-R.S. 38:2218(C), if a bid bond is used, it shall be written by a surety or insurance company currently on the U.S. Department of the Treasury Financial Management Service list of approved bonding companies which is published annually in the Federal Register, or by a Louisiana domiciled insurance company with at least an A- rating in the latest printing of the A.M. Best's Key Rating Guide to write individual bonds up to ten percent of policyholders' surplus as shown in the A.M. Best's Key Rating Guide or by an insurance company in good standing licensed to write bid bonds which is either domiciled in Louisiana or owned by Louisiana residents. It is **not** required to be on any AIA form.
16. Bid securities of the three (3) lowest Bidders will be retained by the Owner until the Contract is executed or until final disposition is made of the Bids submitted. Bid securities of all other Bidders will be returned promptly after the canvas of Bids. Bids shall remain binding for forty-five (45) days after the date set for Bid Opening. The Parish shall act within the forty-five (45) days to award the contract to the lowest responsible bidder or reject all bids. However, the Parish and the lowest responsible bidder, by mutual written consent, may agree to extend the deadline for award by one or more extensions of thirty (30) calendar days. In the event the Owner issued the Letter of Award during this period, or any extension thereof, the Bid accepted shall continue to remain binding until the execution of the Contract.
17. A Proposal may be withdrawn at any time prior to the scheduled closing time for receipt of Bids, provided the request is in writing, executed by the Bidder or its duly authorized representative and is filed with the Owner prior to that time. When such a request is received, the Proposal will be returned to the Bidder unopened. A bid withdrawn under the provisions of LSA-R.S. 38:2214(C) cannot be resubmitted.
18. Written communications, over the signature of the Bidder, to modify Proposals will be accepted and the Proposal corrected in accordance therewith if received by the Owner prior to the scheduled closing time for receipt of Bids. Oral, telephonic or telegraphic Modifications will not be considered.
19. No oral interpretation obligating the Owner will be made to any Bidder as to the meaning of the Drawings, Specifications and Contract Documents. Every request for such an interpretation shall be made in writing and addressed and forwarded to the Owner. Inquiries received within seven (7) days prior to the day fixed for opening of the Bids may not be given consideration. Every interpretation made to the Bidder shall be in the form of an addendum to the Specifications. All such Addenda shall become part of the Contract Documents. Failure of the Owner to send or failure of Bidder to receive any such interpretation shall not relieve any Bidder from any obligation under this Bid as submitted without Modification. All Addenda shall be issued in accordance with the Public Bid Law, LSA-R.S. 38:2212(O).

20. The Owner reserves the right to reject any or all Bids for just cause in accordance with the Public Bid Law, LSA-R.S. 38:2214(B). Incomplete, informal, illegible, or unbalanced Bids may be rejected. Reasonable grounds for belief that any one Bidder is concerned directly or indirectly with more than one Bid will cause rejection of all Bids wherein such Bidder is concerned. If required, a Bidder shall furnish satisfactory evidence of its competence and ability to perform the Work stipulated in its Proposal. Incompetence will constitute cause for rejection. If the Parish determines that the bidder is not responsive or responsible for any reason whatsoever, the bid may be rejected in accordance with State law.
21. Contractor shall be liable without limitation to the Parish for any and all injury, death, damage, loss, destruction, damages, costs, fines, penalties, judgments, forfeitures, assessments, expenses (including attorney fees), obligations, and other liabilities of every name and description, which may occur or in any way arise out of any act or omission of Contractor, its owners, agents, employees, partners or subcontractors.
22. Upon notice of any claim, demand, suit, or cause of action against the Parish, alleged to arise out of or be related to this Contract, Contractor shall investigate, handle, respond to, provide defense for, and defend at its sole expense, even if the claim, demand, suit, or cause of action is groundless, false, or fraudulent. The Parish may, but is not required to, consult with or assist the Contractor, but this assistance shall not affect the Contractor's obligations, duties, and responsibilities under this section. Contractor shall obtain the Parish's written consent before entering into any settlement or dismissal.
23. It is understood and agreed that neither party can foresee the exigencies beyond the control of each party which arise by reason of an Act of God or force majeure; therefore, neither party shall be liable for any delay or failure in performance beyond its control resulting from an Act of God or force majeure. The Parish shall determine whether a delay or failure results from an Act of God or force majeure based on its review of all facts and circumstances. The parties shall use reasonable efforts, including but not limited to, use of continuation of operations plans (COOP), business continuity plans, and disaster recovery plans, to eliminate or minimize the effect of such events upon the performance of their respective duties under this Contract.
24. Contractor shall fully indemnify and hold harmless the Parish, without limitation, for any and all injury, death, damage, loss, destruction, damages, costs, fines, penalties, judgments, forfeitures, assessments, expenses (including attorney fees), obligations, and other liabilities of every name and description, which may occur or in any way arise out of any act or omission of Contractor, its owners, agents, employees, partners or subcontractors. The Contractor shall not indemnify for the portion of any loss or damage arising from the Parish's act or failure to act.
25. Contractor shall fully indemnify and hold harmless the Parish, without limitation, from and against damages, costs, fines, penalties, judgments, forfeitures, assessments, expenses (including attorney fees), obligations, and other liabilities in any action for infringement of any intellectual property right, including but not limited to, trademark, trade-secret, copyright, and patent rights.

When a dispute or claim arises relative to a real or anticipated infringement, the Contractor, at its sole expense, shall submit information and documentation, including formal patent attorney opinions, as required by the Parish.

If the use of the product, material, service, or any component thereof is enjoined for any reason or if the Contractor believes that it may be enjoined, Contractor, while ensuring appropriate migration and implementation, data integrity, and minimal delays of performance, shall at its sole expense and in the following order of precedence: (i) obtain for the Parish the right to continue using such product, material, service, or component thereof; (ii) modify the product, material, service, or component thereof so that it becomes a non-infringing product, material, or service of at least equal quality and performance; (iii) replace the product, material, service, or component thereof so that it becomes a non-infringing product, material, or service of at least equal quality and performance; or, (iv) provide the Parish monetary compensation for all payments made under the Contract related to the infringing product, material, service, or component, plus for all costs incurred to procure and implement a non-infringing product, material, or service of at least equal quality and performance. Until this obligation has been satisfied, the Contractor remains in default.

The Contractor shall not be obligated to indemnify that portion of a claim or dispute based upon the Parish's unauthorized: i) modification or alteration of the product, material or service; ii) use of the product, material or service in combination with other products not furnished by Contractor; or, iii) use of the product, material or service in other than the specified operating conditions and environment.

26. Bidders shall familiarize themselves with and shall comply with all applicable Federal and State Laws, municipal ordinances and the rules and regulations of all authorities having jurisdiction over construction of the Project, which may directly or indirectly affect the Work or its prosecution. These laws and/or ordinances will be deemed to be included in the Contract, as though herein written in full.
27. Each Bidder shall visit the site of the proposed Work and fully acquaint itself with all surface and subsurface conditions as they may exist so that it may fully understand this Contract. Bidder shall also thoroughly examine and be familiar with drawings, Specifications and Contract Documents. The failure or omission of any Bidder to receive or examine any form, instrument, Drawing or document or to visit the site and acquaint itself with existing conditions shall in no way relieve any Bidder from any obligation with respect to its Bid and the responsibility in the premises.
28. The standard contract form enclosed with the Proposal documents is a prototype. It is enclosed with the Contract Documents for the guidance of the Owner and the Contractor. It has important legal consequences in all respects and consultation with an attorney is encouraged. Contractor shall be presumed to have consulted with its own independent legal counsel.
29. When one set of Contract plans show the Work to be performed by two or more prime Contractors, it is the responsibility of each Bidder to become knowledgeable of the Work to be performed by the other where the Work upon which this bid is submitted is shown to come into close proximity or in conflict with the Work of the other. In avoiding conflicts, pressure pipe lines must be installed to avoid conflict with gravity pipe lines and the Bidder of the smaller gravity pipe line in conflict with the larger gravity pipe line must include in his Bid the cost of a conflict box at these locations. The location of and a solution to the conflicts do not have to be specifically noted as such on the plans.
30. Bidder shall execute affidavit(s) attesting compliance with LSA-R.S. 38:2212.10, 38:2224, 38:2227, each as amended, and other affidavits as required by law, prior to execution of the contract.
31. In accordance with Louisiana Law, all Corporations (See LA R.S. 12:26.1) and Limited Liability Companies (See LA R.S. 12:1308.2) should be registered and in good standing with the Louisiana Secretary of State in order to hold a contract.
32. Sealed Bids shall be delivered to St. Tammany Parish Government at the office of **St. Tammany Parish Government, Department of Procurement, 21454 Koop Drive, Suite 2-F, Mandeville, LA 70471**, and a receipt given, until the time and date denoted in Notice to Bidders, at which time and place the Bids shall be publicly opened and read aloud to those present. In accordance with LSA-R.S. 38:2212(H), the designer's final estimated cost of construction shall be read aloud upon opening bids. Sealed Bids may also be mailed by certified mail to **St. Tammany Parish Government, Department of Procurement, 21454 Koop Drive, Suite 2-F, Mandeville, LA 70471**, and must be received before the bid opening. Bids may also be submitted electronically. Information concerning links for electronic bidding is contained in the Notice to Bidders. It is the responsibility of the Bidders to ensure that bids are delivered in a timely fashion. **Late bids, regardless of reason, will not be considered, and will be returned to bidder.**
33. Paper bids shall be placed in a sealed envelope, marked plainly and prominently as indicated in the Notice to Bidders, and these Instructions, and addressed:

**St. Tammany Parish Government  
Department of Procurement  
21454 Koop Drive, Suite 2-F  
Mandeville, LA 70471**

34. See Notice to Bidders for availability of Drawings, Specifications and Contract Documents via electronic methods.
35. The successful Bidder shall be required to post in each direction a public information sign, 4' x 4' in size, at the location of the project containing information required by the Owner. The Owner shall supply this information.
36. The award of the Contract, if it is awarded, will be to the lowest responsible Bidder, in accordance with State Law. No award will be made until the Owner has concluded such investigations as it deems necessary to establish the responsibility and qualifications of the Bidder to do the Work in accordance with the Contract Documents to the satisfaction of the Owner within the time prescribed as established by the Department based upon the amount of work to be performed and the conditions of same. The written contract and bond shall be issued in conformance with LSA-R.S. 38:2216. If the Contract is awarded, the Owner shall give the successful Bidder written notice of the award within forty-five (45) calendar days after the opening of the Bids in conformance with LSA-R.S. 38:2215(A), or any extension as authorized thereunder.
37. At least three days prior to the execution of the Contract, the Contractor shall deliver to the Owner the required Bonds.
38. Failure of the successful Bidder to execute the Contract and deliver the required Bonds within ten (10) days of the Notice of the Award shall be just cause for the Owner to annul the award and declare the Bid and any guarantee thereof forfeited. Award may then be made to the next lowest responsible bidder.
39. In order to ensure the faithful performance of each and every condition, stipulation and requirement of the Contract and to indemnify and hold harmless the Owner from any and all damages, either directly or indirectly arising out of any failure to perform same, the successful Bidder to whom the Contract is awarded shall furnish a Performance and Payment Bond in an amount of at least equal to one hundred percent (100%) of the Contract Price. The Contract shall not be in force or binding upon the Owner until such satisfactory Bond has been provided to and approved by the Parish. The cost of the Bond shall be paid for by the Contractor unless otherwise stipulated in the Special Provisions.
40. No surety Company will be accepted as a bondsman which has no permanent agent or representative in the State upon whom notices referred to in the General Conditions of these Specifications may be served. Service of said notice on said agent or representative in the State shall be equal to service of notice on the President of the Surety Company, or such other officer as may be concerned.
41. In conformance with LSA-R.S. 38:2219(A)(1)(a), (b), and (c):

Any surety bond written for a public works project shall be written by a surety or insurance company currently on the U.S. Department of the Treasury Financial Management Service list of approved bonding companies which is published annually in the Federal Register, or by a Louisiana domiciled insurance company with at least an A- rating in the latest printing of the A.M. Best's Key Rating Guide, to write individual bonds up to ten percent of policyholders' surplus as shown in the A.M. Best's Key Rating Guide or by an insurance company that is either domiciled in Louisiana or owned by Louisiana residents and is licensed to write surety bonds.

For any public works project, no surety or insurance company shall write a bond which is in excess of the amount indicated as approved by the U.S. Department of the Treasury Financial Management Service list or by a Louisiana domiciled insurance company with an A- rating by A.M. Best up to a limit of ten percent of policyholders' surplus as shown by A.M. Best; companies authorized by this Paragraph who are not on the treasury list shall not write a bond when the penalty exceeds fifteen percent of its capital and surplus, such capital and surplus being the amount by which the company's assets exceed its liabilities as reflected by the most recent financial statements filed by the company with the Department of Insurance.

In addition, any surety bond written for a public works project shall be written by a surety or insurance company that is currently licensed to do business in the state of Louisiana. All contractors must comply with any other applicable provisions of LSA-R.S. 38:2219.

42. Should the Contractor's Surety, even though approved and accepted by the Owner, subsequently remove its agency or representative from the State or become insolvent, bankrupt, or otherwise fail, the Contractor shall immediately furnish a new Bond in another company approved by the Owner, at no cost to the Owner. The new Bond shall be executed under the same terms and conditions as the original Bond. The new bond shall be submitted within thirty (30) days of such time as the Owner notifies Contractor or from the time Contractor learns or has reason to know that the original surety is no longer financially viable or acceptable to the Parish, whichever occurs first. In the event that Contractor fails or refuses to timely secure additional surety, then the Owner may secure such surety and thereafter deduct such cost or expense from any sum due, or to become due to Contractor.
43. The Contractor's bondsman shall obligate itself to all the terms and covenants of these Specifications and of contracts covering the Work executed hereunder. The Owner reserves the right to do Extra Work or make changes by altering, adding to deducting from the Work under the conditions and in the manner herein before described without notice to the Contractor's surety and without in any manner affecting the liability of bondsman or releasing it from any of its obligations hereunder.
44. The Bond shall also secure for the Owner the faithful performance of the Contract in strict accordance with plans, specifications, and other Contract Documents. It shall protect the Owner against all lien laws of the State and shall provide for payment of reasonable attorney's fees for enforcement of Contract and institution or concursus proceedings, if such proceedings become necessary. Likewise, it shall provide for all additional expenses of the Owner occurring through failure of the Contractor to perform.
45. The surety of the Contractor shall be and does hereby declare and acknowledge itself by acceptance to be bound to the Owner as a guarantor, jointly and in solido, with the Contractor, for fulfillment of terms of the Contract.
46. The performance Bond and Labor and Material Bond forming part of this Contract shall be continued by Contractor and its Surety for a period of one (1) year from date of acceptance of the Work/Project by Owner to assure prompt removal and replacement of all defective material, equipment, components thereof, workmanship, etc., and to assure payment of any damage to property of Owner or others as a result of such defective materials, equipment, workmanship, etc.
47. Contractor authorizes Parish to deduct from any payment due herein costs and service fees for recordation of this Contract in full or an excerpt hereof, or any revisions or modifications thereof as required by law. Contractor agrees to execute an excerpt or extract of this agreement for recordation purposes. If Contractor fails to execute such an excerpt, then the Parish shall file and record the entire Contract and all attachments at the expense of Contractor and Parish is hereby authorized to deduct all related costs from any proceeds due to the Contractor.
48. Contractor shall secure and maintain at its expense such insurance that will protect it and the Parish from claims for injuries to persons or damages to property which may arise from or in connection with the performance of Services or Work hereunder by the Contractor, his agents, representatives, employees, and/or subcontractors. The cost of such insurance shall be included in Contractor's bid.
49. The Contractor shall not commence work until it has obtained all insurance as required for the Parish Project. If the Contractor fails to furnish the Parish with the insurance protection required and begins work without first furnishing Parish with a currently dated certificate of insurance, the Parish has the right to obtain the insurance protection required and deduct the cost of insurance from the first payment due the Contractor. Further deductions are permitted from future payments as are needed to protect the interests of the Parish including, but not limited to, renewals of all policies.
50. Payment of Premiums: The insurance companies issuing the policy or policies shall have no recourse against the Parish of St. Tammany for payment of any premiums or for assessments under any form of policy.
51. Deductibles: Any and all deductibles in the described insurance policies shall be assumed by and be at the sole risk of the Contractor.

52. Authorization of Insurance Company(ies) and Rating: All insurance companies must be authorized to do business in the State of Louisiana and shall have an A.M. Best rating of no less than A-, Category VII.
53. Policy coverages and limits must be evidenced by Certificates of Insurance issued by Contractor's carrier to the Parish and shall reflect:

Date of Issue: Certificate must have current date.

Named Insured: The legal name of Contractor under contract with the Parish and its principal place of business shall be shown as the named insured on all Certificates of Liability Insurance.

Name of Certificate Holder: St. Tammany Parish Government, Office of Risk Management, P. O. Box 628, Covington, LA 70434

Project Description: A brief project description, including Project Name, Project Number and/or Contract Number, and Location.

Endorsements and Certificate Reference: All policies must be endorsed to provide, and certificates of insurance must evidence the following:

Waiver of Subrogation: The Contractor's insurers will have no right of recovery or subrogation against the Parish of St. Tammany, it being the intention of the parties that all insurance policy(ies) so affected shall protect both parties and be the primary coverage for any and all losses covered by the below described insurance. *Policy endorsements required for all coverages.*

Additional Insured: The Parish of St. Tammany shall be named as additional named insured with respect to general liability, marine liability, pollution/environmental liability, automobile liability and excess liability coverages. *Policy endorsements required.*

Hold Harmless: Contractor's liability insurers shall evidence their cognizance of the Hold Harmless and Indemnification in favor of St. Tammany Parish Government by referencing same on the face of the Certificate(s) of Insurance.

Cancellation Notice: Producer shall provide thirty (30) days prior written notice to the Parish of policy cancellation or substantive policy change.

54. The types of insurance coverage the Contractor is required to obtain and maintain throughout the duration of the Contract shall be designated by a separate document issued by the Office of Risk Management.
55. It is the intent of these instructions that they are in conformance with State Bid Laws. Should there be any discrepancy or ambiguity in these provisions, the applicable State Bid Law shall apply.
56. The letting of any public contract in connection with funds that are granted or advanced by the United States of America shall be subject to the effect, if any, of related laws of said United States and valid rules and regulations of federal agencies in charge, or governing use and payment of such federal funds.
57. Protests based on alleged solicitation improprieties that are apparent before bid opening, or the time set for receipt of initial proposals must be filed with and received by the Procurement Department BEFORE two (2) working days of the bid opening. Any other protest shall be filed no later than ten (10) calendar days after: the opening of the bid; the basis of the protest is known; or the basis of the protest should have been known (whichever is earlier).
58. It is the Parish's policy to provide a method to protest exclusion from a competition or from the award of a contract, or to challenge an alleged solicitation irregularity. It is always better to seek a resolution within the Parish system before resorting to outside agencies



and/or litigation to resolve differences. All protests must be made in writing, and shall be concise and logically presented to facilitate review by the Parish. The written protest shall include:

The protester’s name, address, and fax and telephone numbers and the solicitation, bid, or contract number;

A detailed statement of its legal and factual grounds, including a description of the resulting prejudice to the protester;

Copies of relevant documents;

All information establishing that the protester is an interested party and that the protest is timely; and

A request for a ruling by the agency; and a statement of the form of relief requested.

The protest shall be addressed to St. Tammany Parish Government Department of Procurement, P.O. Box 628, Covington, LA 70434

The protest review shall be conducted by the Parish Legal Department.

Only protests from interested parties will be allowed. Protests based on alleged solicitation improprieties that are apparent before bid opening, or the time set for receipt of initial proposals, must be filed with and received by the Department of Procurement BEFORE those deadlines.

Any other protest shall be filed no later than ten (10) calendar days after the basis of the protest is known, or should have been known (whichever is earlier).

The Parish will use its best efforts to resolve the protest within thirty (30) days of the date that it is received by the Parish. The written response will be sent to the protestor via mail and fax, if a fax number has been provided by the protestor. The protester can request additional methods of notification.

- 59. The last day to submit questions to Procurement shall be no later than 2:00 pm CST, seven (7) working days prior to the opening of bids, and verification on comparable products will be no later than 2:00 pm CST, fourteen (14) working days prior to the opening date of the bid/proposal due date. Further, any questions or inquiries must be submitted via fax to 985-898-5227, or via email to [Procurement@stpgov.org](mailto:Procurement@stpgov.org). Any questions or inquiries received after the required deadline to submit questions or inquiries will not be answered.

**Schedule of Events**

	<u>Date</u>	<u>Time (CT)</u>
Bid Due Date	July 1, 2025	2:00 PM
Inquiry Deadline	June 20, 2025	2:00PM
Addendum Deadline	June 26,2025	2:00PM

**NOTE: The Parish reserves the right to revise this schedule. Any such revision will be formalized by the issuance of an addendum to the Bid Request.**

- 60. St. Tammany Parish Government contracts to be awarded are dependent on the available funding and/or approval by members designated and/or acknowledged by St. Tammany Parish Government. At any time, St. Tammany Parish Government reserves the right to cancel the award of a contract if either or both of these factors is deficient.
- 61. Any action by the Parish to disqualify any Bidder on the grounds that they are not a responsible Bidder shall be conducted in accordance with LSA-R.S. 38:2212(X).
- 62. Failure to complete or deliver within the time specified or to provide the services as specified in the bid or response will constitute a default and may cause cancellation of the contract. Where the Parish has determined the contractor to be in default. The Parish reserves the right to purchase any or all products or services covered by the contract on the

open market and to charge the contractor with the cost in excess of the contract price. Until such assessed charges have been paid, no subsequent bid or response from the defaulting contractor will be considered.

63. If any part of the provisions contained herein and/or in the Specifications and Contract for the Work shall for any reason be held invalid, illegal or unenforceable in any respect, such invalidity, illegality or unenforceability shall not affect any other provisions of this Agreement or attachment, but it shall be construed as if such invalid, illegal, or unenforceable provision or part of a provision had never been contained herein.

## Section 03

### **Summary of Work**

#### **I. Work to Include:**

The Contractor must provide all labor, equipment, tools, testing, and materials necessary to complete the work as required in the construction drawings and specifications, located on St. John Church Rd (B02G002), Section 7, Township 5S, Range 10E, Folsom, LA.

St. Tammany Parish reserves the right to add, remove, and otherwise modify the above, as determined necessary by the Parish and as allowed by law.

The time period for completion of work is two hundred and ten (210), consecutive calendar days from the date listed to commence work in the Notice to Proceed issued by St. Tammany Parish.

#### **II. Location of Work:**

The work is located at St. John Church Rd Bridge, approximately 400 linear feet from the intersection of Lee Settlement Rd, Folsom, LA

St. John Church Rd Bridge (B02G002) Section 7, Township 5S, Range 10E

#### **III. Documents: Bid Documents dated May 20, 2025, and entitled:**

St. John Church Rd Bridge

BID No. 25-19-2

#### **IV. OTHER REQUIREMENTS (as applicable)**

**When not otherwise specified herein, all work and materials shall conform to the requirements of the Louisiana Department of Transportation and Development hereafter called LDOTD (2016 Edition of Louisiana Standard Specifications for Roads and Bridges).**

Table 3.1

Liquidated Damages	
Original Contract Amount	Daily Charge
Dollars	Dollars
0 - 250,000	500
250,000 – 1 Million	1,000
> 1 Million – 5 Million	1,500
> 5 Million – 10 Million	2,000
> 10 Million	3,000

- Parish reserves the right to increase the Daily charge rate due to additional provisions required in order to complete the project as described in the specifications

Section 04

LOUISIANA UNIFORM PUBLIC WORK BID FORM

TO: St. Tammany Parish Government  
21454 Koop Dr., Suite 2F  
Mandeville, La 70471

(Owner to provide name and address of owner)

BID FOR: St. John Church Rd Bridge

BID No. 25-19-2

(Owner to provide name of project and other identifying information.)

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

St. Tammany Parish Government-Department of Engineering and dated: May 20, 2025.

(Owner to provide name of entity preparing bidding documents.)

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

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

Dollars (\$ )

**ALTERNATES:** For any and all work required by the Bidding Documents for Alternates including any and all unit prices designated as alternates in the unit price description.

**Alternate No. 1** (Owner to provide description of alternate and state whether add or deduct) for the lump sum of:

N/A Dollars (\$ )

**Alternate No. 2** (Owner to provide description of alternate and state whether add or deduct) for the lump sum of:

N/A Dollars (\$ )

**Alternate No. 3** (Owner to provide description of alternate and state whether add or deduct) for the lump sum of:

N/A Dollars (\$ )

**NAME OF BIDDER:**

**ADDRESS OF BIDDER:**

**LOUISIANA CONTRACTOR’S LICENSE NUMBER:**

**NAME OF AUTHORIZED SIGNATORY OF BIDDER:**

**TITLE OF AUTHORIZED SIGNATORY OF BIDDER:**

**SIGNATURE OF AUTHORIZED SIGNATORY OF BIDDER \*\*:**

**DATE:**

**THE FOLLOWING ITEMS ARE TO BE INCLUDED WITH THE SUBMISSION OF THIS LOUISIANA UNIFORM PUBLIC WORK BID FORM:**

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

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

**BID SECURITY** in the form of a bid bond, certified check or cashier’s check as prescribed by LA R.S. 38:2218(A) attached to and made a part of this bid.

LOUISIANA UNIFORM PUBLIC WORK BID FORM  
UNIT PRICE FORM

TO:

St. Tammany Parish Government

21454 Koop Drive, Suite 2F

Mandeville, LA. 70471

(OWNER TO PROVIDE NAME AND ADDRESS OF OWNER)

BID FOR:

St John Church Rd Bridge

EN23000047

BID No. 25-19-2

(OWNER TO PROVIDE PROJECT NAME & OTHER IDENTIFYING INFO)

UNIT PRICES: This form shall be used for any & all work required by the Bidding Documents & described as unit prices. Amounts shall be stated in figures & only in figures.

Description:		<input checked="" type="checkbox"/> BASE BID	OR	<input type="checkbox"/> ALT #	Clearing and Grubbing		
REF NO.:	QUANTITY	UNIT OF MEASURE		UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)		
201-01-00100	1	LUMP					
Description:		<input checked="" type="checkbox"/> BASE BID	OR	<input type="checkbox"/> ALT #	Removal of Bridge		
REF NO.:	QUANTITY	UNIT OF MEASURE		UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)		
202-02-00010	1	EACH					
Description:		<input checked="" type="checkbox"/> BASE BID	OR	<input type="checkbox"/> ALT #	Removal of Asphalt Pavement		
REF NO.:	QUANTITY	UNIT OF MEASURE		UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)		
202-02-02020	1178	SQYD					
Description:		<input checked="" type="checkbox"/> BASE BID	OR	<input type="checkbox"/> ALT #	Removal of Fence		
REF NO.:	QUANTITY	UNIT OF MEASURE		UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)		
202-02-12000	657	LNFT					

Wordings for "Description" is to be provided by the Owner. All Quantities Estimated. The Contractor will be paid based upon actual quantities as verified by the Owner.

UNIT PRICES: This form shall be used for any & all work required by the Bidding Documents & described as unit prices. Amounts shall be stated in figures & only in figures.

	Description:	<input checked="" type="checkbox"/> BASE BID	OR	<input type="checkbox"/> ALT #	Removal of Pipe(Cross Drain)	
	REF NO.:	QUANTITY		UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
	202-02-32100	64		LNFT		
	Description:	<input checked="" type="checkbox"/> BASE BID	OR	<input type="checkbox"/> ALT #	General Excavation	
	REF NO.:	QUANTITY		UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
	203-01-00100	290		CUYD		
	Description:	<input checked="" type="checkbox"/> BASE BID	OR	<input type="checkbox"/> ALT #	Drainage Excavation	
	REF NO.:	QUANTITY		UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
	203-02-00100	816		CUYD		
	Description:	<input checked="" type="checkbox"/> BASE BID	OR	<input type="checkbox"/> ALT #	Embankment	
	REF NO.:	QUANTITY		UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
	203-03-00100	683		CUYD		
	Description:	<input checked="" type="checkbox"/> BASE BID	OR	<input type="checkbox"/> ALT #	Temporary Hay Bales	
	REF NO.:	QUANTITY		UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
	204-02-00100	30		EACH		
	Description:	<input checked="" type="checkbox"/> BASE BID	OR	<input type="checkbox"/> ALT #	Temporary Silt Fencing	
	REF NO.:	QUANTITY		UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
	204-06-00100	1400		LNFT		

Words for "description" is to be provided by the Owner. All Quantities Estimated. The Contractor will be paid based upon actual quantities as verified by the Owner.

UNIT PRICES: This form shall be used for any & all work required by the Bidding Documents & described as unit prices. Amounts shall be stated in figures & only in figures.

	<b>Description:</b>	<input checked="" type="checkbox"/> BASE BID    OR <input type="checkbox"/> ALT #	Class II Base Course (Crushed Stone)		
	<b>REF NO.:</b>	<b>QUANTITY</b>	<b>UNIT OF MEASURE</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION</b> (Quantity times unit price)
	302-01-00300	332.1	CUYD		
	<b>Description:</b>	<input checked="" type="checkbox"/> BASE BID    OR <input type="checkbox"/> ALT #	Aggregate Surface Course (Net Section)		
	<b>REF NO.:</b>	<b>QUANTITY</b>	<b>UNIT OF MEASURE</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION</b> (Quantity times unit price)
	401-01-00100	21.8	CUYD		
	<b>Description:</b>	<input checked="" type="checkbox"/> BASE BID    OR <input type="checkbox"/> ALT #	Asphalt Concrete		
	<b>REF NO.:</b>	<b>QUANTITY</b>	<b>UNIT OF MEASURE</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION</b> (Quantity times unit price)
	502-01-00100	446.5	Tons		
	<b>Description:</b>	<input checked="" type="checkbox"/> BASE BID    OR <input type="checkbox"/> ALT #	Asphalt Concrete, Drives, Turnouts and Misc.		
	<b>REF NO.:</b>	<b>QUANTITY</b>	<b>UNIT OF MEASURE</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION</b> (Quantity times unit price)
	502-01-00200	12.4	Tons		
	<b>Description:</b>	<input checked="" type="checkbox"/> BASE BID    OR <input type="checkbox"/> ALT #	Milling Asphalt Pavement		
	<b>REF NO.:</b>	<b>QUANTITY</b>	<b>UNIT OF MEASURE</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION</b> (Quantity times unit price)
	509-01-00100	274	SQYD		
	<b>Description:</b>	<input checked="" type="checkbox"/> BASE BID    OR <input type="checkbox"/> ALT #	Blocked Out Guardrail -31" (6'-3" Post Spacing)		
	<b>REF NO.:</b>	<b>QUANTITY</b>	<b>UNIT OF MEASURE</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION</b> (Quantity times unit price)
	704-03-00200	50	LNFT		

**Words for "description"** is to be provided by the Owner. All Quantities Estimated. The Contractor will be paid based upon actual quantities as verified by the Owner.

**UNIT PRICES:** This form shall be used for any & all work required by the Bidding Documents & described as unit prices. Amounts shall be stated in figures & only in figures.



	<b>Description:</b>	<input checked="" type="checkbox"/> BASE BID    OR <input type="checkbox"/> ALT #	Guard Rail Transitions (Double Thrie Beam)		
	<b>REF NO.:</b>	<b>QUANTITY</b>	<b>UNIT OF MEASURE</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION</b> (Quantity times unit price)
	704-07-00200	75	LNFT		
	<b>Description:</b>	<input checked="" type="checkbox"/> BASE BID    OR <input type="checkbox"/> ALT #	Guard Rail End Treatment, MASH (TL-3 Tangent)		
	<b>REF NO.:</b>	<b>QUANTITY</b>	<b>UNIT OF MEASURE</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION</b> (Quantity times unit price)
	704-10-00205	4	EACH		
	<b>Description:</b>	<input checked="" type="checkbox"/> BASE BID    OR <input type="checkbox"/> ALT #	Incidental Concrete Paving 4" Thick		
	<b>REF NO.:</b>	<b>QUANTITY</b>	<b>UNIT OF MEASURE</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION</b> (Quantity times unit price)
	706-03-00100	77.6	SQYD		
	<b>Description:</b>	<input checked="" type="checkbox"/> BASE BID    OR <input type="checkbox"/> ALT #	Right-of-Way Monument		
	<b>REF NO.:</b>	<b>QUANTITY</b>	<b>UNIT OF MEASURE</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION</b> (Quantity times unit price)
	708-01-00100	26	EACH		
	<b>Description:</b>	<input checked="" type="checkbox"/> BASE BID    OR <input type="checkbox"/> ALT #	Riprap (55 lb, 18" Thick)		
	<b>REF NO.:</b>	<b>QUANTITY</b>	<b>UNIT OF MEASURE</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION</b> (Quantity times unit price)
	711-01-04020	791.1	SQYD		
	<b>Description:</b>	<input checked="" type="checkbox"/> BASE BID    OR <input type="checkbox"/> ALT #	Geotextile Fabric		
	<b>REF NO.:</b>	<b>QUANTITY</b>	<b>UNIT OF MEASURE</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION</b> (Quantity times unit price)
	711-04-00100	791	SQYD		

**Words for "description"** is to be provided by the Owner. All Quantities Estimated. The Contractor will be paid based upon actual quantities as verified by the Owner.

**UNIT PRICES:** This form shall be used for any & all work required by the Bidding Documents & described as unit prices. Amounts shall be stated in figures & only in figures.

Description:		<input checked="" type="checkbox"/> BASE BID	OR	<input type="checkbox"/> ALT #	Temporary Signs and Barricades		
REF NO.:	QUANTITY	UNIT OF MEASURE		UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)		
713-01-00100	1	LUMP					
Description:		<input checked="" type="checkbox"/> BASE BID	OR	<input type="checkbox"/> ALT #	Mobilization		
REF NO.:	QUANTITY	UNIT OF MEASURE		UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)		
727-01-00100	1	LUMP					
Description:		<input checked="" type="checkbox"/> BASE BID	OR	<input type="checkbox"/> ALT #	Object Marker Assembly (Type-3)		
REF NO.:	QUANTITY	UNIT OF MEASURE		UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)		
729-16-00300	4	EACH					
Description:		<input checked="" type="checkbox"/> BASE BID	OR	<input type="checkbox"/> ALT #	Hydro-Seeding		
REF NO.:	QUANTITY	UNIT OF MEASURE		UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)		
739-01-00100	1	ACRE					
Description:		<input checked="" type="checkbox"/> BASE BID	OR	<input type="checkbox"/> ALT #	Construction Layout		
REF NO.:	QUANTITY	UNIT OF MEASURE		UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)		
740-01-00100	1	LUMP					
Description:		<input checked="" type="checkbox"/> BASE BID	OR	<input type="checkbox"/> ALT #	Precast Concrete Piles 16"		
REF NO.:	QUANTITY	UNIT OF MEASURE		UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)		
804-01-00300	1494	LNFT					

Wording for "description" is to be provided by the Owner. All Quantities Estimated. The Contractor will be paid based upon actual quantities as verified by the Owner.

UNIT PRICES: This form shall be used for any & all work required by the Bidding Documents & described as unit prices. Amounts shall be stated in figures & only in figures.

	<b>Description:</b>	<input checked="" type="checkbox"/> BASE BID    OR <input type="checkbox"/> ALT #	Precast Concrete Indicator Piles 16"		
	<b>REF NO.:</b>	<b>QUANTITY</b>	<b>UNIT OF MEASURE</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (Quantity times unit price)</b>
	804-10-00300	1	EACH		
	<b>Description:</b>	<input checked="" type="checkbox"/> BASE BID    OR <input type="checkbox"/> ALT #	Dynamic Monitoring Assistance		
	<b>REF NO.:</b>	<b>QUANTITY</b>	<b>UNIT OF MEASURE</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (Quantity times unit price)</b>
	804-14-00100	8	EACH		
	<b>Description:</b>	<input checked="" type="checkbox"/> BASE BID    OR <input type="checkbox"/> ALT #	Class A1 Concrete (Slab Span)		
	<b>REF NO.:</b>	<b>QUANTITY</b>	<b>UNIT OF MEASURE</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (Quantity times unit price)</b>
	805-01-00100	110.4	CUYD		
	<b>Description:</b>	<input checked="" type="checkbox"/> BASE BID    OR <input type="checkbox"/> ALT #	Class A1 Concrete Bent Cap		
	<b>REF NO.:</b>	<b>QUANTITY</b>	<b>UNIT OF MEASURE</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (Quantity times unit price)</b>
	805-01-00300	28.1	CUYD		
	<b>Description:</b>	<input checked="" type="checkbox"/> BASE BID    OR <input type="checkbox"/> ALT #	Concrete Finish (Class 2 Rubbed Finish)		
	<b>REF NO.:</b>	<b>QUANTITY</b>	<b>UNIT OF MEASURE</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (Quantity times unit price)</b>
	805-18-00100	1383	SQFT		
	<b>Description:</b>	<input checked="" type="checkbox"/> BASE BID    OR <input type="checkbox"/> ALT #	Concrete Finish (Class 3 Special Finish)		
	<b>REF NO.:</b>	<b>QUANTITY</b>	<b>UNIT OF MEASURE</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (Quantity times unit price)</b>
	805-18-00200	1600	SQFT		

**Words for "description"** is to be provided by the Owner. All Quantities Estimated. The Contractor will be paid based upon actual quantities as verified by the Owner.

**UNIT PRICES:** This form shall be used for any & all work required by the Bidding Documents & described as unit prices. Amounts shall be stated in figures & only in figures.

	<b>Description:</b>	<input checked="" type="checkbox"/> BASE BID    OR <input type="checkbox"/> ALT #	Deformed Reinforcing Steel		
	<b>REF NO.:</b>	<b>QUANTITY</b>	<b>UNIT OF MEASURE</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION</b> (Quantity times unit price)
	806-01-00100	27810	LB		
	<b>Description:</b>	<input checked="" type="checkbox"/> BASE BID    OR <input type="checkbox"/> ALT #	Concrete Bridge Railing (Slotted)		
	<b>REF NO.:</b>	<b>QUANTITY</b>	<b>UNIT OF MEASURE</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION</b> (Quantity times unit price)
	810-01-00200	200	LNFT		
	<b>Description:</b>	<input checked="" type="checkbox"/> BASE BID    OR <input type="checkbox"/> ALT #	Concrete Approach Slabs (Cast-In-Place)		
	<b>REF NO.:</b>	<b>QUANTITY</b>	<b>UNIT OF MEASURE</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION</b> (Quantity times unit price)
	813-01-00100	1000	SQFT		
	<b>Description:</b>	<input checked="" type="checkbox"/> BASE BID    OR <input type="checkbox"/> ALT #	Joint Seal (Poured)		
	<b>REF NO.:</b>	<b>QUANTITY</b>	<b>UNIT OF MEASURE</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION</b> (Quantity times unit price)
	815-03-00300	159	LNFT		
	<b>Description:</b>	<input checked="" type="checkbox"/> BASE BID    OR <input type="checkbox"/> ALT #	Saw Cutting Asphalt Cement Concrete Pavement		
	<b>REF NO.:</b>	<b>QUANTITY</b>	<b>UNIT OF MEASURE</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION</b> (Quantity times unit price)
	NS-500-00340	182	INFT		
	<b>Description:</b>	<input type="checkbox"/> BASE BID    OR <input type="checkbox"/> ALT #			
	<b>REF NO.:</b>	<b>QUANTITY</b>	<b>UNIT OF MEASURE</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION</b> (Quantity times unit price)

**Words for "description"** is to be provided by the Owner. All Quantities Estimated. The Contractor will be paid based upon actual quantities as verified by the Owner.

**UNIT PRICES:** This form shall be used for any & all work required by the Bidding Documents & described as unit prices. Amounts shall be stated in figures & only in figures.

Section 05

**AFFIDAVIT PURSUANT TO LSA-R.S. 38:2224 and 38:2227  
FOR BIDDERS FOR PUBLIC WORKS CONTRACTS**

STATE OF \_\_\_\_\_

PARISH/COUNTY OF \_\_\_\_\_

**BEFORE ME**, the undersigned authority, in and for the above stated State and Parish (or County), personally came and appeared:

\_\_\_\_\_  
Print Name

who, after first being duly sworn, did depose and state:

1. That affiant is appearing on behalf of \_\_\_\_\_, who is seeking a public contract with St. Tammany Parish Government.
2. That affiant employed no person, corporation, firm, association, or other organization, either directly or indirectly, to secure the public contract under which he received payment, other than persons regularly employed by the affiant whose services in connection with the construction, alteration or demolition of the public building or project or in securing the public contract were in the regular course of their duties for affiant; and
3. That no part of the contract price received by affiant was paid or will be paid to any person, corporation, firm, association, or other organization for soliciting the contract, other than the payment of their normal compensation to persons regularly employed by the affiant whose services in connection with the construction, alteration or demolition of the public building or project were in the regular course of their duties for affiant.
4. If affiant is a sole proprietor, that after July 2, 2010, he/she has not been convicted of, or has not entered a plea of guilty or *nolo contendere* to any of the crimes or equivalent federal crimes listed in LSA-R.S. 38:2227(B).
5. If affiant is executing this affidavit on behalf of a juridical entity such as a partnership, corporation, or LLC, etc., that no individual partner, incorporator, director, manager, officer, organizer, or member, who has a minimum of a ten percent ownership in the bidding entity, has been convicted of, or has entered a plea of guilty or *nolo contendere* to any

of the crimes or equivalent federal crimes listed in LSA-R.S. 38:2227(B).

- 6. If affiant is a sole proprietor, that neither affiant, nor his/her immediate family is a public servant of St. Tammany Parish Government or the Contract is not under the supervision or jurisdiction of the public servant’s agency.
- 7. If affiant is executing this affidavit on behalf of a juridical entity such as a partnership, corporation, or LLC, etc., that no public servant of St. Tammany Parish Government, or his/her immediate family, either individually or collectively, has more than a 25% ownership interest in the entity seeking the Contract with St. Tammany Parish Government if the Contract will be under the supervision or jurisdiction of the public servant’s agency.

\_\_\_\_\_  
**Printed Name:** \_\_\_\_\_  
**Title:** \_\_\_\_\_  
**Entity name:** \_\_\_\_\_

**THUS SWORN TO AND SUBSCRIBED BEFORE ME,**  
**THIS \_\_\_\_\_, DAY OF \_\_\_\_\_, 202\_\_.**

\_\_\_\_\_  
**Notary Public**  
**Print Name:** \_\_\_\_\_  
**Notary I.D./Bar No.:** \_\_\_\_\_  
**My commission expires:** \_\_\_\_\_

**AFFIDAVIT PURSUANT TO LSA-R.S. 38:2212.10 CONFIRMING  
REGISTRATION AND PARTICIPATION IN A STATUS VERIFICATION  
SYSTEM**

**STATE OF** \_\_\_\_\_  
**PARISH/COUNTY OF** \_\_\_\_\_

**BEFORE ME**, the undersigned authority, in and for the above stated State and Parish (or County), personally came and appeared:

\_\_\_\_\_  
Print Name

who, after first being duly sworn, did depose and state:

- 1. That affiant is appearing on behalf of \_\_\_\_\_,  
a private employer seeking a bid or a contract with St. Tammany Parish  
Government for the physical performance of services within the State of  
Louisiana.
  
- 2. That affiant is registered and participates in a status verification system to  
verify that all employees in the state of Louisiana are legal citizens of the  
United States or are legal aliens; and
  
- 3. That affiant shall continue, during the term of the contract, to utilize a status  
verification system to verify the legal status of all new employees in the  
state of Louisiana.
  
- 4. That affiant shall require all subcontractors to submit to the affiant a sworn  
affidavit verifying compliance with this law.

\_\_\_\_\_  
**Printed Name:** \_\_\_\_\_  
**Title:** \_\_\_\_\_  
**Name of Entity:** \_\_\_\_\_

**THUS SWORN TO AND SUBSCRIBED BEFORE ME,**  
**THIS** \_\_\_\_\_, **DAY OF** \_\_\_\_\_, **202**\_\_.

\_\_\_\_\_  
**Notary Public**  
**Print Name:** \_\_\_\_\_  
**Notary I.D./Bar No.:** \_\_\_\_\_  
**My commission expires:** \_\_\_\_\_



## INSURANCE REQUIREMENTS\*

Construction Project: St. John Church Rd Bridge\_\_\_\_\_

Project/Quote/Bid#: 25-19-2\_\_\_\_\_

### **\*\*\*IMPORTANT – PLEASE READ\*\*\***

**Prior to submitting your quote or bid, it is recommended that you review these insurance requirements with your insurance broker/agent.**

*These requirements modify portions of the insurance language found in the General Conditions and/or Supplementary General Conditions; however, there is no intention to remove all sections pertaining to insurance requirements and limits set forth in the General Conditions and/or Supplementary General Conditions, only to amend and specify those items particular for this Project.*

- A. The Provider shall secure and maintain at its expense such insurance that will protect it and St. Tammany Parish Government (the "Parish") from claims for bodily injury, death or property damage as well as from claims under the Workers' Compensation Acts that may arise from the performance of services under this agreement. All certificates of insurance shall be furnished to the Parish and provide thirty (30) days prior notice of cancellation to the Parish, in writing, on all of the required coverage.
  
- B. All policies shall provide for and certificates of insurance shall indicate the following:
  - 1. Waiver of Subrogation: The Provider's insurers will have no right of recovery or subrogation against the Parish of St. Tammany, it being the intention of the parties that all insurance policy(ies) so affected shall protect both parties and be the primary coverage for any and all losses covered by the below described insurance.
  - 2. Additional Insured: St. Tammany Parish Government shall be named as Additional Insured with respect to general liability, automobile liability and excess liability coverages, as well as marine liability and pollution/environmental liability, when those coverages are required or necessary.
  - 3. Payment of Premiums: The insurance companies issuing the policy or policies will have no recourse against St. Tammany Parish Government for payment of any premiums or for assessments under any form of policy.
  - 4. Project Reference: The project(s) and location(s) shall be referenced in the Comment or Description of Operations section of the Certificate of Insurance (Project ##-###, or Bid # if applicable, Type of Work, Location).
  
- C. Coverage must be issued by insurance companies authorized to do business in the State of Louisiana. Companies must have an A.M. Best rating of no less than A-, Category VII. St. Tammany Parish Risk Management Department may waive this requirement only for Workers Compensation coverage at their discretion.



Provider shall secure and present proof of insurance on forms acceptable to St. Tammany Parish Government, Office of Risk Management no later than the time of submission of the Contract to the Parish. However, should any work performed under this Contract by or on behalf of Provider include exposures that are not covered by those insurance coverages, Provider is not relieved of its obligation to maintain appropriate levels and types of insurance necessary to protect itself, its agents and employees, its subcontractors, St. Tammany Parish Government (Owner), and all other interested third parties, from any and all claims for damage or injury in connection with the services performed or provided throughout the duration of this Project, as well as for any subsequent periods required under this Contract.

The insurance coverages checked (✓) below are those required for this Contract.

- ☒ 1. **Commercial General Liability\*** insurance – **Occurrence Form** - with a Combined Single Limit for bodily injury and property damage of at least \$1,000,000 per Occurrence / \$2,000,000 General Aggregate and \$2,000,000 Products-Completed Operations. Contracts over \$1,000,000 may require higher limits. The insurance shall provide for and the certificate(s) of insurance shall indicate the following coverages:
- a) Premises - operations;
  - b) Broad form contractual liability;
  - c) Products and completed operations;
  - d) Personal/Advertising Injury;
  - e) Broad form property damage (for Projects involving work on Parish property);
  - f) Explosion, Collapse and Damage to underground property.
  - g) Additional Insured forms CG 2010 and CG 2037 in most current edition are required.
- ☒ 2. **Business Automobile Liability\*** insurance with a Combined Single Limit of \$1,000,000 per Occurrence for bodily injury and property damage, and shall include coverage for the following:
- a) Any auto;
  - or**
  - b) Owned autos; **and**
  - c) Hired autos; **and**
  - d) Non-owned autos.
- ☒ 3. **Workers' Compensation/Employers Liability insurance\*** - Workers' Compensation coverage as required by State law. Employers' liability limits shall be a minimum of \$1,000,000 each accident, \$1,000,000 each disease, \$1,000,000 disease policy aggregate. When water activities are expected to be performed in connection with this project, coverage under the USL&H Act, Jones Act and/or Maritime Employers Liability (MEL) must be included. **Coverage for owners, officers and/or partners in any way engaged in the Project shall be included in the policy.** The names of any excluded individual must be shown in the Description of Operations/Comments section of the Certificate.
- ☐ 4. **Pollution Liability and Environmental Liability\*** insurance in the minimum amount of \$1,000,000 per occurrence / \$2,000,000 aggregate including full contractual liability and third party claims for bodily injury and/or property damage, for all such hazardous waste, pollutants and/or environmental exposures that may be affected by this project stemming from pollution/environmental incidents as a result of Contractor's operations.

If coverage is provided on a claims-made basis, the following conditions apply:

- 1) the retroactive date must be prior to or coinciding with the effective date of the Contract, or prior to the commencement of any services provided by the Contractor on behalf of the Parish, whichever is earlier; AND
- 2) continuous coverage must be provided to the Parish with the same retro date for 24 months following acceptance or termination of the Project by the Parish either by
  - a) continued renewal certificates **OR**
  - b) a 24 month Extended Reporting Period

\*The Certificate must indicate whether the policy is written on an occurrence or claims-made basis and, if claims-made, the applicable retro date must be stated.



5. **Contractor's Professional Liability/Errors and Omissions\*** insurance in the sum of at least \$1,000,000 per claim / \$2,000,000 aggregate is required when work performed by Contractor or on behalf of Contractor includes professional or technical services including, but not limited to, construction administration and/or management, engineering services such as design, surveying, and/or inspection, technical services such as testing and laboratory analysis, and/or environmental assessments. An occurrence basis policy is preferred.

If coverage is provided on a claims-made basis, the following conditions apply:

- 1) the retroactive date must be prior to or coinciding with the effective date of the Contract, or prior to the commencement of any services provided by the Contractor on behalf of the Parish, whichever is earlier; AND
- 2) continuous coverage must be provided to the Parish with the same retro date for 24 months following acceptance or termination of the Project by the Parish either by
  - a) continued renewal certificates **OR**
  - b) a 24 month Extended Reporting Period

\*The Certificate must indicate whether the policy is written on an occurrence or claims-made basis and, if claims-made, the applicable retro date must be stated.



6. **Marine Liability/Protection and Indemnity\*** insurance is required for any and all vessel and/or marine operations in the minimum limits of \$1,000,000 per occurrence / \$2,000,000 per project general aggregate. The coverage shall include, but is not limited to, the basic coverages found in the Commercial General Liability insurance and coverage for third party liability

**\*Excess/Umbrella Liability** insurance may be provided to meet the limit requirements for any Liability coverage. For example: if the General Liability requirement is \$3,000,000 per occurrence, but the policy is only \$1,000,000 per occurrence, then the excess policy should be at least \$2,000,000 per occurrence thereby providing a combined per occurrence limit of \$3,000,000.)



7. **Owners Protective Liability (OPL)** shall be furnished by the Contractor and shall provide coverage in the minimum amount of \$1,000,000 CSL each occurrence / \$1,000,000 aggregate. **St. Tammany Parish Government, ATTN: Risk Management Department, P. O. Box 628, Covington, LA 70434 shall be the first named insured on the policy.**



8. **Builder's Risk Insurance** written as an "all-risk" policy providing coverage in an amount at or greater than one hundred percent (100%) of the completed value of the contracted project. Any contract modifications increasing the contract cost will require an increase in the limit of the Builder's Risk policy. Deductibles should not exceed \$5,000 and Contractor shall be responsible for all policy deductibles. This insurance shall cover materials at the site, stored off the site, and in transit. The Builder's Risk Insurance shall include the interests of the Owner, Contractor and Subcontractors and shall terminate only when the Project is accepted in writing. **St. Tammany Parish Government, ATTN: Risk Management Department, P. O. Box 628, Covington, LA 70434 shall be named as a Loss Payee on the policy.**



9. **Installation Floater Insurance**, on an "all-risk" form, shall be furnished by Contractor and carried for the full value of the materials, machinery, equipment and labor for each location. The Contractor shall be responsible for all policy deductibles. The Installation Floater Insurance shall provide coverage for property owned by others and include the interests of the Owner, Contractor and Subcontractors and shall terminate only when the Project is accepted in writing. **St. Tammany Parish Government, ATTN: Risk Management Department, P. O. Box 628, Covington, LA 70434 shall be named as a Loss Payee on the policy.**

- D. All policies of insurance shall meet the requirements of the Parish prior to the commencing of any work. The Parish has the right, but not the duty, to approve all insurance coverages prior to commencement of work. If any of the required policies are or become unsatisfactory to the Parish as to form or substance; or if a company issuing any policy is or becomes unsatisfactory to the Parish, the Provider shall promptly obtain a new policy, timely submit same to the Parish for approval, and submit a certificate thereof as provided above. The Parish agrees not to unreasonably withhold approval of any insurance carrier selected by Provider. In the event that Parish cannot agree or otherwise authorize a carrier, Provider shall have the option of selecting and submitting a new insurance carrier within 30 days of said notice by the Parish. In the event that the second submission is insufficient or is not approved, then the Parish shall have the unilateral opportunity to thereafter select a responsive and responsible insurance carrier all at the cost of Provider and thereafter deduct from Provider's fee the cost of such insurance.
- E. Upon failure of Provider to furnish, deliver and/or maintain such insurance as above provided, this contract, at the election of the Parish, may be declared suspended, discontinued or terminated. Failure of the Provider to maintain insurance shall not relieve the Provider from any liability under the contract, nor shall the insurance requirements be construed to conflict with the obligation of the Provider concerning indemnification.
- F. Provider shall maintain a current copy of all annual insurance policies and agrees to provide a certificate of insurance to the Parish on an annual basis or as may be reasonably requested for the term of the contract or any required Extended Reporting Period. Provider further shall ensure that all insurance policies are maintained in full force and effect throughout the duration of the Project and shall provide the Parish with annual renewal certificates of insurance evidencing continued coverage, without any prompting by the Parish.
- G. It shall be the responsibility of Provider to require that these insurance requirements are met by all contractors and sub-contractors performing work for and on behalf of Provider. Provider shall further ensure the Parish is named as an additional insured on all insurance policies provided by said contractor and/or sub-contractor throughout the duration of the project.
- H. Certificates of Insurance shall be issued as follows:

**St. Tammany Parish Government  
Attn: Risk Management  
P O Box 628  
Covington, LA 70434**

To avoid contract processing delays, be certain the project name/number is included on all correspondence including Certificates of Insurance.

**\*NOTICE: St. Tammany Parish Government reserves the rights to remove, replace, make additions to and/or modify any and all of the insurance requirements at any time.**

**Any inquiry regarding these insurance requirements should be addressed to:**

**St. Tammany Parish Government  
Office of Risk Management  
P O Box 628  
Covington, LA 70434  
Telephone: 985-898-5226  
Email: riskman@stpgov.org**

## **Section 07**

### **Project Signs**

#### **1. General**

- a. Work to include providing and installing project sign(s) at the beginning of the project. Some projects may require multiple signs. Should more than one sign be required, it will be reflected in the bidding documents.


#### **2. Materials**

- a. The printed project sign(s) shall be 3/8" primed Medium Density Overlay (MDO) **OR** 3-millimeter corrugated plastic secured to exterior plywood (4' x 4').
- b. Contractor shall not use previously provided templates and/or fonts.

#### **3. Execution**

- a. The sign(s) shall be printed on a project-by-project basis in black and white, using the template and font provided to the Contractor by the St. Tammany Parish Government Project Manager.
- b. All signage proofed and approved by State Tammany Parish Government before project sign(s) are to be produced by the Contractor.
- c. Exact placement of the project sign(s) must be coordinated with, and approved by, the St. Tammany Parish Government Project Manager prior to sign installation.
- d. The sign(s) is to be installed such that the bottom of the sign is a minimum of 5' above the existing ground elevation.
- e. Sign(s) is to be maintained throughout the period of construction. If sign(s) is damaged or destroyed, repair and/or replacement of sign(s) will be at Contractor's expense.
- f. Contractor is responsible for the removal of all project signs upon issuance of final acceptance by the St. Tammany Parish Government Project Manager at no direct pay.
- g. Cost to be included in "Temporary Signs and Barricades

Blank Template of Parish Project Sign:



**MICHAEL B. COOPER**  
Parish President

---

Councilmember Name  
Council District X

Total Dollar \$  
amount specified here

\$XXX,XXX.XX

Project Name

Description of  
Project Work

Name of Street, Bridge,  
Subdivision, etc. stated here

Short Description of Project stated here  
(if deemed applicable by the Parish)

Example of a Completed Parish Project Sign:

# PROGRESS



**MICHAEL B. COOPER**  
Parish President

**RYKERT O. TOLEDANO, JR**  
Council District 5

**\$514,444.40**

**Dove Park**  
**Subdivision Drainage**  
Drainage Improvements along  
Swallow St., Sparrow St.,  
Partridge St. and Egret St.

Section 08

**General Conditions for St. Tammany Parish Government**

**This index is for illustrative purposes only and is not intended to be complete nor exhaustive.**

**All bidders/contractors are presumed to have read and understood the entire document. Some information contained in these conditions may not be applicable to all projects.**

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## 01.00 DEFINITIONS OF TERMS

Whenever used in these General Conditions or in other Contract Documents, the following terms shall have the meanings indicated, and these shall be applicable to both the singular and plural thereof.

- 01.01 A.A.S.H.T.O American Association of State Highway and Transportation Officials. When A.A.S.H.T.O. is referred to in these Specifications it takes the meaning of the specification for materials and methods of testing specified by this association and the specification stated is considered to be a part of the Specifications as if written herein in full.
- 01.02 A.C.I American Concrete Institute. When A.C.I. is referred to in these Specifications it takes the meaning of the specification for materials and methods of testing specified by this institute and the specification stated is considered to be a part of the Specifications as if written herein in full.
- 01.03 Addenda Written or graphic instruments issued prior to the opening of bids which clarify, correct, modify or change the bidding or Contract Documents.
- 01.04 Advertisement The written instrument issued by the Owner at the request of the Owner used to notify the prospective bidder of the nature of the Work. It becomes part of the Contract Documents.
- 01.05 Agreement The written agreement or contract between the Owner and the Contractor covering the Work to be performed and the price that the Owner will pay. Other documents, including the Proposal, Addenda, Specifications, plans, surety, insurance, etc., are made a part thereof.
- 01.06 Application for Payment The form furnished by the Owner which is to be used by the Contractor in requesting incremental (progress) payments and which is to include information required by Section 28.01 and an affidavit of the Contractor. The affidavit shall stipulate that progress payments theretofore received from the Owner on account of the Work have been applied by Contractor to discharge in full of all Contractor's obligations reflected in prior applications for payment.
- 01.07 A.S.T.M. American Society of Testing Materials. When A.S.T.M. is referred to in these Specifications it takes the meaning of the specification for materials and methods of testing specified by this society and the specification stated is considered to be a part of the Specifications as if written herein in full.
- 01.08 Bid The offer or Proposal of the Bidder submitted on the prescribed form setting forth all the prices for the Work to be performed.
- 01.09 Bidder Any person, partnership, firm or corporation submitting a Bid for the Work.
- 01.10 Bonds Bid, performance and payment bonds and other instruments of security, furnished by the Contractor and its surety in accordance with the Contract Documents and Louisiana law.
- 01.11 Change Order A written order to the Contractor signed by the Owner authorizing an addition, deletion or revision in the Work, or an adjustment in the Contract Price or the Contract Time after execution of the Agreement.
- 01.12 Contract Documents The Agreement, Addenda, Contractor's Bid and any documentation accompanying or post-bid documentation when attached as an exhibit, the Bonds, these General Conditions, the Advertisement for Bid, Notice to Contractor, all supplementary conditions, the Specifications, the Drawings, together with all Modifications issued after the execution of the Agreement.
- 01.13 Contract Price The total monies payable to the Contractor under the Contract Documents.

- 01.14 Contract Time The number of consecutive calendar days stated in the Agreement for the completion of the Work.
- 01.15 Contractor The person, firm, corporation or Contractor with whom the Owner has executed the Agreement.
- 01.16 Defective Work When work which is unsatisfactory, faulty or deficient for any reason whatsoever, or does not conform to the Contract Documents, or does not meet the requirements of any inspection, test or approval referred to in the Contract Documents, or has been damaged prior to the Owner's recommendation or acceptance.
- 01.17 Drawings The Drawings and plans which show the character and scope of the Work to be performed and which have been prepared or approved by the Owner and are referred to in the Contract Documents.
- 01.18 Field Order A written order issued by the Owner or his agent which clarifies or interprets the Contract Documents.
- 01.19 Modification (a) A written amendment of the Contract Documents signed by both parties, (b) A Change Order, (c) A written clarification or interpretation issued by the Owner or his agent. Modification may only be issued after execution of the Agreement.
- 01.20 Notice of Award The written notice by Owner to the lowest responsible Bidder stating that upon compliance of the conditions enumerated in the Notice of Award, or enumerated in the Bid documents, the Owner will deliver the Contract Documents for signature. The time for the delivery of the Contract Documents can be extended in conformance with Louisiana Law.
- 01.21 Notice to Contractor Instructions, written or oral given by Owner to Contractor and deemed served if given to the Contractor's superintendent, foreman or mailed to Contractor at his last known place of business.
- 01.22 Notice to Proceed A written notice given by the Owner fixing the date on which the Contract Time will commence, and on which date the Contractor shall start to perform his obligation under the Contract Documents. Upon mutual consent by both parties, the Notice to Proceed may be extended.
- 01.23 Owner St. Tammany Parish Government, acting herein through its duly constituted and authorized representative, including but not limited to the Office of the Parish President or its designee, its Chief Administrative Officer, and/or Legal Counsel. St. Tammany Parish Government (hereinafter, the "Parish") and Owner may be used interchangeably.
- 01.24 Project The entire construction to be performed as provided in the Contract Documents.
- 01.25 Project Representative The authorized representative of the Owner who is assigned to the Project or any parts thereof.
- 01.26 Proposal The Bid submitted by the Bidder to the Owner on the Proposal form setting forth the Work to be done and the price for which the Bidder agrees to perform the Work.
- 01.27 Shop Drawings All drawings, diagrams, illustrations, brochures, schedules and other data which are prepared by the Contractor, Subcontractor, Manufacturer, Supplier or Distributor and which illustrate the equipment, material or some portion of the Work.
- 01.28 Specifications The Instructions to Bidders, these General Conditions, the Special Conditions and the Technical Provisions. All of the documents listed in the "Table of Contents."
- 01.29 Subcontractor An individual, firm or corporation having a direct Contract with the Contractor or with any other Subcontractor for the performance of a part of the Project Work.
- 01.30 Substantial Completion The date as certified by the Owner or its agent when the construction of the Project or a specified part thereof is sufficiently complete in accordance with the Contract Documents so that the Project or specified part can be utilized for the

purposes for which it was intended; or if there is no such certification, the date when final payment is due in accordance with Section 28.

- 01.31 Superintendent Contractor's site representative. The person on the site who is in full and complete charge of the Work.
- 01.32 Time Unless specifically stated otherwise, all time delays shall be calculated in calendar days.
- 01.33 Work Any and all obligations, duties and responsibilities necessary to the successful completion of the Project assigned to or undertaken by the Contractor under the Contract Documents, usually including the furnishing of all labor, materials, equipment and other incidentals.
- 01.34 The terms "he/himself" may be used interchangeably with "it/itself."

## 02.00 PROPOSAL

- 02.01 All papers bound with or attached to the Proposal Form are a necessary part thereof and must not be detached.
- 02.02 For submitting Bids, the only forms allowed shall be the "Louisiana Uniform Public Work Bid Form", "Louisiana Uniform Public Works Bid Form Unit Price Form" (if necessary), the Bid Bond, and written evidence of authority of person signing the bid. Necessary copies of the Louisiana Uniform Public Work Forms will be furnished for Bidding. Bound sets of the Contract Documents are for Bidder's information and should not be used in submitting Bids.
- 02.03 Proposal forms must be printed in ink or typed, unless submitted electronically. Illegibility or ambiguity therein may constitute justification for rejection of the Bid.
- 02.04 Each Bid must be submitted in a sealed envelope, unless submitted electronically. The outside of the envelope shall show the name and address of the Bidder, the State Contractor's License Number of the Bidder (if work requires contractor's license), and the Project name and number for which the Bid is submitted, along with the Bid number.
- 02.05 The price quoted for the Work shall be stated in words and figures on the Bid Form, and in numbers only on the Unit Price Form. The price in the Proposal shall include all costs necessary for the complete performance of the Work in full conformity with the conditions of the Contract Documents, and shall include all applicable Federal, State, Parish, Municipal or other taxes. The price bid for the items listed on the Unit Price Form will include the cost of all related items not listed, but which are normally required to do the type of Work bid.
- 02.06 The Bid shall be signed by the Bidder. The information required on the Louisiana Uniform Public Work Bid Form must be provided. Evidence of agency, corporate, or partnership authority is required and shall be provided in conformance with LSA-R.S. 38:2212(B).
- 02.07 Only the Contractors licensed by the State to do the type of Work involved can submit a Proposal for the Work. The envelope containing the Proposal shall have the Contractor's license number on it. Failure to be properly licensed constitutes authority by the Owner for rejection of Bid.
- 02.08 Bidders shall not attach any conditions or provisions to the Proposal. Any conditions or provisions so attached may, at the sole option of the Owner, cause rejection of the Bid or Proposal.
- 02.09 A Bid Guarantee of five percent (5%) of the amount of the total Bid, including Alternates, must accompany the Proposal and, at the option of the Bidder, may be a cashier's check, certified check or a satisfactory Bid Bond. The Bid Guarantee must be attached to the Louisiana Uniform Public Work Bid Form. No Bid will be considered unless it is so guaranteed. Cashier's check or certified check must be made payable to the order of the Owner. Cash deposits will not be accepted. The Owner reserves the right to cash or deposit the cashier's check or certified check. Such guarantees shall be made payable to the Parish

of St. Tammany. In accordance with LSA-R.S. 38:2218(C), if a bid bond is used, it shall be written by a surety or insurance company currently on the U.S. Department of the Treasury Financial Management Service list of approved bonding companies which is published annually in the Federal Register, or by a Louisiana domiciled insurance company with at least an A- rating in the latest printing of the A.M. Best's Key Rating Guide to write individual bonds up to ten percent of policyholders' surplus as shown in the A.M. Best's Key Rating Guide, or by an insurance company in good standing licensed to write bid bonds which is either domiciled in Louisiana or owned by Louisiana residents. It is **not** required to be on any AIA form.

- 02.10 Bid securities of the three (3) lowest Bidders will be retained by the Owner until the Contract is executed or until final disposition is made of the Bids submitted. Bid securities of all other Bidders will be returned promptly after the canvas of Bids. Bids shall remain binding for forty-five (45) days after the date set for Bid Opening. The Parish shall act within the forty-five (45) days to award the contract to the lowest responsible bidder or reject all bids as permitted by Public Bid Law. However, the Parish and the lowest responsible bidder, by mutual written consent, may agree to extend the deadline for award by one or more extensions of thirty (30) calendar days. In the event the Owner issued the Letter of Award during this period, or any extension thereof, the Bid accepted shall continue to remain binding until the Execution of the Contract.
- 02.11 A Proposal may be withdrawn at any time prior to the scheduled closing time for receipt of Bids, provided the request is in writing, executed by the Bidder or its duly authorized representative and is filed with the Owner prior to that time. When such a request is received, the Proposal will be returned to the Bidder unopened.
- 02.12 Written communications, over the signature of the Bidder, to modify Proposals will be accepted and the Proposal corrected in accordance therewith if received by the Owner prior to the scheduled closing time for receipt of Bids. Oral, telephonic or telegraphic Modifications will not be considered.
- 02.13 No oral interpretation obligating the Owner will be made to any Bidder as to the meaning of the Drawings, Specifications and Contract Documents. Every request for such an interpretation shall be made in writing and addressed and forwarded to the Owner. No inquiry received within seven (7) days prior to the day fixed for opening of the Bids shall be given consideration. Every interpretation made to the Bidder shall be in the form of an addendum to the Specifications. All such Addenda shall become part of the Contract Documents. Failure of Bidder to receive any such interpretation shall not relieve any Bidder from any obligation under this Bid. All Addenda shall be issued in accordance with the Public Bid Law, LSA-R.S. 38:2212(O)(2)(a) and (b).
- 02.14 The Owner reserves the right to reject any or all Bids for just cause in accordance with the Public Bid Law, LSA-R.S. 38:2214(B). Incomplete, informal or unbalanced Bids may be rejected. Reasonable grounds for belief that any one Bidder is concerned directly or indirectly with more than one Bid will cause rejection of all Bids wherein such Bidder is concerned. If required, a Bidder shall furnish satisfactory evidence of its competence and ability to perform the Work stipulated in its Proposal. Incompetence will constitute cause for rejection. If the Parish determines that the bidder is not responsive or responsible for any reason whatsoever, the bid may be rejected in accordance with State law.
- 02.15 The Contractor shall indemnify and hold harmless the Owner from any and all suits, costs, penalties or claims for infringement by reason of use or installation of any patented design, device, material or process, or any trademark and copyright in connection with the Work agreed to be performed under this Contract, and shall indemnify and hold harmless the Owner for any costs, expenses and damages which it may be obliged to pay by reason of any such infringement at any time during the prosecution or after completion of the Work.
- 02.16 Bidders shall familiarize themselves with and shall comply with all applicable Federal and State Laws, municipal ordinances and the rules and regulations of all authorities having jurisdiction over construction of the Project, which may directly or indirectly affect the Work or its prosecution. These laws and/or ordinances will be deemed to be included in the Contract, as though herein written in full.
- 02.17 Each Bidder shall visit the site of the proposed Work and fully acquaint itself with all surface and subsurface conditions as they may exist so that it may fully understand this



Contract. Bidder shall also thoroughly examine and be familiar with drawings, Specifications and Contract Documents. The failure or omission of any Bidder to receive or examine any form instrument, Drawing or document or to visit the site and acquaint itself with existing conditions, shall in no way relieve any Bidder from any obligation with respect to its Bid and the responsibility in the premises.

- 02.18 The standard contract form enclosed with the Proposal documents is a prototype. It is enclosed with the Contract Documents for the guidance of the Owner and the Contractor. It has important legal consequences in all respects and consultation with an attorney is encouraged. Contractor shall be presumed to have consulted with its own independent legal counsel.
- 02.19 When one set of Contract plans show the Work to be performed by two or more prime Contractors, it is the responsibility of each Bidder to become knowledgeable of the Work to be performed by the other where the Work upon which this bid is submitted is shown to come into close proximity or into conflict with the Work of the other. In avoiding conflicts, pressure pipe lines must be installed to avoid conflict with gravity pipe lines and the Bidder of the smaller gravity pipe line in conflict with the larger gravity pipe line must include in his Bid the cost of a conflict box at these locations. The location of and a solution to the conflicts do not have to be specifically noted as such on the plans.
- 02.20 Bidder shall execute affidavit(s) attesting compliance with LSA-R.S. 38:2212.10, 38:2224, 38:2227, each as amended, and other affidavits as required by law, prior to execution of the contract.
- 02.21 Sealed Proposals (Bid) shall be received by St. Tammany Parish Government at the office of St. Tammany Parish Government, Department of Procurement, 21454 Koop Drive, Suite 2-F, Mandeville, LA 70471, until the time and date denoted in Notice to Bidders, at which time and place the Proposals (Bids), shall be publicly opened and read aloud to those present. In accordance with LSA-R.S. 38-2212(A)(3)(c)(i), the designer's final estimated cost of construction shall be read aloud upon opening bids. Sealed Proposals (Bids) may also be mailed by certified mail to St. Tammany Parish Government, Department of Procurement, 21454 Koop Drive, Suite 2-F, Mandeville, LA 70471, and must be received before the bid opening. Bids may also be submitted electronically. Information concerning links for electronic bidding is contained in the Notice to Bidders.
- 02.22 Proposals (Bids) shall be executed on Forms furnished and placed in a sealed envelope, marked plainly and prominently as indicated in the Notice to Bidders, and these General Conditions, and addressed:

St. Tammany Parish Government  
Department of Procurement  
21454 Koop Drive, Suite 2-F  
Mandeville, LA 70471

- 02.23 Complete sets of Drawings, Specifications, and Contract Documents may be secured at the Office of the Owner. See Notice to Bidders for deposit schedule.
- 02.24 The successful bidder shall be required to post in each direction a public information sign, 4' x 8' in size, at the location of the project containing information required by the Owner. The Owner shall supply this information.

03.00 AWARD, EXECUTION OF DOCUMENTS, BONDS, ETC.

- 03.01 The award of the Contract, if it is awarded, will be to the lowest responsible Bidder, in accordance with State Law. No award will be made until the Owner has concluded such investigations as it deems necessary to establish the responsibility, qualifications and financial ability and stability of the Bidder to do the Work in accordance with the Contract Documents to the satisfaction of the Owner within the time prescribed as established by the Department based upon the amount of work to be performed and the conditions of same. The written contract and bond shall be issued in conformance with LSA-R.S. 38:2216. The Owner reserves the right to reject the Bid of any Bidder in accordance with the Public Bid Law, LSA-R.S. 38:2214. If the Contract is awarded, the Owner shall give the successful Bidder written notice of the award within forty-five (45) calendar days after

the opening of the Bids in conformance with LSA-R.S. 38:2215(A), or any extension as authorized thereunder.

- 03.02 At least three counterparts of the Agreement and of such other Contract Documents as practicable shall be signed by the Owner and the Contractor. The Owner shall identify those portions of the Contract Documents not so signed and such identification shall be binding on both parties. The Owner and the Contractor shall each receive an executed counterpart of the Contract Documents.
- 03.03 Prior to the execution of the Agreement, the Contractor shall deliver to the Owner the required Bonds.
- 03.04 Failure of the successful Bidder to execute the Agreement and deliver the required Bonds within twenty (20) days of the Notice of the Award shall be just cause for the Owner to annul the award and declare the Bid and any guarantee thereof forfeited.
- 03.05 In order to ensure the faithful performance of each and every condition, stipulation and requirement of the Contract and to indemnify and save harmless the Owner from any and all damages, either directly or indirectly arising out of any failure to perform same, the successful Bidder to whom the Contract is awarded shall furnish a surety Bond in an amount of at least equal to one hundred percent (100%) of the Contract Price. The Contract shall not be in force or binding upon the Owner until such satisfactory Bond has been provided to and approved by the Parish. The cost of the Bond shall be paid for by the Contractor unless otherwise stipulated in the Special Provisions.
- 03.06 No surety Company will be accepted as a bondsman who has no permanent agent or representative in the State upon whom notices referred to in the General Conditions of these Specifications may be served. Services of said notice on said agent or representative in the State shall be equal to service of notice on the President of the Surety Company, or such other officer as may be concerned.
- 03.07 In conformance with LSA-R.S. 38:2219(A)(1)(a), (b), and (c):

Any surety bond written for a public works project shall be written by a surety or insurance company currently on the U.S. Department of the Treasury Financial Management Service list of approved bonding companies which is published annually in the Federal Register, or by a Louisiana domiciled insurance company with at least an A- rating in the latest printing of the A.M. Best's Key Rating Guide, to write individual bonds up to ten percent of policyholders' surplus as shown in the A.M. Best's Key Rating Guide or by an insurance company that is either domiciled in Louisiana or owned by Louisiana residents and is licensed to write surety bonds.

For any public works project, no surety or insurance company shall write a bond which is in excess of the amount indicated as approved by the U.S. Department of the Treasury Financial Management Service list or by a Louisiana domiciled insurance company with an A- rating by A.M. Best up to a limit of ten percent of policyholders' surplus as shown by A.M. Best; companies authorized by this Paragraph who are not on the treasury list shall not write a bond when the penalty exceeds fifteen percent of its capital and surplus, such capital and surplus being the amount by which the company's assets exceed its liabilities as reflected by the most recent financial statements filed by the company with the Department of Insurance.

In addition, any surety bond written for a public works project shall be written by a surety or insurance company that is currently licensed to do business in the state of Louisiana. All contractors must comply with any other applicable provisions of LSA-R.S. 38:2219.

- 03.08 Should the Contractor's Surety, even though approved and accepted by the Owner, subsequently remove its agency or representative from the State or become insolvent, bankrupt, or otherwise fail, the Contractor shall immediately furnish a new Bond in another company approved by the Owner, at no cost to the Owner. The new Bond shall be executed under the same terms and conditions as the original Bond. The new bond shall be submitted within thirty (30) days of such time as the Owner notifies Contractor or from the time Contractor learns or has reason to know that the original surety is no longer financially viable or acceptable to the Parish, whichever occurs first. In the event that Contractor fails

or refuses to timely secure additional surety, then the Owner may secure such surety and thereafter deduct such cost or expense from any sum due or to become due Contractor.

- 03.09 The Contractor's bondsman shall obligate itself to all the terms and covenants of these Specifications and of contracts covering the Work executed hereunder. The Owner reserves the right to do Extra Work or make changes by altering, adding to deducting from the Work under the conditions and in the manner herein before described without notice to the Contractor's surety and without in any manner affecting the liability of bondsman or releasing it from any of its obligations hereunder.
- 03.10 The Bond shall also secure for the Owner the faithful performance of the Contract in strict accordance with plans and Specifications. It shall protect the Owner against all lien laws of the State and shall provide for payment of reasonable attorney fees for enforcement of Contract and institution or concursus proceedings, if such proceedings become necessary. Likewise, it shall provide for all additional expenses of the Owner occurring through failure of the Contractor to perform.
- 03.11 The surety of the Contractor shall be and does hereby declare and acknowledge itself by acceptance to be bound to the Owner as a guarantor, jointly and in solido, with the Contractor, for fulfillment of terms of Section 03.00.
- 03.12 The performance Bond and Labor and Material Bond forming part of this Contract shall be continued by Contractor and its Surety for a period of one (1) year from date of acceptance of this Contract by Owner to assure prompt removal and replacement of all defective material, equipment, components thereof, workmanship, etc., and to assure payment of any damage to property of Owner or others as a result of such defective materials, equipment, workmanship, etc.
- 03.13 Contractor shall pay for the cost of recording the Contract and Bond and the cost of canceling same. Contractor shall also secure and pay for all Clear Lien and Privilege Certificates (together with any updates) which will be required before any final payment is made, and that may be required before any payment, at the request of the Owner, its representative, agent, architect, engineer and the like. All recordation and Clear Lien and Privilege Certificate requirements shall be in accordance with those requirements noted herein before in contract Specifications.

#### 04.00 SUBCONTRACTS

- 04.01 Contractor shall be fully responsible for all acts and omissions of its Subcontractors and of persons and organizations for whose acts any of them may be liable to the same extent that it is responsible for the acts and omissions of persons directly employed by it. Nothing in the Contract Documents shall create any contractual relationship between Owner and any Subcontractor or other person or organization having a direct Contract with Contractor, nor shall it create any obligation on the part of the Owner to pay or to see to the payment of any monies due any Subcontractor.
- 04.02 Nothing in the Contract Documents shall be construed to control the Contractor in dividing the Work among approved Subcontractors or delineating the Work to be performed by any trade.
- 04.03 The Contractor agrees to specifically bind every Subcontractor to all of the applicable terms and conditions of the Contract Documents prior to commencing Work. Every Subcontractor, by undertaking to perform any of the Work, shall thereby automatically be deemed bound by such terms and conditions.
- 04.04 The Contractor shall indemnify and hold harmless the Owner and their agents and employees from and against all claims, damages, losses and expenses including Attorney's fees arising out of or resulting from the Contractor's failure to bind every Subcontractor and Contractor's surety to all of the applicable terms and conditions of the Contract Documents.

## 05.00 ASSIGNMENT

- 05.01 Neither party to this Contract shall assign or sublet its interest in this Contract without prior written consent of the other, nor shall the Contractor assign any monies due or to become due to it under this Contract without previous written consent of the Owner, nor without the consent of the surety unless the surety has waived its right to notice of assignment.

## 06.00 CORRELATION, INTERPRETATION AND INTENT OF CONTRACT DOCUMENTS.

- 06.01 It is the intent of the Specifications and Drawings to describe a complete Project to be constructed in accordance with the Contract Documents. The Contract Documents comprise the entire Agreement between Owner and Contractor. Alterations, modifications and amendments shall only be in writing between these parties.
- 06.02 The Contract Documents are intended to be complimentary and to be read *in pari materii*, and what is called for by one is as binding as if called for by all. If Contractor finds a conflict, error or discrepancy in the Contract Documents, it shall call it to the Owner's attention, in writing, at once and before proceeding with the Work affected thereby; however, it shall be liable to Owner for its failure to discover any conflict, error or discrepancy in the Specifications or Drawings. In resolving such conflicts, errors and discrepancies, the documents shall be given precedence in the following order: Agreement, Modifications, Addenda, Special Conditions, General Conditions, Construction Specifications and Drawings. The general notes on the plans shall be considered special provisions. Figure dimensions on Drawings shall govern over scale dimensions and detail Drawings shall govern over general Drawings. Where sewer connections are shown to fall on a lot line between two lots, the Contractor shall determine this location by measurement not by scale. Any Work that may reasonably be inferred from the Specifications or Drawings as being required to produce the intended result shall be supplied whether or not it is specifically called for. Work, materials or equipment described herein which so applied to this Project are covered by a well-known technical meaning or specification shall be deemed to be governed by such recognized standards unless specifically excluded.
- 06.03 Unless otherwise provided in the Contract Documents, the Owner will furnish to the Contractor (free of charge not to exceed ten (10) copies) Drawings and Specifications for the execution of Work. The Drawings and Specifications are the property of the Owner and are to be returned to it when the purpose for which they are intended have been served. The Contractor shall keep one copy of all Drawings and Specifications, including revisions, Addenda, details, Shop Drawings, etc. on the Work in good order and available to the Owner or the regulatory agency of the governmental body having jurisdiction in the area of the Work.

## 07.00 SHOP DRAWINGS, BROCHURES AND SAMPLES

- 07.01 After checking and verifying all field measurements, Contractor shall submit to Owner for approval, five copies (or at Owner's option, one reproducible copy) of all Shop Drawings, which shall have been checked by and stamped with the approval of Contractor and identified as Owner may require. The data shown on the Shop Drawings will be complete with respect to dimensions, design criteria, materials of construction and the like to enable Owner to review the information as required.
- 07.02 Contractor shall also submit to Owner, for review with such promptness as to cause no delay in Work, all samples as required by the Contract Documents. All samples will have been checked by and stamped with the approval of Contractor identified clearly as to material, manufacturer, any pertinent catalog numbers and the use for which intended. At the time of each submission, Contractor shall in writing call Owner's attention to any deviations that the Shop Drawings or samples may have from the requirements of the Contract Documents.
- 07.03 Owner will review with reasonable promptness Shop Drawings and samples, but its review shall be only for conformance with the design concept of the Project and for compliance with the information given in the Contract Documents. The review of a separate item as such will not indicate approval of the assembly in which the item functions. Contractor shall make any corrections required by Owner and shall return the required number of

corrected copies of Shop Drawings and resubmit new samples for review. Contractor shall direct specific attention in writing or on resubmitted Shop Drawings to revisions other than the corrections called for by Owner on previous submissions. Contractor's stamp of approval on any Shop Drawing or sample shall constitute a representation to Owner that Contractor has determined and verified all quantities, dimensions, field construction criteria, materials catalog numbers and similar data and thereafter assumes full responsibility for doing so, and that it has reviewed or coordinated each Shop Drawing or sample with the requirements of the Work and the Contract Documents.

- 07.04 Where a Shop Drawing or sample submission is required by the Specifications, no related Work shall be commenced until the submission has been reviewed by Owner. A copy of each reviewed shop Drawing and each inspected sample shall be kept in good order by Contractor at the site and shall be available to Owner.
- 07.05 Owner's review of Shop Drawings or samples shall not relieve Contractor from its responsibility for any deviations from the requirements of the Contract Documents unless Contractor has in writing called Owner's attention to such deviation at the time of submission and Owner has given written approval to the specific deviation, nor shall any review by Owner relieve Contractor from responsibility for errors or omissions in the Shop Drawings. The mere submittal of shop drawings which contain deviations from the requirements of plans, specifications and/or previous submittals in itself does not satisfy this requirement.

#### 08.00 RECORD DRAWINGS

- 08.01 The Contractor shall keep an accurate record in a manner approved by the Owner of all changes in the Contract Documents during construction. In Work concerning underground utilities, the Contractor shall keep an accurate record in a manner approved by the Owner of all valves, fittings, etc. Before the Work is accepted by the Owner, and said acceptance is recorded, the Contractor shall furnish the Owner a copy of this record.
- 08.02 Contractor shall keep an accurate drawing measured in the field to the nearest 0.1' of the location of all sewer house connections. The location shown shall be the end of the connection at the property line measured along the main line of pipe from a manhole.
- 08.03 Contractor shall keep an accurate drawing of the storm water drainage collection system. Inverts to the nearest 0.01' and top of castings shall be shown as well as location of all structures to the nearest 0.1'. Upon completion of the Work, the plan will be given to the Owner.

#### 09.00 PROGRESS OF WORK

- 09.01 Contractor shall conduct the Work in such a professional manner and with sufficient materials, equipment and labor as is considered necessary to ensure its completion within the time limit specified.
- 09.02 The Owner shall issue a Notice to Proceed to the Contractor within twenty (20) calendar days from the date of execution of the Contract. Upon mutual consent by both parties, the Notice to Proceed may be extended. The Contractor is to commence Work under the Contract within ten (10) calendar days from the date the Notice to Proceed is issued by the Owner.
- 09.03 The Contractor, immediately after being awarded the Contract, shall prepare and submit for the Owner's approval an estimated progress schedule for the work to be performed, as well as a construction signing layout for all roads within the project area. The Contractor shall not start work or request partial payment until the work schedule has been submitted to the Owner for approval.
- 09.04 Revisions to the original schedule will be made based on extension of days granted for inclement weather or change orders issued under the contract. No other revision shall be made which affects the original completion or updated completion date, whichever is applicable.

- 09.05 Failure of the Contractor to submit an estimated progress schedule or to complete timely and on schedule the Work shown on the progress schedule negates any and all causes or claims by the Contractor for accelerated completion damages. These accelerated damage claims shall be deemed forfeited.
- 09.06 Meetings will be held as often as necessary to expedite the progress of the job. Meetings will be held during normal working hours at the jobsite and shall be mandatory for the Contractor and all Sub-Contractors working on the project. Meetings may be requested by the Owner at any time and at the discretion of the Owner.

#### 10.00 OWNER'S RIGHT TO PROCEED WITH PORTIONS OF THE WORK

- 10.01 Upon failure of the Contractor to comply with any notice given in accordance with the provisions hereof, the Owner shall have the alternative right, instead of assuming charge of the entire Work, to place additional forces, tools, equipment and materials on parts of the Work. The cost incurred by the Owner in carrying on such parts of the Work shall be payable by the Contractor. Such Work shall be deemed to be carried on by the Owner on account of the Contractor. The Owner may retain all amounts of the cost of such Work from any sum due Contractor or those funds that may become due to Contractor under this Agreement.
- 10.02 Owner may perform additional Work related to the Project by itself or it may let any other direct contract which may contain similar General Conditions. Contractor shall afford the other contractors who are parties to such different contracts (or Owner, if it is performing the additional Work itself) reasonable opportunity for the introduction and storage of materials and equipment and the execution of Work, and shall properly connect and coordinate its Work with the subsequent work.
- 10.03 If any part of Contractor's Work depends upon proper execution or results upon the Work of any such other contractor (or Owner), Contractor shall inspect and promptly report to Owner in writing any defects or deficiencies in such Work that render it unsuitable for such proper execution and results. Failure to so report shall constitute an acceptance of the other Work as fit and proper for the relationship of its Work except as to defects and deficiencies which may appear in the other Work after the execution of its Work.
- 10.04 Whatever Work is being done by the Owner, other Contractors or by this Contractor, the parties shall respect the various interests of the other parties at all times. The Owner may, at its sole discretion, establish additional rules and regulations concerning such orderly respect of the rights of various interests.
- 10.05 Contractor shall do all cutting, fitting and patching of its Work that may be required to integrate its several parts properly and fit to receive or be received by such other Work. Contractor shall not endanger any Work of others by cutting, excavating or otherwise altering Work and will only alter Work with the written consent of Owner and of the other contractors whose Work will be affected.
- 10.06 If the performance of additional Work by other contractors or Owner is not noted in the Contract Documents, written notice thereof shall be given to Contractor prior to starting any such additional Work. If Contractor believes that the performance of such additional Work by Owner or others may cause additional expense or entitles an extension of the Contract Time, the Contractor may make a claim therefor. The claim must be in writing to the Owner within thirty (30) calendar days of receipt of notice from the Owner of the planned additional Work by others.

#### 11.00 TIME OF COMPLETION

- 11.01 The Notice to Proceed will stipulate the date on which the Contractor shall begin work. That date shall be the beginning of the Contract Time charges.
- 11.02 Contractor shall notify the Owner through its duly authorized representative, in advance, of where Contractor's work shall commence each day. A daily log shall be maintained by Contractor to establish dates, times, persons contacted, and location of work. Specific notice shall be made to the Owner if the Contractor plans to work on Saturday, Sunday, or

a Parish approved holiday. If notice is not received, no consideration will be given for inclement weather and same shall be considered a valid work day.

- 11.03 The Work covered by the Plans, Specifications and Contract Documents must be completed sufficiently for acceptance within the number of calendar days specified in the Proposal and/or the Contract, commencing from the date specified in the Notice to Proceed. It is hereby understood and mutually agreed, by and between the Contractor and the Owner, that the time of completion is an essential condition of this Contract, and it is further mutually understood and agreed that if the Contractor shall neglect, fail or refuse to complete the Work within the time specified, or any proper extension thereof granted by the Owner, then the Contractor does hereby agree, as partial consideration for the awarding of this Contract, to pay the Owner based on **Table 3.1** as specified in the Contract, not as a penalty, but as liquidated damages for such breach of contract for each and every calendar day that the Contractor shall be in default after the time stipulated in the Contract for completing the Work. It is specifically understood that the Owner shall also be entitled to receive a reasonable attorney fee and all costs in the event that Contractor fails to adhere to this agreement and this contract is referred to counsel for any reason whatsoever. Reasonable attorney fees shall be the prevailing hourly rate of the private sector, and in no event shall the hourly rate be less than \$175.00 per hour. All attorney fees shall be paid to the operating budget of the Office of the Parish President.
- 11.04 Prior to final payment, the Contractor may, in writing to the Owner, certify that the entire Project is substantially complete and request that the Owner or its agent issue a certificate of Substantial Completion. See Section 29.00.
- 11.05 The Owner may grant an extension(s) of time to the Contractor for unusual circumstances which are beyond the control of the Contractor and could not reasonably be foreseen by the Contractor prior to Bidding. Any such request must be made in writing to the Owner within seven (7) calendar days following the event occasioning the delay. The Owner shall have the exclusive and unilateral authority to determine, grant, and/or deny the validity of any such claim.
- 11.06 Extensions of time for inclement weather shall be processed as follows:

Commencing on the start date of each job, the Parish Inspector assigned to same shall keep a weekly log, indicating on each day whether inclement weather has prohibited the Contractor from working on any project within the specific job, based upon the following:

1. Should the Contractor prepare to begin work on any day in which inclement weather, or the conditions resulting from the weather, prevent work from beginning at the usual starting time, and the crew is dismissed as a result, the Contractor will not be charged for a working day whether or not conditions change during the day and the rest of the day becomes suitable for work.
2. If weather conditions on the previous day prevent Contractor from performing work scheduled, provided that no other work can be performed on any project within the package. The Parish Inspector shall determine if it is financially reasonable to require the Contractor to deviate from the schedule and relocate to another location.
3. If the Contractor is unable to work at least 60% of the normal work day due to inclement weather, provided that a normal working force is engaged on the job.

Any dispute of weather conditions as related to a specific job shall be settled by records of the National Weather Service.

11.07 Extensions of time for change orders

When a change order is issued, the Owner and Contractor will agree on a reasonable time extension, if any, to implement such change. Consideration shall be given for, but not limited to, the following:

1. If material has to be ordered;
2. Remobilization and or relocation of equipment to perform task; and
3. Reasonable time frame to complete additional work.

Time extensions for change orders shall be reflected on the official document signed by the Owner and Contractor.

- 11.08 At the end of each month, the Owner or its agent will furnish to the Contractor a monthly statement which reflects the number of approved days added to the contract. The Contractor will be allowed fourteen (14) calendar days in which to file a written protest setting forth in what respect the monthly statement is incorrect; otherwise, the statement shall be considered accepted by the Contractor as correct.
- 11.09 Apart from extension of time for unavoidable delays, no payment or allowance of any kind shall be made to the Contractor as compensation for damages because of hindrance or delay for any cause in the progress of the Work, whether such delay be avoidable or unavoidable.

## 12.00 LIQUIDATED DAMAGES

- 12.01 In case the Work is not completed in every respect within the time that may be extended, it is understood and agreed that per diem deductions per **Table 3.1** for liquidated damages, as stipulated in the Proposal and/or Contract, shall be made from the total Contract Price for each and every calendar day after and exclusive of the day on which completion was required, and up to the completion of the Work and acceptance thereof by the Owner. It is understood and agreed that time is of the essence to this Contract, and the above sum being specifically herein agreed upon in advance as the measure of damages to the Owner on account of such delay in the completion of the Work. It is further agreed that the expiration of the term herein assigned or as may be extended for performing the Work shall, *ipso facto*, constitute a putting in default, the Contractor hereby waiving any and all notice of default. The Contractor agrees and consents that the Contract Price, reduced by the aggregate of the entire damages so deducted, shall be accepted in full satisfaction of all Work executed under this Contract. It is further understood and agreed that Contractor shall be liable for a reasonable attorney fee and all costs associated with any breach of this agreement, including but not limited to this subsection. In the event that any dispute or breach herein causes referrals to counsel, then Contractor agrees to pay a reasonable attorney fee at the prevailing hourly rate of the private sector. In no event shall the hourly rate be less than \$175.00 per hour.

## 13.00 LABOR, MATERIALS, EQUIPMENT, SUPERVISION, PERMITS AND TAXES

- 13.01 The Contractor shall provide and pay for all labor, materials, equipment, supervision, subcontracting, transportation, tools, fuel, power, water, sanitary facilities and all incidentals necessary for the completion of the Work in substantial conformance with the Contract Documents.
- 13.02 The Contractor shall provide competent, suitably qualified personnel to survey and lay out the Work and perform construction as required by the Contract Documents. It shall at all times maintain good discipline and order at the site.
- 13.03 Unless otherwise specifically provided for in the Specifications, all workmanship, equipment, materials, and articles incorporated in the Work covered by this Contract are to be new and of the best grade of their respective kinds for the purpose intended. Samples of materials furnished under this Contract shall be submitted for approval to the Owner when and as directed.
- 13.04 Whenever a material or article required is specified or shown on the plans by using the name of a proprietary product or of a particular manufacturer or Contractor, any material or article which shall perform adequately the duties imposed by the general design will be considered equal, and satisfactory, providing the material or article so proposed is of equal substance and function and that all technical data concerning the proposed substitution be approved by the Owner prior to the Bidding. The Owner shall have the exclusive and unilateral discretion to determine quality and suitability in accordance with LSA-R.S. 38:2212(T)(2).



- 13.05 Materials shall be properly and securely stored so as to ensure the preservation of quality and fitness for the Work, and in a manner that leaves the material accessible to inspection. Materials or equipment may not be stored on the site in a manner such that it will interfere with the continued operation of streets and driveways or other contractors working on the site.
- 13.06 The Contractor, by entering into the Contract for this Work, sets itself forth as an expert in the field of construction and it shall supervise and direct the Work efficiently and with its best skill and attention. It shall be solely responsible for the means, methods, techniques, sequences and procedures of construction.
- 13.07 Contractor shall keep on the Work, at all times during its progress, a competent resident Superintendent, who shall not be replaced without written Notice to Owner except under extraordinary circumstances. The Superintendent will be Contractor's representative at the site and shall have authority to act on behalf of Contractor. All communications given to the Superintendent shall be as binding as if given to the Contractor. Owner specifically reserves the right to approve and/or disapprove the retention of a new superintendent, all to not be unreasonably withheld.
- 13.08 Any foreman or workman employed on this Project who disregards orders or instructions, does not perform his Work in a proper and skillful manner, or is otherwise objectionable, shall, at the written request of the Owner, be removed from the Work and shall be replaced by a suitable foreman or workman.
- 13.09 The Contractor and/or its assigned representative shall personally ensure that all subcontracts and divisions of the Work are executed in a proper and workmanlike manner, on scheduled time, and with due and proper cooperation.
- 13.10 Failure of the Contractor to keep the necessary qualified personnel on the Work shall be considered cause for termination of the Contract by the Owner.
- 13.11 Only equipment in good working order and suitable for the type of Work involved shall be brought onto the job and used by the Contractor. The Contractor is solely responsible for the proper maintenance and use of its equipment and shall hold the Owner harmless from any damages or suits for damages arising out of the improper selection or use of equipment. No piece of equipment necessary for the completion of the Work shall be removed from the job site without approval of the Owner.
- 13.12 All Federal, State and local taxes due or payable during the time of Contract on materials, equipment, labor or transportation, in connection with this Work, must be included in the amount bid by the Contractor and shall be paid to proper authorities before acceptance. The Contractor shall furnish all necessary permits and certificates and comply with all laws and ordinances applicable to the locality of the Work. The cost of all inspection fees levied by any governmental entity whatsoever shall be paid for by the Contractor.
- 13.13 In accordance with St. Tammany Police Jury Resolution 86-2672, as amended, the Contractor must provide in a form suitable to the Owner an affidavit stating that all applicable sales taxes for materials used on this project have been paid.
- 13.14 During the period that this Contract is in force, neither party to the Contract shall solicit for employment or employ an employee of the other.
- 13.15 All materials or equipment shown on the Drawings or included in these specifications shall be furnished unless written approval of a substitute is obtained from the Designer, or Owner if no separate designer.
- 13.16 If a potential supplier wishes to submit for prior approval a particular product other than a product specified in the contract documents, he shall do so no later than fourteen working days prior to the opening of bids. Within ten days, exclusive of holidays and weekends, after such submission, the prime design professional shall furnish to both the public entity and the potential supplier written approval or denial of the product submitted. The burden of proof of the equality of the proposed substitute is upon the proposer and only that information formally submitted shall be used by the Designer in making its decision.

13.17 The decision of the Designer/Owner shall be given in good faith and shall be final.

14.00 QUANTITIES OF ESTIMATE, CHANGES IN QUANTITIES, EXTRA WORK

- 14.01 Whenever the estimated quantities of Work to be done and materials to be furnished under this Contract are shown in any of the documents, including the Proposal, such are given for use in comparing Bids and the right is especially reserved, except as herein otherwise specifically limited, to increase or diminish same not to exceed twenty-five percent (25%) by the Owner to complete the Work contemplated by this Contract. Such increase or diminution shall in no way vitiate this Contract, nor shall such increase or diminution give cause for claims or liability for damages.
- 14.02 The Owner shall have the right to make alterations in the line, grade, plans, form or dimensions of the Work herein contemplated, provided such alterations do not change the total cost of the Project, based on the originally estimated quantities, and the unit prices bid by more than twenty-five percent (25%) and provided further that such alterations do not change the total cost of any major item, based on the originally estimated quantities and the unit price bid by more than twenty-five (25%). (A major item shall be construed to be any item, the total cost of which is equal to or greater than ten percent (10%) of the total Contract Price, computed on the basis of the Proposal quantity and the Contract unit price). Should it become necessary, for the best interest of the Owner, to make changes in excess of that herein specified, the same shall be covered by supplemental agreement either before or after the commencement of the Work and without notice to the sureties. If such alterations diminish the quantity of Work to be done, such shall not constitute a claim for damages for anticipated profits for the Work dispensed with, but when the reduction in amount is a material part of the Work contemplated, the Contractor shall be entitled to only reasonable compensation as determined by the Owner for overhead and equipment charges which it may have incurred in expectation of the quantity of Work originally estimated, unless specifically otherwise provided herein; if the alterations increase the amount of Work, the increase shall be paid according to the quantity of Work actually done and at the price established for such Work under this Contract except where, in the opinion of the Owner, the Contractor is clearly entitled to extra compensation.
- 14.03 Without invalidating the Contract, the Owner may order Extra Work or make changes by altering, adding to, or deducting from the Work, the Contract sum being adjusted accordingly. The consent of the surety must first be obtained when necessary or desirable, all at the exclusive discretion of the Owner. All the Work of the kind bid upon shall be paid for at the price stipulated in the Proposal, and no claims for any Extra Work or material shall be allowed unless the Work is ordered in writing by the Owner.
- 14.04 Extra Work for which there is no price or quantity included in the Contract shall be paid for at a unit price or lump sum to be agreed upon in advance in writing by the Owner and Contractor. Where such price and sum cannot be agreed upon by both parties, or where this method of payment is impracticable, the Owner may, at its exclusive and unilateral discretion, order the Contractor to do such Work on a Force Account Basis.
- 14.05 In computing the price of Extra Work on a Force Account Basis, the Contractor shall be paid for all foremen and labor actually engaged on the specific Work at the current local rate of wage for each and every hour that said foremen and labor are engaged in such Work, plus ten percent (10%) of the total for superintendence, use of tools, overhead, direct & indirect costs/expenses, pro-rata applicable payroll taxes, pro-rata applicable workman compensation benefits, pro-rata insurance premiums and pro-rata reasonable profit. The Contractor shall furnish satisfactory evidence of the rate or rates of such insurance and tax. The Contractor will not be able to collect any contribution to any retirement plans or programs.
- 14.06 For all material used, the Contractor shall receive the actual cost of such material delivered at the site of the Work, as shown by original receipted bill, to which shall be added five percent (5%). There will be absolutely no additional surcharges or additional fees attached hereto with respect to this subsection.
- 14.07 For any equipment used that is owned by the Contractor, the Contractor shall be allowed a rental based upon the latest prevailing rental price, but not to exceed a rental price as determined by the Associated Equipment Distributors (A.E.D. Green Book).

- 14.08 The Contractor shall also be paid the actual costs of transportation for any equipment which it owns and which it has to transport to the Project for the Extra Work. There will be absolutely no additional surcharges or additional fees attached hereto with respect to this subsection.
- 14.09 If the Contractor is required to rent equipment for Extra Work, but not required for Contract items, it will be paid the actual cost of rental and transportation of such equipment to which no percent shall be added. The basis upon which rental cost are to be charged shall be agreed upon in writing before the Work is started. Actual rental and transportation costs shall be obtained from receipted invoices and freight bills.
- 14.10 No compensation for expenses, fees or costs incurred in executing Extra Work, other than herein specifically mentioned herein above, will be allowed.
- 14.11 A record of Extra Work on Force Account basis shall be submitted to the Owner on the day following the execution of the Work, and no less than three copies of such record shall be made on suitable forms and signed by both the Owner or his representative on the Project and the Contractor. All bids for materials used on extra Work shall be submitted to the Owner by the Contractor upon certified statements to which will be attached original bills covering the costs of such materials.
- 14.12 Payment for Extra Work of any kind will not be allowed unless the same has been ordered in writing by the Owner.

15.00 STATUS OF THE ENGINEER (NOT APPLICABLE)

16.00 INJURIES TO PERSONS AND PROPERTY

- 16.01 The Contractor shall be held solely and exclusively responsible for all injuries to persons and for all damages to the property of the Owner or others caused by or resulting from the negligence of itself, its employees or its agents, during the progress of or in connection with the Work, whether within the limits of the Work or elsewhere under the Contract proper or as Extra Work. This requirement will apply continuously and not be limited to normal working hours or days. The Owner's construction review is for the purpose of checking the Work product produced and does not include review of the methods employed by the Contractor or to the Contractor's compliance with safety measures of any nature whatsoever. The Contractor agrees to pay a reasonable attorney fee and other reasonable attendant costs of the Owner in the event it becomes necessary for the Owner to employ an attorney to enforce this section or to protect itself against suit over the Contractor's responsibilities. Attorney fees shall be at the prevailing hourly rate of the private sector. The attorney fee hourly rate shall not be less than \$175.00 per hour. All attorney fees collected shall be paid to the operating budget of the Office of the Parish President.
- 16.02 The Contractor must protect and support all utility infrastructures or other properties which are liable to be damaged during the execution of its Work. It shall take all reasonable and proper precautions to protect persons, animals and vehicles or the public from the injury, and wherever necessary, shall erect and maintain a fence or railing around any excavation, and place a sufficient number of lights about the Work and keep same burning from twilight until sunrise, and shall employ one or more watchmen as an additional security whenever needed. The Contractor understands and agrees that the Owner may request that security be placed on the premises to ensure and secure same. The Owner shall have exclusive authority to request placement of such security. Contractor agrees to retain and place security as requested, all at the sole expense of Contractor. Additional security shall not be considered a change order or reason for additional payment by the Owner. The Contractor must, as far as practicable and consistent with good construction, permit access to private and public property and leave fire hydrants, catch basins, streets, etc., free from encumbrances. The Contractor must restore at its own expense all injured or damaged property caused by any negligent act of omission or commission on its part or on the part of its employees or subcontractors, including, but not limited to, sidewalks, curbing, sodding, pipes conduits, sewers, buildings, fences, bridges, retaining walls, tanks, power lines, levees or any other building or property whatsoever to a like condition as existed prior to such damage or injury.

- 16.03 In case of failure on the part of the Contractor to restore such property or make good such damage, the Owner may upon forty-eight (48) hours' notice proceed to repair or otherwise restore such property as may be deemed necessary, and the cost thereof will be deducted from any monies due or which may become due under its Contract.
- 16.04 Contractor agrees to protect, defend, indemnify, save, and hold harmless St. Tammany Parish Government, its elected and appointed officials, departments, agencies, boards and commissions, their officers, agents servants, employees, including volunteers, from and against any and all claims, demands, expense and liability arising out of injury or death to any person or the damage, loss or destruction of any property to the extent caused by any negligent act or omission or willful misconduct of Contractor, its agents, servants, employees, and subcontractors, or any and all costs, expense and/or attorney fees incurred by St. Tammany Parish Government as a result of any claim, demands, and/or causes of action that results from the negligent performance or non-performance by Contractor, its agents, servants, employees, and subcontractors of this contract. Contractor agrees to investigate, handle, respond to, provide defense for and defend any such claims, demand, or suit at its sole expense and agrees to bear all other costs and expenses related thereto caused by any negligent act or omission or willful misconduct of Contractor, its agents, servants, employees, and subcontractors.
- 16.05 As to any and all claims against Owner, its agents, assigns, representatives or employees by any employee of Contractor, any Subcontractor, anyone directly or indirectly employed by any of them or anyone for whose acts as may be liable, the indemnification obligation under Paragraph 16.04 shall not be limited in any way or by any limitation on the amount or type of damages, compensation or benefits payable by or for Contractor or any Subcontractor under workmen's compensation acts, disability benefit acts or other employee benefit acts.
- 16.06 No road shall be closed by the Contractor to the public except by written permission of the Owner. If so closed, the Contractor shall maintain traffic over, through and around the Work included in his Contract, with the maximum practical convenience, for the full twenty-four hours of each day of the Contract, whether or not Work has ceased temporarily. The Contractor shall notify the Owner at the earliest possible date after the Contract has been executed and, in any case, before commencement of any construction that might in any way inconvenience or endanger traffic, in order that necessary and suitable arrangements may be determined. Any and all security, maintenance, labor or costs associated with traffic control herein shall be at the sole expense of Contractor. This expense shall be paid directly by the Contractor. This expense shall not be considered as a change order nor shall it allow the Contractor any additional cost reimbursement whatsoever. All traffic deviations herein shall be coordinated with the appropriate law enforcement officials of this Parish.
- 16.07 The convenience of the general public and residents along the Works shall be provided for in a reasonable, adequate and satisfactory manner. Where existing roads are not available as detours, and unless otherwise provided, all traffic shall be permitted to pass through the Work. In all such cases, the public shall have precedence over Contractor's vehicles insofar as the traveling public's vehicles shall not be unduly delayed for the convenience of the Contractor. In order that all unnecessary delay to the traveling public may be avoided, the Contractor shall provide and station competent flagmen whose sole duties shall consist of directing and controlling the movement of public traffic either through or around the Work. Any and all security, maintenance, labor or costs associated with traffic control herein shall be at the sole expense of Contractor. This expense shall be paid directly by the Contractor. This expense shall not be considered as a change order nor shall it allow the Contractor any additional cost reimbursement whatsoever. All traffic deviations herein shall be coordinated with the appropriate law enforcement officials of this Parish.
- 16.08 The Contractor shall arrange its Work so that no undue or prolonged blocking of business establishments will occur.
- 16.09 Material and equipment stored on the right of way or work site shall be so placed and the Work at times shall be so conducted as to ensure minimum danger and obstruction to the traveling public.
- 16.10 During grading operations when traffic is being permitted to pass through construction, the Contractor shall provide a smooth, even surface that will provide a satisfactory passageway

for use of traffic. The road bed shall be sprinkled with water if necessary to prevent a dust nuisance, provided the dust nuisance is a result of the Work.

- 16.11 Fire hydrants shall be accessible at all times to the Fire Department. No material or other obstructions shall be placed closer to a fire hydrant than permitted by ordinances, rules or regulations or within fifteen (15) feet of a fire hydrant, in the absence of such ordinance, rules or regulations.
- 16.12 The Contractor shall not, without the written permission of the Owner, do Work for a resident or property owner abutting the Work at the time that this Work is in progress.
- 16.13 No Work of any character shall be commenced on railroad right-of-way until the Railroad Company has issued a permit to the Owner and has been duly notified by the Contractor in writing (with a copy forwarded to the Owner) of the date it proposes to begin Work, and until an authorized representative of the Railroad Company is present, unless the Railroad Company waives such requirements. All Work performed by the Contractor within the right-of-way limits of the railroad shall be subject to the inspection and approval of the chief engineer of the Railroad Company or its authorized representative. Any precautions considered necessary by said chief engineer to safeguard the property, equipment, employees and passengers of the Railroad Company shall be taken by the Contractor without extra compensation. The Contractor shall, without extra compensation, take such precautions and erect and maintain such tell-tale or warning devices as the Railroad Company considers necessary to safeguard the operation of its trains. The temporary vertical and horizontal clearance specified by the chief engineer of the Railroad Company in approving these shall be maintained at all times. No steel, brick, pipe or any loose material shall be left on the ground in the immediate vicinity of the railway track. Before any Work is done within Railroad right of way, the Contractor shall provide and pay all costs of any special insurance requirements of the Railroad.
- 16.14 The Contractor, shall, without extra compensation, provide, erect, paint and maintain all necessary barricades. Also, without extra compensation, the Contractor shall provide suitable and sufficient lights, torches, reflectors or other warning or danger signals and signs, provide a sufficient number of watchmen and flagmen and take all the necessary precautions for the protection of the Work and safety of the Public.
- 16.15 The Contractor shall erect warning signs beyond the limits of the Project, in advance of any place on the Project where operations interfere with the use of the road by traffic, including all intermediate points where the new Work crosses or coincides with the existing road. All barricades and obstructions shall be kept well painted and suitable warning signs shall be placed thereon. All barricades and obstructions shall be illuminated at night and all lights or devices for this purpose shall be kept burning from sunset to sunrise.
- 16.16 Whenever traffic is maintained through or over any part of the Project, the Contractor shall clearly mark all traffic hazards. No direct payment will be made for barricades, signs and illumination therefore or for watchmen or flagmen.
- 16.17 The Contractor will be solely and completely responsible for conditions on the job site, including safety of all persons and property during performance of the Work. This requirement will apply continuously and not be limited to normal working hours. The duty of the Owner to conduct construction review of the Contractor's performance is not intended to include review of the adequacy of the Contractor's safety measures, in, or near the construction site.

#### 17.00 SANITARY PROVISIONS

- 17.01 The Contractor shall provide and maintain in a neat, sanitary condition such accommodations for the use of its employees as may be necessary to comply with the rules and regulations of the State Health Agency or of the other authorities having jurisdiction and shall permit no public nuisance.

#### 18.00 RIGHTS OF WAY

- 18.01 The Owner will furnish the Contractor with all necessary rights-of-way for the prosecution of the Work. The rights of way herein referred to shall be taken to mean only permission to use or pass through the locations or space in any street, highway, public or private property in which the Contractor is to prosecute the Work.
- 18.02 It is possible that all lands and rights of way may not be obtained as herein contemplated before construction begins, in which event the Contractor shall begin its Work upon such land and rights of way as the Owner may have previously acquired. Any delay in furnishing these lands by the Owner can be deemed proper cause for adjustment in the Contract amount and/or in the time of completion.

19.00 PROTECTION AND RESTORATION OF PROPERTY AND LANDSCAPE

- 19.01 The Contractor shall not enter upon private property for any purpose without first obtaining permission from the Owner, as well as the private property owner and/or and private property Lessees. The Contractor shall use every precaution necessary for the preservation of all public and private property, monuments, highway signs, telephone lines, other utilities, etc., along and adjacent to the Work; the Contractor shall use every precaution necessary to prevent damage to pipes, conduits, and other underground structures; and shall protect carefully from disturbance or damage all land monuments and property marks until an authorized agent has witnessed or otherwise referenced their location and shall not remove them until directed. The street and highway signs and markers that are to be affected by the Work shall be carefully removed when the Work begins and stored in a manner to keep them clean and dry. The Contractor must obtain all necessary information in regard to existing utilities and shall give notice in writing to the owners or the proper authorities in charge of streets, gas, water, pipes, electric, sewers and other underground structures, including conduits, railways, poles and pole lines, manholes, catch basins, fixtures, appurtenances, and all other property that may be affected by the Contractor's operations, at least forty-eight (48) hours before its operations will affect such property. The Contractor shall not hinder or interfere with any person in the protection of such Work or with the operation of utilities at any time. When property, the operation of railways, or other public utilities are endangered, the Contractor shall at its own expense, maintain flagmen or watchmen and any other necessary precautions to avoid interruption of service or damage to life or property, and it shall promptly repair, restore, or make good any injury or damage caused by its negligent operations in an acceptable manner. The Contractor must also obtain all necessary information in regard to the installation of new cables, conduits, and transformers, and make proper provisions and give proper notifications, in order that same can be installed at the proper time without delay to the Contractor or unnecessary inconvenience to the Owner.
- 19.02 The Contractor shall not remove, cut or destroy trees, shrubs, plants, or grass that are to remain in the streets or those which are privately owned, without the proper authority. Unless otherwise provided in the Special Provisions or the Proposal, the Contractor shall replace and replant all plants, shrubs, grass and restore the grounds back to its original good condition to the satisfaction of the Owner and/or the property owner. The Contractor shall assume the responsibility of replanting and guarantees that plants, shrubs, grass will be watered, fertilized and cultivated until they are in a growing condition. No direct payment will be made for removing and replanting of trees, shrubs, plants or grass unless such items are set forth in the Proposal.
- 19.03 When or where direct damage or injury is done to public or private property by or on account of any negligent act, omission, neglect or otherwise of the Contractor, it shall make good such damage or injury in an acceptable manner.

20.00 CONTRACTORS RESPONSIBILITY FOR WORK

- 20.01 Until final acceptance of the Work by the Owner as evidence by approval of the final estimate, the Work shall be in the custody and under the charge and care of the Contractor and it shall take every necessary precaution against injury or damage to any part thereof by the action of the elements or from the non-execution of the Work; unless otherwise provided for elsewhere in the Specifications or Contract. The Contractor shall rebuild, repair, restore and make good, without extra compensation, all injuries or damages to any portion of the Work occasioned by any of the above causes before its completion and

acceptance, and shall bear the expenses thereof. In case of suspension of the Work from any cause whatever, the Contractor shall be responsible for all materials and shall properly and securely store same, and if necessary, shall provide suitable shelter from damage and shall erect temporary structures where necessary. If in the exclusive discretion of the Owner, any Work or materials shall have been damaged or injured by reason of failure on the part of the Contractor or any of its Subcontractors to so protect the Work, such materials shall be removed and replaced at the sole expense of the Contractor. Such amount shall be deducted from any sum due or to be due Contractor.

- 20.02 The Contractor shall give all notice and comply with all Federal, State, and local laws, ordinances, and regulations in any manner affecting the conduct of the Work, and all such orders and decrees as exist, or may be enacted by bodies or tribunals having any jurisdiction or authority over the Work, and shall indemnify and hold harmless the Owner against any claim or liability arising from, or based on, the violation of any such law, ordinance, regulation, order or decree, whether by itself, its employees or Subcontractors.

21.00 TESTS AND INSPECTIONS CORRECTION & REMOVAL OF DEFECTIVE WORK

- 21.01 Contractor warrants and guarantees to Owner that all materials and equipment will be new unless otherwise specified and that all Work will be of good quality and free from faults or defects and in accordance with the requirements of the Contract Documents. All unsatisfactory Work, all faulty or Defective Work and all Work not conforming to the requirements of the Contract Documents at the time of acceptance shall be considered Defective. Prompt and reasonable notice of all defects shall be given to the Contractor.
- 21.02 If the Contract Documents, laws, ordinances, rules, regulations or orders of any public authority having jurisdiction require any Work to specifically be inspected, tested or approved by some public body, Contractor shall assume full responsibility therefor, pay all costs in connection therewith and furnish Owner the required certificates of inspection, testing or approval. All other inspections, tests and approval required by the Contract Documents shall be performed by organizations acceptable to Owner and Contractor and the costs thereof shall be borne by the Contractor unless otherwise specified.
- 21.03 Contractor shall give Owner timely notice of readiness of the Work for all inspections, tests or approvals. If any such Work required to be inspected, tested or approved is covered without written approval of Owner, it must, if requested by Owner, be uncovered for observation, and such uncovering shall be at Contractor's expense unless Contractor has given Owner timely notice of its intention to cover such Work and Owner has not acted with reasonable promptness in response to such notice.
- 21.04 Neither observations by Owner nor inspections, tests or approvals shall relieve Contractor from its obligations to perform the Work in accordance with the requirements of the Contract Document.
- 21.05 Owner and its representatives will at reasonable times have access to the Work. Contractor shall provide proper and safe facilities for such access and observation of the Work and also for any inspection or testing thereof by others.
- 21.06 If any Work is covered contrary to the written request of Owner, it must, be uncovered for Owner's observation and replaced at Contractor's expense. If any Work has been covered which Owner has not specifically requested to observe prior to its being covered, or if Owner considers it necessary or advisable that covered Work be inspected or tested by others, the Contractor, at Owner's request, shall uncover, expose or otherwise make available for observations, inspections or testing as Owner may require, that portion of the Work in question, furnishing all necessary labor, material and equipment. If it is found that such Work is Defective, Contractor shall bear all the expenses of such uncovering, exposure, observation, inspection and testing and of satisfactory reconstruction, including compensation for additional professional services, and an appropriate deductive Change Order shall be issued. If, however, such Work is not found to be Defective, Contractor shall be allowed an increase in the Contract Price or an extension of the Contract Time, or both, directly attributable to such uncovering, exposure, observation, inspection, testing and reconstruction.

- 21.07 If the Work is Defective, or Contractor fails to supply sufficient skilled workmen or suitable materials or equipment, or if the Contractor fails to make prompt payments to Subcontractors or for labor, materials or equipment, Owner may order Contractor to stop the Work, or any portion thereof, until the cause of such order has been eliminated; however, this right of Owner to stop the Work shall not give rise to any duty on the part of Owner to exercise this right for the benefit of Contractor or any other party.
- 21.08 Prior to approval of final payment, Contractor shall promptly, without cost to Owner and as specified by Owner, either correct any Defective Work, whether or not fabricated, installed or completed, or if the Work has been rejected by Owner, remove it from the site and replace it with non-defective Work. If Contractor does not correct such Defective Work or remove and replace such rejected Work within a reasonable time, all as specified in a written notice from Owner, Owner may have the deficiency corrected or the rejected Work removed and replaced. All direct or indirect costs of such correction or removal and replacement including compensation for additional professional services shall be paid by Contractor, and an appropriate deductive Change Order shall be issued. Contractor shall also bear the expense of making good all Work of others destroyed or damaged by its correction, removal or replacement of its Defective Work.
- 21.09 If, after the approval of final payment and prior to the expiration of one year after the date of Substantial Completion or such longer period of time as may be prescribed by law or by the terms of any applicable special guarantee required by the Contract Documents, any Work is found to be Defective, Contractor shall promptly, without cost to Owner and in accordance with Owner's written instructions, either correct such Defective Work or if it has been rejected by Owner, remove it from the site and replace it with non-defective Work. If Contractor does not promptly comply with the terms of such instructions, Owner may have the Defective Work corrected or the rejected Work removed and replaced, and all direct and indirect costs of such removal and replacement, including compensation for additional professional services, shall be paid by Contractor. The Contractor agrees to pay a reasonable attorney fee and other reasonable attendant costs of the Owner in the event it becomes necessary for the Owner to employ an attorney to enforce this section or to protect itself against suit over the Contractor's responsibilities. Attorney fees shall be at the prevailing hourly rate of the private sector. The attorney fee hourly rate shall not be less than \$175.00 per hour. All attorney fees collected shall be paid to the operating budget of the Office of the Parish President.
- 21.10 If, instead of requiring correction or removal and replacement of Defective Work, Owner (and prior to approval of final payment) prefers to accept it, the Owner may do so. In such case, if acceptance occurs prior to approval of final payment, a Change Order shall be issued incorporating the necessary revisions in the Contract Documents, including appropriate reduction in the Contract Price, or, if the acceptance occurs after approval of final payment, an appropriate amount shall be paid by Contractor to Owner.
- 21.11 If Contractor should fail to progress the Work in accordance with the Contract Documents, including any requirements of the Progress Schedule, Owner, after seven (7) days written Notice to Contractor, may, without prejudice to any other remedy Owner may have, make good such deficiencies and the cost thereof including compensation for additional professional services shall be charged against Contractor. In such cases, a Change Order shall be issued incorporating the necessary revisions in the Contract Documents including an appropriate reduction in the Contract Price. If the payments then or thereafter due Contractor are not sufficient to cover such amount, Contractor shall pay the difference to Owner.
- 21.12 The Owner may appoint representatives to make periodic visits to the site and observe the progress and quality of the executed Work. These representatives shall be governed by the same restrictions placed on the Owner by these Specifications. The governing body of the Federal, State or local government exercising authority in the area of the Work may appoint representatives to observe the progress and quality of the Work. Contractor shall cooperate with and assist these representatives in the performance of their duties.
- 21.13 The Contractor shall be responsible for the faithful execution of its Contract and the presence or absence of the Owner's or Government's Representative is in no way or manner to be presumed or assumed to relieve in any degree the responsibility or obligation of the Contractor.



- 21.14 The Contractor shall notify the Owner and the Governmental Agency having jurisdiction as to the exact time at which it is proposed to begin Work so the Owner may provide for inspection of all materials, foundations, excavations, equipment, etc., and all or any part of the Work and to the preparation or manufacture of materials to be used whether within the limits of the Work or at any other place.
- 21.15 The Owner or its representatives shall have free access to all parts of the Work and to all places where any part of the materials to be used are procured, manufactured or prepared. The Contractor shall furnish the Owner all information relating to the Work and the material therefor, which may be deemed necessary or pertinent, and with such samples of materials as may be required. The Contractor, at its own expense, shall supply such labor and assistance as may be necessary in the handling of materials for proper inspection or for inspection of any Work done by it.
- 21.16 No verbal instructions given to the Contractor by the Owner, Project Representative or any of their agents shall change or modify the written Contract. Contractors shall make no claims for additional payments or time based upon verbal instructions.

## 22.00 SUBSURFACE CONDITIONS

- 22.01 It is understood and agreed that the Contractor is familiar with the subsurface conditions that will be encountered and its price bid for the Work includes all of the costs involved for Work in these conditions and it is furthermore agreed that it has taken into consideration, prior to its Bid and acceptance by Owner, all of the subsurface conditions normal or unusual that might be encountered in the location of the Work.
- 22.02 Should the Contractor encounter during the progress of the Work subsurface conditions at the site materially differing from those shown on the Drawings or indicated in the Specifications, the attention of the Owner shall be directed to such conditions before the conditions are disturbed. If the Owner finds that the conditions materially differ from those shown on the Drawings or indicated in the Specifications, it shall at once make such changes in the Drawings or Specifications as it may find necessary, and any increase or decrease in cost or extension of time resulting from such changes shall be adjusted in the same manner as provided for changes for Extra Work. The Contractor shall submit breakdowns of all costs in a manner as instructed and approved by the Owner.

## 23.00 REMOVAL AND DISPOSAL OF STRUCTURES AND OBSTRUCTIONS

- 23.01 Bidder shall thoroughly examine the site of the Work and shall include in its Bid the cost of removing all structures and obstructions in the way of the Work.
- 23.02 The Contractor shall remove any existing structures or part of structures, fence, building or other encumbrances or obstructions that interfere in any way with the Work. Compensations for the removal of any structure shall be made only if the item(s) to be removed was/were listed as pay item(s) on the Proposal.
- 23.03 If called for in the Special Conditions, all privately and publicly owned materials and structures removed shall be salvaged without damage and shall be piled neatly and in an acceptable manner upon the premises if it belongs to an abutting property owner, otherwise at accessible points along the improvements. Materials in structures which is the property of the Owner or property of any public body, private body or individual which is fit for use elsewhere, shall remain property of the original Owner. It shall be carefully removed without damage, in sections which may be readily transported; same shall be stored on or beyond the right of way. The Contractor will be held responsible for the care and preservation for a period of ten (10) days following the day the last or final portion of the materials stored at a particular location are placed thereon. When privately owned materials are stored beyond the right of way, the Contractor will be held responsible for such care and preservation for a period of ten (10) days responsibility period for care and preservation of the materials begins. The Contractor must furnish the Owner with evidence satisfactory that the proper owner of the materials has been duly notified by the Contractor that the said owner must assume responsibility for its materials on the date following the Contractor's ten (10) day responsibility.

## 24.00 INSURANCE

- 24.01 Contractor shall secure and maintain at its expense such insurance that will protect it and the Parish from claims for injuries to persons or damages to property which may arise from or in connection with the performance of Services or Work hereunder by the Contractor, his agents, representatives, employees, and/or subcontractors. The cost of such insurance shall be included in Contractor's bid.
- 24.02 The Contractor shall not commence work until it has obtained all insurance as required for the Parish Project. If the Contractor fails to furnish the Parish with the insurance protection required and begins work without first furnishing Parish with a currently dated certificate of insurance, the Parish has the right to obtain the insurance protection required and deduct the cost of insurance from the first payment due the Contractor. Further deductions are permitted from future payments as are needed to protect the interests of the Parish including, but not limited to, renewals of all policies.
- 24.03 Payment of Premiums: The insurance companies issuing the policy or policies shall have no recourse against the Parish of St. Tammany for payment of any premiums or for assessments under any form of policy.
- 24.04 Deductibles: Any and all deductibles in the described insurance policies shall be assumed by and be at the sole risk of the Contractor.
- 24.05 Authorization of Insurance Company(ies) and Rating: All insurance companies must be authorized to do business in the State of Louisiana and shall have an A.M. Best rating of no less than A-, Category VII.
- 24.06 Policy coverages and limits must be evidenced by Certificates of Insurance issued by Contractor's carrier to the Parish and shall reflect:

Date of Issue: Certificate must have current date.

Named Insured: The legal name of Contractor under contract with the Parish and its principal place of business shall be shown as the named insured on all Certificates of Liability Insurance.

Name of Certificate Holder: St. Tammany Parish Government, Office of Risk Management, P. O. Box 628, Covington, LA 70434

Project Description: A brief project description, including Project Name, Project Number and/or Contract Number, and Location.

Endorsements and Certificate Reference: All policies must be endorsed to provide, and certificates of insurance must evidence the following:

Waiver of Subrogation: The Contractor's insurers will have no right of recovery or subrogation against the Parish of St. Tammany, it being the intention of the parties that all insurance policy(ies) so affected shall protect both parties and be the primary coverage for any and all losses covered by the below described insurance. *Policy endorsements required for all coverages.*

Additional Insured: The Parish of St. Tammany shall be named as additional named insured with respect to general liability, marine liability, pollution/environmental liability, automobile liability and excess liability coverages. *Policy endorsements required.*

Hold Harmless: Contractor's liability insurers shall evidence their cognizance of the Hold Harmless and Indemnification in favor of St. Tammany Parish Government by referencing same on the face of the Certificate(s) of Insurance.

Cancellation Notice: Producer shall provide thirty (30) days prior written notice to the Parish of policy cancellation or substantive policy change.

24.07 The types of insurance coverage the Contractor is required to obtain and maintain throughout the duration of the Contract, include, but is not limited to:

1. Commercial General Liability insurance with a Combined Single Limit for bodily injury and property damage of at least \$1,000,000 per Occurrence/\$2,000,000 General Aggregate/Products-Completed Operations Per Project. The insurance shall provide for and the certificate(s) of insurance shall indicate the following coverages:
  - a) Premises - operations;
  - b) Broad form contractual liability;
  - c) Products and completed operations;
  - d) Personal Injury;
  - e) Broad form property damage;
  - f) Explosion and collapse.
2. Marine Liability/Protection and Indemnity insurance is required for any and all vessel and/or marine operations in the minimum limits of \$1,000,000 per occurrence/\$2,000,000 per project general aggregate. The coverage shall include, but is not limited to, the basic coverages found in the Commercial General Liability insurance and coverage for third party liability.
3. Contractors' Pollution Liability and Environmental Liability insurance in the minimum amount of \$1,000,000 per occurrence, \$2,000,000 general aggregate and include coverage for full contractual liability and for all such environmental and/or hazardous waste exposures affected by this project.
4. Business Automobile Liability insurance with a Combined Single Limit of \$1,000,000 per Occurrence for bodily injury and property damage, and shall include coverage for the following:
  - a) Any automobiles;
  - b) Owned automobiles;
  - c) Hired automobiles;
  - d) Non-owned automobiles;
  - e) Uninsured motorist.
5. Workers' Compensation/Employers Liability insurance: worker's compensation insurance coverage and limits as statutorily required; Employers' Liability Coverage shall be not less than \$1,000,000 each accident, \$1,000,000 each disease, \$1,000,000 disease policy aggregate, except when projects include exposures covered under the United States Longshoremen and Harbor Workers Act, Maritime and/or Jones Act and/or Maritime Employers Liability (MEL) limits shall be not less than \$1,000,000/\$1,000,000/\$1,000,000. *Coverage for owners, officers and/or partners shall be included in the policy and a statement of such shall be made by the insuring producer on the face of the certificate.*
6. Owners Protective Liability (OPL) (formerly Owners and Contractors Protective Liability (OCP) Insurance) shall be furnished by the Contractor naming St. Tammany Parish Government as the Named Insured and shall provide coverage in the minimum amount of \$1,000,000 combined single limit (CSL) each occurrence, \$2,000,000 aggregate. Any project valued in excess of \$3,000,000 shall be set by the Office of Risk Management. The policy and all endorsements shall be addressed to St. Tammany Parish Government, Office of Risk Management, P. O. Box 628, Covington, LA 70434.
7. Builder's Risk Insurance shall be required on buildings, sewage treatment plants and drainage pumping stations, and shall be written on an "all-risk" or equivalent policy form in the amount of the full value of the initial Contract sum, plus value of subsequent Contract modifications and cost of materials supplied or installed by others, comprising 100% total value for the entire project including foundations. Deductibles should not exceed \$5,000 and Contractor shall be responsible for any and all policy deductibles. This insurance shall cover portions of the work stored off the site, and also portions of the work in transit. In addition, Installation Floater

Insurance, on an “all-risk” form, will be carried on all pumps, motors, machinery and equipment on the site or installed. Both the Builder’s Risk Insurance and the Installation Floater Insurance shall include the interests of the Owner, Contractor, Subcontractors, and Sub-subcontractors and shall terminate only when the Project has been accepted. St. Tammany Parish Government, P. O. Box 628, Covington, LA 70434 shall be the first named insured on the Builder’s Risk and Installation Floater Insurance.

8. Professional Liability (errors and omissions) insurance in the sum of at least One Million Dollars (\$1,000,000) per claim with Two Million Dollars (\$2,000,000) annual aggregate.
  9. An umbrella policy or excess policy may be required and/or allowed to meet minimum coverage limits, subject to the review and approval by St. Tammany Parish Government, Office of Risk Management.
- 24.08 All policies of insurance shall meet the requirements of the Parish of St. Tammany prior to the commencing of any work. The Parish of St. Tammany has the right, but not the duty, to approve all insurance policies prior to commencing of any work. If at any time, it becomes known that any of the said policies shall be or becomes unsatisfactory to the Parish of St. Tammany as to form or substance; or if a company issuing any such policy shall be or become unsatisfactory to the Parish of St. Tammany, the Contractor shall promptly obtain a new policy, timely submit same to the Parish of St. Tammany for approval and submit a certificate thereof as provided above. The Parish agrees to not unreasonably withhold approval of any insurance carrier selected by Contractor. In the event that Parish cannot agree or otherwise authorize said carrier, Contractor shall have the option of selecting and submitting new insurance carrier within 30 days of said notice by the Parish. In the event that the second submission is insufficient or is not approved, then the Parish shall have the unilateral opportunity to thereafter select a responsive and responsible insurance carrier all at the cost of Contractor and thereafter deduct from Contractor's fee the cost of such insurance.
- 24.09 Upon failure of Contractor to furnish, deliver and/or maintain such insurance as above provided, the contract, at the election of the Parish of St. Tammany, may be forthwith declared suspended, discontinued or terminated. Failure of the Contractor to maintain insurance shall not relieve the Contractor from any liability under the contract, nor shall the insurance requirements be construed to conflict with the obligation of the Contractor concerning indemnification.
- 24.10 Contractor shall maintain a current copy of all annual insurance policies and provide same to the Parish of St. Tammany as may be reasonably requested.
- 24.11 It shall be the responsibility of Contractor to require that these insurance requirements are met by all contractors and sub-contractors performing work for and on behalf of Contractor. Contractor shall further ensure the Parish is named as additional insured on all insurance policies provided by said contractor and/or sub-contractor throughout the duration of the project, and that renewal certificates for any policies expiring prior to the Parish’s final acceptance of the project shall be furnished to St. Tammany Parish Government, Department of Legal, Office of Risk Management, without prompting.

**NOTICE:**

*These are only an indication of the coverages that are generally required. Additional coverages and/or limits may be required for projects identified as having additional risks or exposures. Please note that some requirements listed may not necessarily apply to your specific services. St. Tammany Parish Government reserves the right to remove, replace, make additions to and/or modify any and all of the insurance requirement language upon review of the final scope of services presented to Office of Risk Management prior to execution of a contract for services.*

**For inquiries regarding insurance requirements, please contact:**

**St. Tammany Parish Government  
Office of Risk Management  
P. O. Box 628  
Covington, LA 70434  
Telephone: 985-898-5226  
Email: [riskman@stpgov.org](mailto:riskman@stpgov.org)**

- 24.12 Nothing contained in these insurance requirements is to be construed as limiting the extent of the Contractor's Responsibility for payment of damages resulting from its operations under this Contract.

**25.00 OWNER'S RIGHT TO OCCUPANCY**

- 25.01 The Owner shall have the right to use, at any time, any and all portions of the Work that have reached such a stage of completion as to permit such occupancy, provided such occupancy does not hamper the Contractor or prevent its efficient completion of the Contract or be construed as constituting an acceptance of any part of the Work.

- 25.02 The Owner shall have the right to start the construction of houses, structures or any other building concurrent with the Contractor's Work.

**26.00 SURVEY HORIZONTAL AND VERTICAL CONTROL**

- 26.01 The Owner shall provide surveys for construction to establish reference points which in its judgment are necessary to enable Contractor to layout and proceed with its Work. Contractor shall be responsible for surveying and laying out the Work and shall protect and preserve the established reference points and shall make no changes or relocations without the prior written approval of the Owner. Contractor shall report to Owner whenever any reference point is lost or destroyed and the Owner shall decide if the reference point shall be replaced by its or the Contractor's forces.

- 26.02 The Contractor shall establish lines and grades with its own forces in sufficient number and location for the proper execution of the Work.

- 26.03 If the Contractor, during the construction, damages the established property corners and/or other markers and thereafter requests the Owner to re-stake same in order to complete the project, this expense will be borne solely by the Contractor.

**27.00 TERMINATION OF THE CONTRACT, OWNER'S AND CONTRACTORS RIGHT TO STOP WORK.**

- 27.01 If the Contractor should be adjudged bankrupt (voluntarily or involuntarily) or if it should make a general assignment for the benefit of its creditors, or if a receiver should be appointed on account of its insolvency, or if it should persistently or repeatedly refuse or should fail (except in cases for which extension of time is provided) to supply enough properly skilled workmen or proper materials, or if it should fail to make prompt payment to Subcontractors or for material or labor, or persistently disregard laws, ordinances or the instructions of the Owner, or otherwise be guilty of a substantial violation of any provision of the Contract, then the Owner, upon the certificate of the Owner that, in its unilateral discretion and judgment, believes sufficient cause exists to justify such action, may,

without prejudice to any other right or remedy and after giving the Contractor ten (10) calendar days written notice, terminate the employment of the Contractor and take possession of the premises and of all materials, tools and appliances thereon and finish the Work by whatever method the Owner may deem expedient.

- 27.02 Failure of the Contractor to start the Work within the time limit specified herein or substantial evidence that the progress being made by the Contractor is sufficient to complete the Work within the specified time shall be grounds for termination of the Contract by the Owner.
- 27.03 Before the Contract is terminated, the Contractor and its surety will first be notified in writing by the Owner of the conditions which make termination of the Contract imminent. When after ten (10) calendar days' notice is given and if satisfactory effort has not been made by the Contractor or its surety to correct the conditions, the Owner may declare, in its exclusive discretion, that the Contract is terminated and so notify the Contractor and its surety accordingly.
- 27.04 Upon receipt of notice from the Owner that the Contract has been terminated, the Contractor shall immediately discontinue all operations. The Owner may then proceed with the Work in any lawful manner that it may elect until Work is finally completed.
- 27.05 The exclusive right is reserved to the Owner to take possession of any machinery, implements, tools or materials of any description that shall be found upon the Work, to account for said equipment and materials, and to use same to complete the Project. When the Work is finally completed, the total cost of same will be computed. If the total cost is less than the Contract Price, the difference will not be paid to the Contractor or its surety.
- 27.06 In case of termination, all expenses incident to ascertaining and collecting losses under the Bond, including legal services, shall be assessed against the Bond.
- 27.07 If the Work should be stopped under any order of any court or public authority for period of sixty (60) calendar days, through no act or fault of the Contractor or anyone employed by it, or if the Owner shall fail to pay the Contractor within a reasonable time any sum certified by the Owner, then the Contractor may, upon ten (10) calendar days written notice to the Owner, stop Work or terminate this Contract and recover from the Owner payment for all Work properly and professionally executed in a workmanlike manner. This loss specifically includes actual cost of materials and equipment, together with all wages inclusive of all federal, state, and local tax obligations. This loss specifically includes reimbursement of all insurances on a pro-rata basis from the date of termination to date of policy period. This loss excludes and specifically does not include recovery by the Contractor for lost profit, indirect & direct expenses, overhead, and the like.

## 28.00 PAYMENTS TO THE CONTRACTOR

- 28.01 Monthly certificates for partial payment, in a form approved by the Owner, shall be transmitted to the Owner upon receipt from the Contractor and acceptance by the Owner. In accordance with LSA-R.S. 38:2248(A), when the Contract Price is less than five hundred thousand dollars, these certificates shall be equal to ninety percent (90%) of both the Work performed and materials stored at the site; and when the Contract Price is five hundred thousand dollars or more, these certificates shall be equal to ninety-five percent (95%) of both the Work performed and materials stored at the site. Partial payment certificates shall include only Work, materials and equipment that are included in official Work Order and which meet the requirements of plans, Specifications and Contract Documents. These monthly estimates shall show the amount of the original estimate for each item, the amount due on each item, the gross total, the retained percentage, the amount previously paid and the net amount of payment due.
- 28.02 After final completion and acceptance by the Owner of the entire Work, and when the Contract Price is less than five hundred thousand dollars, the Owner shall issue to the Contractor Certificate of Payment in sum sufficient to increase total payments to ninety percent (90%) of the Contract Price. After final completion and acceptance by the Owner of the entire Work, and when the Contract Price is five hundred thousand dollars or more, the Owner shall issue to the Contractor Certificate of Payment in sum sufficient to increase total payments to ninety-five percent (95%) of the Contract Price.

- 28.03 When the Contract Price is less than five hundred thousand dollars, the final payment certificate of the remaining ten percent (10%) of the Contract Price, minus any deduction for deficient or Defective Work or other applicable deductions, will be issued by the Owner forty-five (45) days after filing acceptance in the Mortgage Office of the Parish and a Clear Liens and Privilege Certificate has been secured. When the Contract Price is five hundred thousand dollars or more, the final payment certificate of the remaining five percent (5%) of the Contract Price, minus any deduction for deficient or Defective Work or other applicable deductions, will be issued by the Owner forty-five (45) days after filing acceptance in the Mortgage Office of the Parish and a Clear Liens and Privilege Certificate has been secured. Before issuance of the final payment certificate, the Contractor shall deposit with the Owner a certificate from the Clerk of Court and Ex-Officio Recorder of Mortgages from the Parish in which the Work is performed to the effect that no liens have been registered against Contract Work.
- 28.04 When, in the opinion of the Contractor, the Work provided for and contemplated by the Contract Documents has been substantially completed, the Contractor shall notify the Owner in writing that the Work is substantially complete and request a final inspection. The Owner shall proceed to perform such final inspection accompanied by the Contractor. Any and all Work found by this inspection to be Defective or otherwise not in accordance with the plans and Specifications shall be corrected to the entire satisfaction of the Owner and at the sole expense of the Contractor. If the Contract is found to be incomplete in any of its details, the Contractor shall at once remedy such defects, and payments shall be withheld and formal acceptance delayed until such Work has been satisfactorily completed.
- 28.05 If payment is requested on the basis of materials and equipment not incorporated in the Work, but delivered and suitably stored and protected from damage and theft at the site, the Request for Payment shall also be accompanied by such data, satisfactory to the Owner, as will establish Owner's title to the material and equipment and protect its interest therein, including applicable insurance.
- 28.06 Each subsequent Request for Payment shall include an affidavit of Contractor stating that all previous progress payments received on account of the Work have been applied to discharge in full all of Contractor's obligations reflected in prior Request for Payment.
- 28.07 Each subsequent request for payment shall include an affidavit by Contractor that Contractor, all subcontractors, agents, material suppliers and all other persons supplying material to the project upon which State of Louisiana and/or St. Tammany sales taxes are lawfully due have paid these taxes and that all supplies and materials purchased for this project and for which Contractor has been paid have had all lawfully due State and/or St. Tammany sales taxes paid.
- 28.08 The Bid Proposal, unless otherwise modified in writing, and the Contract constitute the complete Project. The Contract Prices constitute the total compensation payable to Contractor and the cost of all of the Work and materials, taxes, permits and incidentals must be included into the Bid submitted by the Contractor and included into those items listed on the Proposal.
- 28.09 Any additional supporting data required by the Owner in order to substantiate Contractor's request for payment shall be furnished by Contractor at no cost to the Owner.
- 28.10 Owner may withhold from payment to Contractor as may be necessary to protect itself from loss on account of:
- (1) Defective and/or inferior work;
  - (2) Damage to the property of Owner or others caused by Contractor;
  - (3) Failure by Contractor to make payments properly to sub-contractors or to pay for labor, materials or equipment used on this project;
  - (4) Failure by Contractor to pay taxes due on materials used on this project;
  - (5) Damage by Contractor to another Contractor;
  - (6) Insolvency;
  - (7) Bankruptcy, voluntary or involuntary;
  - (8) Revocation of corporate status;
  - (9) Failure to follow corporate formalities;
  - (10) Unprofessional activities;

- (11) Unworkmanlike performance;
- (12) Fraud and/or misrepresentation of any kind.

## 29.00 ACCEPTANCE AND FINAL PAYMENT(S)

- 29.01 Upon receipt of written notice from Contractor that the work is substantially complete and usable by Owner or the Public in suitable manner, the Owner and the Contractor shall jointly inspect the work.
- 29.02 If the Owner by inspection determines that the work is not substantially complete in a suitable manner for use by the Owner or the Public, then the Owner shall so notify the Contractor in writing stating such reason. All reasons need not be disclosed unless actually known. The Owner is afforded an opportunity to amend said notices as are reasonably possible.
- 29.03 If the Owner by its inspection determines that the work is substantially complete, it shall prepare a list of all items not satisfactorily completed and shall notify the Contractor and Owner in writing that the work is substantially complete and subject to satisfactory resolution of those items on the list (punch list). Punch lists may be amended from time to time by Owner in the event that additional deficiencies are discovered. In accordance with LSA-R.S. 38:2248(B), any punch list generated during a construction project shall include the cost estimates for the particular items of work the design professional has developed based on the mobilization, labor, material, and equipment costs of correcting each punch list item. The design professional shall retain his working papers used to determine the punch list items cost estimates should the matter be disputed later. The contract agency shall not withhold from payment more than the value of the punch list. Punch list items completed shall be paid upon the expiration of the forty-five (45) day lien period. The provisions of this Section shall not be subject to waiver.
- 29.04 Upon determination of substantial completeness with the punch list, the Contract Time is interrupted and the Contractor is given a reasonable time not to exceed thirty (30) consecutive calendar days to effect final completion by correcting or completing all of those items listed on the punch list. If the items on the punch list are not completed in a satisfactory manner within the thirty day period, then the Contract Time will begin to run again and will include for purposes of determining liquidated damages the thirty day period the grace period being withdrawn.
- 29.05 Upon receipt by Owner of written determination that all work embraced by the contract has been completed in a satisfactory manner, the Owner shall provide a written acceptance to Contractor who shall record Owner's written acceptance with the recorder of Mortgages, St. Tammany Parish. The Contractor shall properly prepare, submit and pay for all costs associated with said Acceptance. The Contractor is also responsible for preparation, re-submission and payment of any and all updated certificates.
- 29.06 Retainage monies, minus those funds deducted in accordance to the requirements of this agreement including but not limited to Paragraph 28.10, shall be due Contractor not earlier than forty-six (46) calendar days after recordation of certificate of Owner's acceptance provided the following:
  - (1) Contractor shall prepare, secure, pay for and submit clear lien and privilege certificate, signed and sealed by Clerk of Court or Recorder of Mortgages, Parish of St. Tammany and dated at least forty-six (46) days after recordation of certificate of acceptance;
  - (2) Ensure that the official representative of the Owner has accepted as per LSA-R.S. 38:2241.1, *et seq.* and that all following sub-sections have been properly satisfied as per law;
  - (3) Ensure that all signatures are affixed and that there exists the requisite authority for all signatures;
  - (4) Ensure accurate and proper legal descriptions;
  - (5) Properly identify all parties and/or signatories;



- (6) Properly identify all mailing addresses;
- (7) Correctly set for the amount of the contract, together with all change orders;
- (8) Set out a brief description of the work performed;
- (9) Reference to any previously recorded contract, lien or judgment inscription that may affect the property;
- (10) Certification that substantial completion has occurred, together with any applicable date(s);
- (11) Certification that no party is in default and/or that the project has been abandoned.

29.07 After securing the clear lien and privilege certificate the Contractor shall prepare its final application for payment and submit to Owner. The Owner shall approve application for payment, or state its objections in writing and forward to Contractor for resolution.

### 30.00 NOTICE AND SERVICE THEREOF

30.01 Any Notice to Contractor from the Owner relative to any part of this Contract shall be in writing and shall be considered delivered and the service thereof completed when said notice is posted; by certified mail, return receipt requested to the said Contractor at its last given address, or delivered in person to said Contractor or its authorized representative on the Work.

### 31.00 INTENTION OF THESE GENERAL CONDITIONS

31.01 These General Conditions shall be applicable to all contracts entered into by and between the Owner and Contractors, except as may be altered or amended with the consent of the Owner, and/or provided for in the Special Conditions of each contract. Contractor shall be presumed to have full knowledge of these General Conditions which shall be applicable to all contracts containing these General Conditions, whether Contractor has obtained a copy thereof or not.

### 32.00 SEVERABILITY

32.01 If any one or more or part of any of the provisions contained herein and/or in the Specifications and Contract for the Work shall for any reason be held invalid, illegal or unenforceable in any respect, such invalidity, illegality or unenforceability shall not affect any other provisions of this Agreement or attachment, but it shall be construed as if such invalid, illegal, or unenforceable provision or part of a provision had never been contained herein.

32.02 CHANGING THESE CONDITIONS: Owner reserves the right to change or modify these General Conditions as it deems best, or as required by law. The General Conditions may also be modified for a particular project by the use of Special Conditions prior to the issuance of the Advertisement for Bid. However, once an advertisement for bid is made for any specific project, any changes to the General Conditions as they affect that specific project must be made in writing and issued via an addendum in accordance with State Law.

### 33.00 LAW OF THE STATE OF LOUISIANA

33.01 The Contract Documents shall be governed by the Law of the State of Louisiana.

33.02 The Contractor agrees to pay reasonable attorney's fees and other reasonable attendant costs, in the event that it becomes necessary for the Owner to employ an attorney in order to enforce compliance with or any remedy relating to any covenants, obligations, or conditions imposed upon the Contractor by this Agreement. Attorney fees shall be based upon the prevailing hourly rate of attorney rates in the private sector. In no case shall the

hourly rate be less than \$175.00 per hour. All attorney fees collected shall be paid the operating budget of the Office of the Parish President.

- 33.03 The jurisdiction and venue provisions shall apply to all contractors, sureties, and subcontractors. The 22nd Judicial District for the Parish of St. Tammany shall be the court of exclusive jurisdiction and venue for any dispute arising from these General Conditions and/or any contract executed in conjunction with these General Conditions. All parties specifically waive any rights they have or may have for removal of any disputes to Federal Court, or transfers to different State District Court.
- 33.04 Contractor warrants that it has and/or had received a copy of these General Conditions at all times material hereto; Contractor further agrees that it has read and fully and completely understands each and every condition herein.
- 33.05 The property description will be more fully set out by an attached exhibit.
- 33.06 The Contractor warrants that it has the requisite authority to sign and enter this agreement.
- 33.07 It is specifically understood and agreed that in the event Contractor seeks contribution from the Parish or pursues its legal remedies for any alleged breach of this agreement by the Parish, then the following list of damages SHALL NOT BE RECOVERABLE BY CONTRACTOR. This list includes, but is not limited to:

1. indirect costs and/or expenses;
2. direct costs and/or expenses;
3. time-related costs and/or expenses;
4. award of extra days;
5. costs of salaries or other compensation of Contractor's personnel at Contractor's principal office and branch offices;
6. expenses of Contractor's principal, branch and/or field offices;
7. any part of Contractor's capital expenses, including any interest on Contractor's capital employed for the work;
8. any other charges related to change orders;
9. overhead and general expenses of any kind or the cost of any item not specifically and expressly included in Cost of Work.

33.08 DEFAULT AND WAIVERS

It is understood that time is of the essence. It is specifically understood between the parties that Contractor waives any and all notice to be placed in default by the Owner. This subsection shall supersede and prime any other subsection herein above that is in conflict. The Owner specifically reserves its right and specifically does not waive the requirement to be placed in default by the Contractor as per law.

- 33.09 St. Tammany Parish Government contracts to be awarded are dependent on the available funding and/or approval by members designated and/or acknowledged by St. Tammany Parish Government. At any time St. Tammany Parish Government reserves the right to cancel the award of a contract if either or both of these factors is deficient.
- 33.10 It is the Parish's policy to provide a method to protest exclusion from a competition or from the award of a contract, or to challenge an alleged solicitation irregularity. It is always better to seek a resolution within the Parish system before resorting to outside agencies and/or litigation to resolve differences. All protests must be made in writing, and shall be concise and logically presented to facilitate review by the Parish. The written protest shall include:
1. The protester's name, address, and fax and telephone numbers and the solicitation, bid, or contract number;
  2. A detailed statement of its legal and factual grounds, including a description of the resulting prejudice to the protester;
  3. Copies of relevant documents;

4. All information establishing that the protester is an interested party and that the protest is timely; and
5. A request for a ruling by the agency; and a statement of the form of relief requested.

The protest shall be addressed to Director of Procurement, St. Tammany Parish Government, P.O. Box 628, Covington, LA 70434.

The protest review shall be conducted by the Parish Procurement Department.

Only protests from interested parties will be allowed. Protests based on alleged solicitation improprieties that are apparent before bid opening, or the time set for receipt of initial proposals must be filed with and received by the Procurement Department BEFORE those deadlines.

Any other protest shall be filed no later than ten (10) calendar days after the basis of the protest is known, or should have been known (whichever is earlier).

The Parish will use its best efforts to resolve the protest within thirty (30) days of the date that it is received by the Parish. The written response will be sent to the protestor via mail and, fax, if a fax number has been provided by the protestor. The protester can request additional methods of notification.

CORPORATE RESOLUTION

EXCERPT FROM MINUTES OF MEETING OF THE BOARD OF DIRECTORS OF INCORPORATED.

AT THE MEETING OF DIRECTORS OF \_\_\_\_\_ INCORPORATED, DULY NOTICED AND HELD ON \_\_\_\_\_, A QUORUM BEING THERE PRESENT, ON MOTION DULY MADE AND SECONDED. IT WAS:

RESOLVED THAT \_\_\_\_\_, BE AND IS HEREBY APPOINTED, CONSTITUTED AND DESIGNATED AS AGENT AND ATTORNEY-IN-FACT OF THE CORPORATION WITH FULL POWER AND AUTHORITY TO ACT ON BEHALF OF THIS CORPORATION IN ALL NEGOTIATIONS, BIDDING, CONCERNS AND TRANSACTIONS WITH THE PARISH OF ST. TAMMANY OR ANY OF ITS AGENCIES, DEPARTMENTS, EMPLOYEES OR AGENTS, INCLUDING BUT NOT LIMITED TO, THE EXECUTION OF ALL BIDS, PAPERS, DOCUMENTS, AFFIDAVITS, BONDS, SURETIES, CONTRACTS AND ACTS AND TO RECEIVE ALL PURCHASE ORDERS AND NOTICES ISSUED PURSUANT TO THE PROVISIONS OF ANY SUCH BID OR CONTRACT, THIS CORPORATION HEREBY RATIFYING, APPROVING, CONFIRMING, AND ACCEPTING EACH AND EVERY SUCH ACT PERFORMED BY SAID AGENT AND ATTORNEY-IN-FACT.

I HEREBY CERTIFY THE FOREGOING TO BE A TRUE AND CORRECT COPY OF AN EXCERPT OF THE MINUTES OF THE ABOVE DATED MEETING OF THE BOARD OF DIRECTORS OF SAID CORPORATION, AND THE SAME HAS NOT BEEN REVOKED OR RESCINDED.

SECRETARY-TREASURER

\_\_\_\_\_

DATE

\_\_\_\_\_

### Certificate of Insurance Instructions

The below information is intended to guide Contractors on what information is needed to be listed on the Certificate of Insurance. All Insurance limit requirements can be found in Attachment D.

- **Certificate Holder** – STPG must be listed as the certificate holder, and it must include our address of: P.O. Box 628, Covington, LA 70434
  - Reason: the certificate holder is where cancellations of coverage, or updated certificates are mailed. If a vendor terminates a policy, we will be notified.
- **Additional Insured** – We must be named as an additional insured so that if there is a lawsuit against the vendor for a project, their coverage will cover STPG as well if we are named in the lawsuit.
  - We must be named in the Description of Operations box – reason: there could be other additional insureds, and we want to have no doubt that we are one of the additional insureds.
  - We must be named as additional insured on the following coverages: General liability, Auto Liability, Umbrella/Excess Liability, Environmental/Pollution Liability.
  - Professional Liability policies do not allow for an additional insured by most carriers.
- **Project Name & Contract #** - We need this listed in the Description of Operations, again so that if there is a lawsuit, we have proof that coverage was active for that project.
- **Waiver of Subrogation** – This can either be listed in the Description of Operations or checked off in the appropriate columns.

From the Insurance Requirement form:

*Waiver of Subrogation: The Provider's insurers will have no right of recovery or subrogation against the Parish of St. Tammany, it being the intention of the parties that all insurance policy(ies) so affected shall protect both parties and be the primary coverage for any and all losses covered by the below described insurance.*

- **Owners Protective Liability (OPL) or (OCP)** – Certificate of Insurance for OCP names St. Tammany Parish Government as the Insured and the Certificate Holder.
- Sample of Certificate of Insurance (COI) can be found on page 2.
- Please refer to this section in the package labeled “Insurance Requirements” for limits required for this project

Any questions regarding insurance requirements please contact the Risk Department at 985-898-5226 or email [riskman@stpgov.org](mailto:riskman@stpgov.org)



# CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

**IMPORTANT:** If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER	CONTACT NAME:		FAX (A/C, No):	
	PHONE (A/C, No, Ext):			
INSURED	E-MAIL ADDRESS:			
	INSURER(S) AFFORDING COVERAGE			NAIC #
	INSURER A :			
	INSURER B :			
	INSURER C :			
	INSURER D :			
INSURER E :				
INSURER F :				

**COVERAGES****CERTIFICATE NUMBER:****REVISION NUMBER:**

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSR	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
	<b>GENERAL LIABILITY</b>						EACH OCCURRENCE \$
	<input type="checkbox"/> COMMERCIAL GENERAL LIABILITY						DAMAGE TO RENTED PREMISES (Ea occurrence) \$
	<input type="checkbox"/> CLAIMS-MADE <input type="checkbox"/> OCCUR						MED EXP (Any one person) \$
							PERSONAL & ADV INJURY \$
							GENERAL AGGREGATE \$
	GEN'L AGGREGATE LIMIT APPLIES PER:						PRODUCTS - COMP/OP AGG \$
	<input type="checkbox"/> POLICY <input type="checkbox"/> PRO-JECT <input type="checkbox"/> LOC						\$
	<b>AUTOMOBILE LIABILITY</b>						COMBINED SINGLE LIMIT (Ea accident) \$
	<input type="checkbox"/> ANY AUTO						BODILY INJURY (Per person) \$
	<input type="checkbox"/> ALL OWNED AUTOS						BODILY INJURY (Per accident) \$
	<input type="checkbox"/> HIRED AUTOS						PROPERTY DAMAGE (Per accident) \$
							\$
	<b>UMBRELLA LIAB</b>						EACH OCCURRENCE \$
	<input type="checkbox"/> EXCESS LIAB						AGGREGATE \$
	<input type="checkbox"/> DED <input type="checkbox"/> RETENTION \$						\$
	<b>WORKERS COMPENSATION AND EMPLOYERS' LIABILITY</b>						WC STATUTORY LIMITS <input type="checkbox"/> OTH-ER <input type="checkbox"/>
	ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH)	Y / N	N / A				E.L. EACH ACCIDENT \$
	If yes, describe under DESCRIPTION OF OPERATIONS below						E.L. DISEASE - EA EMPLOYEE \$
							E.L. DISEASE - POLICY LIMIT \$

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (Attach ACORD 101, Additional Remarks Schedule, if more space is required)

Project Name:

Contract #:

(Name St. Tammany Parish Government as an additional insured).

**CERTIFICATE HOLDER****CANCELLATION**

St. Tammany Parish Government  
P.O. Box 628  
Covington, LA 70434

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE

Bond No.: \_\_\_\_\_

**CONTRACT AGREEMENT  
BETWEEN PARISH AND CONTRACTOR**

**BY: ST. TAMMANY PARISH GOVERNMENT**

**UNITED STATES OF  
AMERICA**

**WITH:**

**STATE OF LOUISIANA  
ST. TAMMANY PARISH**

This agreement is entered into this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_, by and between: «txtREQCompanyName», hereinafter called the "Contractor", whose business address is «txtREQAddress», «txtREQCity», «txtREQState» «txtREQZip» and the St. Tammany Parish Government, hereinafter called the "Parish", whose business address is P.O. Box 628, Covington, LA 70434 (collectively, the "Parties") for «txtPROJECTNAME» project. Witnessed that the Contractor and the Parish, in consideration of premises and the mutual covenants, consideration and agreement herein contained, agree as follows:

## **1. SCOPE OF SERVICES**

The Contractor shall furnish all labor and materials and perform all of the work required to build, construct and/or complete in a thorough and workmanlike manner:

«txtScopeSummary»

## **2. CONSTRUCTION DOCUMENTS**

It is recognized by the Parties herein that said Construction Documents, including by way of example and not of limitation, the plans and Specifications, General Conditions, Supplementary General Conditions, any addenda thereto, the drawings (if any), and the bid, quote or other procurement documents impose duties and obligations upon the Parties herein, and said Parties thereby agree that they shall be bound by said duties and obligations. For these purposes, all of the provisions contained in the aforementioned Construction Documents are incorporated herein by reference with the same force and effect as though said Construction Documents were herein set out in full. Copies of the aforementioned Construction Documents are in the possession of both the Contractor and the Parish for reference.



### 3. TIME FOR COMPLETION

The work shall be commenced on a date to be specified in a written order of the Parish and shall be completed within «intCompletionTime» calendar days from and after said date.

### 4. COMPENSATION TO BE PAID TO THE CONTRACTOR

The Parish will pay and the Contractor will accept in full consideration for the performance of the Contract the sum of «curREQGrandTotal» dollars.

### 5. PERFORMANCE AND PAYMENT BOND

To these presents personally came and intervened \_\_\_\_\_,  
(Name of Attorney in Fact)  
herein acting for \_\_\_\_\_, a corporation organized  
(Surety)  
and existing under the laws of the State of \_\_\_\_\_, and duly authorized to transact business in the State of Louisiana, as surety, who declared that having taken cognizance of this Contract and of the Construction Documents mentioned herein, he hereby in his capacity as its Attorney in Fact obligates his company, as surety for the said Contractor, unto the said Parish, up to the sum of «curREQGrandTotal». The condition of this performance and payment bond

shall be that should the Contractor herein not perform the Contract in accordance with the terms and conditions hereof, or should said Contractor not fully indemnify and save harmless the Parish from all costs and damages which he may suffer by said Contractor's non-performance or should said Contractor not pay all persons who have fulfilled obligations to perform labor and/or furnish materials in the prosecution of the work provided for herein, including by way of example, workmen, laborers, mechanics, and furnishers of materials, machinery, equipment and fixtures, then said surety agrees and is bound to so perform the Contract and make said payment(s).

Contractor and Parish specifically agree to and recognize (1) the statutory employer relationship existing between the Parish and any employees performing work under this Contract as employees of the Contractor or employees of the "Sub-Contractor", and (2) that the work performed by the employees of the Contractor and the employees of the "Sub-Contractor" is part of the Parish's business, occupation or trade and is essential to the ability of the Parish to generate their products or services, all of which is in accordance with LSA-R.S. 23:1061, and as may be amended.

## **6. LIABILITY AND INDEMNIFICATION**

### **A. Duty to Defend**

Upon notice of any claim, demand, suit, or cause of action against the Parish, alleged to arise out of or be related to this Contract, Contractor shall investigate, handle, respond to, provide defense for, and defend at its sole expense, even if the claim, demand, suit, or cause of action is groundless, false, or fraudulent. The Parish may, but is not required to, consult with or assist the Contractor, but this assistance shall not affect the Contractor's obligations, duties, and responsibilities under this section. Contractor shall obtain the Parish's written consent before entering into any settlement or dismissal.

### **B. Contractor Liability**

Contractor shall be liable without limitation to the Parish for any and all injury, death, damage, loss, destruction, damages, costs, fines, penalties, judgments, forfeitures, assessments, expenses (including attorney fees), obligations, and other liabilities of every name and description, which may occur or in any way arise out of any act or omission of Contractor, its owners, agents, employees, partners or subcontractors.

**C. Force Majeure**

It is understood and agreed that neither party can foresee the exigencies beyond the control of each party which arise by reason of an Act of God or force majeure; therefore, neither party shall be liable for any delay or failure in performance beyond its control resulting from an Act of God or force majeure. The Parish shall determine whether a delay or failure results from an Act of God or force majeure based on its review of all facts and circumstances. The parties shall use reasonable efforts, including but not limited to, use of continuation of operations plans (COOP), business continuity plans, and disaster recovery plans, to eliminate or minimize the effect of such events upon the performance of their respective duties under this Contract.

**D. Indemnification**

Contractor shall fully indemnify and hold harmless the Parish, without limitation, for any and all injury, death, damage, loss, destruction, damages, costs, fines, penalties, judgments, forfeitures, assessments, expenses (including attorney fees), obligations, and other liabilities of every name and description, which may occur or in any way arise out of any act or omission of Contractor, its owners, agents,

employees, partners or subcontractors. The Contractor shall not indemnify for the portion of any loss or damage arising from the Parish's act or failure to act.

**E. Intellectual Property Indemnification**

Contractor shall fully indemnify and hold harmless the Parish, without limitation, from and against damages, costs, fines, penalties, judgments, forfeitures, assessments, expenses (including attorney fees), obligations, and other liabilities in any action for infringement of any intellectual property right, including but not limited to, trademark, trade-secret, copyright, and patent rights.

When a dispute or claim arises relative to a real or anticipated infringement, the Contractor, at its sole expense, shall submit information and documentation, including formal patent attorney opinions, as required by the Parish.

If the use of the product, material, service, or any component thereof is enjoined for any reason or if the Contractor believes that it may be enjoined, Contractor, while ensuring appropriate migration and implementation, data integrity, and minimal delays of performance, shall at its sole expense and in the following

order of precedence: (i) obtain for the Parish the right to continue using such product, material, service, or component thereof; (ii) modify the product, material, service, or component thereof so that it becomes a non-infringing product, material, or service of at least equal quality and performance; (iii) replace the product, material, service, or component thereof so that it becomes a non-infringing product, material, or service of at least equal quality and performance; or, (iv) provide the Parish monetary compensation for all payments made under the Contract related to the infringing product, material, service, or component, plus for all costs incurred to procure and implement a non-infringing product, material, or service of at least equal quality and performance. Until this obligation has been satisfied, the Contractor remains in default.

The Contractor shall not be obligated to indemnify that portion of a claim or dispute based upon the Parish's unauthorized: i) modification or alteration of the product, material or service; ii) use of the product, material or service in combination with other products not furnished by Contractor; or, iii) use of the product, material or service in other than the specified operating conditions and environment.

## **7. MODIFICATION OF CONTRACT TERMS**

Provided that any alterations which may be made in the terms of the Contract or in the work to be done under it, or the giving by the Parish of any extensions of time for the performance of the Contract, or any other forbearance on the part of either the Parish or the Contractor to the other shall not in any way release the Contractor or the Surety from their liability hereunder, notice to the Surety of any such alterations, extensions or other forbearance being hereby waived.

## **8. TERMINATION, CANCELLATION, AND SUSPENSION**

### **A. Termination**

The term of this Contract shall be binding upon the Parties hereto until the work has been completed by the Contractor and accepted by the Parish, and all payments required to be made to the Contractor have been made. But, this Contract may be terminated upon thirty (30) days written notice under any or all of the following conditions:

- 1) By mutual agreement and consent of the Parties hereto;

- 2) By the Parish as a consequence of the failure of the Contractor to comply with the terms, progress, or quality of the work in a satisfactory manner, proper allowances being made for circumstances beyond the control of the Contractor;
- 3) By either party upon failure of the other party to fulfill its obligations as set forth in this Contract;
- 4) By the Parish with less than thirty (30) days' notice due to budgetary reductions and changes in funding priorities by the Parish;
- 5) In the event of the abandonment of the project by the Parish.

Upon termination, the Contractor shall be paid for actual work performed prior to the Notice of Termination, either based upon the established hourly rate for services actually performed, or on a pro-rata share of the basic fee based upon the phase or percentage of work actually completed, depending on the type of compensation previously established under this Contract.

Upon Termination, the Contractor shall deliver to the Parish all original documents, notes, drawings, tracings, computer files, and other files pertaining to this Contract or the Work performed, except for the Contractor's personal and administrative files.



**B. Cancellation**

The continuation of this Contract is contingent upon the appropriation of funds to fulfill the requirements of the Contract by the Parish. If the Parish fails to appropriate sufficient monies to provide for the continuation of this or any other Contract, or if such appropriation is reduced by the veto of Parish President by any means provided in the appropriations Ordinance to prevent the total appropriation for the year from exceeding revenues for that year, or for any other lawful purpose, and the effect of such reduction is to provide insufficient monies for the continuation of the Contract, the Contract shall terminate on the date of the beginning of the first fiscal year for which funds are not appropriated. It is understood and agreed that paragraph (8)(C) below may preempt this paragraph, all at the exclusive and unilateral option of the Parish.

**C. Suspension**

Should the Parish desire to suspend the work, but not definitely terminate the Contract, the Parish shall supply the Contractor with thirty (30) days' notice. The Parish will also supply Contractor thirty (30) days' notice that the work is to be reinstated and resumed in full force. Contractor shall receive no additional compensation during the suspension period. The Parties may revisit the terms of this Contract during the suspension period.

The suspension shall not exceed six (6) months, unless mutually agreed upon between the Parties.

- D.** Failure to complete or deliver within the time specified or to provide the services as specified in the bid or response will constitute a default and may cause cancellation of the contract. Where the Parish has determined the contractor to be in default. The Parish reserves the right to purchase any or all products or services covered by the contract on the open market and to charge the contractor with the cost in excess of the contract price. Until such assessed charges have been paid, no subsequent bid or response from the defaulting contractor will be considered.
- E.** In the event of a default and/or breach of this agreement and this matter is forwarded to legal counsel, then the prevailing party may be entitled to collect a reasonable attorney fees and all costs associated therewith whether or not litigation is initiated. Attorney fees shall be based upon the current, reasonable prevailing rate for counsel in the private sector. The Parties agree to be responsible for such attorney fees, together for all with legal interest from date of agreement breach, plus all costs of collection.

- F.** Termination or cancellation of this agreement will not affect any rights or duties arising under any term or condition herein.
- G.** As to the filing of voluntary or involuntary bankruptcy by Contractor, Contractor agrees that if any execution or legal process is levied upon its interest in this Contract, or if any liens or privileges are filed against its interest, or if a petition in bankruptcy is filed against it, or if it is adjudicated bankrupt in involuntary proceedings, or if it should breach this Contract in any material respect, the Parish shall have the right, at its unilateral option, to immediately cancel and terminate this Contract. In the event that Contractor is placed in any chapter of bankruptcy, voluntarily or involuntarily, or otherwise triggers any provision of the preceding sentence herein, it is understood and agreed that all materials, goods and/or services provided shall be and remain the property of the Parish. All rights of Contractor as to goods, wares, products, services, materials and the like supplied to Parish shall be deemed forfeited.

## **9. RECORDATION OF CONTRACT**

Contractor authorizes Parish to deduct from any payment due herein costs and service fees for recordation of this Contract in full or an excerpt hereof, or any revisions or modifications thereof as required by law.

## 10. AUTHORITY TO ENTER CONTRACT

The undersigned representative of Contractor warrants and personally guarantees that he/she has the requisite and necessary authority to enter and sign this Contract on behalf of the corporate entity, partnership, etc. The undersigned Parties warrant and represent that they each have the respective authority and permission to enter this Contract. In the event that Contractor is a member of a corporation, partnership, L.L.C., L.L.P., or any other juridical entity, the Parish requires, as an additional provision, that Contractor supply a certified copy of a corporate resolution authorizing the undersigned to enter and sign this Contract. Another option to fulfill this additional provision he/she can supply Louisiana Secretary of State Business filings confirming that he/she is a managing member of a corporation, partnership, L.L.C., L.L.P., or any other juridical entity which authorizes the undersigned to enter and sign this Contract.

**Bond No.:**\_\_\_\_\_

In Witness thereof, the Parties hereto on the day and year first above written have executed this Contract in **One (1)** counterpart, each of which shall, without proof or accountancy for the other counterparts, be deemed an original thereof.

**WITNESSES:**

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Print Name

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Print Name

**CONTRACTOR:**

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Print Name

\_\_\_\_\_  
Title

\_\_\_\_\_  
Date

Bond No.: \_\_\_\_\_

**WITNESSES:**

**ST. TAMMANY PARISH  
GOVERNMENT:**

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Print Name

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Print Name

\_\_\_\_\_  
**Michael B. Cooper**  
**Parish President**

\_\_\_\_\_  
Date

**APPROVED BY:**

\_\_\_\_\_  
**Assistant District Attorney**  
**Civil Division**

\_\_\_\_\_  
(Surety)

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Date

\_\_\_\_\_  
Print Name

SPECIAL DETAILS

201	BD.2.5.1.0.01 (CS216)	5/17/17
202-203	PSS-90-24-20SL	5/17/17
205	BD.2.6.1.3.01	8/20/18
206	BD.2.6.1.3.02	
207	BD.2.10.1.0.07 APPROACH	
	SLAB COMMON	06/19/17
208	BD.2.11.10.0.01	04/20/17
209	FR-01	05/30/17
210	YP-01	08/28/00
STANDARD PLANS		
211-212	EC-01	10/01/08
213	SHOULDER WEDGE	03/15/16
214	SWBS-100	03/06/13

DATUM USED  
VERTICAL: NAVD88 GEOD 12B BY  
RTK GPS OBSERVATION

HORIZONTAL: LOUISIANA STATE PLANE  
(NAD83) SOUTH ZONE (1702) BY RTK  
GPS OBSERVATION

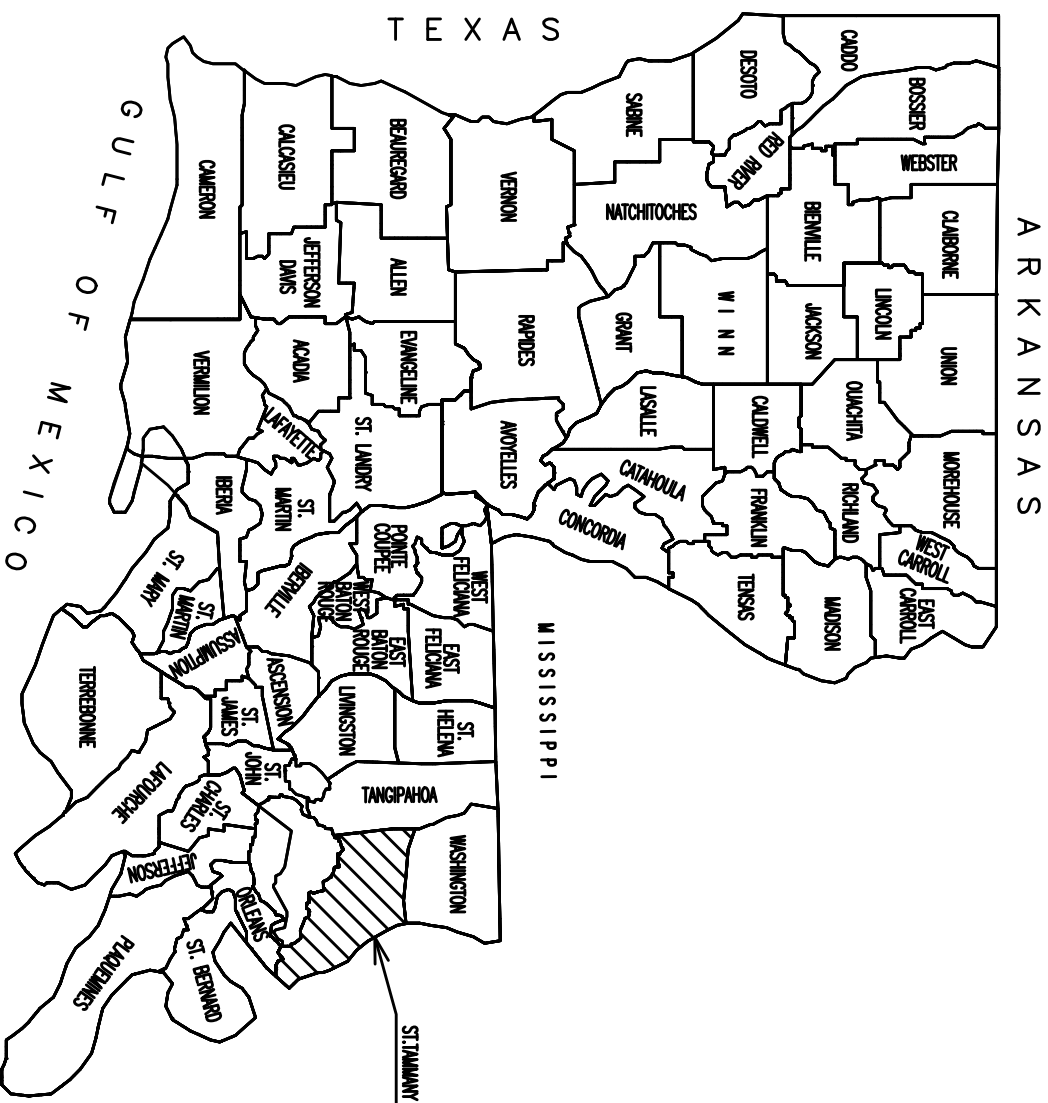
SCALES  
PLAN: 1" = 20'/40'  
PROFILE HOR.: 1" = 20'/40'  
PROFILE VERT.: 1" = 2'/4'  
SECTION HOR.: 1" = 10'/20'  
SECTION VERT.: 1" = 10'/20'

NOTE:  
ALL DISTANCES AND BEARINGS SHOWN  
ARE BASED ON GRID COORDINATES  
THE APPROPRIATE SCALE FACTOR  
MUST BE USED TO CONVERT TO  
GROUND DISTANCES AND THE  
APPROPRIATE CONVERGENCE MUST BE  
USED TO CONVERT TO TRUE BEARINGS

Sheet List Table

Sheet Number	Sheet Title
1	Title Sheet
2	Typical Section
3-3b	Summary Sheets
4-5	Plan & Profile
6	Drainage Map
7	Reference Points & Benchmarks
8	Guard Rail Layout
101-110	Bridge Plans
201-214	Standard Plans & Special Details
301-302	Cross Sections

ST. TAMMANY PARISH  
DEPT. OF ENGINEERING  
PLANS OF PROPOSED  
BRIDGE CAPITAL IMPROVEMENTS  
PARISH PROJECT NO. EN23000047  
ST. JOHN CHURCH RD BRIDGE

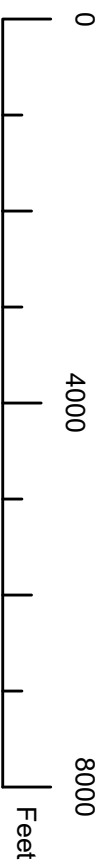
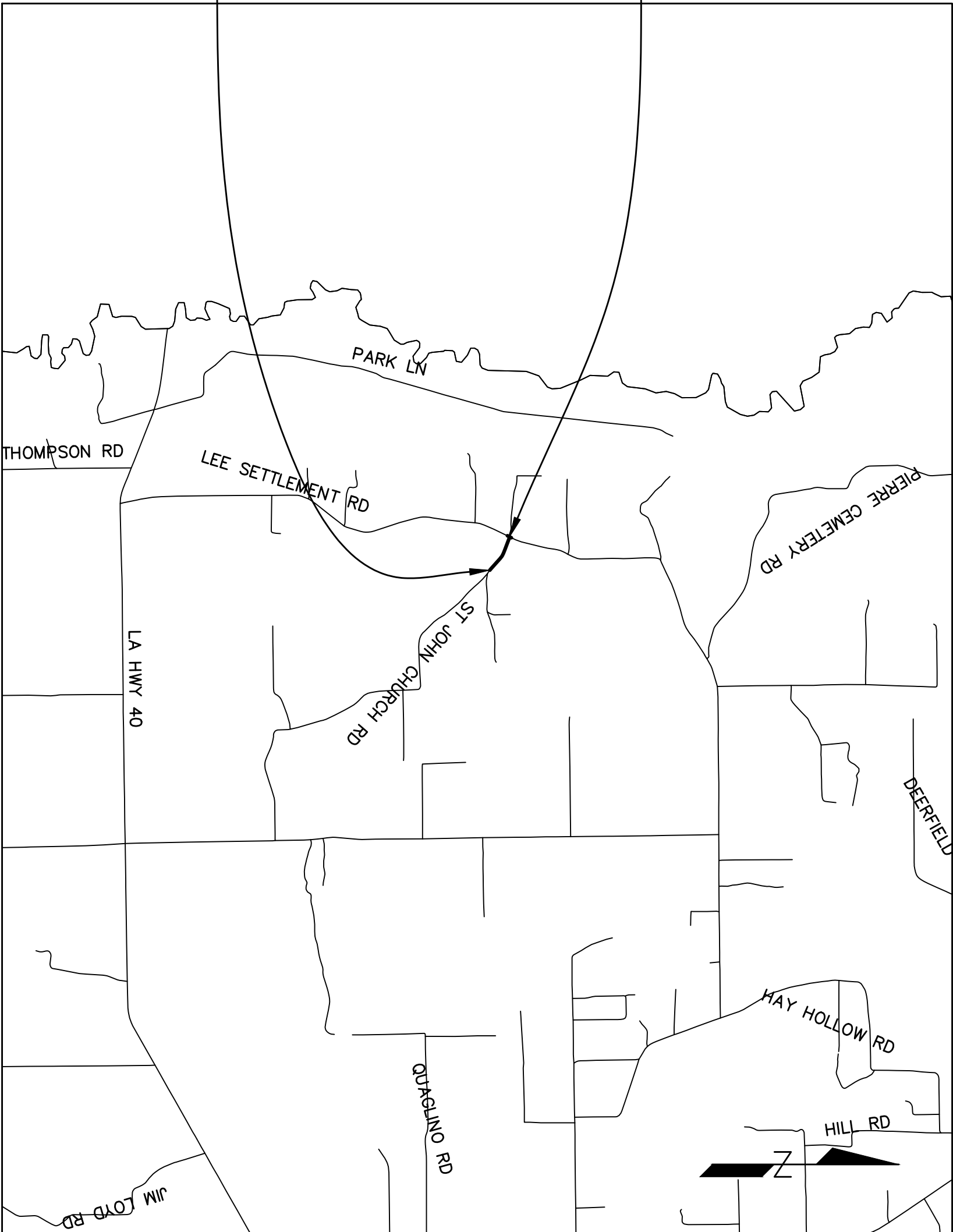


MICHAEL B. COOPER, PARISH PRESIDENT  
COUNCIL MEMBERS

RICK SMITH  
ARTHUR LAUGHLIN  
JOE IMPASTATO  
MARTHA J. CAZAUBON  
JEFF CORBIN  
DAVID COUGLE  
PAT PHILLIPS  
CHERYL TANNER  
LARRY ROLLING  
JERRY BINDER  
PATRICK BURKE III  
KATHY SEIDEN  
JIMMY STRICKLAND III  
MAUREEN O'BRIEN

TRAFFIC DATA  
2022 A.D.T. = 203  
2042 A.D.T. = 450  
D = 55%  
K = 17%  
T = 12%

ROADWAY CLASSIFICATION: RURAL LOCAL  
DESIGN SPEED = 30 M.P.H.  
POSTED SPEED = 25 M.P.H.



EARTHWORK: EXCAVATION = 1,106 CU. YDS.  
EMBANKMENT = 683 CU. YDS.

TYPE OF CONSTRUCTION:  
ASPHALT SURFACING AND BASE, REMOVAL OF  
EXISTING BRIDGE, CONSTRUCTION OF  
CONCRETE SLAB SPAN BRIDGE.

NOTE:  
THE 2016 LOUISIANA DOTD STANDARD SPECIFICATIONS FOR  
ROADS AND BRIDGES AS AMENDED BY THE PROJECT  
SPECIFICATIONS SHALL GOVERN ON THIS PROJECT.



ST. JOHN CHURCH RD BRIDGE  
TITLE SHEET

Project No.	EN23000047
Date	2/2/2024
Scale	NTS
Drawn By	JPC

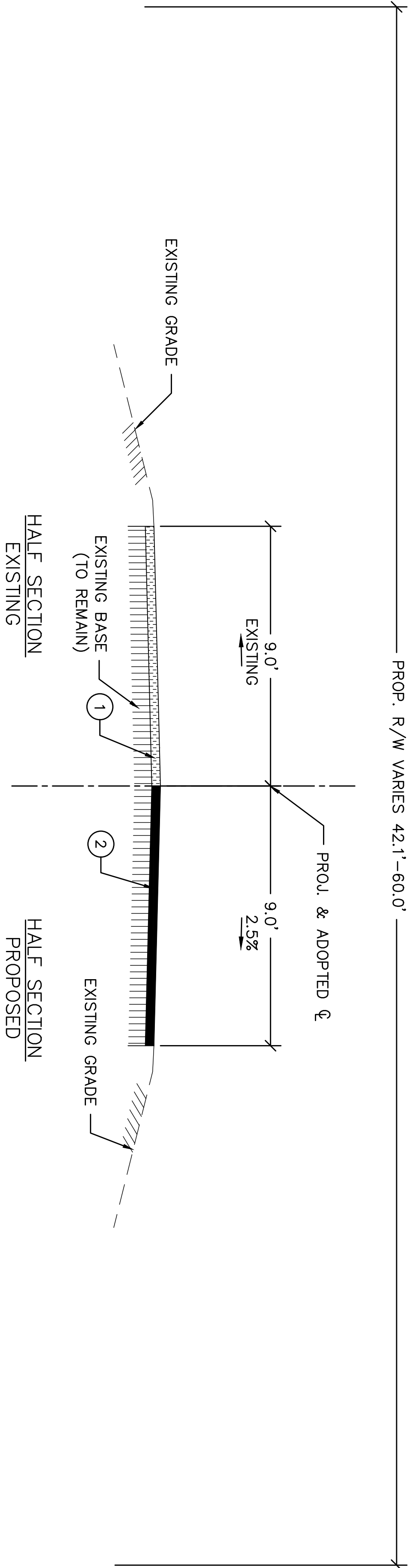
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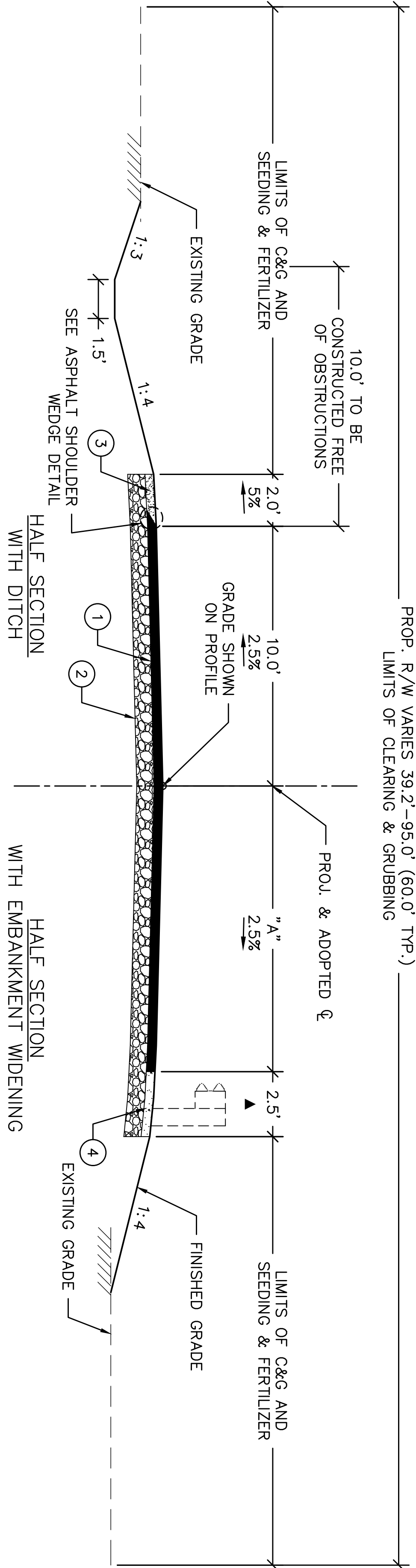




TYPICAL SECTION

APPLIES TO LEE SETTLEMENT RD

- 1 MILLING ASPHALT (½ IN. TO 2 IN.)
- 2 2" ASPHALT CONCRETE (WEARING) (LEVEL 1)



TYPICAL SECTION

APPLIES ST. JOHN CHURCH RD

STA. 100+22 TO 102+43

STA. 103+63 TO 107+00

NOTES:

20-YR ESAL LOADING IS 107,800

SN REQ'D = 2.28

SN PROVIDED = 2.77

- 1 4" ASPHALT CONCRETE (2" WEARING, 2" BINDER) (LEVEL 1)
- 2 8" CLASS II BASE COURSE (CRUSHED STONE)
- 3 4" AGGREGATE SURFACE
- 4 INCIDENTAL CONCRETE PAVING (4" THICK)
- ▲ SEE GUARD RAIL DETAILS FOR WIDTH AND SLOPE (10% TYP.)

ROADWAY DIMENSIONS

BEGIN STATION	END STATION	LANE WIDTH "A"		SHOULDER WIDTH "B"	
		L.T.	R.T.	L.T.	R.T.
102+22	100+38	19.60-10.00	10.00	N/A	2.00
100+38	101+66	10.00	10.00	2.00	2.00
101+66	101+81	11.00	11.00	1.00-2.50	1.00-2.50
101+81	102+43	11.00	11.00	2.50	2.50
102+43	103+83	APPROACH SLAB AND BRIDGE EXCEPTION			
103+83	104+42	11.00	11.00	2.50	2.50
104+42	104+55	11.00	11.00	2.50-2.30	2.50-2.30
104+55	104+91	10.00	10.00	3.30-2.00	3.30-2.00
104+91	106+00	10.00	10.00	2.00	2.00
106+00	107+00	10.00-8.10	10.00-7.40	2.00-1.00	2.00-1.00



ST. JOHN CHURCH RD BRIDGE

TYPICAL SECTION

Project No. EN23000047

Date 2/2/2024

Scale NTS

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EARTHWORK					
STATION		EXCAVATION (Cu. Yd.)	EMBANKMENT (Cu. Yd.)	DRAINAGE EXCAVATION (Cu. Yd.)	
BEGIN	END				
STA. ALONG ST. JOHN CHURCH RD					
100+40	102+63	150	197		0
102+63	103+64	0	0		816
103+64	107+00	140	486		0
GENERAL TOTAL		290	683		816

REMOVAL OF PIPE				
STATION	SIDE OF C/L	DESCRIPTION	CROSS DRAIN (FEET)	
STA. ALONG ST. JOHN CHURCH RD				
103+41	LT. & RT.	42" RCP	32	
103+70	LT. & RT.	42" RCP	32	
GENERAL TOTAL				64

REMOVAL OF ASPHALT PAVEMENT				
STATION		LENGTH (FEET)	WIDTH (FEET)	SQ. YD.
BEGIN	END			
STA. ALONG ST. JOHN CHURCH RD				
100+23	100+39	16	23	41
100+39	102+94	255	16	453
103+15	107+00	385	16	684
GENERAL TOTAL				1178

SAW CUTTING ASPHALTIC CONCRETE PAVEMENT					
BEGIN STATION	END STATION	SIDE OF C/L	LENGTH	DEPTH (INCHES)	IN-LF
STA. ALONG ST. JOHN CHURCH RD					
100+23		LT. & RT.	29.6	4	118
107+00		LT. & RT.	15.8	4	63
GENERAL TOTAL					182

REMOVAL OF FENCE				
BEGIN STATION	END STATION	SIDE OF C/L	DESCRIPTION	FEET
STA. ALONG ST. JOHN CHURCH RD				
100+42	102+92	LT.	Wire Fence w/Gate	263
103+15	106+99	LT.	Wire Fence	394
GENERAL TOTAL				657

MILLING ASPHALT PAVEMENT				
STATION	END	LENGTH (Feet)	MILLING ASPHALT PAVEMENT	Sq. Yd.
STA. ALONG LEE SETTLEMENT RD				
10+17	10+98	81	18	162.0
Turnouts		-	-	112.3
GENERAL TOTAL				274



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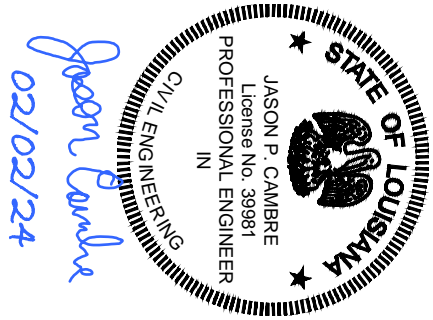
CLASS II BASE COURSE (CRUSHED STONE)						
STATION	STATION	DESCRIPTION	LENGTH (feet)	AVG WIDTH (feet)	SQ. YD.	CU. YD.
BEGIN	END					
STA. ALONG ST. JOHN CHURCH RD						
100+22	100+38	Roadway	16	26.8	47.6	10.6
100+38	101+66	Roadway	128	24.0	341.3	75.9
101+66	101+81	Roadway	15	25.5	42.5	9.4
101+81	102+43	Roadway	62	27.0	186.0	41.3
102+43	103+83	Bridge Exception	140	-	-	0.0
103+83	104+42	Roadway	59	27.0	177.0	39.3
104+42	104+91	Roadway	49	25.5	138.8	30.9
104+91	106+00	Roadway	109	24.0	290.7	64.6
106+00	107+00	Roadway	100	20.8	231.1	60.1
GENERAL TOTAL						332.1

AGGREGATE SURFACE COURSE					
BEGIN STATION	END STATION	SIDE OF C/L	LENGTH (FEET)	AVG. WIDTH (FEET)	THICKNESS (INCH)
STA. ALONG ST. JOHN CHURCH RD					
100+22	101+66	RT.	144	2.0	4
100+38	101+66	LT.	128	2.0	4
103+83	104+55	LT.	72	2.3	4
103+83	104+55	RT.	72	2.3	4
104+55	106+00	LT.	145	2.0	4
104+55	106+00	RT.	145	2.0	4
106+00	107+00	LT.	100	1.5	4
106+00	107+00	RT.	100	1.5	4
GENERAL TOTAL					
					21.8

ASPHALT CONCRETE PAVEMENT								
STATION		DESCRIPTION	LENGTH (feet)	WIDTH (feet)	Sq. Yd.	Asphalt Concrete		Asphalt Concrete, Drives, Turnouts & Misc. (TONS)
BEGIN	END					Wearing Course (TONS)	Binder Course (TONS)	
STA. ALONG LEE SETTLEMENT RD								
10+17	10+98	Roadway	81	18	162.0	17.8	0.0	0.0
10+17	10+98	Turnouts	-	-	112.3	0.0	0.0	12.4
STA. ALONG ST. JOHN CHURCH RD								
100+22	100+38	Roadway w/shoulder wedge	16	24.8	44.1	5.4	4.9	0.0
100+38	101+66	Roadway w/shoulder wedge	128	20	284.4	35.5	31.3	0.0
101+66	102+43	Roadway	77	22	188.2	97.7	20.7	0.0
102+43	103+83	Bridge Exception	140	-	-	0.0	0.0	0.0
103+83	104+55	Roadway	72	22	176.0	91.4	19.4	0.0
104+55	106+00	Roadway w/shoulder wedge	145	20	322.2	40.2	35.4	0.0
106+00	107+00	Roadway w/shoulder wedge	100	17.8	197.8	25.1	21.8	0.0
SUBTOTAL						313.1	133.4	12.4
GENERAL TOTAL						446.5		12.4

GUARD RAIL AND SIGNS				
Location	Guard Rail	Guard Rail Transitions	Guard Rail End Treatment	Object Marker Assembly (Type 3)
	Blocked Out Guard Rail - 31" (FEET)	Double Thrie Beam (FEET)	MASH (TL-3) Tangent (EACH)	(EACH)
St. John Church Rd	50	75	4	4
GENERAL TOTAL	50	75	4	4

INCIDENTAL CONCRETE PAVING					
BEGIN STATION	END STATION	SIDE OF C/L	DESCRIPTION	LENGTH (FEET)	AVG. WIDTH (FEET)
STA. ALONG ST. JOHN CHURCH RD					
101+65	101+81	RT.	Mow Strip	16	1.8
101+65	101+81	LT.	Mow Strip	16	1.8
101+87	102+43	RT.	Mow Strip	56	2.5
101+87	102+43	LT.	Mow Strip	56	2.5
103+83	104+55	RT.	Mow Strip	72	2.5
103+83	104+55	LT.	Mow Strip	72	2.5
GENERAL TOTAL					
					77.6




RIPRAP AND GEOTEXTILE FABRIC				
STATION		55 LB RIPRAP, 18" THICK (sq. Yd.)	GEOTEXTILE FABRIC (sq. Yd.)	
BEGIN	END			
STA. ALONG ST. JOHN CHURCH RD				
102+32	102+43	25.8		26
102+43	102+65	132.4		132
102+65	102+95	253.3		253
103+02	103+10	17.1		17
103+10	103+31	102.6		103
103+31	103+62	214.9		215
103+62	103+82	45.0		45
GENERAL TOTAL		791.1		791

ST. JOHN CHURCH RD BRIDGE

SUMMARY SHEETS

Rev. No	Date	Description



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Project No. EN23000047

Date 2/2/2024

Scale NTS

Drawn By JPC

3a

SUMMARY OF ESTIMATED QUANTITIES			
Item	Description	Unit	Quantity
201-01-00100	Clearing and Grubbing	LUMP	1
202-02-00010	Removal of Bridge (25' W x 19' L STA. 103+04)	EACH	1
202-02-02020	Removal of Asphalt Pavement	SQYD	1,178
202-02-12000	Removal of Fence	LNFT	657
202-02-32100	Removal of Pipe (Cross Drain) (42" RCP)	LNFT	64
203-01-00100	General Excavation	CUYD	290
203-02-00100	Drainage Excavation	CUYD	816
203-03-00100	Embankment	CUYD	683
204-02-00100	Temporary Hay Bales	EACH	30
204-06-00100	Temporary Silt Fencing	LNFT	1,400
302-01-00300	Class II Base (Crushed Stone)	CUYD	332.1
401-01-00100	Aggregate Surface Course (Net Section)	CUYD	21.8
502-01-00100	Asphalt Concrete	TONS	446.5
502-01-00200	Asphalt Concrete, Drives, Turnouts and Miscellaneous	TONS	12.4
509-01-00100	Milling Asphalt Pavement	SQYD	274
704-03-00200	Blocked Out Guard Rail - 31" (6'-3" Post Spacing)	LNFT	50
704-07-00200	Guard Rail Transitions (Double Thrie Beam)	LNFT	75
704-10-00205	Guard Rail End Treatment, MASH (TL-3 Tangent)	EACH	4
706-03-00100	Incidental Concrete Paving (4" Thick)	SQYD	77.6
708-01-00100	Right-of-Way Monument	EACH	26
711-01-04020	Riprap (55 lb, 18" Thick)	SQYD	791.1
711-04-00100	Geotextile Fabric	SQYD	791
713-01-00100	Temporary Signs and Barricades	LUMP	1
727-01-00100	Mobilization	LUMP	1
729-16-00300	Object Marker Assembly (Type 3)	EACH	4
739-01-00100	Hydro-seeding	ACRE	1
740-01-00100	Construction Layout	LUMP	1
804-01-00300	Precast Concrete Piles (16")	LNFT	1,494
804-10-00300	Precast Concrete Indicator Piles (16")	EACH	1
804-14-00100	Dynamic Monitoring Assistance	EACH	8
805-01-00100	Class A1 Concrete (Slab Span)	CUYD	110.4
805-01-00300	Class A1 Concrete (Bent Cap)	CUYD	28.1
805-18-00100	Concrete Finish (Class 2 Rubbed Finish)	SQFT	1,383
805-18-00200	Concrete Finish (Class 3 Special Finish)	SQFT	1,600
806-01-00100	Deformed Reinforcing Steel	LB	27,810
810-01-00200	Concrete Bridge Railing (Slotted)	LNFT	200
813-01-00100	Concrete Approach Slabs (Cast-in-Place)	SQFT	1,000
815-03-00300	Joint Seal (Poured)	LNFT	159
NS-500-00340	Saw Cutting Asphalt Concrete Pavement	INLF	182



Project No.	EN23000047
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3b

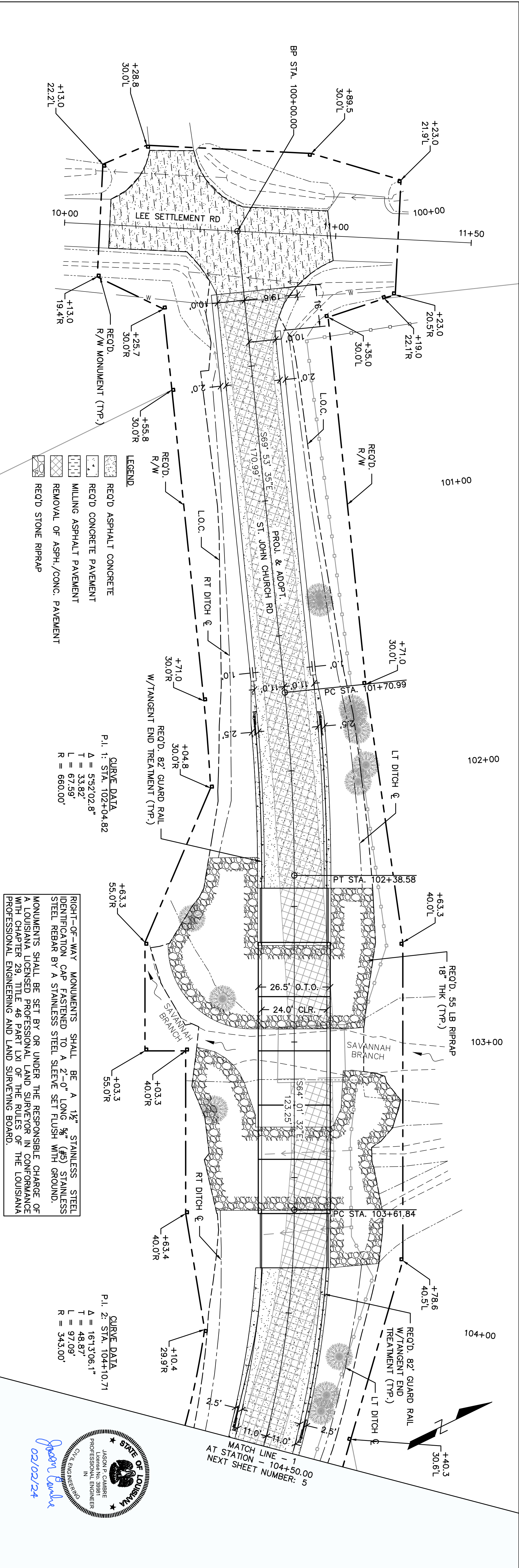


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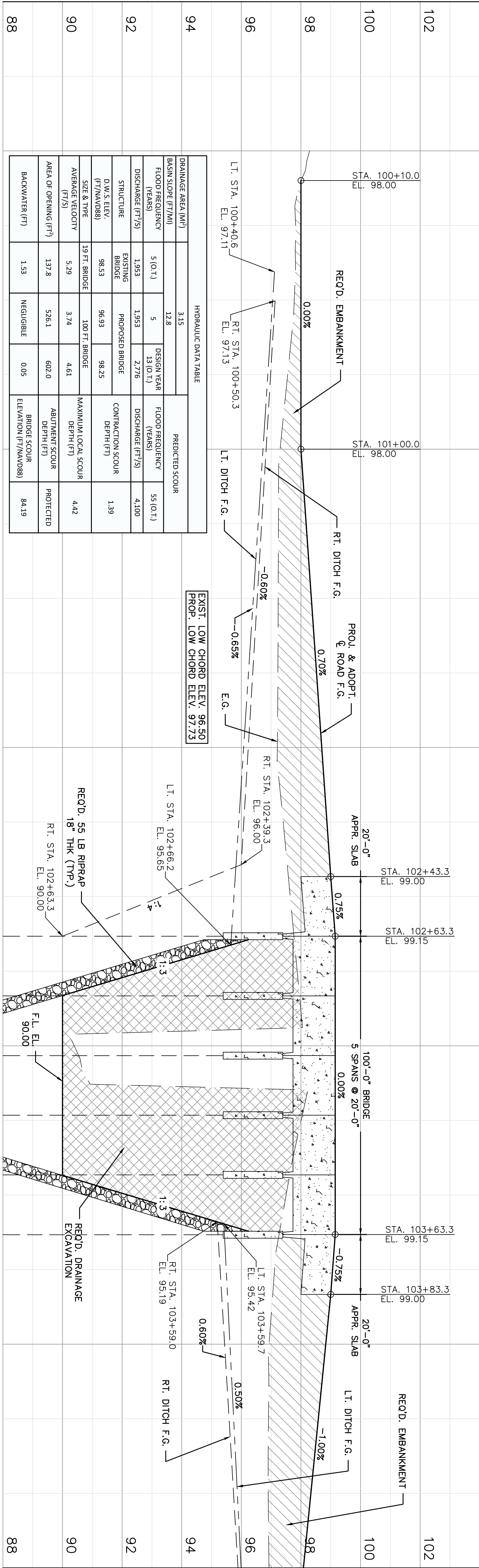
ST. JOHN CHURCH RD BRIDGE  
SUMMARY SHEETS





RIGHT-OF-WAY MONUMENTS SHALL BE A 1 1/2" STAINLESS STEEL IDENTIFICATION CAP FASTENED TO A 2'-0" LONG 3/4" (#5) STAINLESS STEEL REBAR BY A STAINLESS STEEL SLEEVE SET FLUSH WITH GROUND.

MONUMENTS SHALL BE SET BY OR UNDER THE RESPONSIBLE CHARGE OF A LOUISIANA LICENSED PROFESSIONAL LAND SURVEYOR IN CONFORMANCE WITH CHAPTER 29, TITLE 46 PART LXI OF THE RULES OF THE LOUISIANA PROFESSIONAL ENGINEERING AND LAND SURVEYING BOARD.



EXIST. LOW CHORD ELEV. 96.50  
PROP. LOW CHORD ELEV. 97.73

DRAINAGE AREA (MP)				PREDICTED SCOUR			
HYDRAULIC DATA TABLE							
BASIN SLOPE (F/T/M)	12.8	DESIGN YEAR	5	FLOOD FREQUENCY (YEARS)	53 (0.1)		
FLOOD FREQUENCY (YEARS)	5	13 (0.1)	2.776	DISCHARGE (FT <sup>3</sup> /S)	4,100		
DISCHARGE (FT <sup>3</sup> /S)	1,953	1,953	2,776	CONTRACTION SCOUR DEPTH (FT)	1.39		
STRUCTURE	EXISTING BRIDGE	PROPOSED BRIDGE					
D.W.S. ELEV. (FT/NAVD83)	98.53	98.25					
SIZE & TYPE	19 FT. BRIDGE	100 FT. BRIDGE					
AVERAGE VELOCITY (F/T)	5.29	3.74	4.61	MAXIMUM LOCAL SCOUR DEPTH (FT)	4.42		
AREA OF OPENING (FT <sup>2</sup> )	137.8	526.1	602.0	ABUTMENT SCOUR DEPTH (FT)	PROTECTED		
BACKWATER (FT)	1.53	NEGIGIBLE	0.05	BRIDGE SCOUR ELEVATION (FT/NAVD83)	84.19		



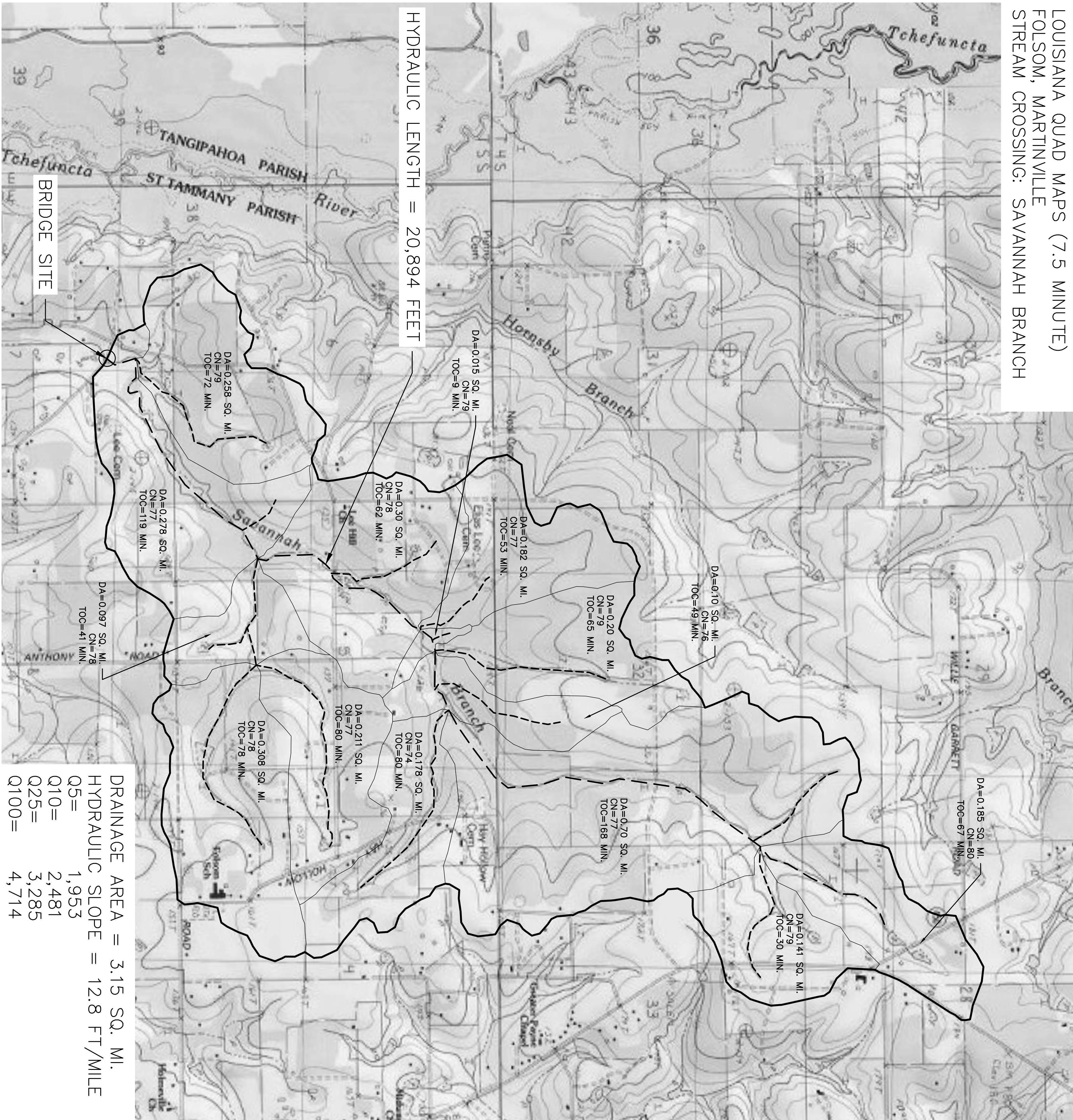
Rev. No	Date	Description







LOUISIANA QUAD MAPS (7.5 MINUTE)  
FOLSOM, MARTINVILLE  
STREAM CROSSING: SAVANNAH BRANCH



Project No.	EN23000047
Date	2/2/2024
Scale	1" = 1000'
Drawn By	JPC

6

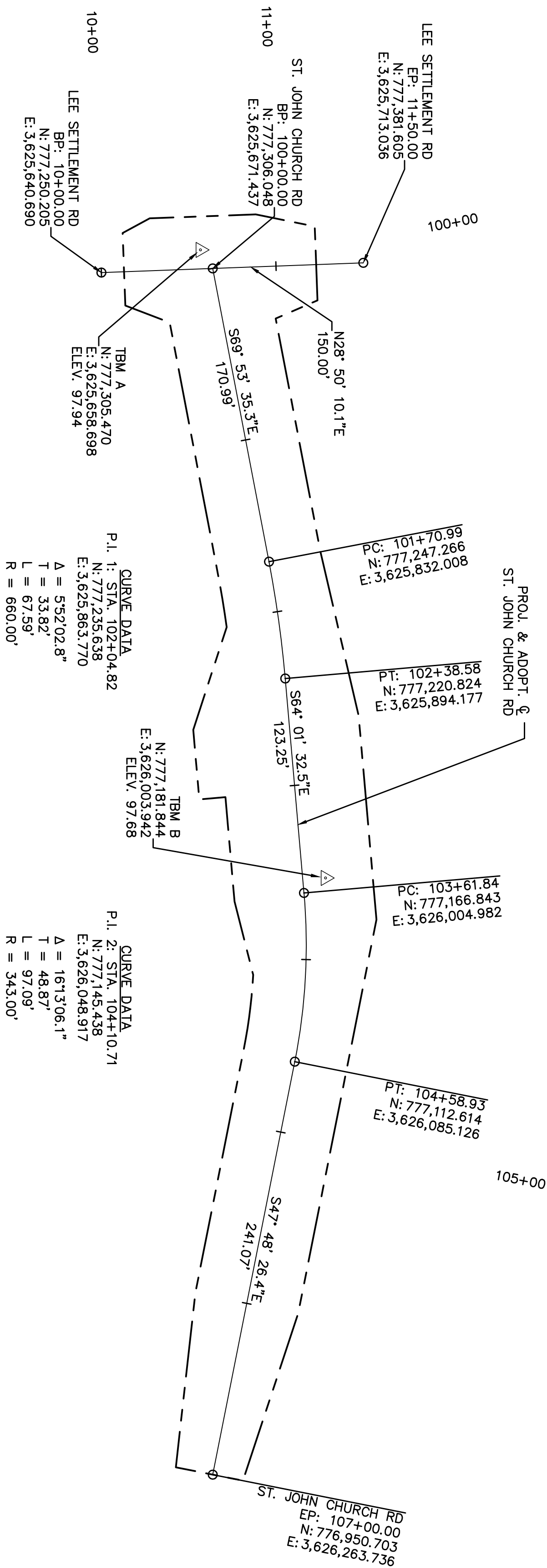
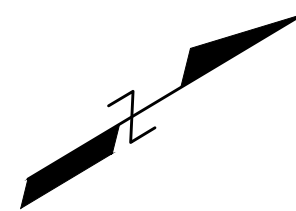


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ST. JOHN CHURCH RD BRIDGE  
DRAINAGE MAP





Project No. EN23000047  
Date 2/2/2024  
Scale 1" = 50'  
Drawn By JPC

Sheet 2

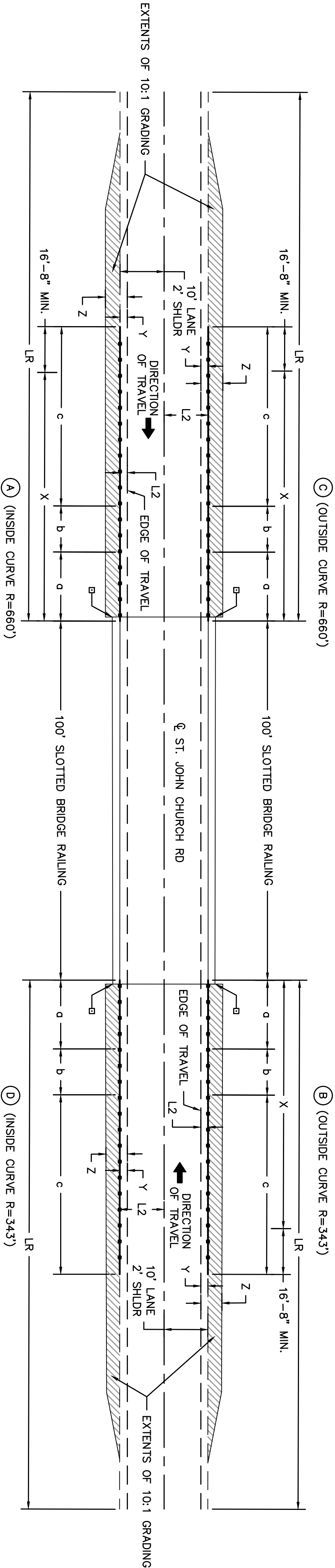


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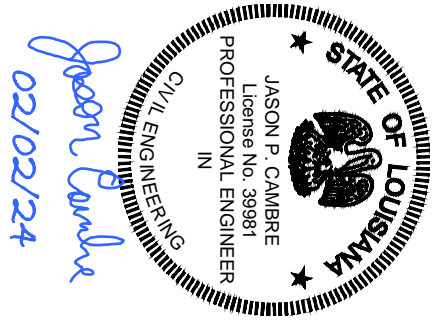
ST. JOHN CHURCH RD BRIDGE  
REFERENCE POINTS & BENCHMARKS

GUARD RAIL DESIGN DATA					
HIGHWAY CLASSIFICATION			DESIGN SPEED	DESIGN ADT	LC
RURAL LOCAL ROAD			30 MPH	452	10'
K <sub>02</sub>	LR	LA	L2	b/a	X
(A)	1.0	70'	10'	1.75'	0
(B)	1.4	70'	14'	1.75'	0
(C)	1.2	70'	12'	11.75'	0
(D)	1.0	70'	10'	11.75'	0



GUARD RAIL ITEM LENGTHS		
SECTION	PAY ITEM	LENGTH
a	704-07-00200	18'-9"
b	704-03-00200	12'-6"
c	704-10-00205	50'-9 1/2"

729-16-00300 OBJECT MARKER ASSEMBLY (TYPE 3)






Sheet List Table	
Sheet Number	Sheet Title
101	Bridge Index
102	Bridge General Notes
103	Summary of Bridge Quantities
104-105	Bridge General Plan
106	Foundation Layout
107	Pile Data Table
108-110	Soil Boring Logs



Project No.	EN23000047
Date	2/2/2024
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Sheet  
**101**



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ST. JOHN CHURCH RD BRIDGE

BRIDGE INDEX

BRIDGE GENERAL NOTES

CONSTRUCTION SPECIFICATIONS: CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LOUISIANA DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT, OFFICE OF HIGHWAYS, EXCEPT AS SUPPLEMENTED OR AMENDED BY THE PLANS, SUPPLEMENTAL SPECIFICATIONS AND/OR SPECIAL PROVISIONS.

ELEVATIONS: ALL ELEVATIONS ARE BASED ON NAVD88 DATUM GEOID 12B.

DIMENSIONS: DIMENSIONS ARE GIVEN AT NORMAL TEMPERATURE (68° F).

DESIGN SPEED: 30 MPH

DESIGN SPECIFICATIONS: STRUCTURE DESIGN IS IN ACCORDANCE WITH AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 4TH EDITION WITH 2008 & 2009 INTERIMS. GEOMETRIC DESIGN IS IN ACCORDANCE WITH "A POLICY ON GEOMETRIC DESIGN OF HIGHWAYS AND STREETS 2004".

DESIGN CRITERIA: THE BRIDGE IS DESIGNED FOR A FUTURE WEARING SURFACE EQUAL TO 19 PSF.

LIVE LOADING:

LIVE LOADING SHALL BE LOUISIANA DESIGN VEHICLE LIVE LOAD 2011 (LADV-11) WHICH IS A PRODUCT OF HL-93 WITH A MAGNIFICATION FACTOR (MF). MAGNIFICATION FACTOR OF 1.3 IS APPLIED TO ALL BRIDGE ELEMENTS FOR MOMENT & SHEAR FOR SLAB SPAN SUPERSTRUCTURE. MF OF 1.55 IS USED FOR PILE SERVICE LOADS.

HL-93 = HS 20 TRUCK OR TANDEM TRUCK PLUS 0.64 K/FT LANE LOAD.

CONCRETE: ALL SUPERSTRUCTURE CONCRETE SHALL BE CLASS "A1" CONCRETE (SLAB SPAN). ALL SUBSTRUCTURE CONCRETE SHALL BE CLASS "A1" CONCRETE (BENT CAP) UNLESS OTHERWISE SPECIFIED IN THE PLANS. CHAMFER ALL EXPOSED EDGES OF CONCRETE 3/4" UNLESS OTHERWISE NOTED. CONCRETE AND REINFORCING STEEL IN RAILING TO BE PAID FOR PER LINEAR FOOT OF CONCRETE RAILING INCLUDING ALL BARS THAT PROJECT INTO THE RAILING. AFTER COMPLETING DECK POUR, CONCRETE SHALL ATTAIN A MINIMUM COMPRESSIVE STRENGTH OF 4,000 PSI BEFORE PLACEMENT OF REINFORCING

STEEL AND FORMS FOR RAILING.

FINISH OF CONCRETE: SURFACES SHALL BE FINISHED IN ACCORDANCE WITH ARTICLE 805.08 "CONCRETE SURFACE FINISHES" OF THE LOUISIANA STANDARD SPECIFICATIONS FOR ROADS AND BRIDGES, AND BRIDGE DESIGN TECHNICAL MEMORANDUM.

YEAR PLATE: DATE OF CONSTRUCTION IS REQUIRED ON RIGHT WING WALL OF STRUCTURE FOR ONCOMING LANE, SEE DETAIL YP-01.

REINFORCING STEEL: DIMENSIONS RELATING TO REINFORCING STEEL FABRICATION ARE OUT-TO-OUT OF BAR UNLESS OTHERWISE NOTED. DIMENSIONS RELATING TO REINFORCING STEEL SPACING ARE CENTER TO CENTER OF BAR. THE MINIMUM COVERING FROM THE SURFACE OF THE CONCRETE TO THE FACE OF ANY DEFORMED REINFORCING BAR SHALL NOT BE LESS THAN THE FOLLOWING AND SHALL SUBSTITUTE ANY CONFLICTING DIMENSIONS STATED ON STANDARD PLANS AND DETAILS:

TOP OF SLAB = 2 1/2"  
BOTTOM OF SLAB = 1 1/2"

ALL OTHER REINFORCING STEEL COVER SHALL BE 2" UNLESS OTHERWISE NOTED IN THE PLANS. SEE STANDARD PLAN S.W.B.S. 100 FOR BAR SUPPORTS FOR REINFORCING STEEL. REINFORCING STEEL SHALL BE GRADE 60 STEEL. THE FIRST DIGIT OF REINFORCING BAR INDICATES BAR SIZE.

PILES: ALL PILE REQUIREMENTS INCLUDING SIZE, TYPE, LOCATION, AND MAXIMUM DESIGN LOAD SHALL BE AS DESCRIBED IN THE CONTRACT DOCUMENTS. THE TARGET PILE TIP ELEVATION WILL BE THE PLAN TIP ELEVATION AS SHOWN IN THE PRODUCTION PILE DATA TABLE UNLESS OTHERWISE NOTED OR DIRECTED BY THE GEOTECHNICAL ENGINEER. PLAN LENGTHS PROVIDED IN THE PRODUCTION PILE DATA TABLE ARE TENTATIVE ORDER LENGTHS UNTIL SUCCESSFUL COMPLETION OF INDICATOR PILE PROGRAM. FOR OTHER PILE NOTES SEE SHEETS 106 AND 107.

ENVIRONMENTAL COMPLIANCE: PRIOR TO THE COMMENCEMENT OF ANY WORK, THE CONTRACTOR SHALL OBTAIN A COPY OF ALL

PERMITS AND AGREEMENTS OBTAINED BY THE PARISH. THE CONTRACTOR SHALL THOROUGHLY EXAMINE AND COMPLY WITH ALL REQUIREMENTS SET FORTH IN THOSE DOCUMENTS.

DECK JOINTS:

ALL DECK JOINTS SHALL BE JOINT SEALANT IN ACCORDANCE WITH SUBSECTION 815.04.

CONCRETE FORMWORK

THE CONTRACTOR SHALL SUBMIT A COPY OF FORMING PLANS TO THE ENGINEER. THE FORMING PLANS MUST SHOW ALL ESSENTIAL DETAILS OF PROPOSED FORM SHEETS, CLOSURES, FASTENERS, SUPPORTS, CONNECTIONS, SPECIAL CONDITIONS, AND SIZE AND LOCATION OF WELDS.

REMOVAL OF EXISTING BRIDGE:

THE EXISTING BRIDGE SHALL BE REMOVED. FOR DESCRIPTION OF THE EXISTING BRIDGE AND REQUIREMENTS SEE SHEET 104.

AS-DESIGNED BRIDGE RATING TABLE				NOTES
VEHICLE	SUPERSTRUCTURE	SUBSTRUCTURE		
HL-93 (INV)	1.347	1.793		
HL-93 (OPR)	1.746	2.324		
LADV-11 (INV)	1.036	1.379		MF = 1.30



Rev. No	Date	Description

SUMMARY OF BRIDGE QUANTITIES			
Item	Description	Unit	Quantity
202-02-00010	Removal of Bridge (25' W x 19' L STA. 103+04)	EACH	1
203-02-00100	Drainage Excavation	CUYD	816
704-03-00200	Blocked Out Guard Rail - 31" (6'-3" Post Spacing)	LNFT	50
704-07-00200	Guard Rail Transitions (Double Thrie Beam)	LNFT	75
704-10-00205	Guard Rail End Treatment, MASH (TL-3 Tangent)	EACH	4
711-01-04020	Riprap (55 lb, 18" Thick)	SQYD	791.1
711-04-00100	Geotextile Fabric	SQYD	791
729-16-00300	Object Marker Assembly (Type 3)	EACH	4
804-01-00300	Precast Concrete Piles (16")	LNFT	1,494
804-10-00300	Precast Concrete Indicator Piles (16")	EACH	1
804-14-00100	Dynamic Monitoring Assistance	EACH	8
805-01-00100	Class A1 Concrete (Slab Span)	CUYD	110.4
805-01-00300	Class A1 Concrete (Bent Cap)	CUYD	28.1
805-18-00100	Concrete Finish (Class 2 Rubbed Finish)	SQFT	1,383
805-18-00200	Concrete Finish (Class 3 Special Finish)	SQFT	1,600
806-01-00100	Deformed Reinforcing Steel	LB	27,810
810-01-00200	Concrete Bridge Railing (Slotted)	LNFT	200
813-01-00100	Concrete Approach Slabs (Cast-In-Place)	SQFT	1,000
815-03-00300	Joint Seal (Poured)	LNFT	159



Project No.	EN23000047
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Scale	NTS
Drawn By	JPC

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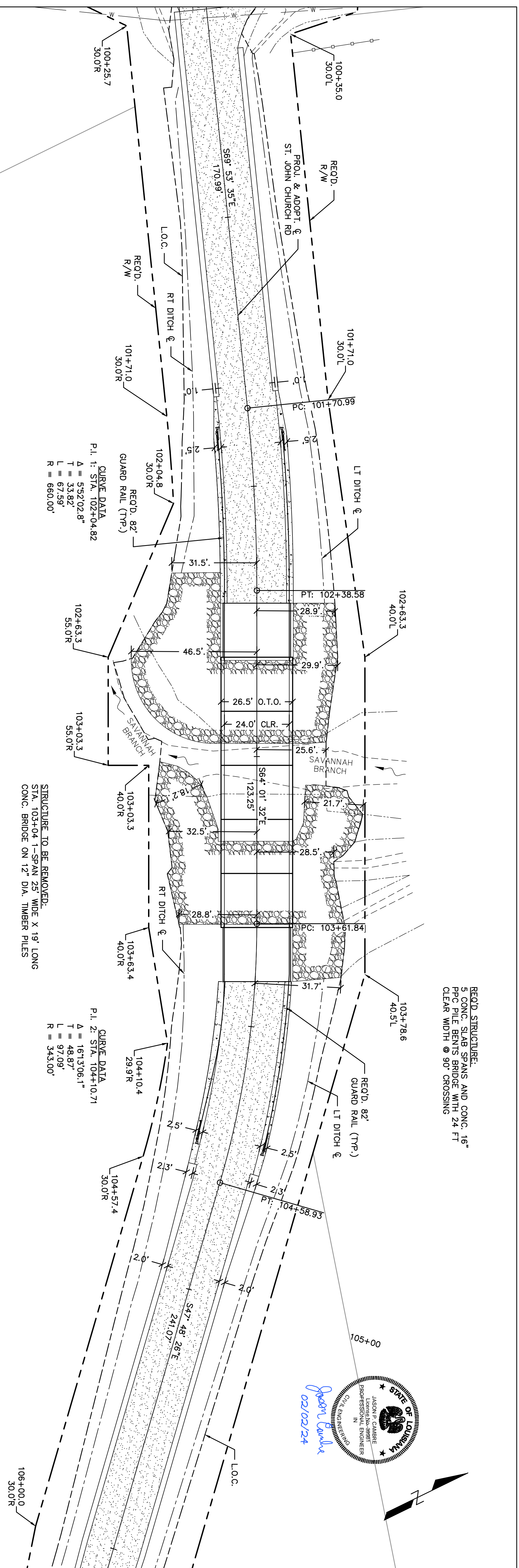


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Rev. No	Date	Description

ST. JOHN CHURCH RD BRIDGE  
SUMMARY OF BRIDGE QUANTITIES



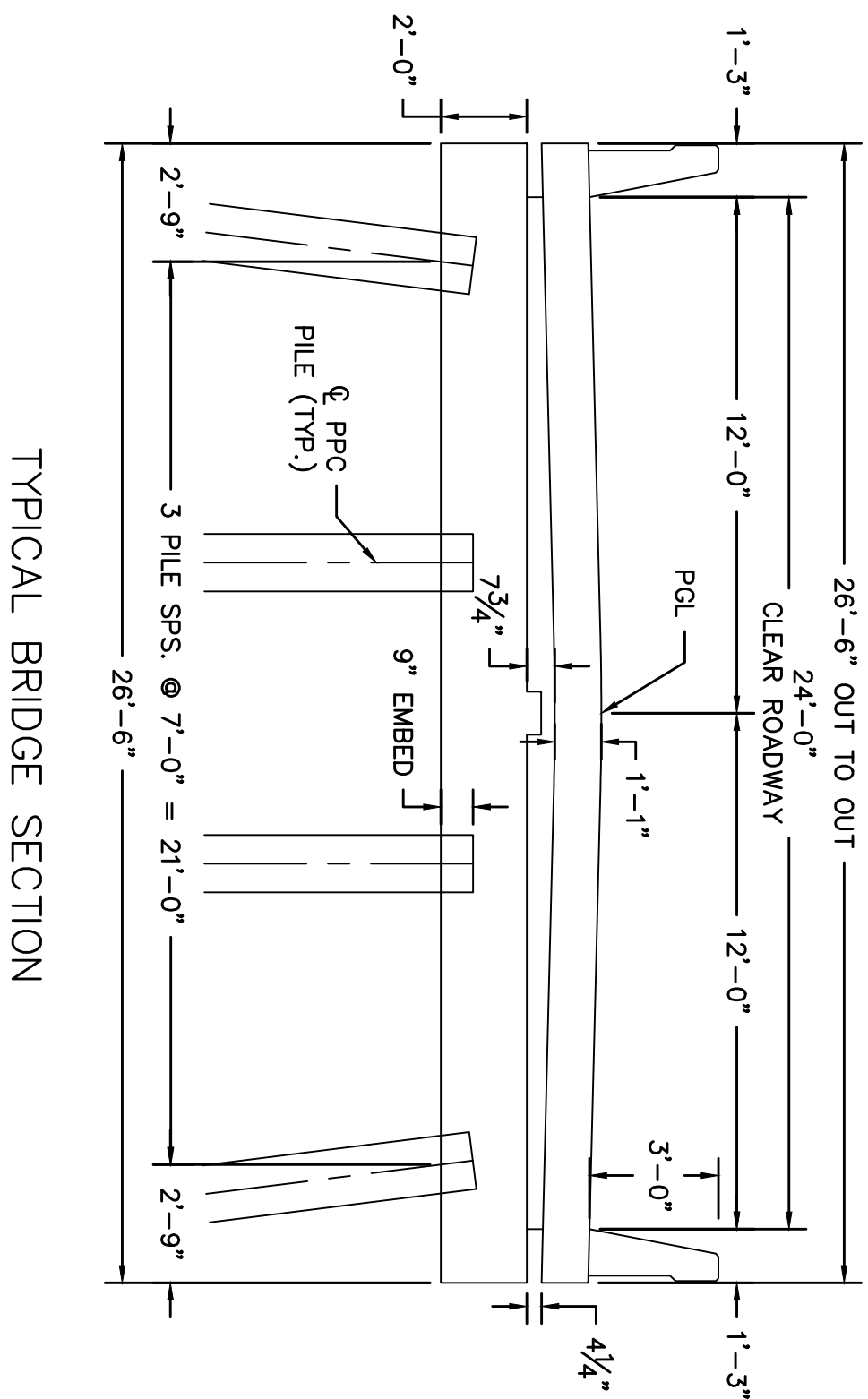


Technical drawing of a bridge section showing spans, embankments, and various structural details like riprap and drainage.

Key features and labels include:

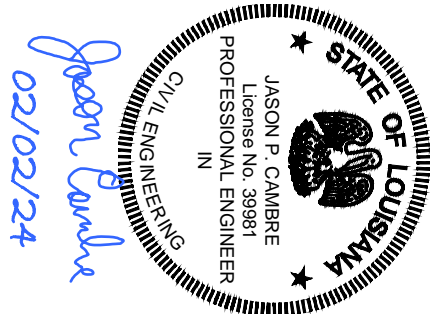
- Spans:** 5 SPANS @ 20'-0" BRIDGE
- Grades:** 0.00%, 0.70%, 0.75%, -0.75%, -1.00%
- Structural Details:**
  - REC'D. EMBANKMENT
  - REC'D. 55 LB RIPRAP 18" THK (TYP)
  - REC'D. DRAINAGE EXCAVATION 816 CUYD
  - 4-16" PPC PILES (TYP)
  - 3x3' RIPRAP TDE (TYP)
  - 10-YR WSE 97.70
  - 5-YR WSE 96.92
  - F.L. EL. 90.00
- Stationing and Elevation:**
  - STA. 101+00.00 EL. 98.00
  - STA. 102+43.26 EL. 99.00
  - STA. 102+63.26 EL. 99.15
  - STA. 103+63.26 EL. 99.15
  - STA. 103+83.32 EL. 99.00
  - STA. 104+83.31 EL. 98.00
- Legend:**
  - F = FIXED BEARING
  - E = EXPANSION BEARING
- Scales:**
  - 1" = 20' HORIZ.
  - 1" = 5' VERT.
- Notes:**
  - EXIST. LOW CHORD ELEV. 96.50
  - PROP. LOW CHORD ELEV. 97.73

1. MATERIAL FROM EXISTING BRIDGE SHALL BECOME PROPERTY OF THE CONTRACTOR AND WILL BE DISPOSED OF BEYOND THE LIMITS OF THE R/W IN A LAWFUL MANNER.
2. VEGETATIVE MATERIAL AND DEBRIS REMOVED FROM SITE SHALL BECOME PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF BEYOND THE LIMITS OF THE R/W IN A LAWFUL MANNER.
3. DATE OF CONSTRUCTION REQUIRED AT EACH END OF BRIDGE. SEE STANDARD DETAIL YP-01.
4. UTILITIES TO BE RELOCATED BY OTHERS.
5. EXISTING PILES ARE TO BE CUT OFF TWO FEET BELOW FINISHED GRADE. ANY PILES INTERFERING WITH THE INSTALLATION OF NEW PILES WILL BE REMOVED AT NO DIRECT COST.



SUMMARY OF SURFACE FINISH QUANTITIES			
STRUCTURE COMPONENT	CLASS 2, RUBBED (SQ. FT.)	CLASS 3, SPECIAL (SQ. FT.)	LOCATION
RECALL NO. TBD			
BRIDGE RAILING	1383	1383	STA. 102+63 TO STA. 103+63
SLAB/DECK FASCIA	0	217	
GENERAL TOTAL	1383	1600	

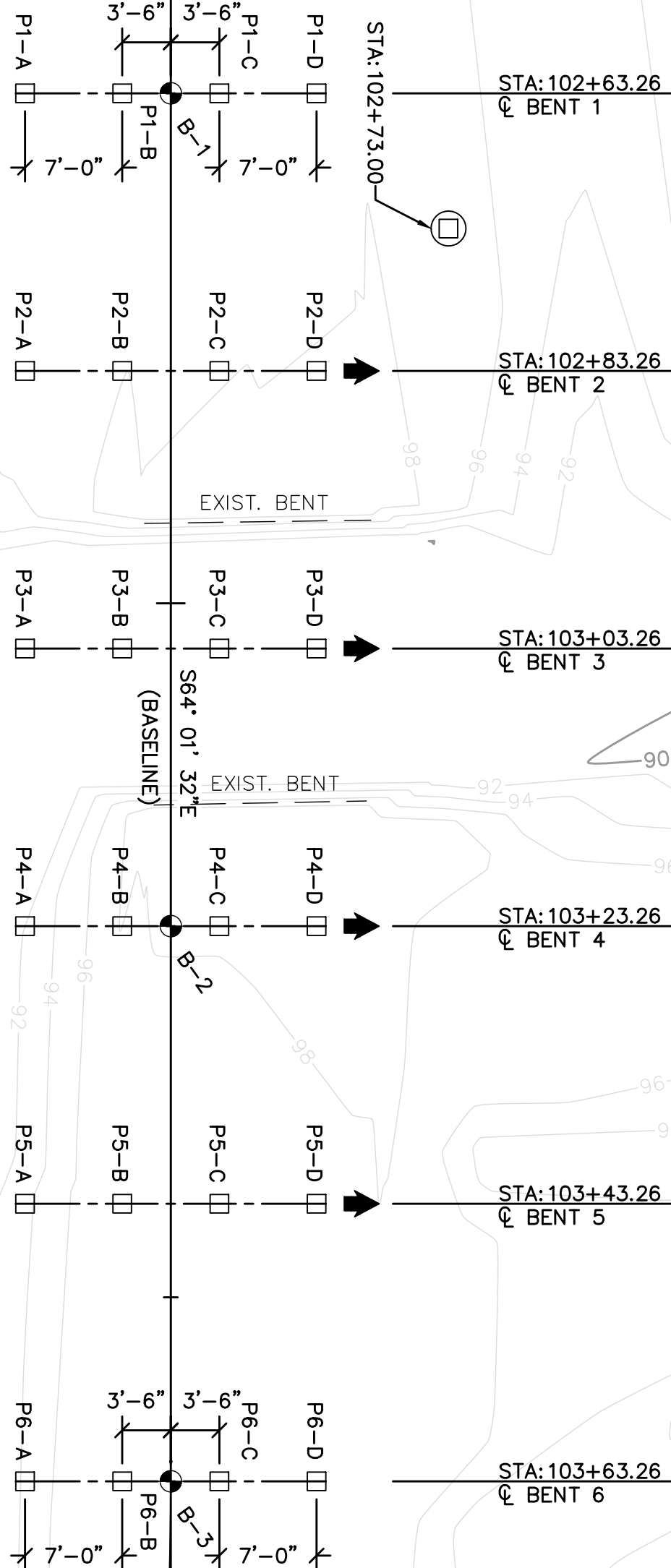
HYDRAULIC DATA TABLE					
DRAINAGE AREA (MI <sup>2</sup> )	3.15		PREDICTED SCOUR		
	12.8				
BASIN SLOPE (FT/MI)					
FLOOD FREQUENCY (YEARS)	5 (O.T.)	5	DESIGN YEAR 13 (O.T.)	FLOOD FREQUENCY (YEARS)	55 (O.T.)
DISCHARGE (FT <sup>3</sup> /S)	1,953	1,953	2,776	DISCHARGE (FT <sup>3</sup> /S)	4,100
STRUCTURE	EXISTING BRIDGE	PROPOSED BRIDGE		CONTRACTION SCOUR DEPTH (FT)	
D.W.S. ELEV. (FT/NAVD88)	98.53	96.93	98.25	1.39	
SIZE & TYPE	19 FT. BRIDGE	100 FT. BRIDGE		MAXIMUM LOCAL SCOUR DEPTH (FT)	
AVERAGE VELOCITY (FT/S)	5.29	3.74	4.61	4.42	
AREA OF OPENING (FT <sup>2</sup> )	137.8	526.1	602.0	ABUTMENT SCOUR DEPTH (FT)	
BACKWATER (FT)	1.53	NEGIGIBLE	0.05	BRIDGE SCOUR ELEVATION (FT/NAVD88)	
				84.19	





PILE LAYOUT TABLE			
BENT NO.	BENT STATION	PILE DESIGNATION	PILE TYPE & SIZE (IN)
1	102+63.26	P1-A	16" SQUID PPC 10'-6" RT.
		P1-B	16" SQUID PPC 3'-6" RT.
		P1-C	16" SQUID PPC 3'-6" LT.
		P1-D	16" SQUID PPC 10'-6" LT.
2	102+83.26	P2-A	16" SQUID PPC 10'-6" RT.
		P2-B	16" SQUID PPC 3'-6" RT.
		P2-C	16" SQUID PPC 3'-6" LT.
		P2-D	16" SQUID PPC 10'-6" LT.
3	103+03.26	P3-A	16" SQUID PPC 10'-6" RT.
		P3-B	16" SQUID PPC 3'-6" RT.
		P3-C	16" SQUID PPC 3'-6" LT.
		P3-D	16" SQUID PPC 10'-6" LT.
4	103+23.26	P4-A	16" SQUID PPC 10'-6" RT.
		P4-B	16" SQUID PPC 3'-6" RT.
		P4-C	16" SQUID PPC 10'-6" LT.
		P4-D	16" SQUID PPC 10'-6" LT.
5	103+43.26	P5-A	16" SQUID PPC 10'-6" RT.
		P5-B	16" SQUID PPC 3'-6" RT.
		P5-C	16" SQUID PPC 3'-6" LT.
		P5-D	16" SQUID PPC 10'-6" LT.
6	103+63.26	P6-A	16" SQUID PPC 10'-6" RT.
		P6-B	16" SQUID PPC 3'-6" RT.
		P6-C	16" SQUID PPC 3'-6" LT.
		P6-D	16" SQUID PPC 10'-6" LT.

INDICATES BATTER PILES 1½" IN 12"  
INDICATES INDICATOR PILE



Project No.	EN23000047
Date	2/2/2024
Scale	1" = 10'
Drawn By	JPC

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Rev. No	Date	Description

ST. JOHN CHURCH RD BRIDGE  
FOUNDATION LAYOUT

PILE DATA TABLE												
BENT NO.	STATION	NO. OF PILES	TYPE & SIZE (IN)	MONITOR PILE REQUIRED (Y OR N)	SERVICE LOAD (TONS)		STRENGTH LOAD (TONS)	SOIL RESISTANCE FACTOR	REQUIRED NOMINAL PILE RESISTANCE (TONS)		MAX. CUT-OFF ELEV. (FT)	AS-BUILT TIP ELEV. (FT)
					DL (DC+DW)	LL			WITHOUT PREBORING	PREBORING TO SCOUR DEPTH		
1	102+63.26	4	16"Ø SOLID PPC	N	21	34	76	0.65	160	154	96.17	64.61
2	102+83.26	4	16"Ø SOLID PPC	Y	21	34	76	0.65	139	133	96.17	59.19
3	103+03.26	4	16"Ø SOLID PPC	N	21	34	76	0.65	128	126	96.17	59.19
4	103+23.26	4	16"Ø SOLID PPC	N	21	34	76	0.65	128	126	96.17	59.19
5	103+43.26	4	16"Ø SOLID PPC	N	21	34	76	0.65	127	125	96.17	59.19
6	103+63.26	4	16"Ø SOLID PPC	Y	21	34	76	0.65	165	159	96.17	64.61

REQUIRED PILE RESISTANCE:

IF PREBORING TO SCOUR ELEVATION IS NOT PERFORMED, THE REQUIRED RESISTANCE SHALL BE DETERMINED AS FOLLOWS:

RESISTANCE =  $\frac{\text{FACTORED LOAD}}{\text{RESISTANCE FACTOR}}$  + SCOUR ZONE RESISTANCE INCLUDING FRICTION AND OVERBURDEN EFFECTS

IF PREBORING TO SCOUR ELEVATION IS PERFORMED, THE REQUIRED RESISTANCE SHALL BE DETERMINED AS FOLLOWS:

RESISTANCE =  $\frac{\text{FACTORED LOAD}}{\text{RESISTANCE FACTOR}}$  + RESISTANCE DUE TO OVERBURDEN EFFECTS ONLY

DETERMINATION OF PILE BEARING CAPACITY: THE PILE BEARING CAPACITY VERIFICATION SHALL BE MADE BY USE OF PILE DRIVING ANALYZER (PDA) SOFTWARE ANALYSIS AT EACH MONITOR PILE.

PILE DRIVING EQUIPMENT APPROVAL: ALL PILE DRIVING EQUIPMENT SHALL BE APPROVED USING THE WAVE EQUATION HAMMER APPROVAL METHOD IN ACCORDANCE WITH SECTION 804.05 OF THE LOUISIANA STANDARD SPECIFICATIONS FOR ROADS AND BRIDGES.

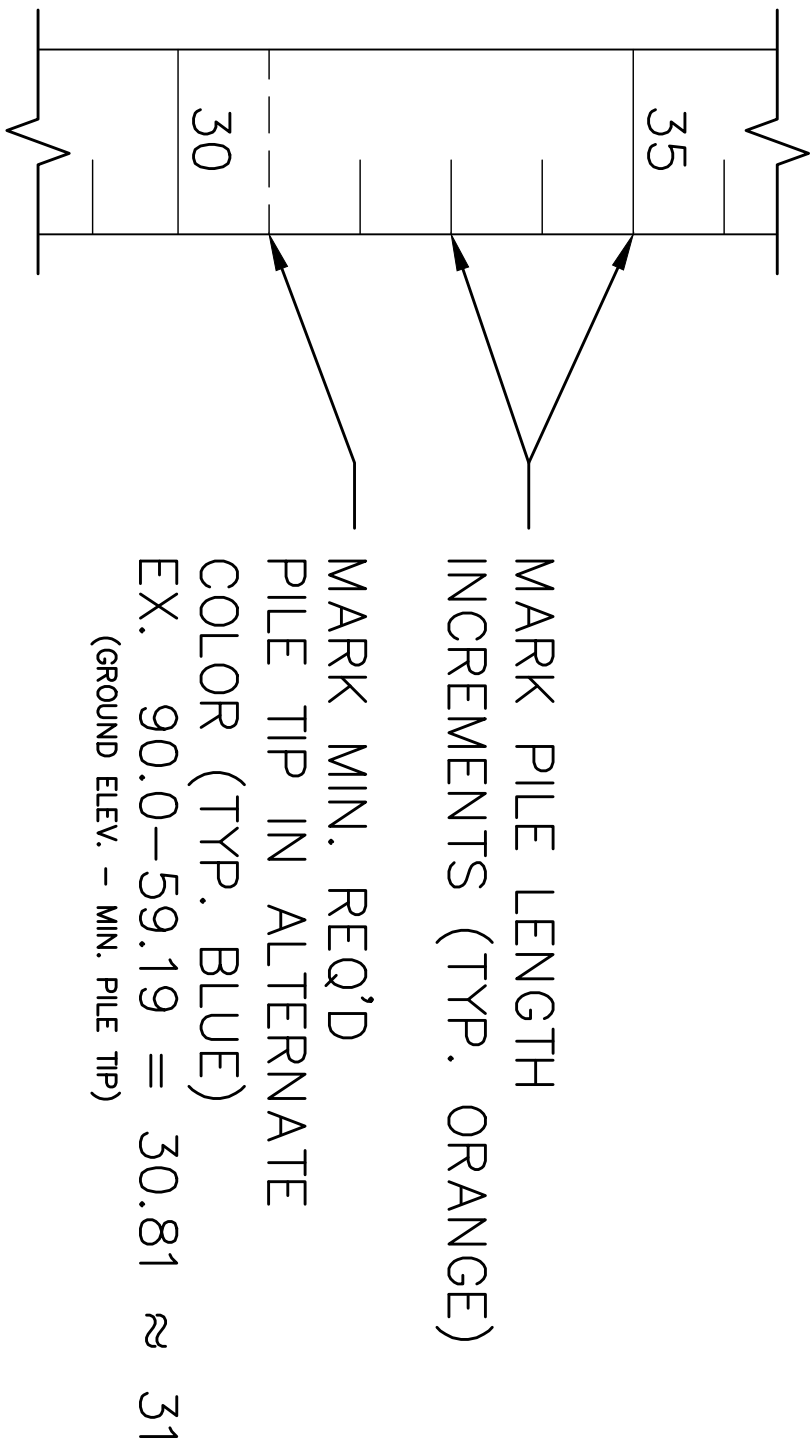
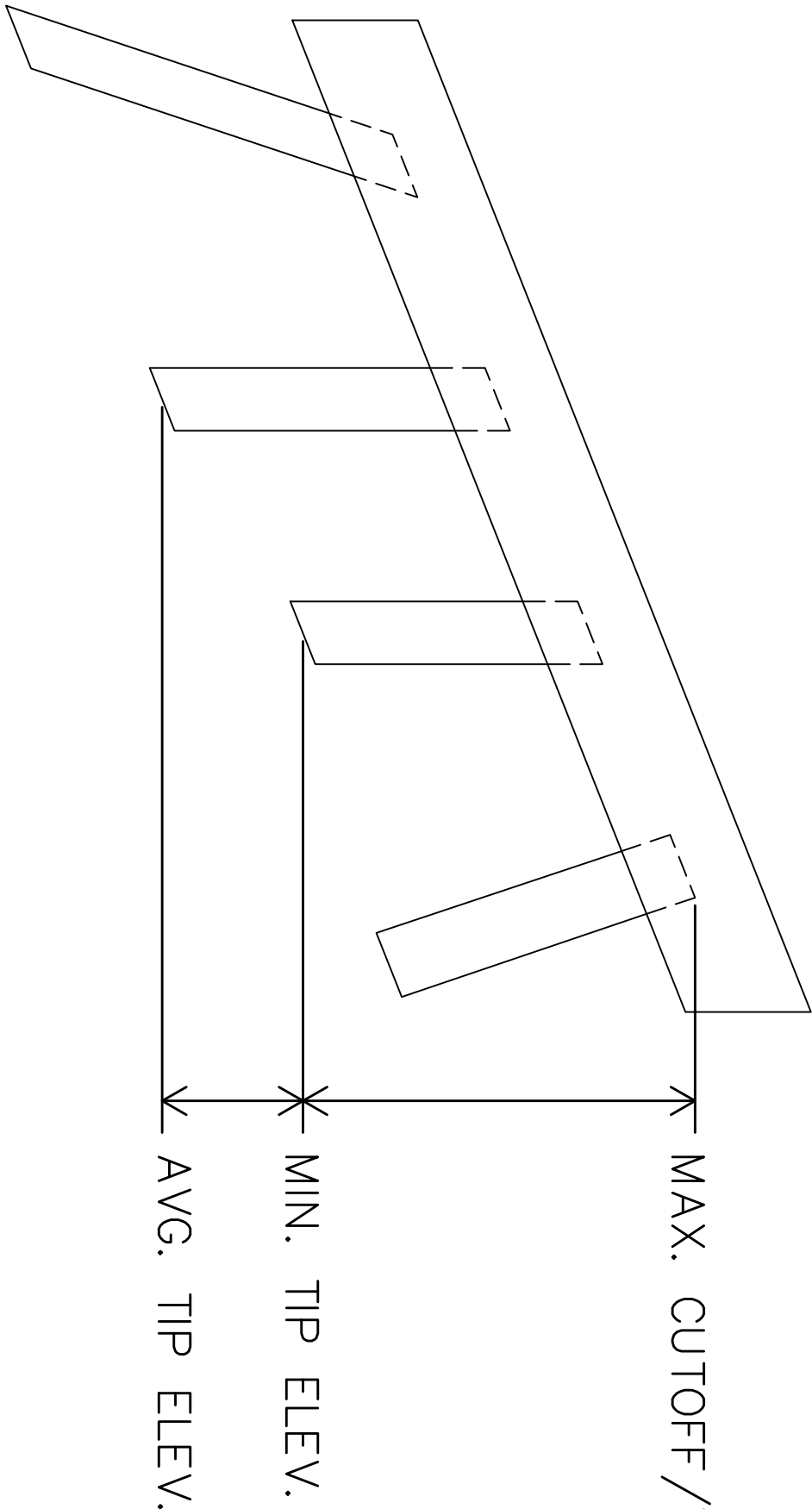
INDICATOR PILES: THE INDICATOR PILE AS SHOWN IN THE INDICATOR PILE DATA TABLE SHALL BE MONITORED WITH THE PDA. A STEEL CASING SHALL BE INSTALLED TO THE BOTTOM ELEVATION INDICATED IN THE TABLE AND THE PILE SHALL BE PREBORED TO A DIAMETER NO LESS THAN 75% OF THE PILE DIAMETER/WIDTH TO SCOUR ELEVATION. AT THE DIRECTION OF THE PROJECT ENGINEER, A ONE (1) DAY AND SEVEN (7) DAY RESTRIKE MAY BE REQUIRED AT EACH INDICATOR PILE. CEASE DRIVING AND PERFORM A PILE SET CHECK LOGGED IN BLOWS PER INCH WHEN REQUIRED NOMINAL RESISTANCE IS MET FOR 10' OF CONTINUOUS DRIVING AND PILE TIP IS BEYOND MINIMUM REQUIRED ELEVATION UNLESS REACHING PRACTICAL REFUSAL FIRST, OTHERWISE DRIVE TO WITHIN 1' OF PLAN TIP ELEVATION. PREPARE A PILE SET CHECK LOGGED IN BLOWS PER INCH FOR A MINIMUM OF 6 HAMMER BLOWS WHEN PERFORMING A PILE RESTRIKE.

MONITOR PILES: THE FIRST PLUMB PILE DRIVEN AT EACH BENT INDICATED ON THE PRODUCTION PILE DATA TABLE SHALL BE MONITORED WITH THE PDA. AT THE DIRECTION OF THE PROJECT ENGINEER, A ONE (1) HOUR AND ONE (1) DAY RESTRIKE MAY BE REQUIRED AT EACH MONITOR PILE. CEASE DRIVING AND PERFORM A PILE SET CHECK LOGGED IN BLOWS PER INCH WHEN REQUIRED NOMINAL RESISTANCE IS MET FOR 2' OF CONTINUOUS DRIVING AND PILE TIP IS BEYOND MINIMUM REQUIRED ELEVATION UNLESS REACHING PRACTICAL REFUSAL FIRST, OTHERWISE DRIVE TO WITHIN 1' OF PLAN TIP ELEVATION. PREPARE A PILE SET CHECK LOGGED IN BLOWS PER INCH FOR A MINIMUM OF 6 HAMMER BLOWS WHEN PERFORMING A PILE RESTRIKE.

PRODUCTION PILES: CEASE DRIVING WHEN WAVE EQUATION ANALYSIS OR PDA-DETERMINED DRIVING CRITERIA IS MET FOR 2' OF CONTINUOUS DRIVING AND PILE TIP IS BEYOND MINIMUM REQUIRED ELEVATION UNLESS REACHING PRACTICAL REFUSAL FIRST, OTHERWISE DRIVE TO WITHIN 1' OF PLAN TIP ELEVATION. PREPARE A PILE SET CHECK LOGGED IN BLOWS PER INCH FOR 10-20 HAMMER BLOWS IF ACCEPTANCE CRITERIA HAS NOT BEEN MET WITHIN 1' OF PLAN TIP ELEVATION.

DYNAMIC MONITORING: PDA MONITORING WILL BE REQUIRED AT MONITOR AND INDICATOR PILES OR AS DIRECTED BY THE ENGINEER. ALL COSTS AND DELAYS ASSOCIATED WITH PDA MONITORING SHALL BE INCLUDED UNDER ITEM NO. 804-17-00100, DYNAMIC MONITORING ASSISTANCE.

INDICATOR PILE DATA TABLE							
INDICATOR PILE NO.	STATION	LOCATION	TYPE & SIZE (IN)	PLAN TIP ELEV. (FT)	MIN. REQUIRED PILE TIP ELEV. (FT)	BOTTOM OF CASING ELEV. (FT)	
1	102+73	20' LT. OF PROJ. €	16"Ø SOLID PPC	34.17	59.19	84.19	



Rev. No	Date	Description



Proposed St. John Church Rd. Bridge  
Crossing  
Folsom, Louisiana

LOG OF SOIL BORING B-1

File: 5935G  
Date: 8/8/22  
Logged by: L. Adams  
Driller: T. Roehle  
Rig: CME 75

St. Tammany Parish Government Dept. of  
Engineering Drive, Building B, Suite 1B  
Mandeville, LA 70471

Sheet 1 of 2

Location: Lat: 30° 37' 57.3"N  
Long: 90° 14' 10.04"W

Surface Elevation:

Description:

FIELD DATA		LABORATORY DATA						Soil Type	
Ground Water Level (feet)	Field Test Results	Compressive Strength (psi)	Water Content (%)	Wet Unit Weight (pcf)	Atterberg Limits	LL	PL	PI	Percent Passing #200 Sieve
10.0	2.75 (P)	0.62	16	127	28	12	16		73
10.0	1.0 (P)	0.32	17	133					
5	4-5-5		14						40
15	15 b/f		17						49
14	14 b/f								
10	4-5-8		15						53
3	3 b/f		18						23
13	13 b/f		18						
6-5-7	6-5-7		19						9
14	14 b/f								
20	20								
25	25 b/f		17						7
25	10-14-11		17						
30	25 b/f								
14-12-13	14-12-13								
35	27 b/f		17						
7-12-15	7-12-15								
40	8 b/f		21						12
40	8-5-5								
45	8 b/f		21						
2-4-4	2-4-4								
50	1-2-3		22						20
50	1-2-3								
Ground Water Level Data		Boring Assessment Method						Notes	
Free water first encountered 4" Dia. Rotary Wash.		4" Dia. Short Right Auger: 0 to 10 ft. 10 to 100 ft.						Continued Next Page	
Water level after 15 mins.		Boring Assessment Method: Borehole sealed with bentonite upon completion						Strata Boundaries and Sample Lengths May Not Be Exact	

Proposed St. John Church Rd. Bridge  
Crossing  
Folsom, Louisiana

LOG OF SOIL BORING B-1

File: 5935G  
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St. Tammany Parish Government Dept. of  
Engineering Drive, Building B, Suite 1B  
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Sheet 2 of 2

Location: Lat: 30° 37' 57.3"N  
Long: 90° 14' 10.04"W

Surface Elevation:

Description:

FIELD DATA		LABORATORY DATA						Soil Type	
Ground Water Level (feet)	Field Test Results	Compressive Strength (psi)	Water Content (%)	Wet Unit Weight (pcf)	Atterberg Limits	LL	PL	PI	Percent Passing #200 Sieve
5	5 b/f		25						
55	2-3-2								
33	33 b/f		12						7
10-15-18	10-15-18								
60	14 b/f		16						
16-7-7	16-7-7								
65	65								
14	14 b/f		52						91
70	70								
14	14 b/f								
6-7-9	6-7-9		36						
3-3-4	3-3-4								
13	13 b/f		39						
5-5-7	5-5-7								
80	80								
16	16 b/f		44						92
6-7-9	6-7-9								
80	80								
18	18 b/f		30						38
6-7-11	6-7-11								
40	40 b/f		36						
11-15-21	11-15-21								
55	55								
44	44 b/f		29						
18-19-22	18-19-22								
100	100								
Ground Water Level Data		Boring Assessment Method						Notes	
Free water first encountered 4" Dia. Rotary Wash.		4" Dia. Short Right Auger: 0 to 10 ft. 10 to 100 ft.						Continued Next Page	
Water level after 15 mins.		Boring Assessment Method: Borehole sealed with bentonite upon completion						Strata Boundaries and Sample Lengths May Not Be Exact	

# UNIFIED SOIL CLASSIFICATION SYSTEM

UNIFIED SOIL CLASSIFICATION AND SYMBOL CHART		LABORATORY CLASSIFICATION CRITERIA	
(more than 50% of material is larger than No. 200 sieve size.)		$C_u = \frac{D_{60}}{D_{10}}$ greater than 4, $C_u \leq \frac{D_{60}}{D_{10} \times 60}$ between 1 and 3	
COARSE GRAINED SOILS		Not meeting all gradation requirements for GW	
GW	Well-graded gravel, gravel-sand mixtures, little or no fines	Above $U_c$ line with $P_L$ between 10 and 20, less than 4	
GP	Poorly-graded gravel, gravel-sand mixtures, little or no fines	Above $U_c$ line with $P_L$ between 10 and 20, less than 4	
GRAVELS	Gravels with fines (more than 5%, less than 15%)	Above $U_c$ line with $P_L$ between 10 and 20, less than 4	
GM	Silty gravels, gravel-sand-silt mixtures	Above $U_c$ line with $P_L$ between 10 and 20, less than 4	
GC	Clayey gravels, gravel-sand-silt mixtures	Above $U_c$ line with $P_L$ between 10 and 20, less than 4	
FINE GRAINED SOILS		Not meeting all gradation requirements for SW	
SW	Well-graded sand, gravelly sand, little or no fines	Above $U_c$ line with $P_L$ between 10 and 20, less than 4	
SP	Poorly-graded sand, gravelly sand, little or no fines	Above $U_c$ line with $P_L$ between 10 and 20, less than 4	
SM	Silty sands, sand-silt mixtures	Above $U_c$ line with $P_L$ between 10 and 20, less than 4	
SC	Clayey sands, sand-silt mixtures	Above $U_c$ line with $P_L$ between 10 and 20, less than 4	
FINE GRAINED SOILS		Not meeting all gradation requirements for ML	
ML	Inorganic silts and very fine sands, rock silts with slight sandiness or silty sands with slight clayiness	Above $U_c$ line with $P_L$ between 10 and 20, less than 4	
CL	Inorganic clays of low to medium plasticity, gravelly silts, sandy clays, silty clays, lean clays	Above $U_c$ line with $P_L$ between 10 and 20, less than 4	
OL	Organic silts and organic silty clays of low plasticity	Above $U_c$ line with $P_L$ between 10 and 20, less than 4	
MH	Inorganic silts, medium to high plasticity	Above $U_c$ line with $P_L$ between 10 and 20, less than 4	
CH	Inorganic clays of high plasticity, fat clays	Above $U_c$ line with $P_L$ between 10 and 20, less than 4	
OH	Organic clays of medium to high plasticity, organic silts	Above $U_c$ line with $P_L$ between 10 and 20, less than 4	
PEAT AND OTHER HIGHLY ORGANIC SOILS		Above $U_c$ line with $P_L$ between 10 and 20, less than 4	

PLASTICITY CHART	
LIQUID LIMIT (LL) (%)	PLASTICITY INDEX (PI) (%)
0	0
10	10
20	20
30	30
40	40
50	50
60	60
70	70
80	80
90	90
100	100
CLAYEY SILT	CLAYEY SILT
CLAYEY SAND	CLAYEY SAND
CLAYEY SILT	CLAYEY SILT
CLAYEY SAND	CLAYEY SAND
CLAYEY SILT	CLAYEY SILT
CLAYEY SAND	CLAYEY SAND
CLAYEY SILT	CLAYEY SILT
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Proposed St. John Church Rd. Bridge  
Crossing  
Folsom, Louisiana

LOG OF SOIL BORING B-2

File: 5035G  
Date: 8/8/22  
Logged by: L. Adams  
Driller: T. Roche  
Rig: CME 75

St. Tammany Parish Government Dept. of Engineering  
21454 Koop Drive, Building B, Suite 1B  
Metairie, LA 70001

The Beta Group  
Engineering and Construction Services  
Sheet 1 of 2

FIELD DATA										LABORATORY DATA						Soil Type	
Ground Water Level	Depth (feet)	Field Test Results	Compressive Strength (psi)	Moisture Content (%)	Weight (pcf)	Attesting Units		Percent Passing #200 Sieve	Organic Content	Description	Surface Elevation:						
		8 b/f		10		LL	PL	PI									
		7 b/f		22					15								
		3.8 b/f	0.28	21	125	31	10	21	87								
	-5	13 b/f		20					83								
		14 b/f		18													
		3-4-3		17					40								
	-10	7 b/f															
		9 b/f		18													
	-13	9 b/f		19					14								
		4-4-5															
		5 b/f		20													
	-20																
		3.6 b/f		18					8								
	-25	14-18-18															
		3.4 b/f		15													
	-30	11-17-17															
		2.3-3		18					9								
	-35	6 b/f															
		10.0 b/f		16													
	-40	7-9 b/f															
		8 b/f		20					17								
	-45	3-3-5															
		6 b/f		19													
	-50	3.5-3															
Ground Water Level Data										Boring Advancement Method						Notes	
Free water first encountered										4" Nom. Dia. Short Flight Auger						3 to, 15 ft.	
Water level after 15 mins.										15 to 100 ft.						Borehole grouted with cement/ bentonite upon completion	
										Soils						Strata Boundaries and Sample Lengths May Not Be Exact	

Proposed St. John Church Rd. Bridge  
Crossing  
Folsom, Louisiana

LOG OF SOIL BORING B-2

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The Beta Group  
Engineering and Construction Services  
Sheet 2 of 2

FIELD DATA										LABORATORY DATA						Soil Type		Description	
Ground Water Level	Depth (feet)	Field Test Results	Compressive Strength (psi)	Moisture Content (%)	Weight (pcf)	Atterberg Limits		Percent Passing #200 Sieve	Organic Content										
		21 b/f		17				13									Loose Red SILTY SAND (SM) w/ Trace Clay		
	-55	8-10-11 b/f															Medium Dense to Dense Red SILTY SAND (SM)		
	-60	33 b/f		14				7											
	-65	28 b/f		14															
		10-12-14 b/f																	
	-70	7 b/f		28													Medium Stiff Gray and Red SILTY CLAY (CL) w/ Rock		
		3-3-4 b/f																	
	-75	17 b/f		37				85									Very Stiff Gray and Red CLAY (CH)		
		5-8-9 b/f																	
	-80	23 b/f		37													Very Stiff Tan CLAY (CH)		
		5-11-12 b/f		42				83									Medium Stiff Tan and Red SILTY CLAY (CL) w/ Sand		
	-85	17 b/f																	
		7-9-9 b/f		26															
	-90	5 b/f																	
		2-3-2 b/f		41				75									Stiff to Very Stiff Tan and Red CLAY (CH) w/ Sand		
	-95	10 b/f																	
		3-4-6 b/f																	
	-100	16 b/f		41													Boring completed at 100 Ft.		
		8-7-9 b/f																	
Ground Water Level Data										Boring Advancement Method						Notes			
Free water first encountered										4" Nom. Dia. Short Flight Auger						0 to 3, 15 ft. 15 to 100 ft.		Borehole grouted with cement/ bentonite upon completion	
Water level after 15 mins.										Boring Advancement Method						Strata Boundaries and Sample Lengths May Not Be Exact			

UNIFIED SOIL CLASSIFICATION AND SYMBOL CHART

(more than 50% of material is larger than No. 200 sieve size.)

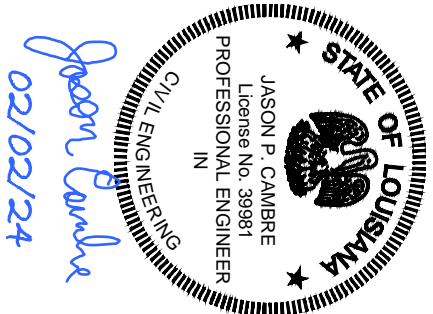
COARSE GRAINED SOILS	CLAYEY GRAVEL (GC)	Gravels with fines (more than 12% fines)
GRAVELS (GW)	Gravels with fines (less than 12% fines)	
POORLY GRADED GRAVELS, GRAVEL-SAND MIXTURES, SILT OR NO FINES	CLAYEY SANDS (SC)	Sands with fines (more than 12% fines)
POORLY GRADED SANDS, GRAVEL-SAND MIXTURES, SILT OR NO FINES	CLAYEY SILTS (ML)	Silts with clay (more than 5% clay)
CLAYEY SILTS (ML)	SILTS (ML)	Silts with clay (less than 5% clay)
SANDS (SW)	SANDS (SW)	Sands with fines (less than 12% fines)
CLAYEY SANDS (SC)	CLAYEY SILTS (ML)	Silts with clay (more than 5% clay)
CLAYEY SILTS (ML)	SILTS (ML)	Silts with clay (less than 5% clay)
SANDS (SW)	SANDS (SW)	Sands with fines (less than 12% fines)
CLAYEY SANDS (SC)	CLAYEY SILTS (ML)	Silts with clay (more than 5% clay)
CLAYEY SILTS (ML)	SILTS (ML)	Silts with clay (less than 5% clay)

LABORATORY CLASSIFICATION CRITERIA

GW	$C_u > D_{60}$ greater than 6, $C_c = D_{30}/D_{60}$ between 1 and 5
GP	Not meeting all gradation requirements for GW
GM	Meeting limits below "M", $C_u > D_{60}$ greater than 4 and 7 are borderline cases, $C_c = D_{30}/D_{60}$ between 1 and 5
GC	Meeting limits below "M", $C_u > D_{60}$ greater than 7
SW	$C_u > D_{60}$ greater than 6, $C_c = D_{30}/D_{60}$ between 1 and 3
SP	Not meeting all gradation requirements for GW
SM	Meeting limits below "M", $C_u > D_{60}$ greater than 4 and 7 are borderline cases, $C_c = D_{30}/D_{60}$ between 1 and 5
SC	Meeting limits below "M", $C_u > D_{60}$ greater than 7

PLASTICITY CHART

UNIFIED SOIL CLASSIFICATION SYSTEM



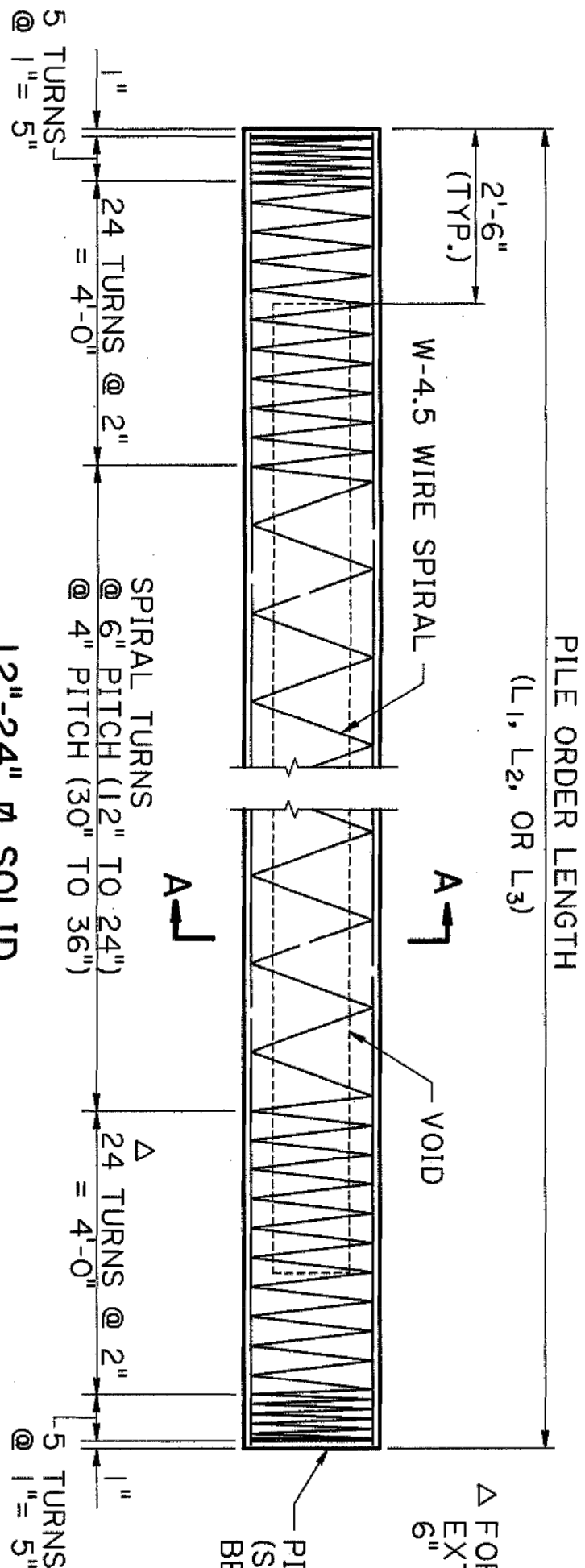


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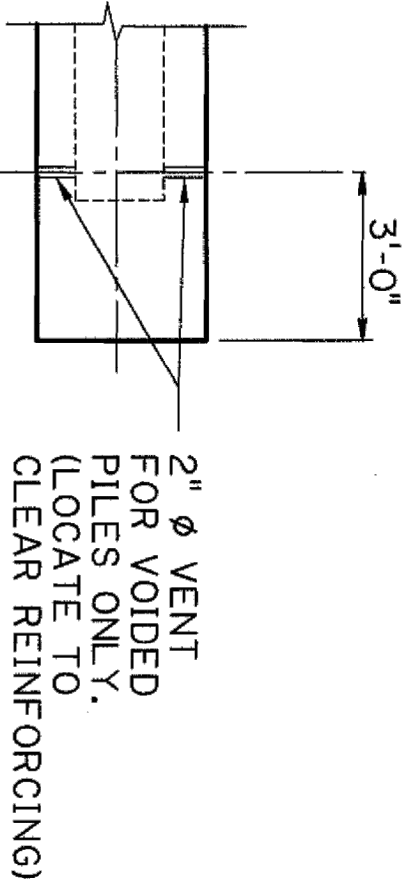
UNIFIED SOIL CLASSIFICATION AND SYMBOL CHART		LABORATORY CLASSIFICATION CRITERIA	
(more than 50% of material is larger than No. 200 sieve size.)			
COARSE-GRAINED SOILS			
Clean Gravels (Less than 5% fines)			
GW	Well-graded gravels, gravel-sand mixtures, little or no fines	$C_u = \frac{D_{60}}{D_{10}}$ greater than $C_u = \frac{D_{30}}{D_{10}}$ between 1 and 3	
GP	Poorly-graded gravels, gravel-sand mixtures, more or no fines	SP	Not meeting all gradation requirements for GW
More than 50% finer than No. 4 sieve size			
Gravels with fines (More than 12% fines)			
GM	Silty gravels, gravel-sand mixtures	SM	Attesting limits below $U^*$ Above $U^*$ line with $P_L$ between $A^*$ and $B^*$ lines (more than 4% clay) requiring use of dual symbols with $P_L$ greater than 7
GC	Clayey gravels, gravel-sand mixtures	SW	$C_u = \frac{D_{60}}{D_{10}}$ greater than $C_u = \frac{D_{30}}{D_{10}}$ between 1 and 3
Clean Sands (Less than 5% fines)			
SW	Well-graded sands, gravelly sands, little or no fines	SP	Not meeting all gradation requirements for SW
SM	Silty sands, sand-clay mixtures		
SC	Clayey sands, sand-clay mixtures		
FINE-GRAINED SOILS			
(50% or more of material is smaller than No. 200 sieve size.)			
ML	Inorganic silts and very fine sands, rock struts with slight plasticity	SM	Attesting limits below $U^*$ Above $U^*$ line with $P_L$ between $A^*$ and $B^*$ lines (more than 4% clay) requiring use of dual symbols with $P_L$ greater than 7
CL	Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, silty clay with sand		
OL	Organic silts and organic silty clays of low plasticity		
CH	Inorganic clays, moderate to high plasticity, silty clay with sand		
OH	Organic clays of medium to high plasticity, organic silts		
PT	Peat and other highly organic soils		





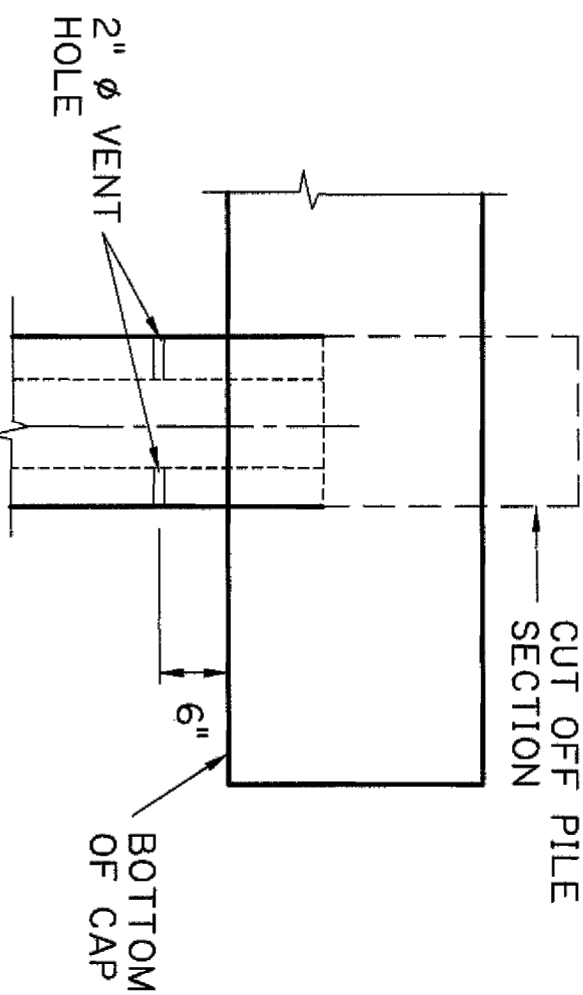


12"-24" Ø SOLID  
24", 30", 36" Ø VOIDED  
PRECAST-PRESTRESSED CONCRETE PILES

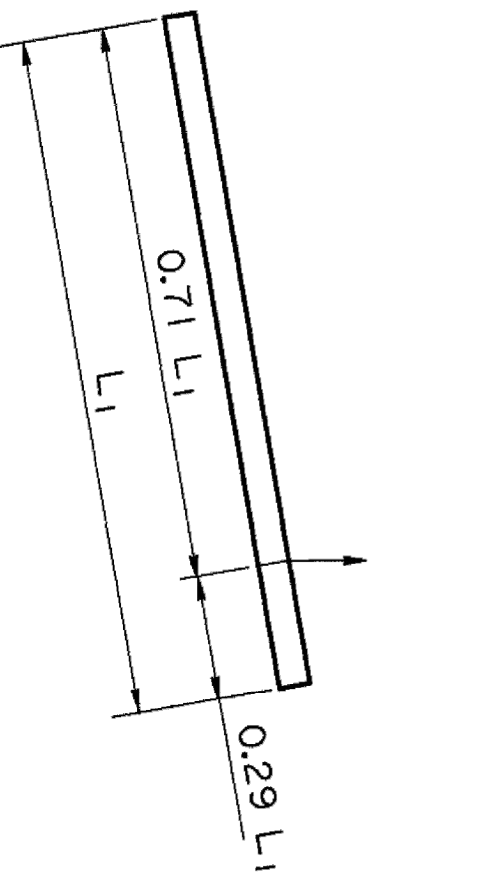
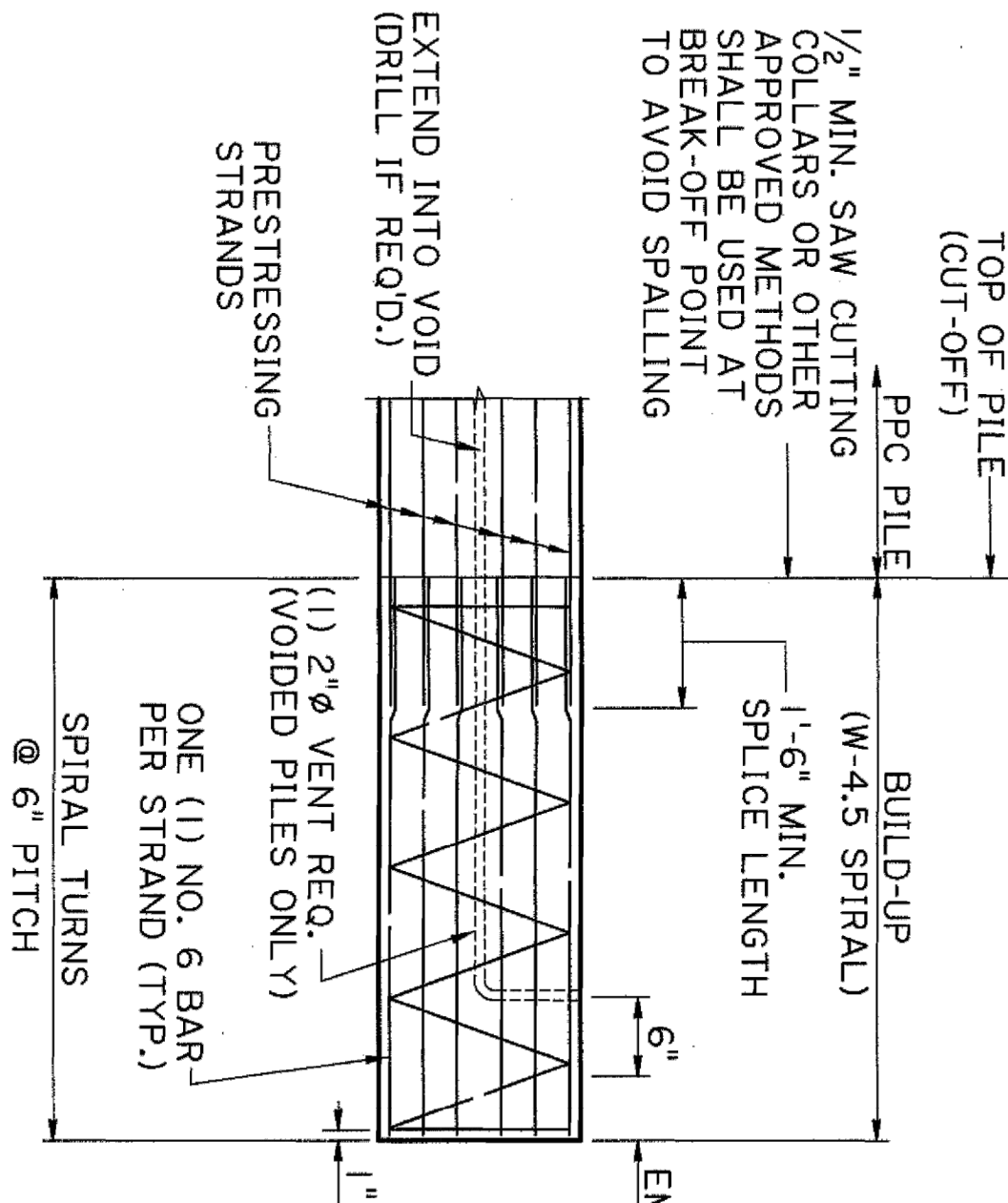
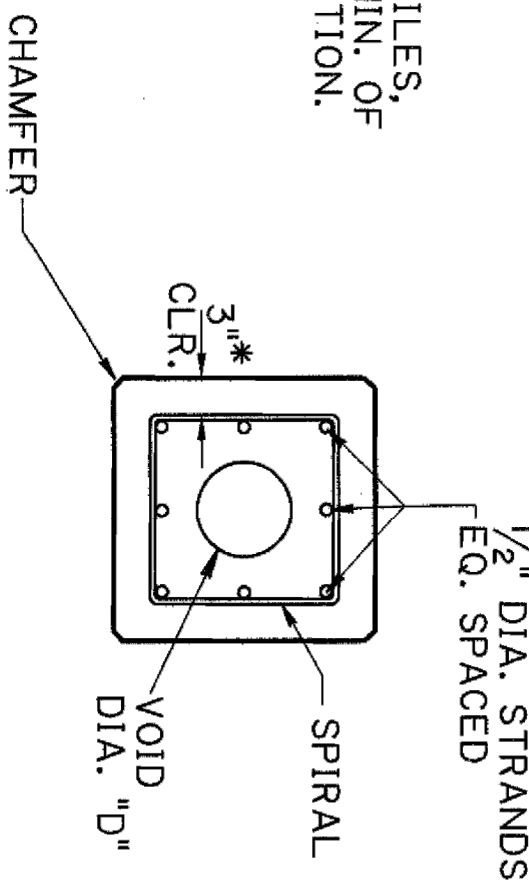


NOTE: VENTS REQUIRED AT PILE HEAD ONLY

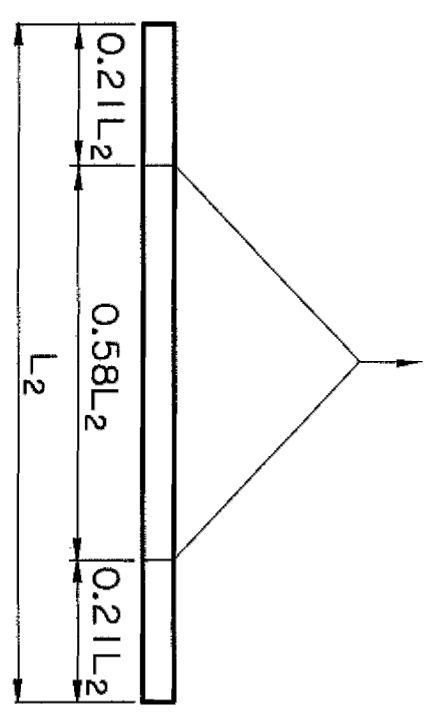
CUT OFF  
PILE HEAD DETAIL  
(VOIDED PILES ONLY)



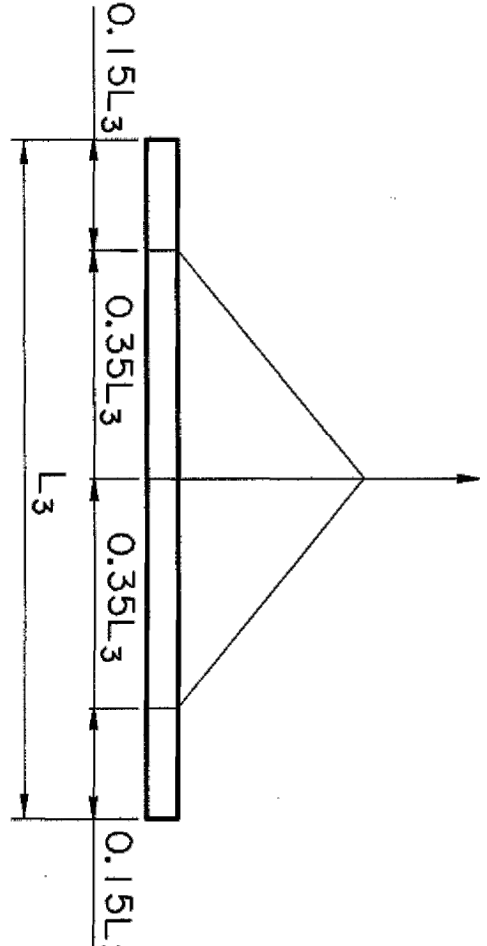
SECTION A-A  
\* 2" FOR 12" & 14" PILE SIZE.  
CLEARANCES MEASURED AT CENTER LINE OF PILE.



1-POINT PICK-UP



2-POINT PICK-UP



3-POINT PICK-UP

TYP. BUILD-UP WHERE  
REDRIVING IS NOT REQUIRED  
(WHERE REDRIVING IS REQUIRED  
PILE BUILD-UP IS NOT ALLOWED)

PICK-UP DETAILS

2 POINT PICK-UP SHALL TAKE PRECEDENCE  
OVER 3 POINT PICK-UP WHERE APPLICABLE.

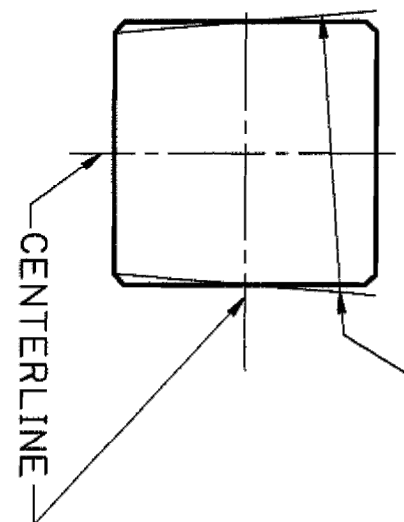
PILE INFORMATION

SECTION PROPERTIES

SQUARE SPIRAL LAYOUTS

PILE SIZE (in.)	VOID "D" (in.)	AREA (in. <sup>2</sup> )	SECTION MODULUS (in. <sup>3</sup> )	WEIGHT PER FOOT (lb./ft.)	CHAMFER (in.)	NO. OF STRANDS	PRESTRESS IN CONCRETE (psi)			MAX. CASTING LENGTH (ft)		
							AT RELEASE	AT 90 DAYS		L <sub>1</sub>	L <sub>2</sub>	L <sub>3</sub>
12 SOLID	0	144	288	150	3/4"	4	830			53.3	76.0	105.0
14 SOLID	0	196	457	204	3/4"	8	1203			66.0	93.4	130.4
16 SOLID	0	256	663	267	3/4"	12	1373			67.6	95.7	136.7
18 SOLID	0	324	972	338	3/4"	12	1096			72.0	102.7	142.5
20 SOLID	0	400	1333	417	1 1/2"	16	1180			78.4	111.3	154.6
24 SOLID	0	576	2304	600	1 1/2"	24	1227			86.7	122.7	172.0
24 VOIDED	10.5	489	2254	510	1 1/2"	20	1204			92.9	131.4	183.2
30 VOIDED	16.5	686	4257	715	1 1/2"	28	1203			107.8	152.6	212.5
36 VOIDED	22.5	898	7077	936	1 1/2"	36	1182			120.6	170.9	237.9

MAX. ALLOWABLE DRAFT  
1/4" PER FT. (E.A. SIDE)



DRAFT DETAIL

GENERAL NOTES

DESIGN SPECIFICATIONS: AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 6TH EDITION 2012, WITH 2013 INTERIMS.

CONCRETE IN PILE: THE CONTRACTOR SHALL DESIGN AND SUBMIT FOR APPROVAL A CONCRETE MIX WITH A MINIMUM COMPRESSIVE CYLINDER STRENGTH OF 6000 PSI AT 28 DAYS. CONCRETE STRENGTH AT THE TIME OF TRANSFER OF PRESTRESSED FORCE SHALL BE 4500 PSI OR GREATER.

CONCRETE IN BUILD-UP: BUILD-UP CONCRETE SHALL MEET OR EXCEED THE CONCRETE DESIGN REQUIREMENTS OF THE ORIGINAL PILE. BUILT UP CONCRETE NOT MEETING THE ABOVE REQUIREMENTS SHALL BE REMOVED AND REPLACED AT NO DIRECT PAY.

PRESTRESSING STEEL: PRETENSIONED REINFORCEMENT SHALL BE 1/2" DIA. SEVEN-WIRE, UNCOATED LOW-RELAXATION STRANDS GRADE 270 AND SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M203. AN INITIAL TENSION OF 30,980 LBS. SHALL BE APPLIED TO EACH STRAND.

DEFORMED REINFORCING STEEL: REINFORCING STEEL SHALL BE DEFORMED STEEL BARS, GRADE 60 AND SHALL MEET THE REQUIREMENTS OF AASHTO M31.

SPIRAL REINFORCING STEEL: SPIRAL REINFORCEMENT SHALL BE SIZE W-4.5 COLD-DRAWN STEEL WIRE AND SHALL CONFORM TO AASHTO M 32M.

FABRICATION TOLERANCES: MANUFACTURE OF THE PILING AND FABRICATION TOLERANCES SHALL BE IN ACCORDANCE WITH THE "MANUAL FOR QUALITY CONTROL FOR PLANTS AND PRODUCTION OF STRUCTURAL PRECAST CONCRETE PRODUCTS (MNL-116, LATEST EDITION) PUBLISHED BY PCI, AND THE DRAFT DETAIL SHOWN BELOW.

CHAMFERS AND CORNERS: ON PILES 18" Ø OR SMALLER, ALL EXPOSED CONCRETE CORNERS ARE TO HAVE 3/4" CHAMFERS. ON PILES 20" Ø OR LARGER, ALL EXPOSED CONCRETE CORNERS ARE TO HAVE 1/2" CHAMFERS. A 1" RADIUS CURVE WILL BE PERMITTED IN LIEU OF CHAMFERS SHOWN ABOVE. HOWEVER, ALL PILES FURNISHED SHALL BE OF THE SAME CONFIGURATION.

PICK-UP AND HANDLING: LOADING CRITERIA ARE BASED ON CAREFUL HANDLING OF THE PILE. ROTATION OF THE PILE IN THE SLING SHALL BE PREVENTED UNTIL THE PILE IS IN VERTICAL POSITION.

PICK-UP POINTS FOR ALL THE PILES SHALL BE CLEARLY MARKED ON PILES. SUPPORT FOR STORAGE SHALL BE AT PICK-UP POINTS. IN THE CASE OF 1-POINT PICK-UP, SUPPORT PILE AT 0.29L<sub>1</sub> FROM EACH END.

PILES SHALL BE MADE AT A CENTRAL PLANT AND BE TRANSPORTED TO THE BRIDGE SITE. BEFORE TRANSPORTATION, ALL PRESTRESSED PILING SHALL BE HELD AT THE PLANT FOR 14 DAYS AFTER CASTING AND SHALL ATTAIN A MINIMUM COMPRESSIVE STRENGTH OF 6000 PSI.

PICK-UP POINTS SHOWN MAY BE MODIFIED FOR TRANSPORTATION PURPOSES, PROVIDED THE PILE STRESSES ARE IN ACCORDANCE WITH THE DESIGN CRITERIA. ANY SUPPORT CONFIGURATION DIFFERING FROM THOSE SHOWN ON THIS PLAN SHALL REQUIRE STAMPED AND SIGNED CALCULATIONS TO BE SENT TO THE BRIDGE DESIGN ENGINEER FOR REVIEW.

PILES REQUIRING THREE PICK-UP POINTS AND TRUCK TRANSPORTATION SHALL REQUIRE PIVOTING SPREADER BEAMS THAT PROVIDE FOUR POINTS OF SUPPORT TO THE PILE, RESULTING IN PILE STRESSES WITHIN DESIGN CRITERIA. THE TRUCK TRANSPORT SUPPORT POINTS SHALL BE SENT TO THE BRIDGE DESIGN ENGINEER FOR REVIEW.

ALL EMBEDDED LIFTING LOOPS SHALL BE PROVIDED WITH 2" DEEP FOAM BLOCK-OUTS. PRIOR TO TRANSPORT, LIFTING LOOPS SHALL BE REMOVED TO PROVIDE 2" MINIMUM CLEAR COVER. THE REMAINING CAVITIES SHALL BE CLEAR OF ALL SLAG AND LOOSE MATERIAL, AND THEN FILLED WITH A PATCHING MATERIAL FROM OPL NO. 49. THE PATCHING MATERIAL MUST MEET OR EXCEED PILE CONCRETE REQUIREMENTS FOR STRENGTH AND PERMEABILITY.

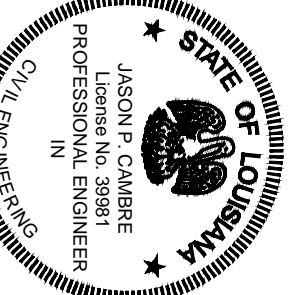
VENT HOLES: FOR VOIDED PILES THAT REQUIRE BUILD-UP OR CUT-OFF, THE VENT HOLES SHALL BE RE-ESTABLISHED AT 6" BELOW THE BOTTOM OF THE BENT CAP, AS SHOWN IN THE "CUT OFF" AND "BUILD-UP" PILE DETAILS ON THIS PLAN.

SHOP DRAWINGS: ANY DEVIATION FROM THE DETAILS SHOWN ON THIS SHEET, OR ANY DESIGN CHANGES MADE TO THE PILES SHALL REQUIRE SHOP DRAWINGS TO BE SUBMITTED TO THE BRIDGE DESIGN ENGINEER FOR REVIEW AND APPROVAL PRIOR TO FABRICATION.

ALLOWABLE HANDLING STRESSES: THE MAXIMUM LENGTHS FOR PICK-UP HAVE BEEN DETERMINED USING THE FOLLOWING AASHTO LRFD STRESSES FOR BOTH 14 AND 90 DAYS.

ALLOWABLE TENSILE STRESS: (ksi): 0.19  $\sqrt{f'_c}$   
ALLOWABLE COMPRESSIVE STRESS (ksi): 0.45  $f'_c$   
IMPACT FACTOR: 1.5  
MIN. FINAL COMPRESSIVE STRESS: 0.7 ksi

These standard plans have been properly examined by me, the undersigned professional engineer. I have determined that these plans comply with all applicable codes and have been properly adapted to use on this project.



ALL DETAILS  
NOT TO SCALE

PRE-CAST PRESTRESSED  
CONCRETE PILES

BD.2.5.1.0.01 - P.P.C. PILES (CS-216)

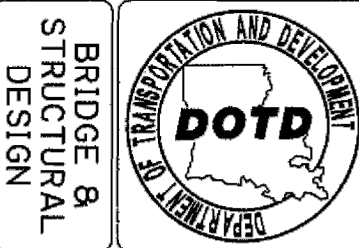


NO.	DATE	REVISION OR CHANGE ORDER DESCRIPTION	BY

DESIGNED	V. SANCHEZ
CHECKED	A. LANCASTER
DETAILED	D. HYMEL
CHECKED	V. SANCHEZ
REVIEWED	Z.Z. FU
SERIES #	1 OF 1

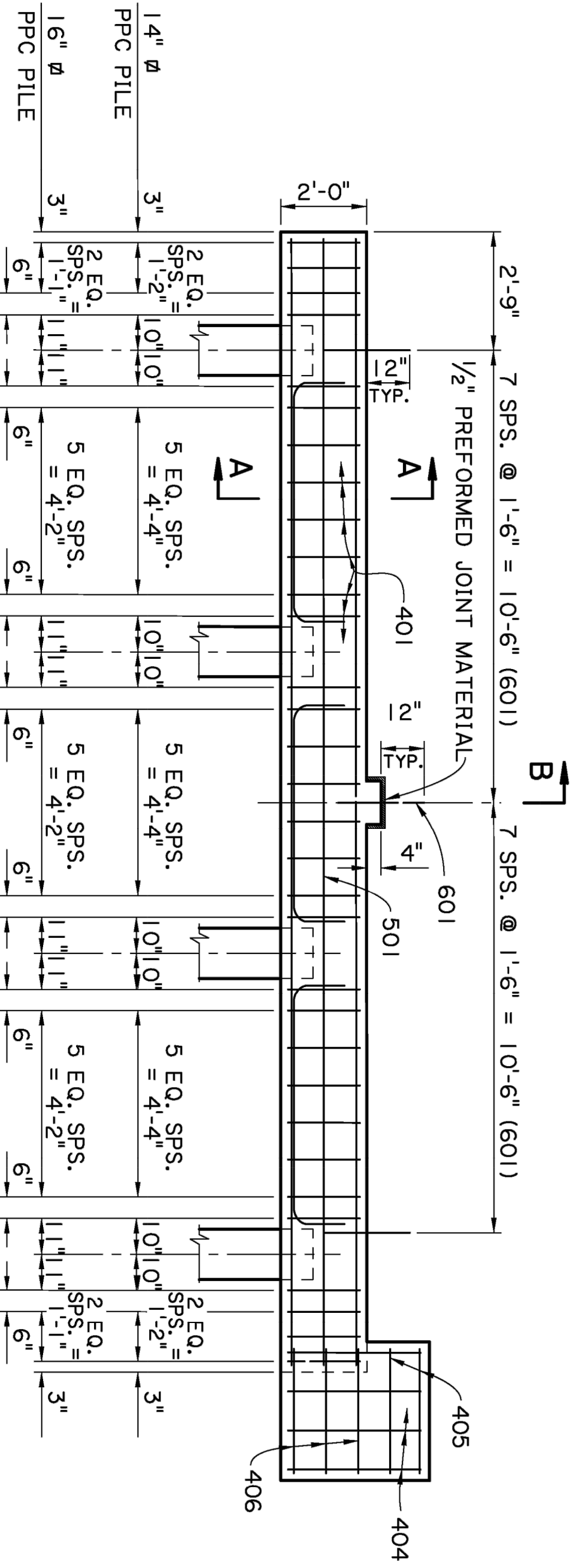
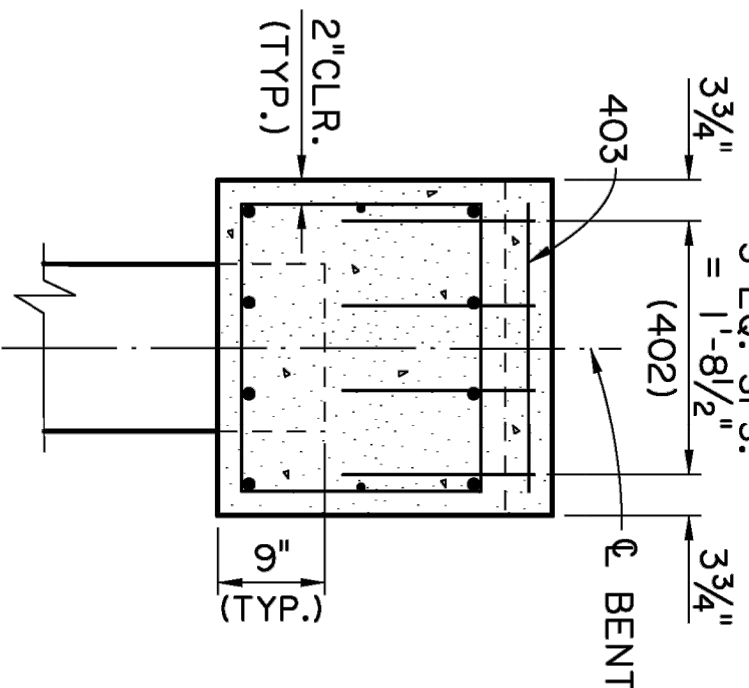
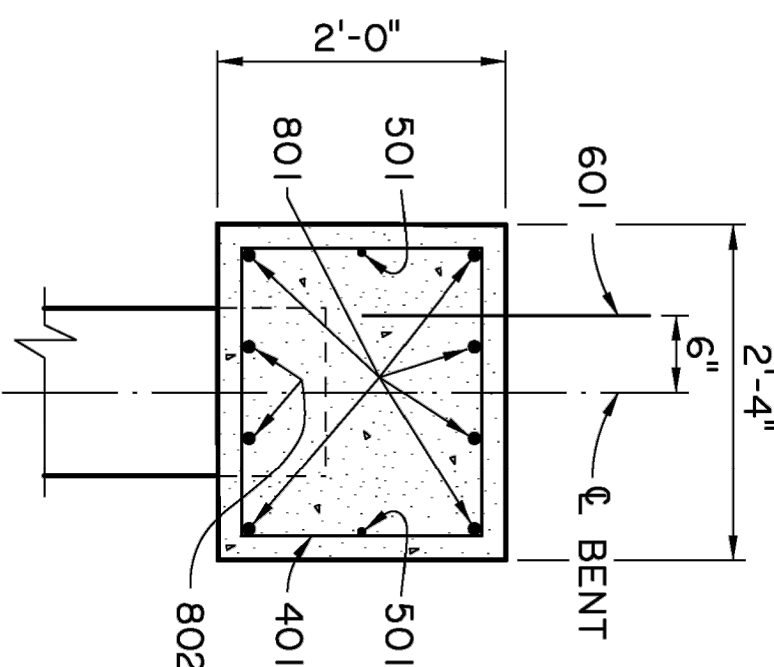
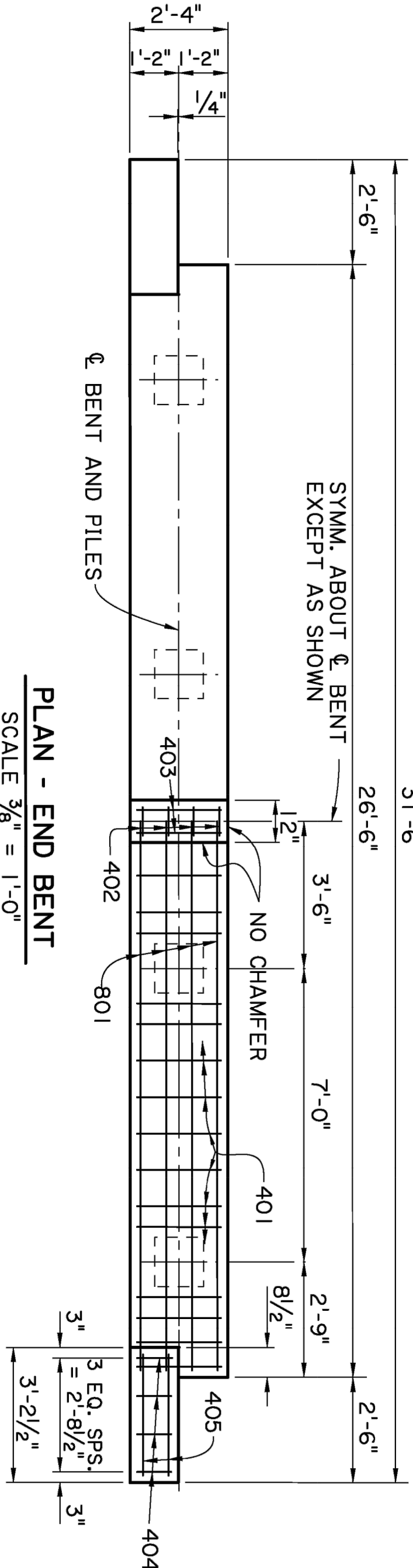
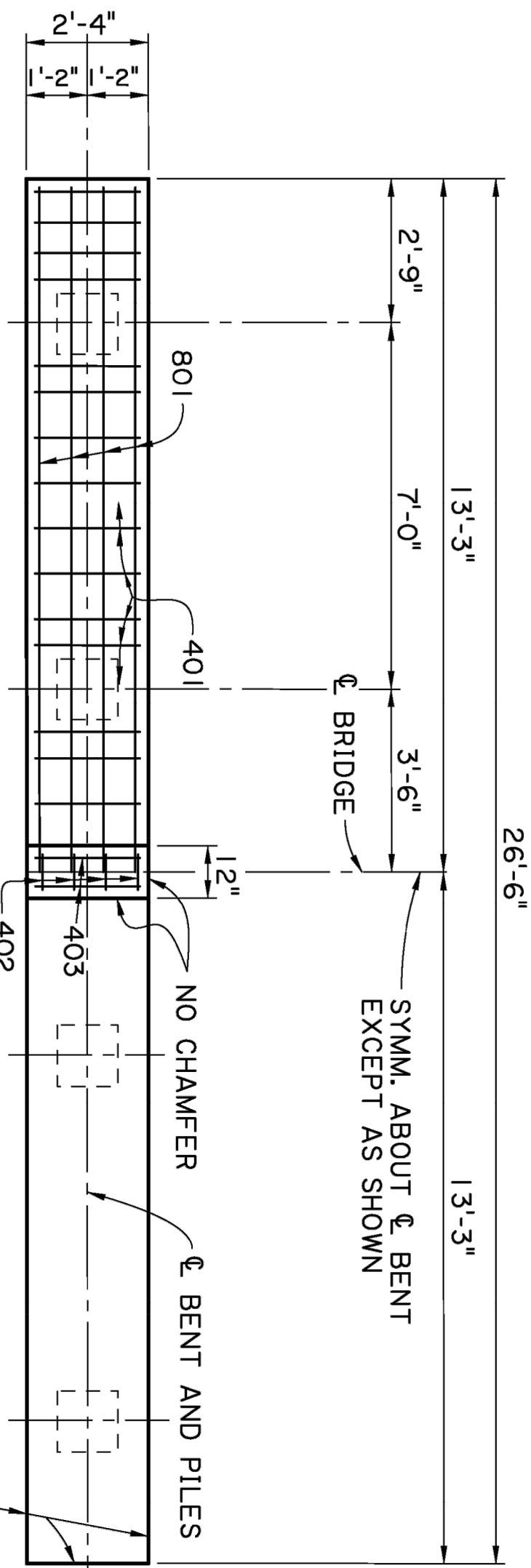
PARISH	ST. TAMMANY
CONTROL SECTION	
STATE PROJECT	

SHEET NUMBER	
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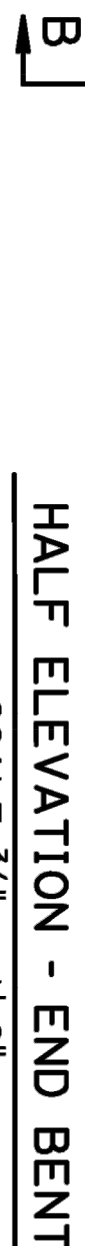
BRIDGE & STRUCTURAL DESIGN





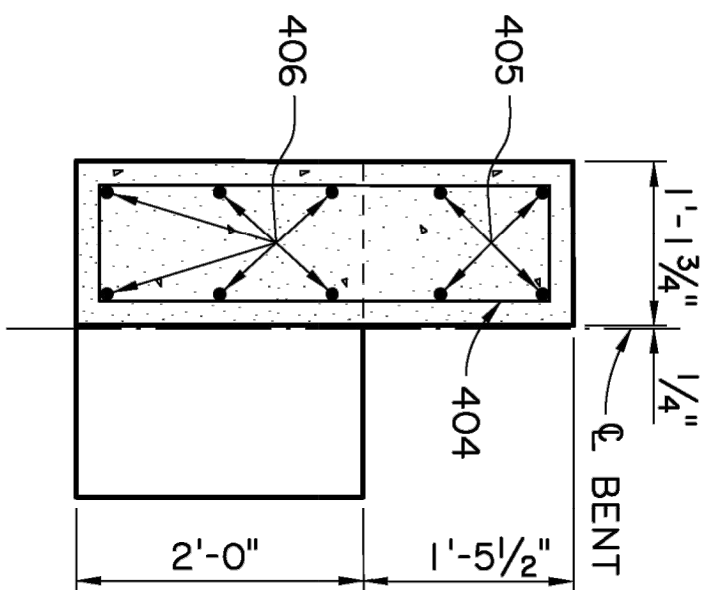
HALF ELEVATION - INTERMEDIATE BENT

SCALE 3/8" = 1'-0"



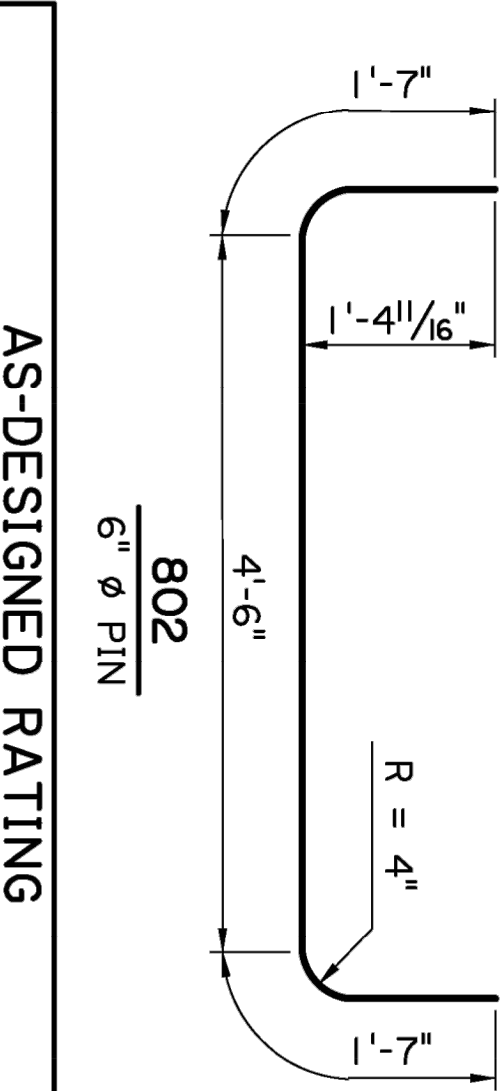
HALF ELEVATION - END BENT

SCALE 3/8" = 1'-0"



END ELEVATION

SCALE 3/4" = 1'-0"

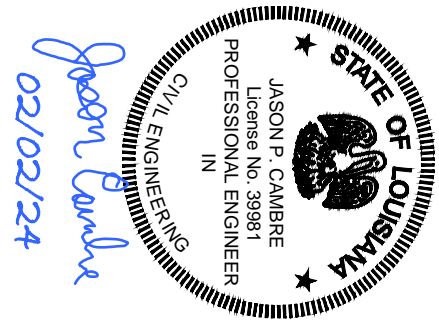


VEHICLE	RATING FACTOR	NOTES
HL-93 (INV)	1.793	—
HL-93 (OPR)	2.324	—
LADY-11 (INV)	1.379	MAGNIFICATION FACTOR = 1.3



05/17/17

These standard plans have been properly examined by me, the undersigned professional engineer. I have determined that these plans comply with all applicable codes and have been properly adapted to use on this project.



02/02/24

ESTIMATED QUANTITIES (ONE INTER. BENT)			
BAR NO.	UNIT LENGTH	TOTAL LENGTH	LOCATION
801	6	26'-2"	157'-0" LONGIT. IN CAP
802	6	7'-8"	46'-0" LONGIT. IN CAP BTW. PILES
TOTAL NO. 8 BARS = 203'-0" = 542 LBS.			
601	15	2'-0"	30'-0" DOWELS
TOTAL NO. 6 BARS = 30'-0" = 45 LBS.			
501	2	26'-2"	52'-4" LONGIT. IN CAP
TOTAL NO. 5 BARS = 52'-4" = 55 LBS.			
401	32	8'-2"	261'-4" STIRRUPS IN CAP
402	4	3'-4"	13'-4" STIRRUPS IN RISER
403	2	2'-0"	4'-0" LONGIT. IN RISER
TOTAL NO. 4 BARS = 278'-8" = 186 LBS.			
DEFORMED REINFORCING STEEL = 828 LBS.			
CLASS A1 CONCRETE = 4.41 CU. YDS.			
MAX. PILE LOAD: SERVICE DEAD LOAD = 21 TONS			
SERVICE LIVE LOAD = 34 TONS			
FACTORED TOTAL LOAD = 76 TONS			

ESTIMATED QUANTITIES (ONE END BENT)			
BAR NO.	UNIT LENGTH	TOTAL LENGTH	LOCATION
801	6	26'-2"	157'-0" LONGIT. IN CAP
802	6	7'-8"	46'-0" LONGIT. IN CAP BTW. PILES
TOTAL NO. 8 BARS = 203'-0" = 542 LBS.			
601	15	2'-0"	30'-0" DOWELS
TOTAL NO. 6 BARS = 30'-0" = 45 LBS.			
501	2	26'-2"	52'-4" LONGIT. IN CAP
TOTAL NO. 5 BARS = 52'-4" = 55 LBS.			
401	32	8'-2"	261'-4" STIRRUPS IN CAP
402	4	3'-4"	13'-4" STIRRUPS IN RISER
403	2	2'-0"	4'-0" LONGIT. IN RISER
404	8	8'-9"	70'-0" STIRRUPS IN WINGWALL
405	8	2'-10"	22'-8" LONGIT. IN WINGWALL
406	12	4'-0"	48'-0" LONGIT. IN WINGWALL
TOTAL NO. 4 BARS = 419'-4" = 280 LBS.			
DEFORMED REINFORCING STEEL = 922 LBS.			
CLASS A1 CONCRETE = 5.23 CU. YDS.			
MAX. PILE LOAD: SERVICE DEAD LOAD = 21 TONS			
SERVICE LIVE LOAD = 34 TONS			
FACTORED TOTAL LOAD = 76 TONS			

16" Ø PPC PILES USED FOR ESTIMATING PURPOSES ONLY. (ADD 0.05 CU. YDS. OF CLASS A1 CONCRETE PER BENT WHEN 14" Ø PPC PILES ARE USED.)

**BENT NOTES:**

**CONSTRUCTION SPECIFICATIONS:** LATEST APPROVED LOUISIANA STANDARD SPECIFICATIONS FOR ROADS AND BRIDGES, SUPPLEMENTAL SPECIFICATIONS AND SPECIAL PROVISIONS. **DESIGN SPECIFICATIONS:** AASHTO LRBED BRIDGE DESIGN SPECIFICATIONS, 4th EDITION WITH 2008 & 2009 INTERIMS.

**DESIGN LOAD:** LIVE LOAD IS HL-93, AND LADY-11 (LOUISIANA DESIGN VEHICLE LIVE LOAD 2011).

**STRUCTURAL CONCRETE:** ALL CONCRETE SHALL BE CLASS A1. EXPOSED EDGES SHALL HAVE A 3/4" CHAMFER UNLESS OTHERWISE NOTED. ALL EXPOSED FACES OF WINGWALLS AND ENDS OF CAPS SHALL RECEIVE A SURFACE FINISH AS PER SUB-SECTION 805.08 OF THE STANDARD SPECIFICATIONS, EXCEPT WHEN SPECIFIED ELSEWHERE IN THE PLANS.

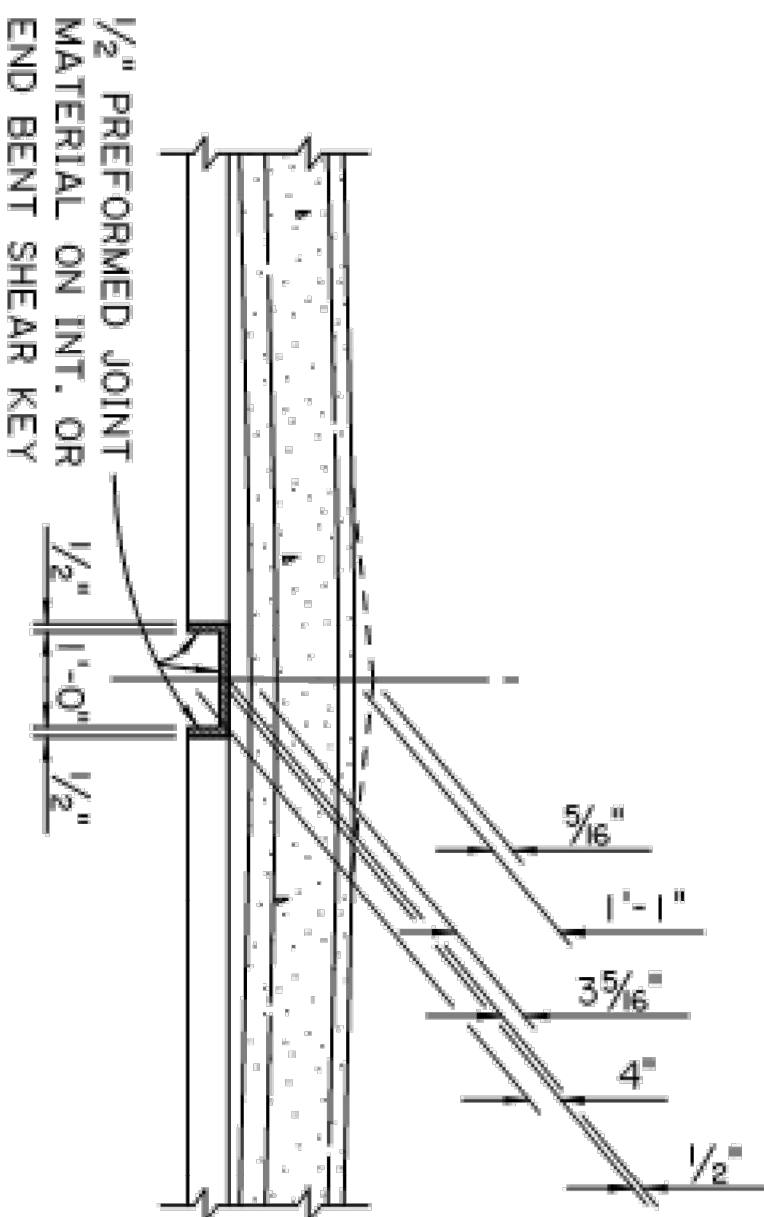
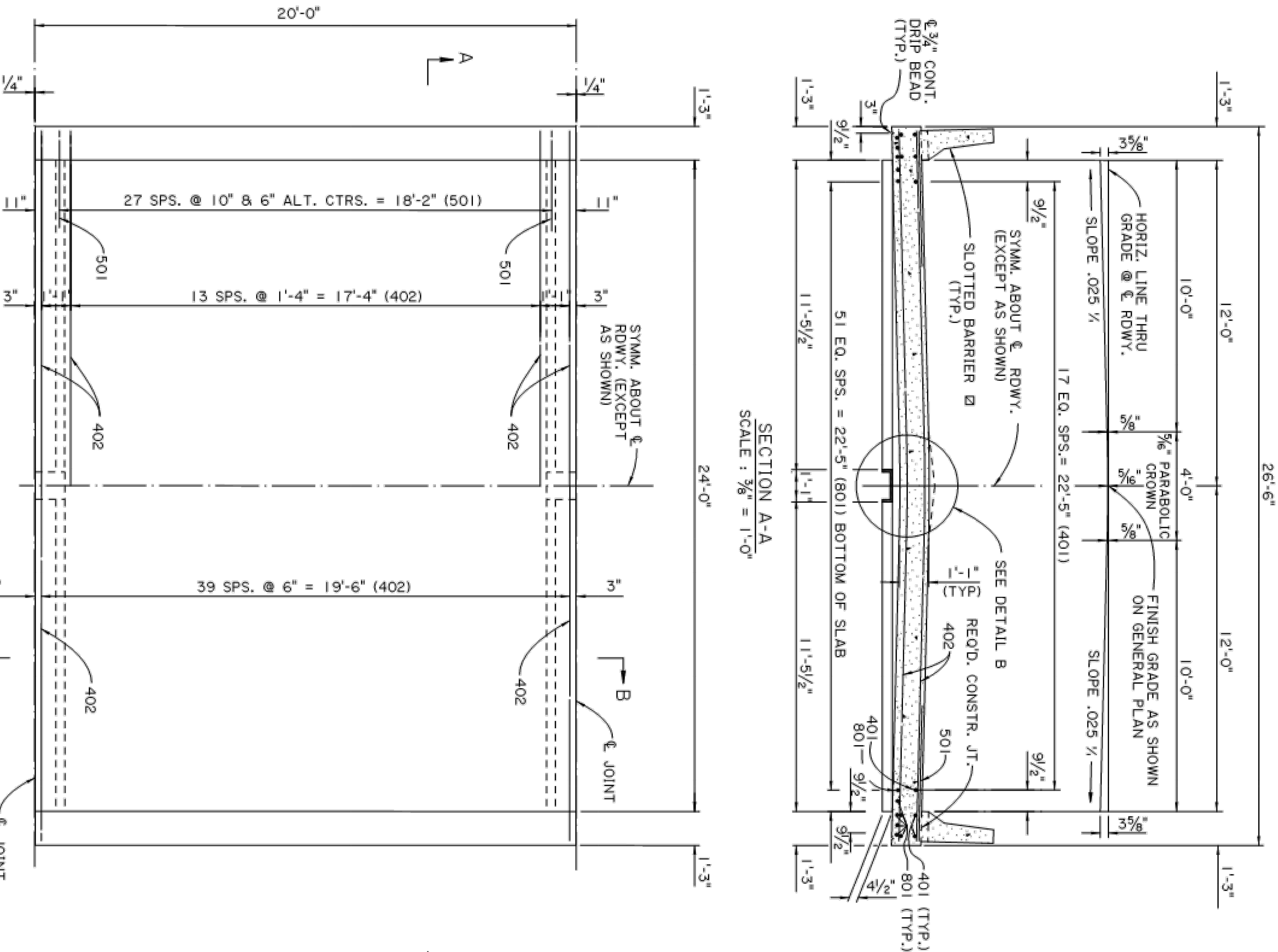
1/2" PREFORMED JOINT MATERIAL AND ASPHALT SATURATED FELT SHALL BE INCLUDED IN THE PRICE BID FOR CLASS A1 CONCRETE.

**REINFORCING STEEL:** ALL REINFORCING STEEL SHALL BE GRADE 60. DIMENSIONS RELATING TO FABRICATION ARE OUT TO OUT OF BARS UNLESS OTHERWISE NOTED. DIMENSIONS RELATING TO SPACING ARE TO BAR CENTERS, UNLESS OTHERWISE NOTED. DOWELS (601 BARS) SHALL BE PROVIDED AT ALL FIXED BEARINGS AND APPROACH SLAB BEARINGS (SEE GENERAL PLAN). ALL EXPOSED ENDS OF DOWELS SHALL BE WRAPPED WITH TWO LAYERS OF 15 LB. ASPHALT SATURATED FELT. CLOSE FITTING TUBES OF COMPRESSIBLE MATERIAL NOT LESS THAN 3/8" THICK MAY BE SUBSTITUTED.

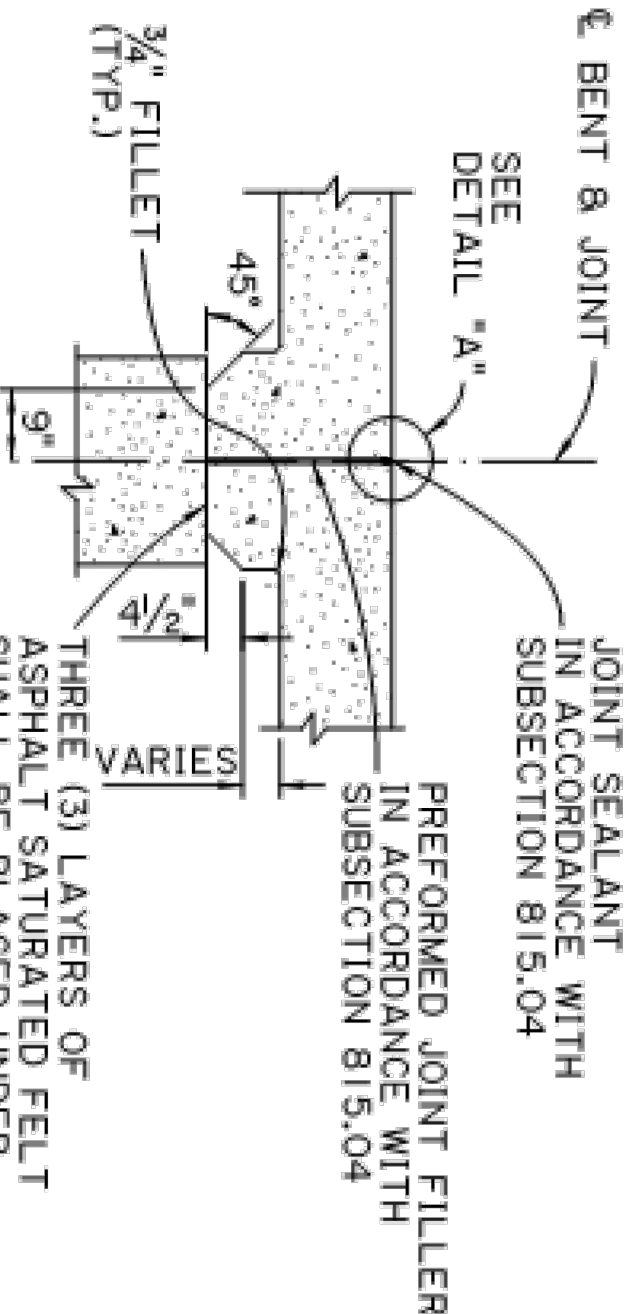
**PRECAST CONCRETE PILES:** FOR DETAILS SEE STANDARD DETAIL BD.2.5.1.0.01 (CS-216). EXTERIOR PILES ARE TO BE BATTERED OUTWARD AT 1 1/2" ON 12" IN THE LONGITUDINAL DIRECTION OF THE BENT, WHEN NOTED ON THE GENERAL PLAN.

**PREFORMED JOINT MATERIAL:** PREFORMED JOINT MATERIAL SHALL BE IN ACCORDANCE WITH SECTION 815.04 OF THE STANDARD SPECIFICATIONS.

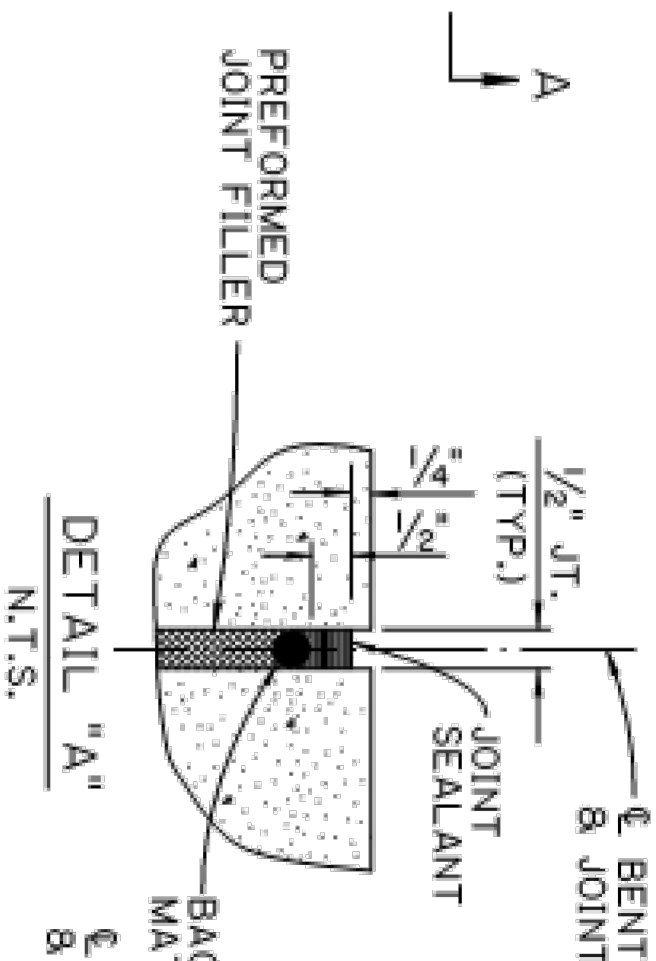




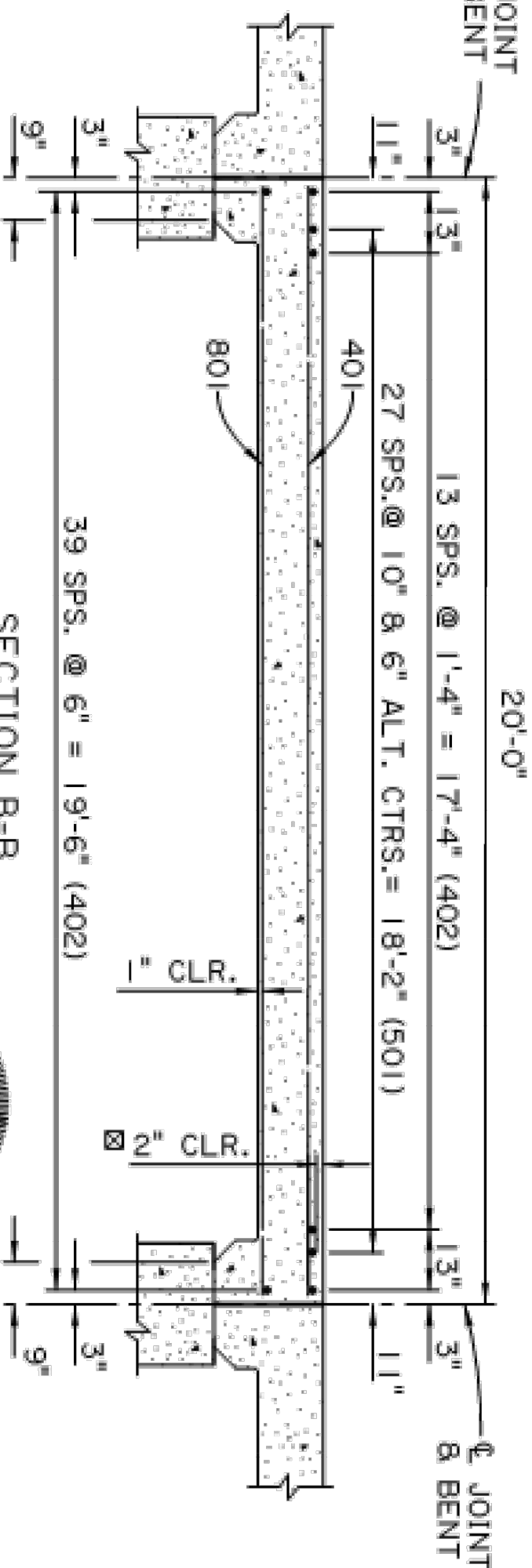
DETAIL B  
SCALE : 1/2" = 1'-0"



DETAIL SHOWING TYPICAL JOINT & HAUNCH  
SCALE : 1/2" = 1'-0"



- STANDARD BARRIERS REQUIRED ON END SPANS.
- FOR BRIDGES IN DISTRICT 04 & 05, MINIMUM CONCRETE COVER IN TOP OF SLAB SHALL BE 2 1/2".



SECTION B-B  
SCALE 3/8" = 1'-0"

ESTIMATED QUANTITIES (ONE SPAN)			
BAR NO.	UNIT LENGTH	TOTAL LENGTH	LOCATION
801	63	19'-7"	LONGIT. BOT. OF SLAB
TOTAL NO. 8 BARS = 1233'-9" = 3294 LBS.			
501	56	5'-0"	TRANS. TOP OF SLAB
TOTAL NO. 5 BARS = 280'-0" = 292 LBS.			
401	22	19'-7"	430'-10" LONGIT. TOP OF SLAB
402	56	26'-2"	1465'-4" TRANS. TOP & BOT. OF SLAB
TOTAL NO. 4 BARS = 1896'-2" = 1267 LBS.			
TOTAL DEFORMED REINFORCING STEEL = 4853 LBS.			
CLASS A1 CONCRETE = 22.08 CU. YDS.			
CONCRETE RAILING (BARRIER TYPE) = 40.00 LIN. FT.			

SPAN NOTES:  
CONSTRUCTION SPECIFICATIONS:  
LATEST APPROVED LOUISIANA STANDARD SPECIFICATIONS FOR ROADS AND BRIDGES, SUPPLEMENTAL SPECIFICATIONS AND SPECIAL PROVISIONS.  
DESIGN SPECIFICATIONS:  
AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 4th EDITION, WITH 2008 & 2009 INTERIMS.  
DESIGN LOADS:  
THE BRIDGE DECK IS DESIGNED FOR A FUTURE WEARING COURSE OF 19 PSF. THE LIVE LOAD IS HL-93, AND LADY-11 (LOUISIANA DESIGN VEHICLE LIVE LOAD 2011).

STRUCTURAL CONCRETE:  
ALL CONCRETE SHALL BE CLASS A1. EXPOSED EDGES SHALL HAVE A 3/4" CHAMFER UNLESS OTHERWISE NOTED. ALL BARRIER RAIL SURFACES ARE TO RECEIVE A CLASS 3 SPECIAL FINISH.

REINFORCING STEEL:  
ALL REINFORCING SHALL BE GRADE 60. DIMENSIONS RELATING TO SPACING ARE TO BAR CENTERS. DIMENSIONS RELATING TO FABRICATION ARE OUT TO OUT OF BARS, UNLESS OTHERWISE NOTED. ALL REINFORCING BARS SHALL BE PLACED TO PROVIDE A MINIMUM COVER OF ONE INCH FROM THE SURFACE OF THE DRAIN HOLES TO THE FACE OF THE BARS.

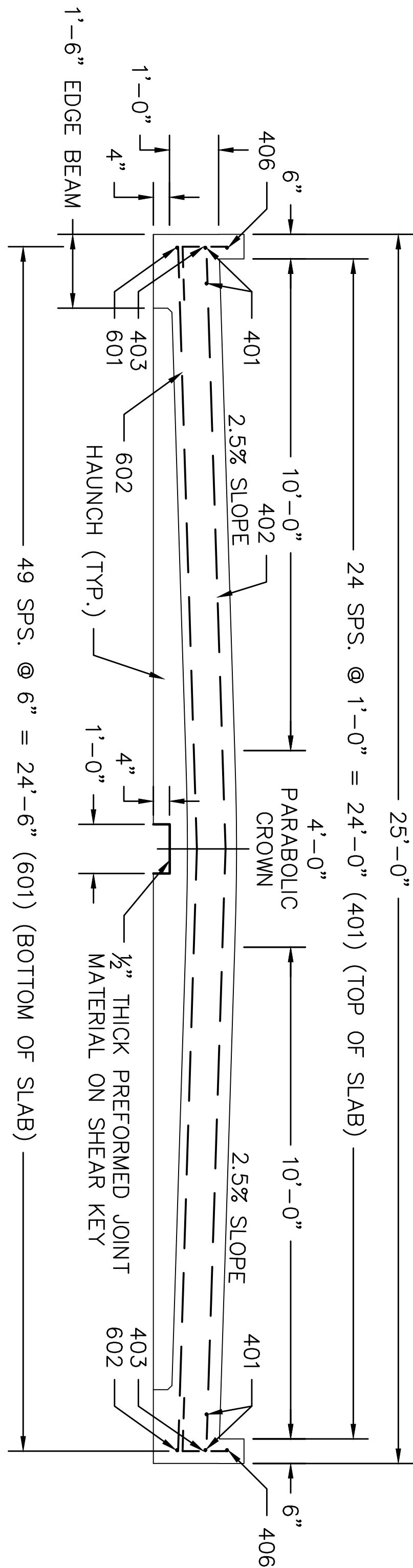
GUARD RAIL:  
REFER TO THE GENERAL PLAN FOR GUARD RAIL REQUIREMENTS. PROVIDE HOLES FOR GUARD RAIL CONNECTIONS ACCORDING TO STANDARD PLAN BD.1.1.1.0.01 (GR-200) ON ALL FOUR BRIDGE RAIL ENDS. BASIS OF PAYMENT:  
ALL MATERIAL SHALL BE PAID FOR UNDER "BRIDGE SUPERSTRUCTURE AND SUBSTRUCTURE" ACCORDING TO THE SPECIFICATIONS.

AS-DESIGNED RATING		
VEHICLE	RATING FACTOR	NOTES
HL-93 (INV)	1.347	
HL-93 (OPR)	1.746	
LADY-11 (INV)	1.036	MAGNIFICATION FACTOR = 1.3

These standard plans have been properly examined by me, the undersigned professional engineer. I have determined that these plans comply with all applicable codes and have been properly adapted to use on this project.

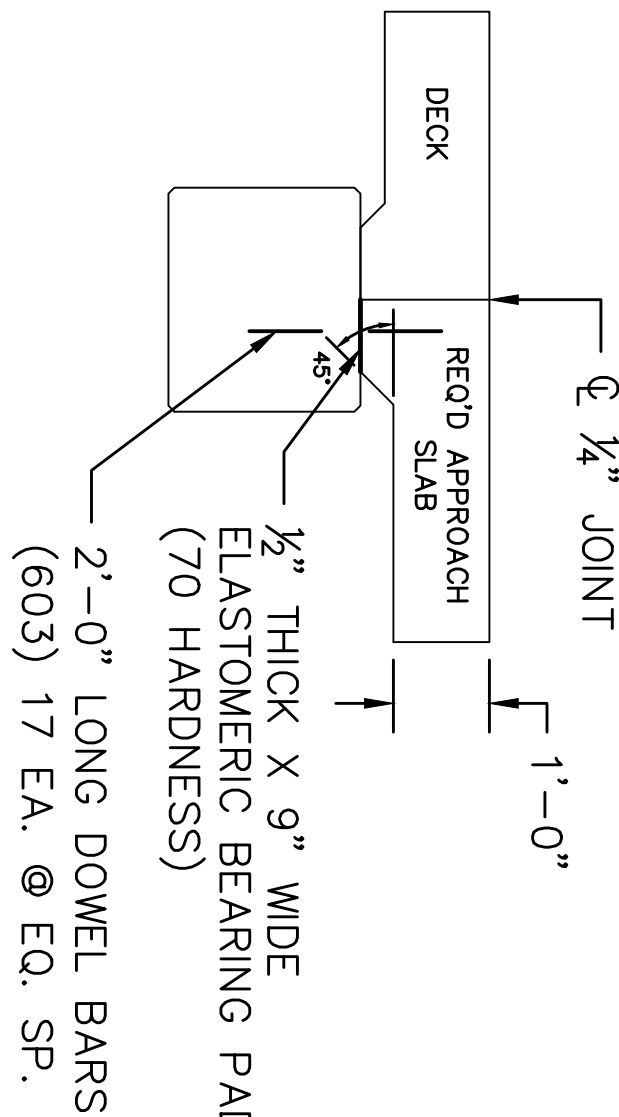




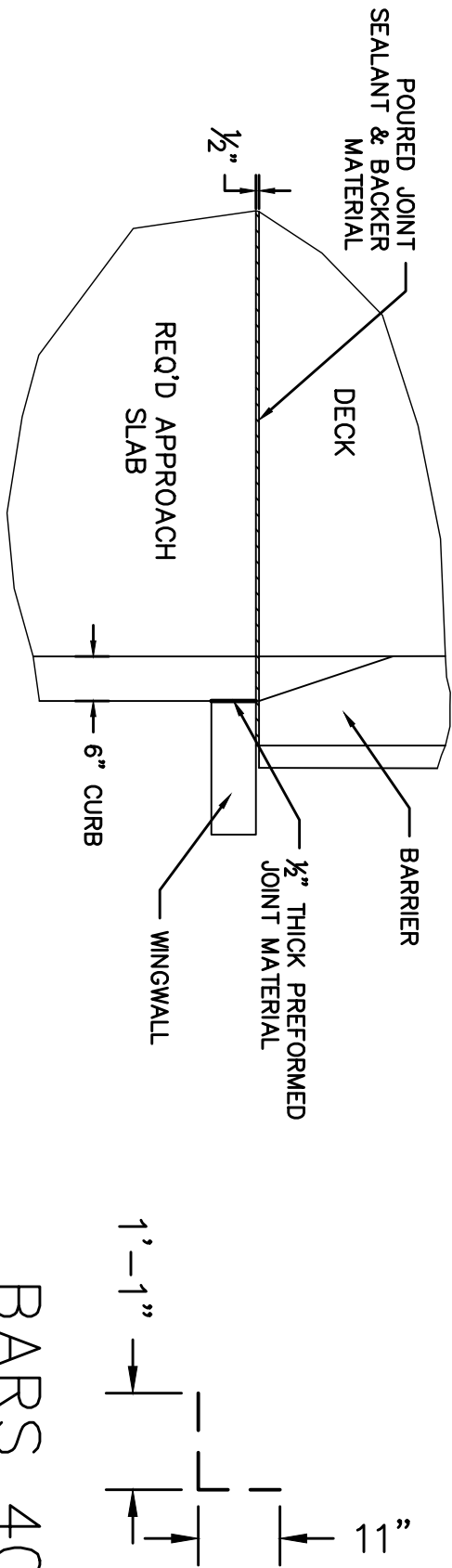


SECTION

ESTIMATED QUANTITIES (ONE SLAB)			
BAR NO.	UNIT LENGTH	TOTAL LENGTH	LOCATION
601	50	18' - 7"	929' - 2" LONGIT. BOT. OF SLAB
602	40	24' - 8"	986' - 8" TRANSV. BOT. OF SLAB
TOTAL NO. 6 BARS = 1915' - 10" = 2878 LBS.			
401	25	18' - 7"	464' - 7" LONGIT. TOP OF SLAB
402	20	24' - 8"	493' - 4" TRANSV. TOP OF SLAB
403	18	2' - 0"	36' - 0" DOWELS IN CURB
404	50	4' - 6"	225' - 0" LONGIT. TOP & BOT. OF SLEEPER SLAB
405	14	24' - 6"	343' - 0" TRANSV. TOP & BOT. OF SLEEPER SLAB
406	2	13' - 2"	26' - 4" LONGIT. CURB
TOTAL NO. 4 BARS = 1561' - 11" = 1043 LBS.			
TOTAL DEFORMED REINFORCING STEEL = 3921 LBS.			
CLASS A1 CONCRETE = 24.16 CU. YDS.			
ASPHALT CONCRETE = 3.7 TONS			
ELASTOMERIC BEARING PAD = 46.9 SF - IN.			
CONCRETE APPROACH SLAB = 500 SQ. FT.			

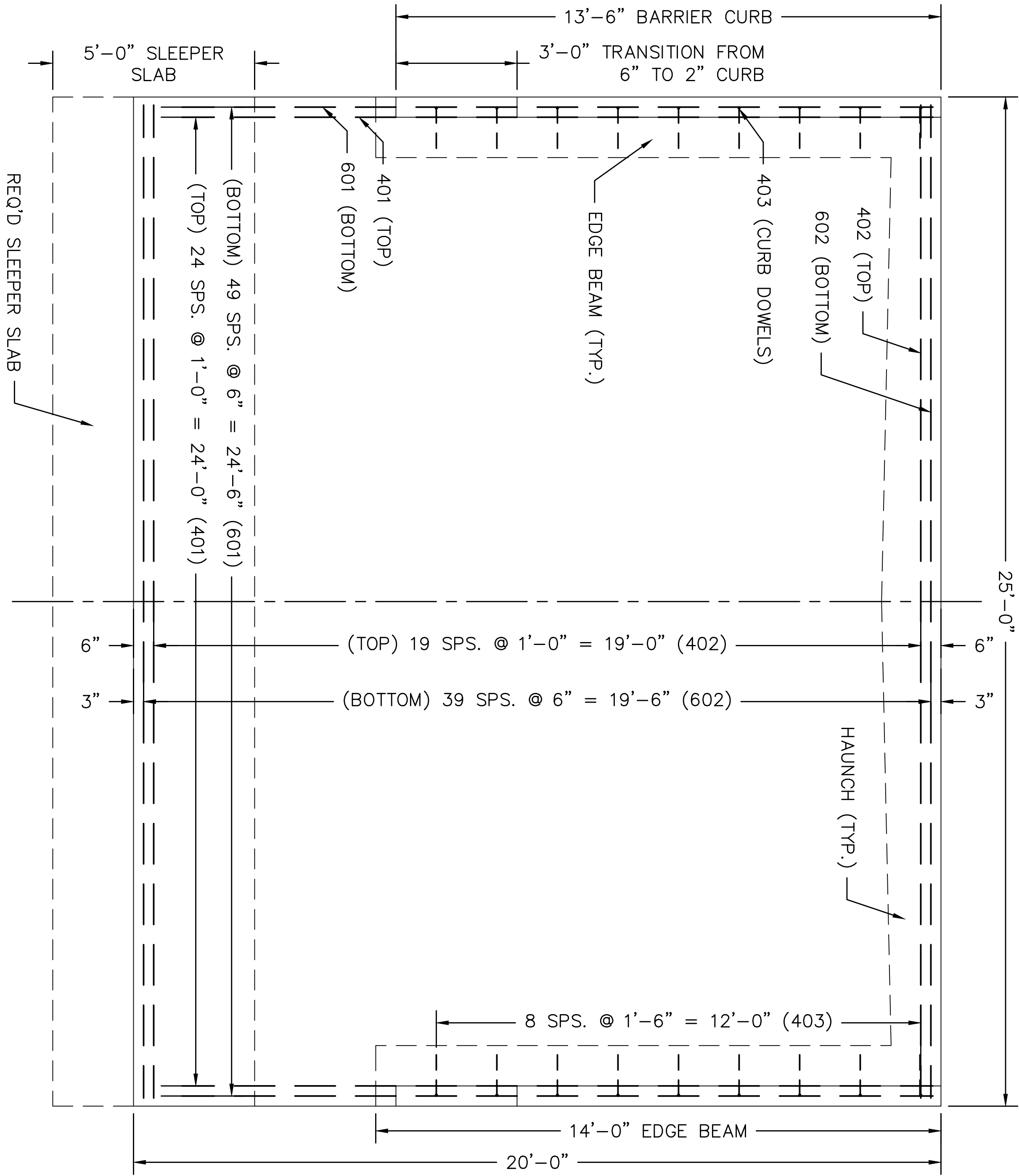


SECTION ALONG ROADWAY

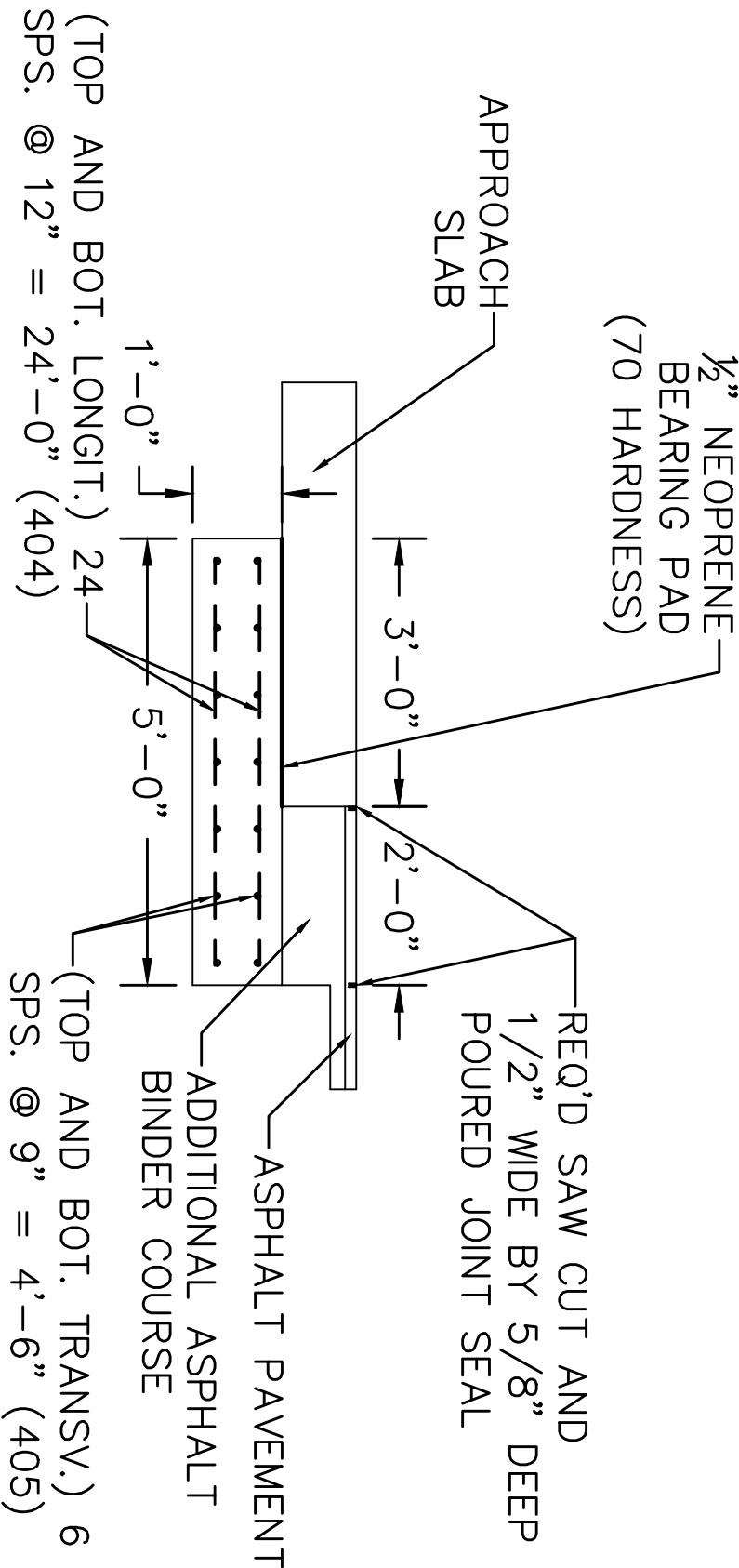


WINGWALL JOINT DETAIL

BAR 403

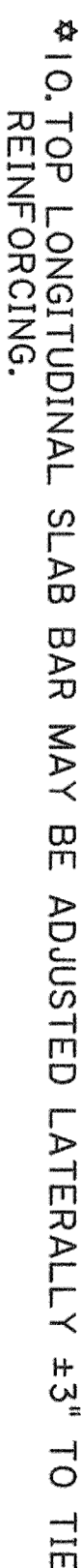


PLAN



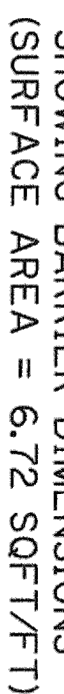
SLEEPER SLAB DETAIL



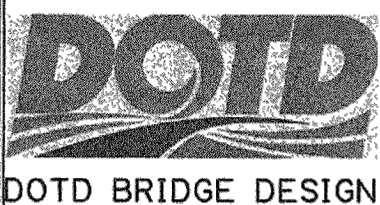


Technical drawing of a bent pipe. The drawing shows a pipe bent at a 90-degree angle. The dimensions are as follows:

- The vertical section has a height of 1'-0" and a radius of 2 1/8".
- The horizontal section has a length of "A" and a radius of 5 1/8".
- The angle of the bend is 90 degrees.
- The horizontal section has a radius of 2 1/8" at the bend.
- The horizontal section has a length of 2'-10 1/2" and a radius of 1/2" at the end.
- The vertical section has a height of 97/8" and a radius of 1/2" at the end.



These standard plans have been properly examined by me, the undersigned professional engineer. I have determined that these plans comply with all applicable codes and have been properly adapted to use on this project.



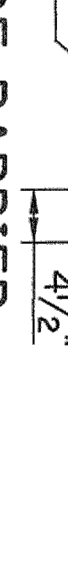




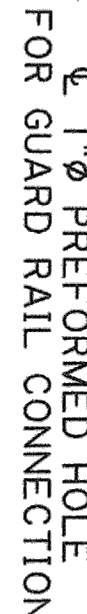
## AFTER 50% TRANSITION



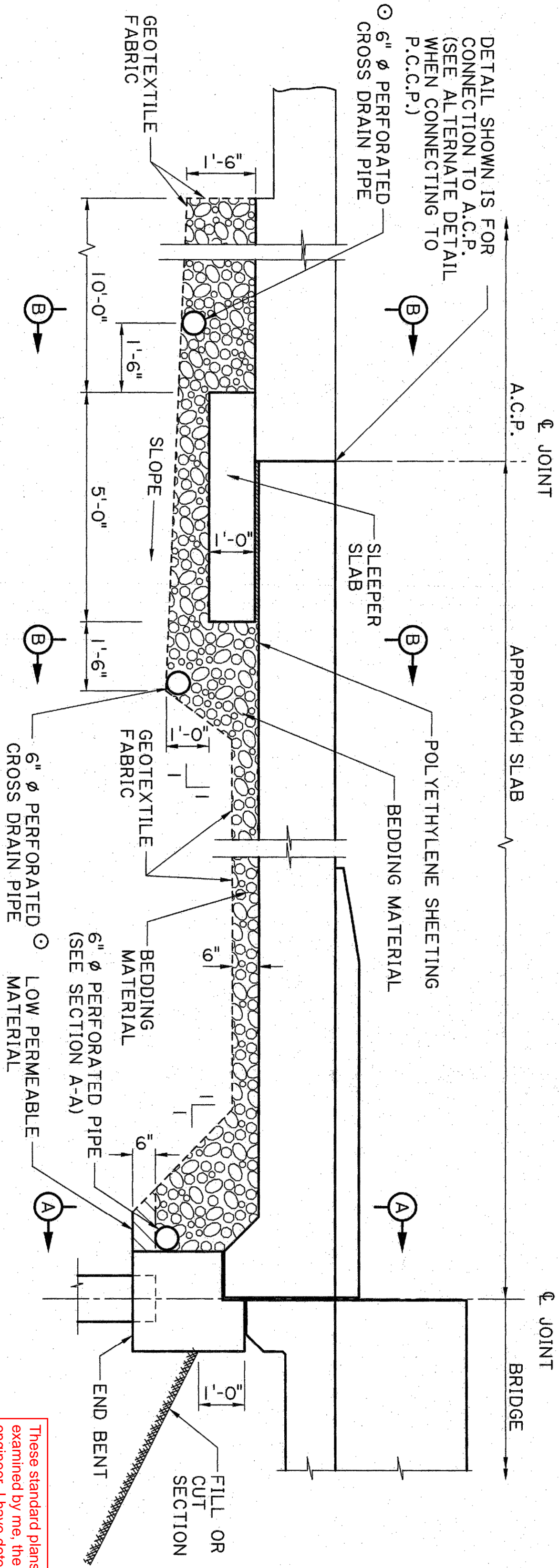
END OF BARRIER



These standard plans have been properly examined by me, the undersigned professional engineer. I have determined that these plans comply with all applicable codes and have been properly adapted to use on this project.

[illegible]

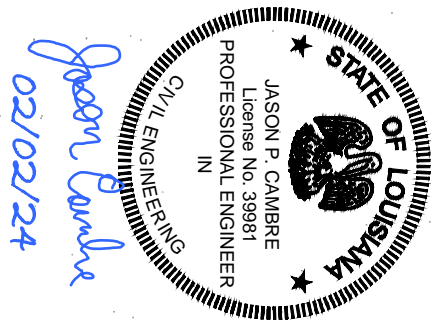




ELEVATION @ APPROACH SLAB

(SLAB SPAN BRIDGE SHOWN, QUAD BEAM DETAIL SIMILAR)  
(ASPHALTIC CONCRETE ROADWAY SHOWN, FOR ALTERNATE DETAILS AT ROADWAY, SEE BELOW)

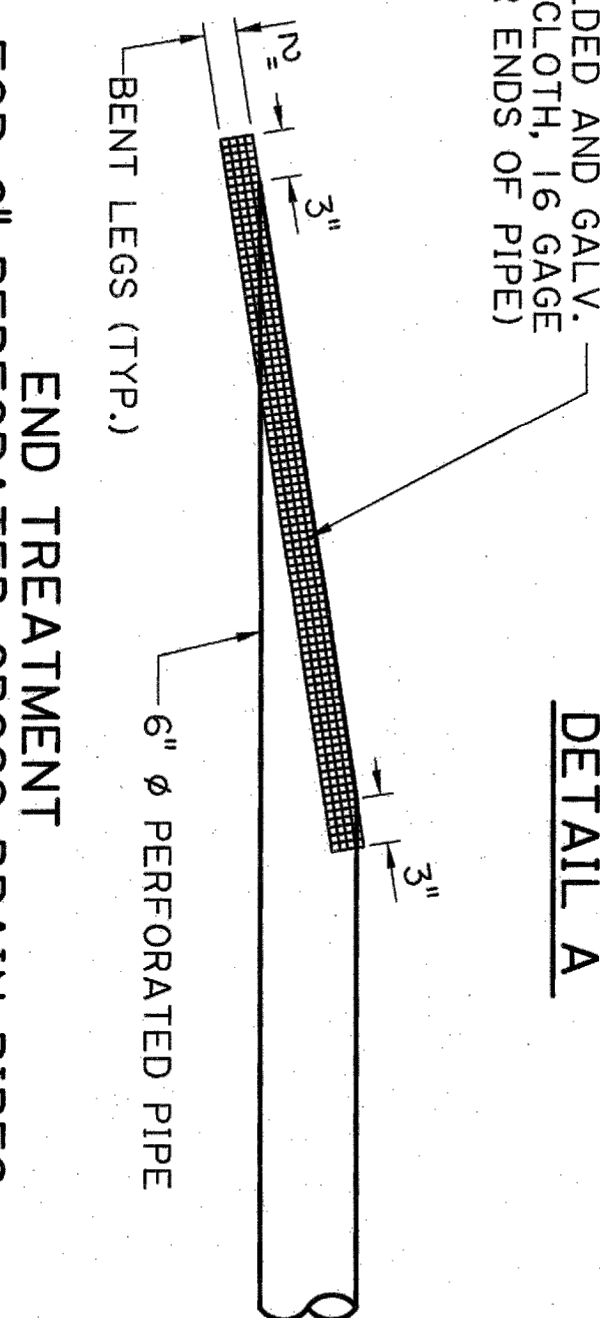
These standard plans have been properly examined by me, the undersigned professional engineer. I have determined that these plans comply with all applicable codes and have been properly adapted to use on this project.



Jason P. Chamber  
02/02/24

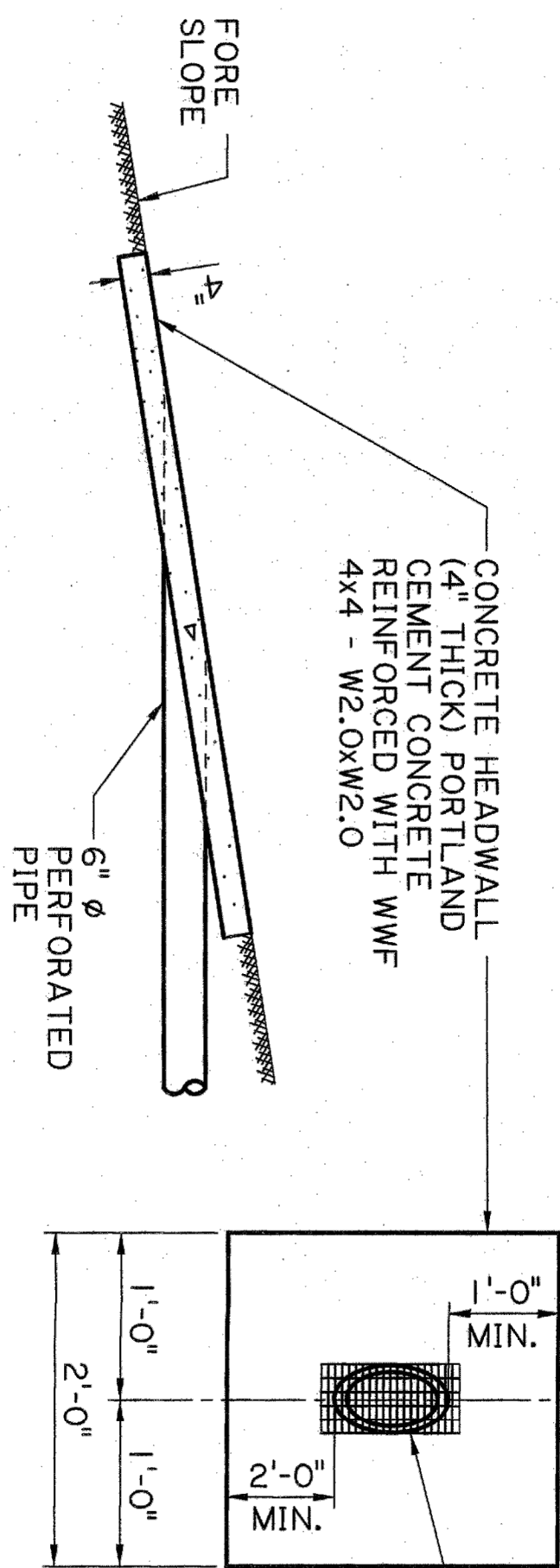
- NOTES:**
1. INSTALL POLYETHYLENE SHEETING (6 MIL. THICKNESS) BETWEEN THE BEDDING MATERIAL AND APPROACH SLAB. INSTALL GEOTEXTILE FABRIC DIRECTLY BELOW THE BEDDING MATERIAL. LIMITS SHALL BE THE OUTER EDGES OF THE APPROACH SLAB.
  2. UNDERDRAIN MATERIALS AND CONSTRUCTION REQUIREMENTS SHALL BE IN ACCORDANCE WITH SECTION 813 OF THE STANDARD SPECIFICATIONS.
  3. LOW PERMEABLE MATERIAL SHALL BE DEFINED AS A SOIL HAVING THE SAME PL LIMITS AS PLASTIC SOIL BLANKETS, SEE SECTION 203.10.
  4. WRAP GEOTEXTILE FABRIC (CLASS C OR D) AROUND THE PERFORATED PIPE AS SHOWN.
  5. FOR ROADWAYS WITH A ONE-WAY TANGENT, THE 6" Ø CROSS DRAINAGE PIPE MAY SLOPE ONE-WAY WITH ONLY ONE CONCRETE HEADWALL AT THE LOWER END. PLUG THE HIGH END OF THE 6" Ø PIPE.
  6. CROSS DRAIN PIPE SHALL NOT EXCEED LIMITS OF RIGHT OF WAY (SEE DETAIL "A").
  7. APPROACH SLAB WITHOUT SLEEPER SLAB TO ONLY BE USED ON OFF-SYSTEM PROJECTS OR BY SPECIAL PERMISSION FROM THE BRIDGE DESIGN ADMINISTRATOR.

DETAIL A

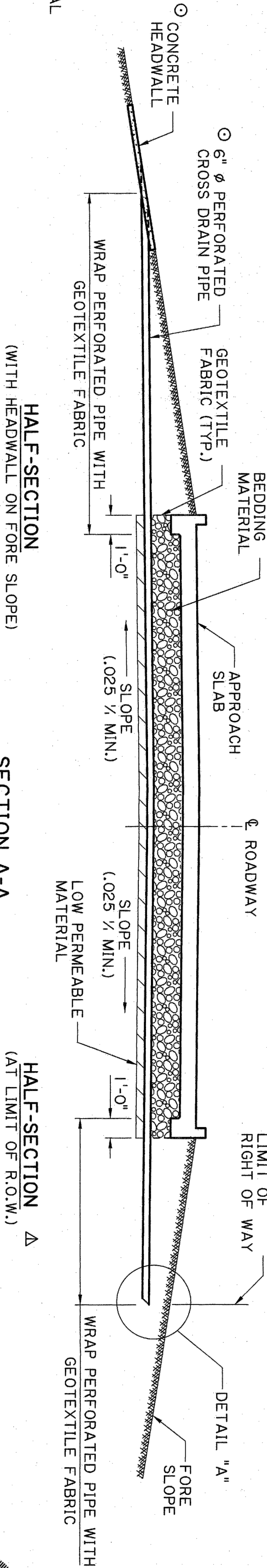
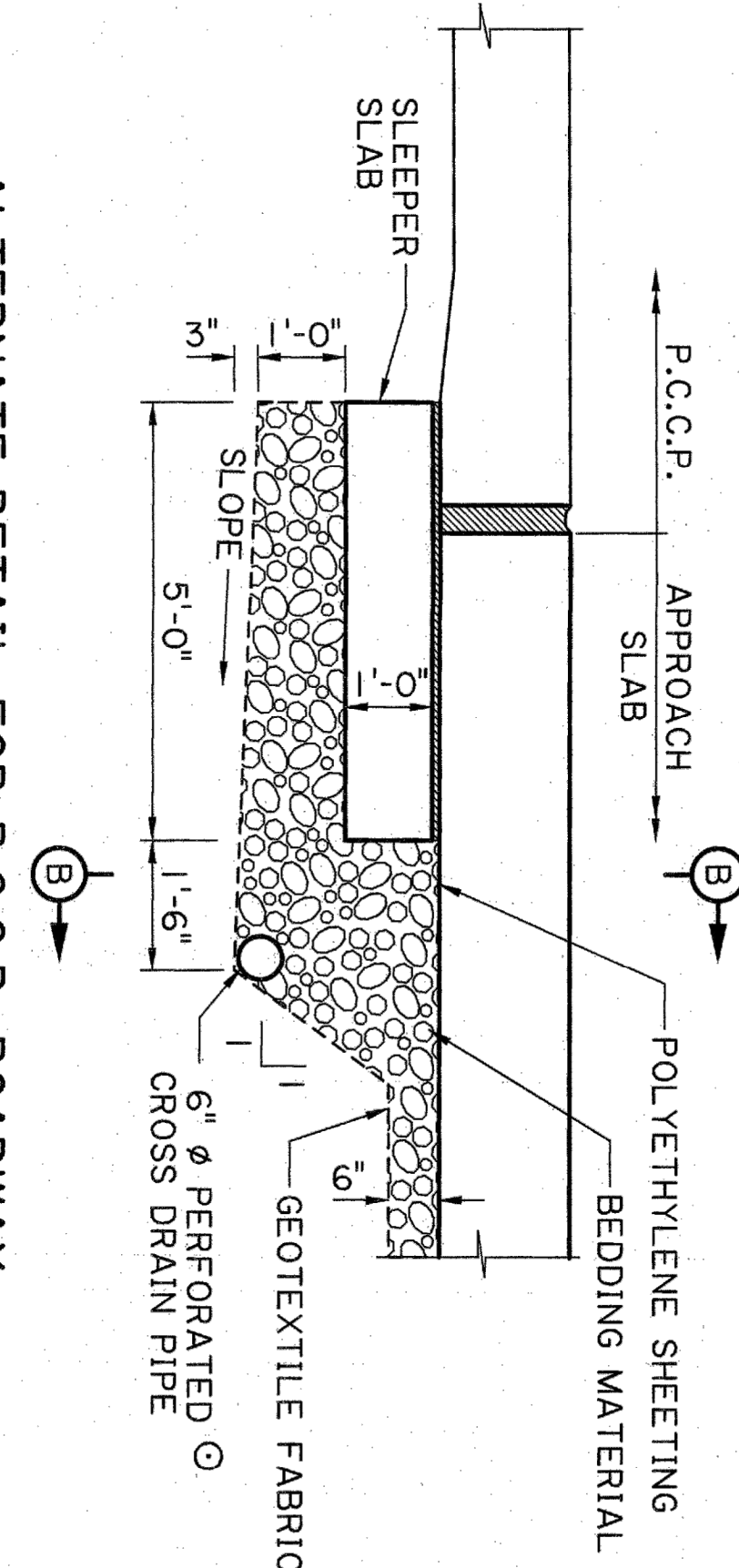


END TREATMENT FOR 6" PERFORATED CROSS DRAIN PIPES

CONCRETE HEADWALL

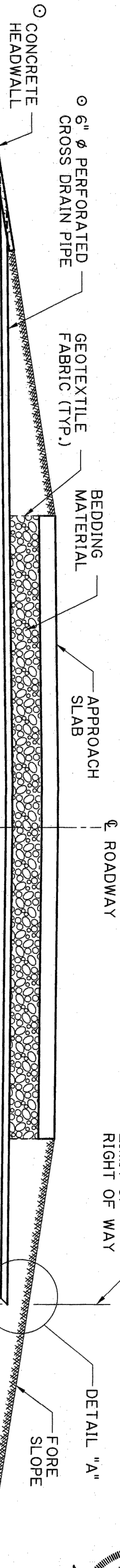


ALTERNATE DETAIL FOR P.C.C.P. ROADWAY



SECTION A-A

HALF-SECTION Δ  
(AT LIMIT OF R.O.W.)

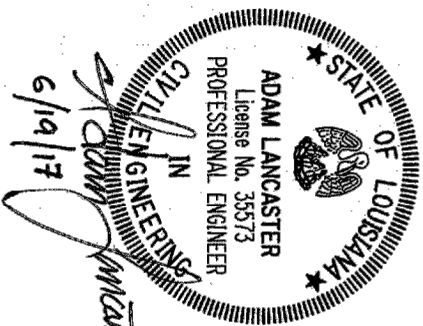
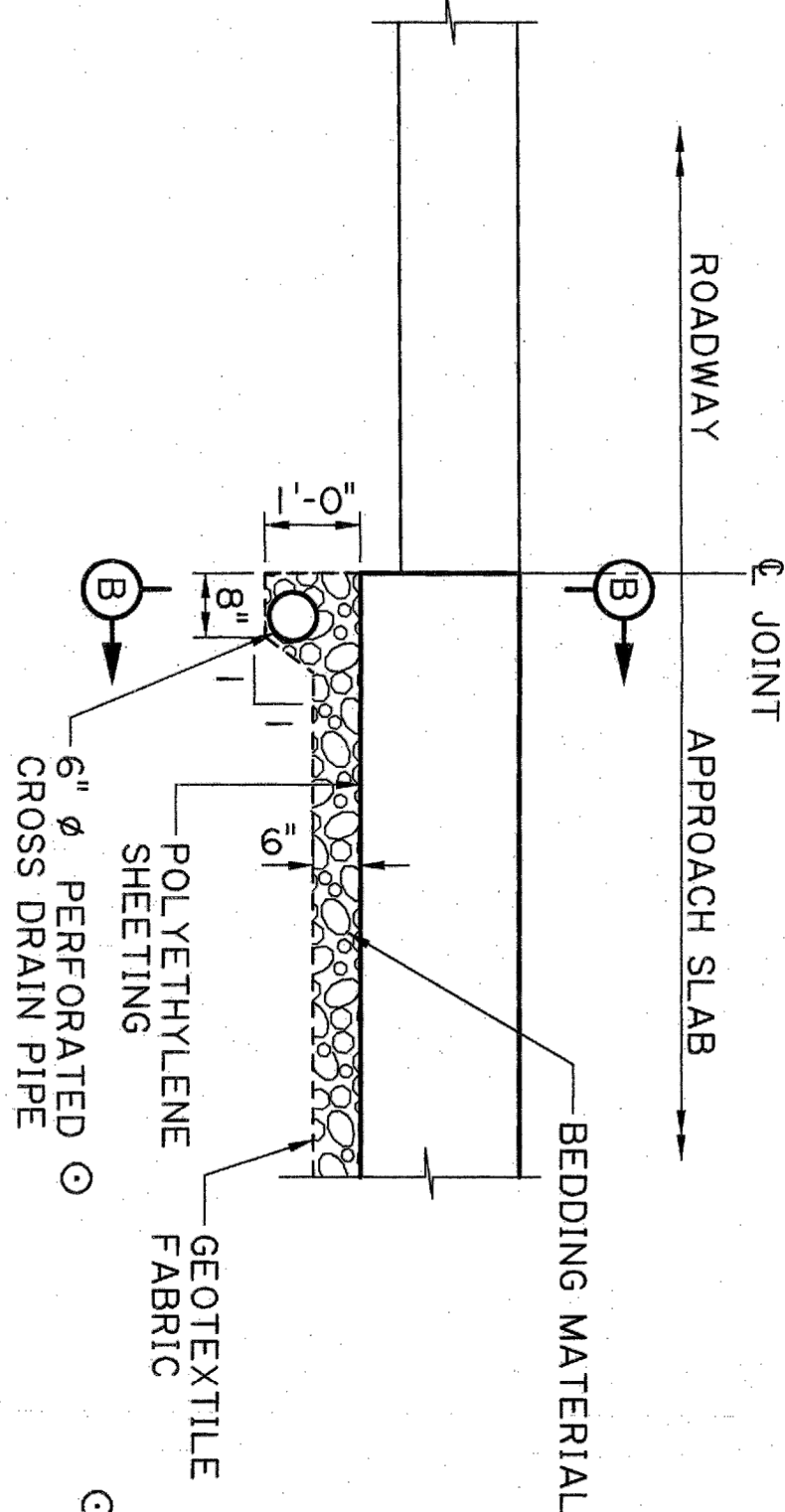


SECTION B-B

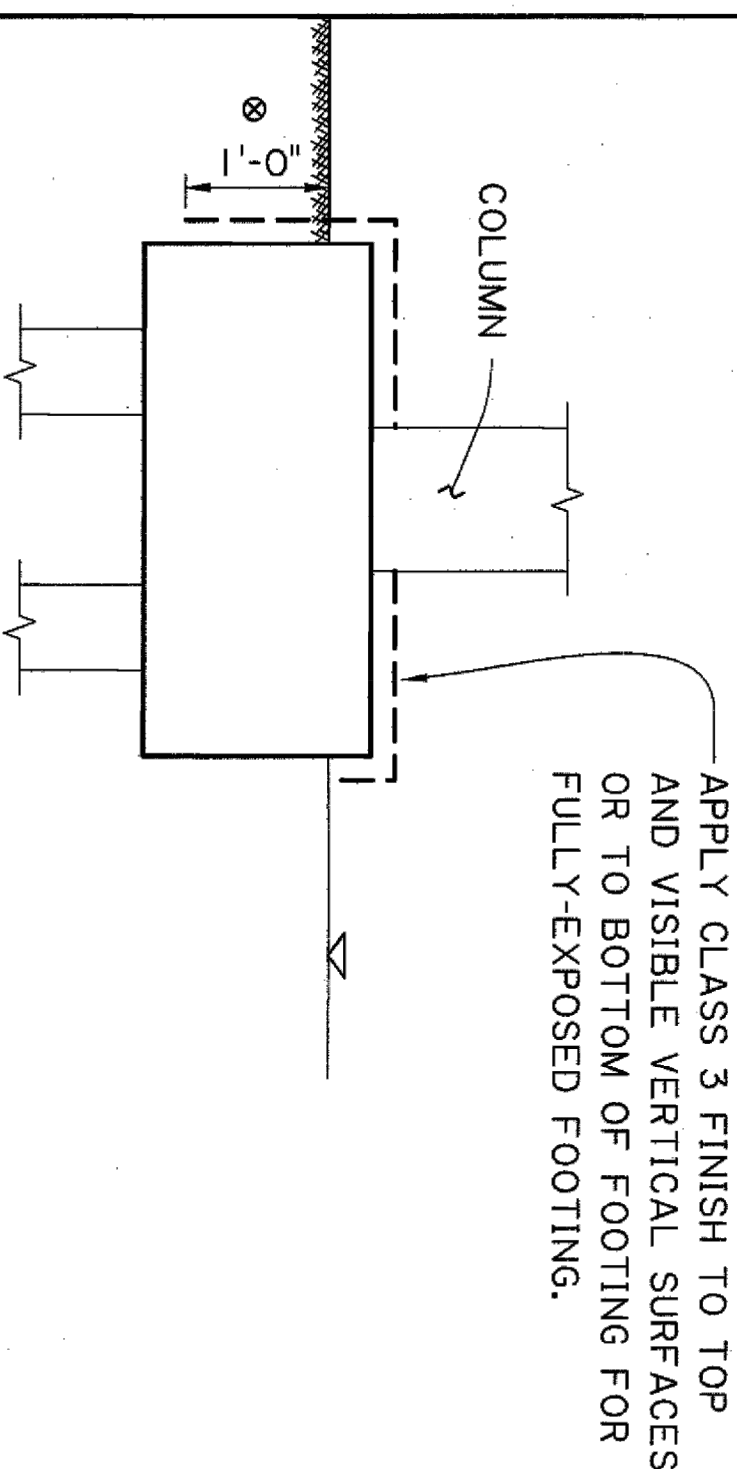
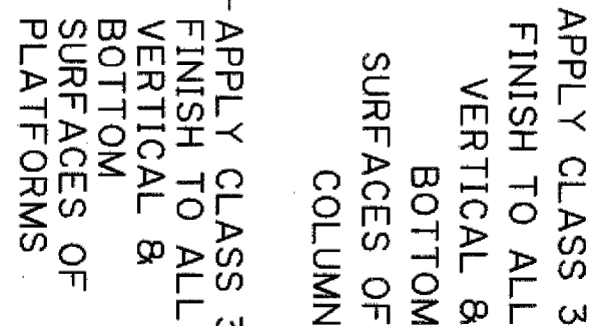
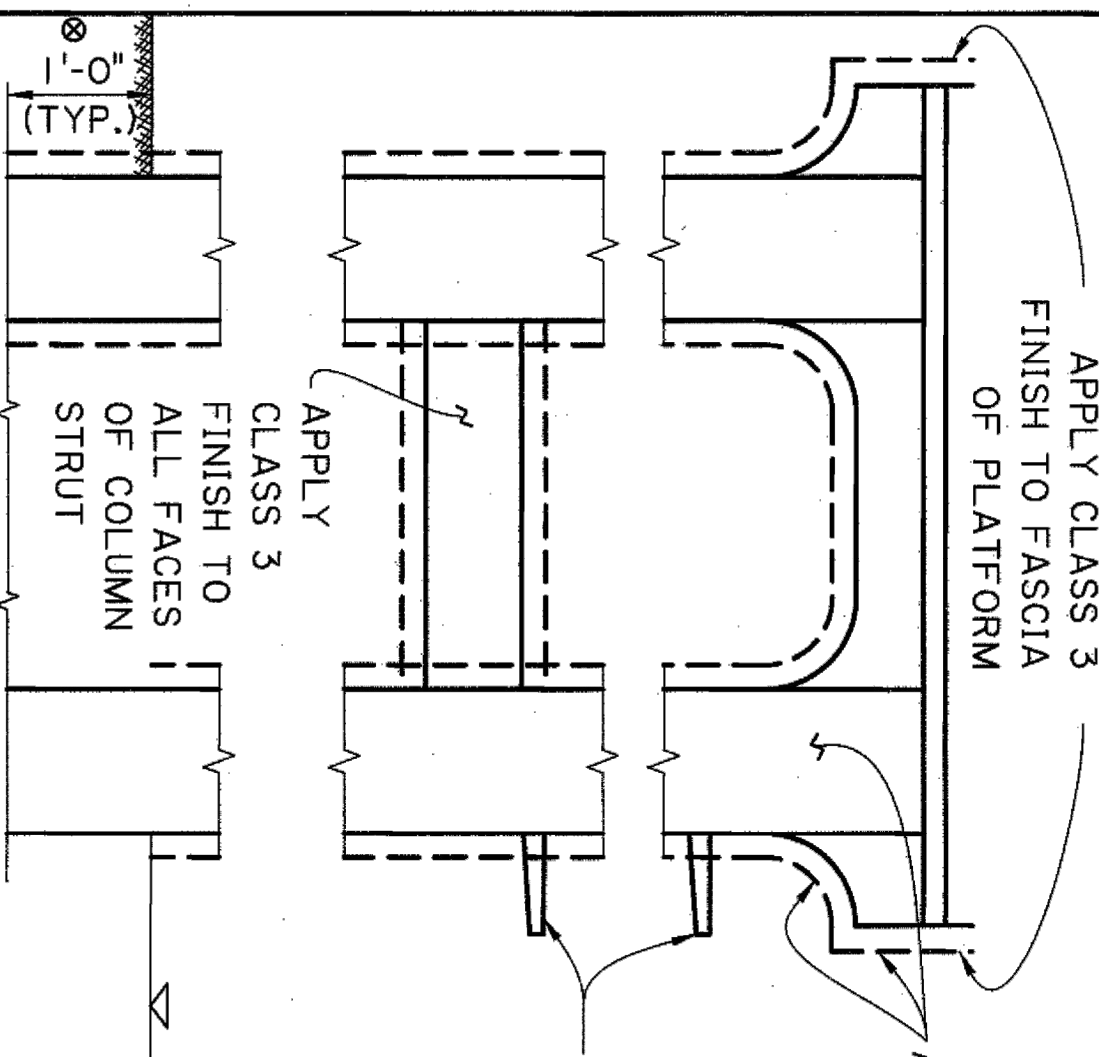
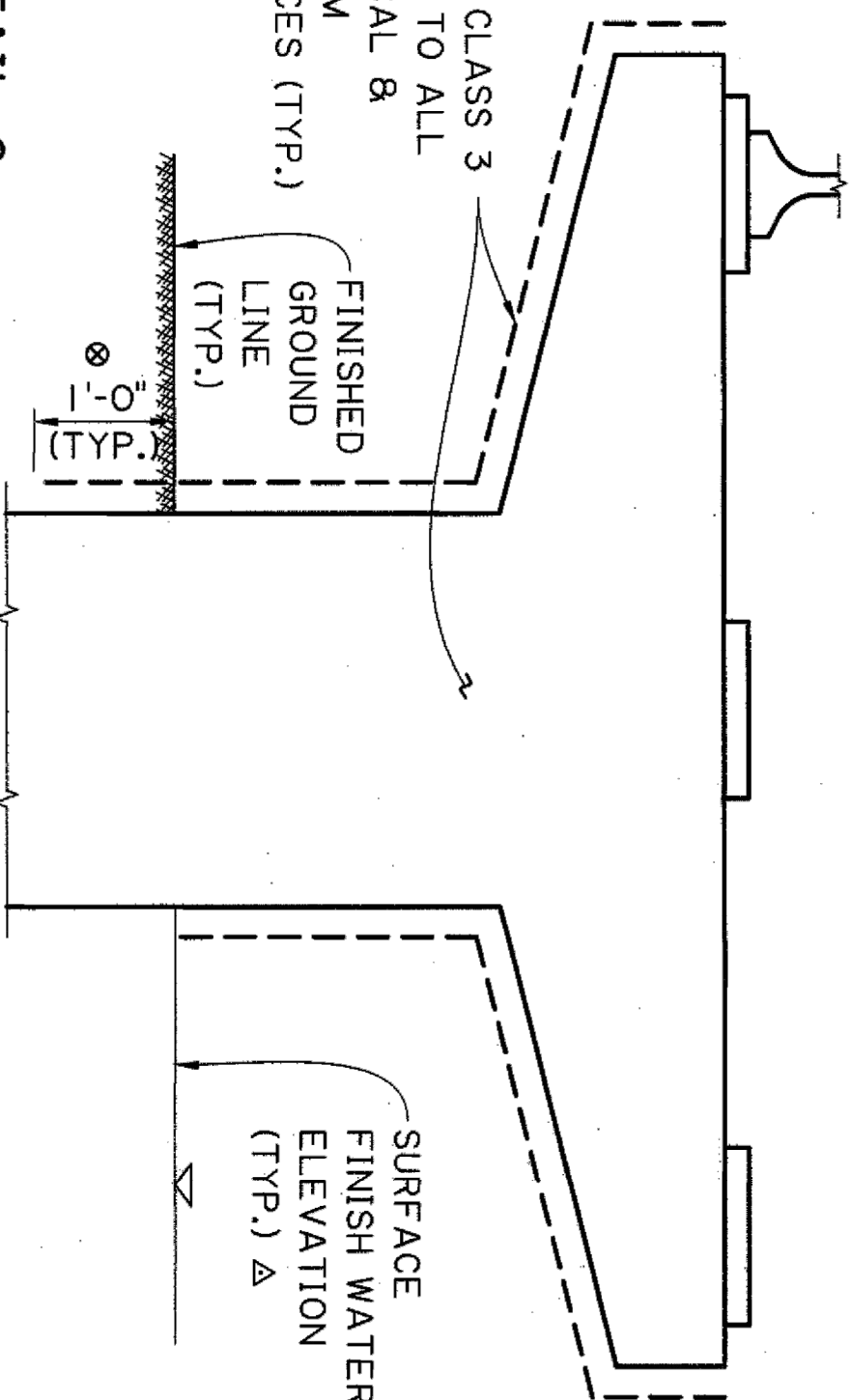
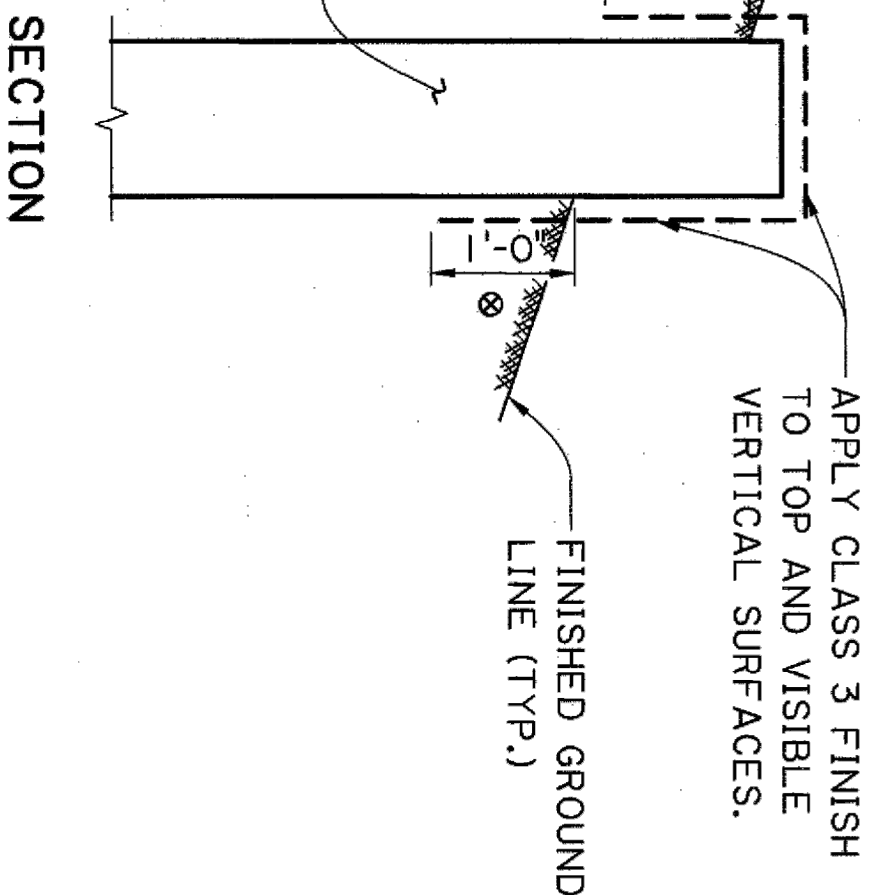
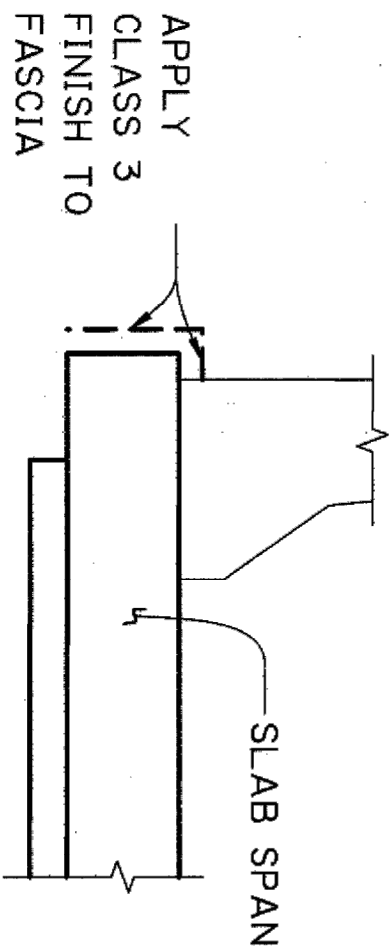
HALF-SECTION Δ  
(AT LIMIT OF R.O.W.)

ALTERNATE DETAIL FOR APPROACH SLAB WITHOUT SLEEPER SLAB

(NOTE: SECTION A-A ALSO APPLIES TO APPROACH SLABS WITHOUT A SLEEPER SLAB AND OFF-SYSTEM BRIDGES)

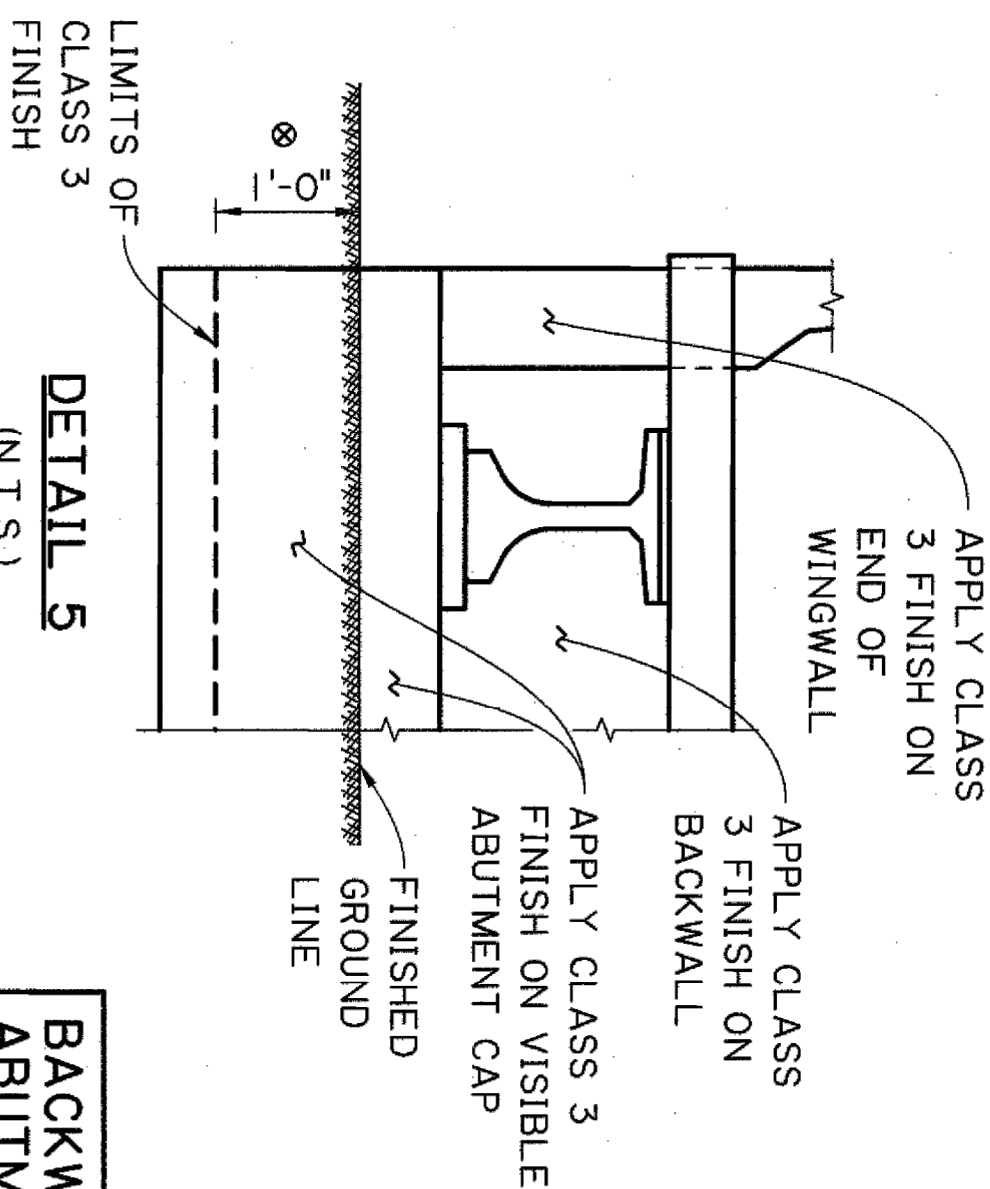




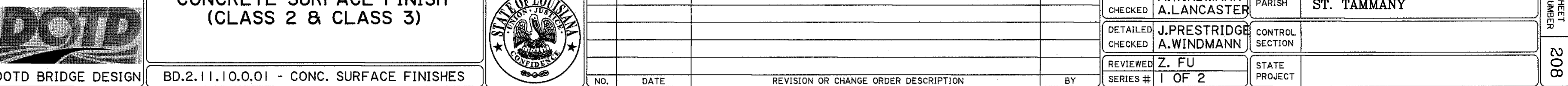


Δ 6. THE "SURFACE FINISH WATER ELEVATION" ▽ SHALL BE TAKEN AS THE WATER SURFACE ELEVATION AT THE TIME OF THE CONCRETE SURFACE FINISH APPLICATION. EXTEND SURFACE FINISH TO THIS ELEVATION.

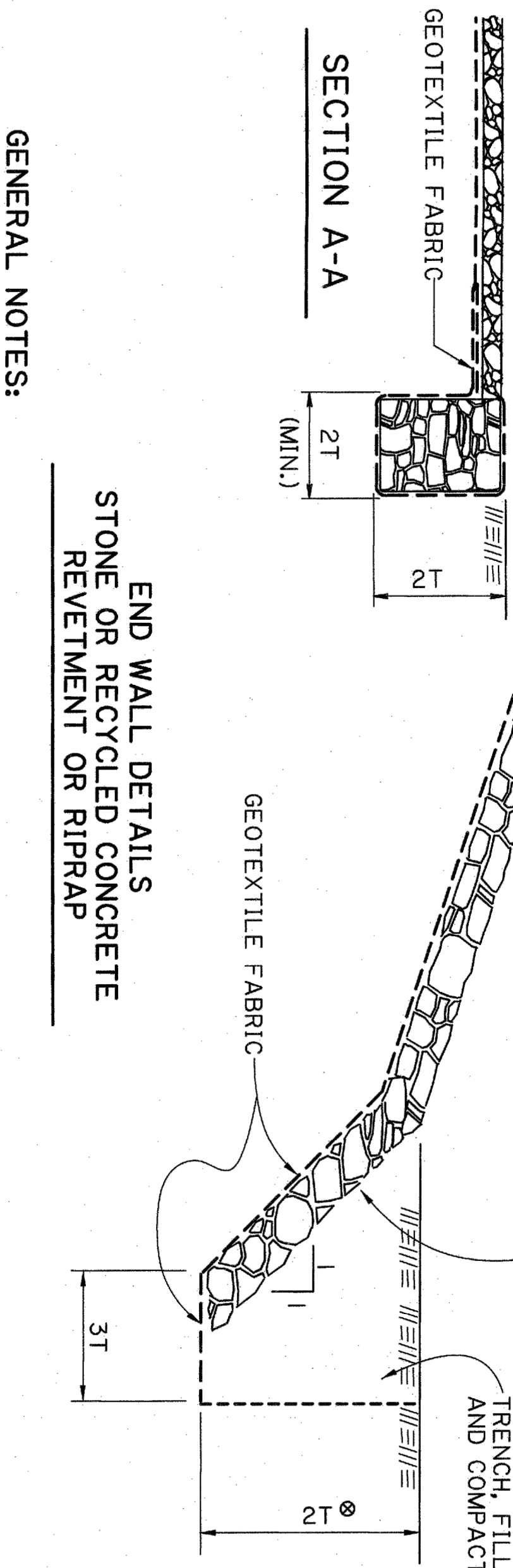
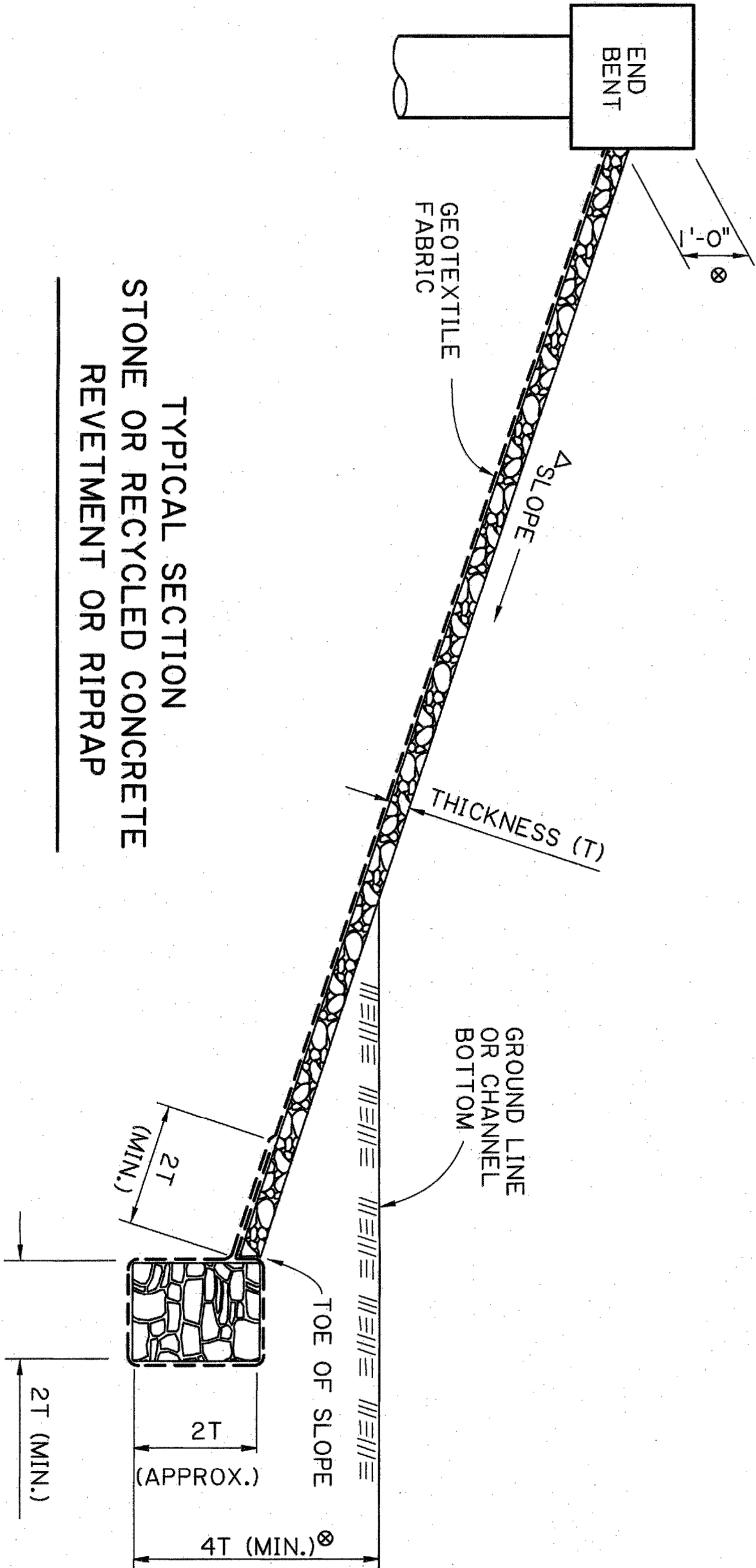
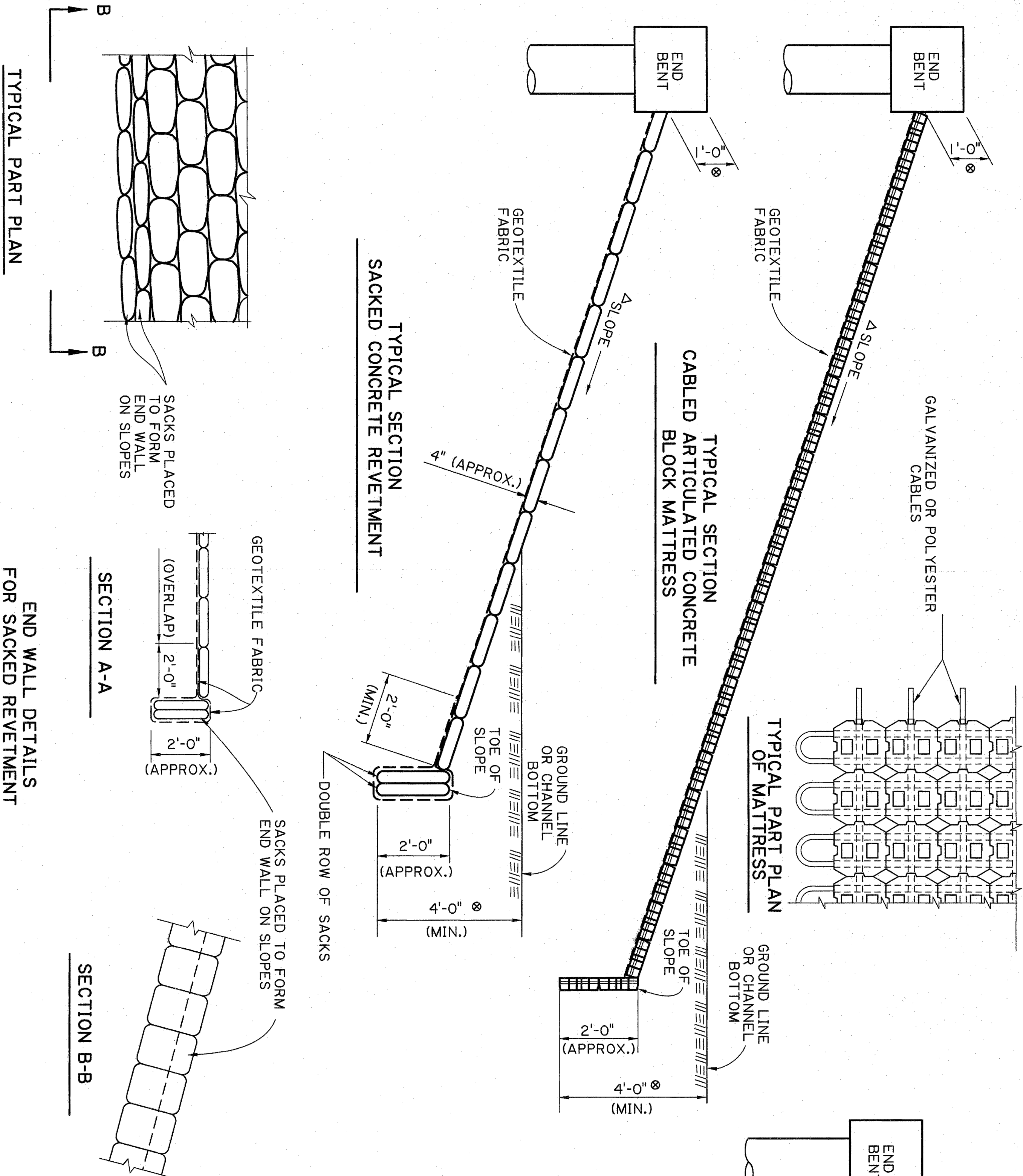
Andrew Windmann  
4/24/2017



BACKWALL &  
ABUTMENT CAP







**GENERAL NOTES:**

RIPPAP AND FLEXIBLE REVETMENT SHALL BE PLACED IN ACCORDANCE WITH THE LATEST SECTIONS 711 AND 712 OF THE LOUISIANA STANDARD SPECIFICATIONS FOR ROADS AND BRIDGES.

GEOTEXTILE FABRIC WILL BE MEASURED AND PAID FOR UNDER ITS OWN PAY ITEM WHEN USED WITH RIPRAP BUT WILL BE CONSIDERED AN INCIDENTAL ITEM AND BE INCLUDED IN THE PAY ITEM FOR REVETMENT. ALTERNATE DESIGNS MAY BE SUBMITTED TO THE HYDRAULIC ENGINEER FOR APPROVAL.

ELEVATION OF TOE OF SLOPE TO REMAIN CONSTANT FOR ALL PROTECTED SIDES OF THE EMBANKMENT, UNLESS OTHERWISE NOTED.

WHERE SLOPE PROTECTION FOR ADJACENT EMBANKMENTS INTERSECT, TERMINATE EACH WITH A TOE WALL AS DETAILED ON THIS SHEET EXCEPT WALLS ABUT.

RIPPAP CLASS (LBS.)	MINIMUM THICKNESS (T) (INCHES)
30	14
55	18
130	24
250	30

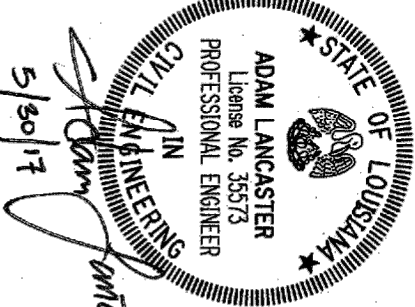
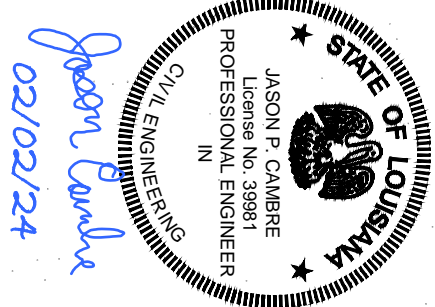
\* STONE ONLY

☒ EQUIVALENT TO STONE OR RECYCLED CONCRETE REVETMENT.

⊗ UNLESS OTHERWISE SHOWN ON PLANS.

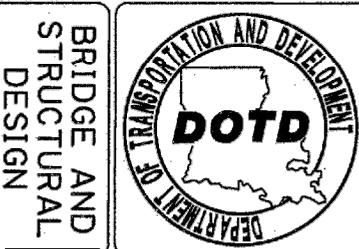
△ SEE GENERAL PLAN FOR EMBANKMENT HEADER SLOPE AND LIMITS OF SLOPE PROTECTION ALONG ROADWAY EMBANKMENT.

These standard plans have been properly examined by me, the undersigned professional engineer. I have determined that these plans comply with all applicable codes and have been properly adapted to use on this project.



**FLEXIBLE REVETMENT AND RIPRAP**

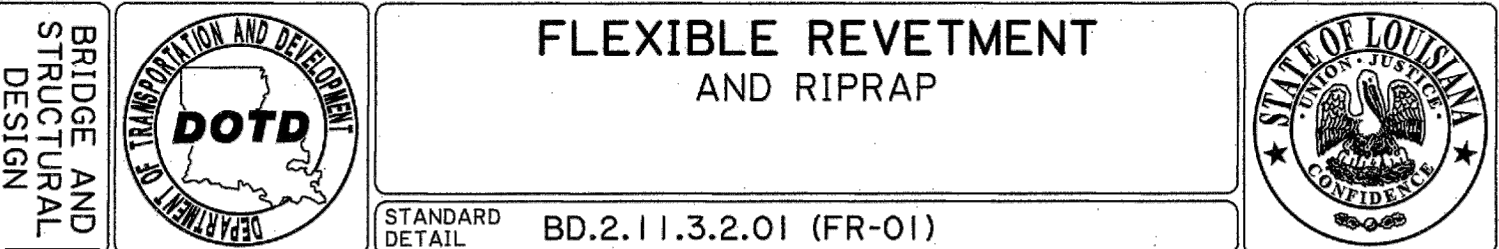
STANDARD DETAIL BD.2.11.3.2.01 (FR-01)



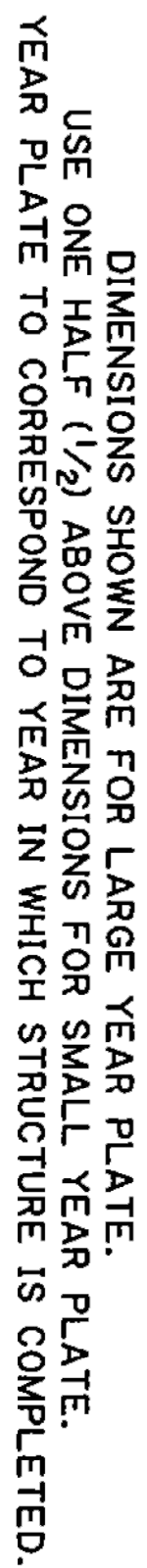
SHEET NUMBER 209

DESIGNED	A. ALLEN	PARISH	ST. TAMMANY
CHECKED		FEDERAL PROJECT	
DATE	MAY, 2000	STATE PROJECT	

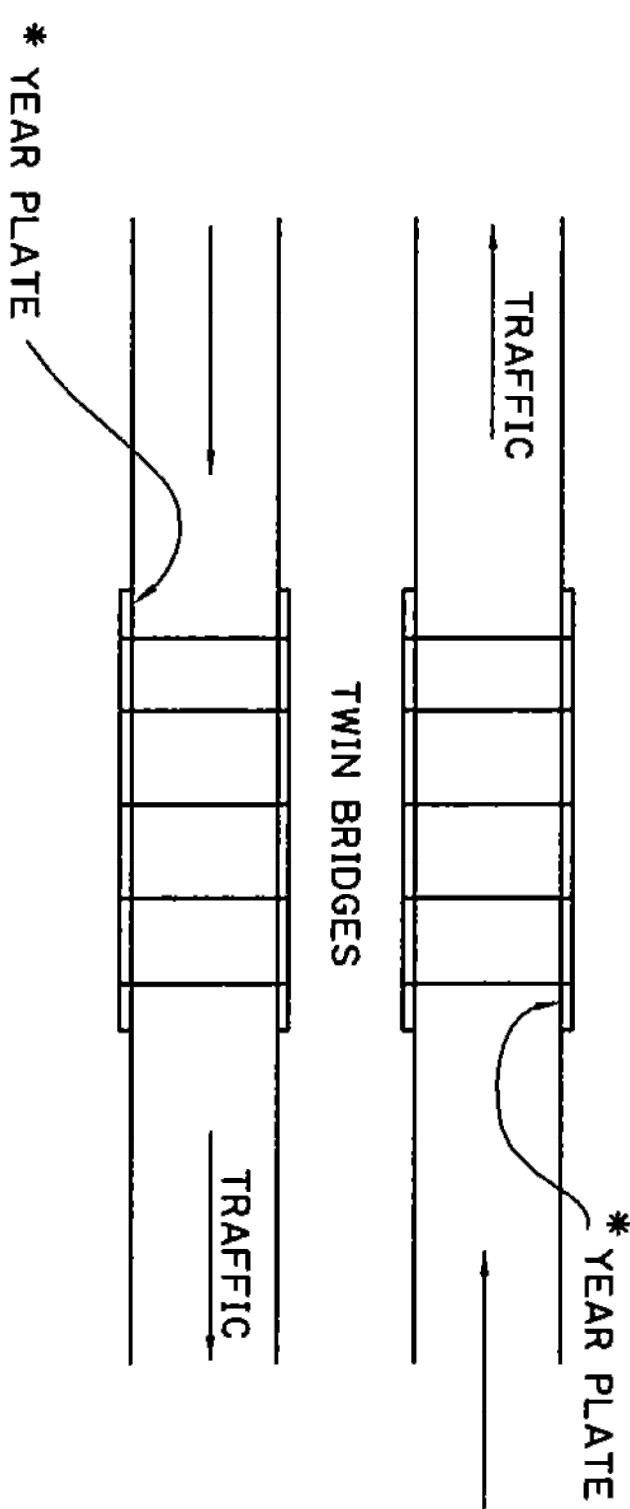
NO.	1	12-18-09	ARTICULATED CONCRETE MATTRESS	P.B.F.
DATE				
REVISION DESCRIPTION				





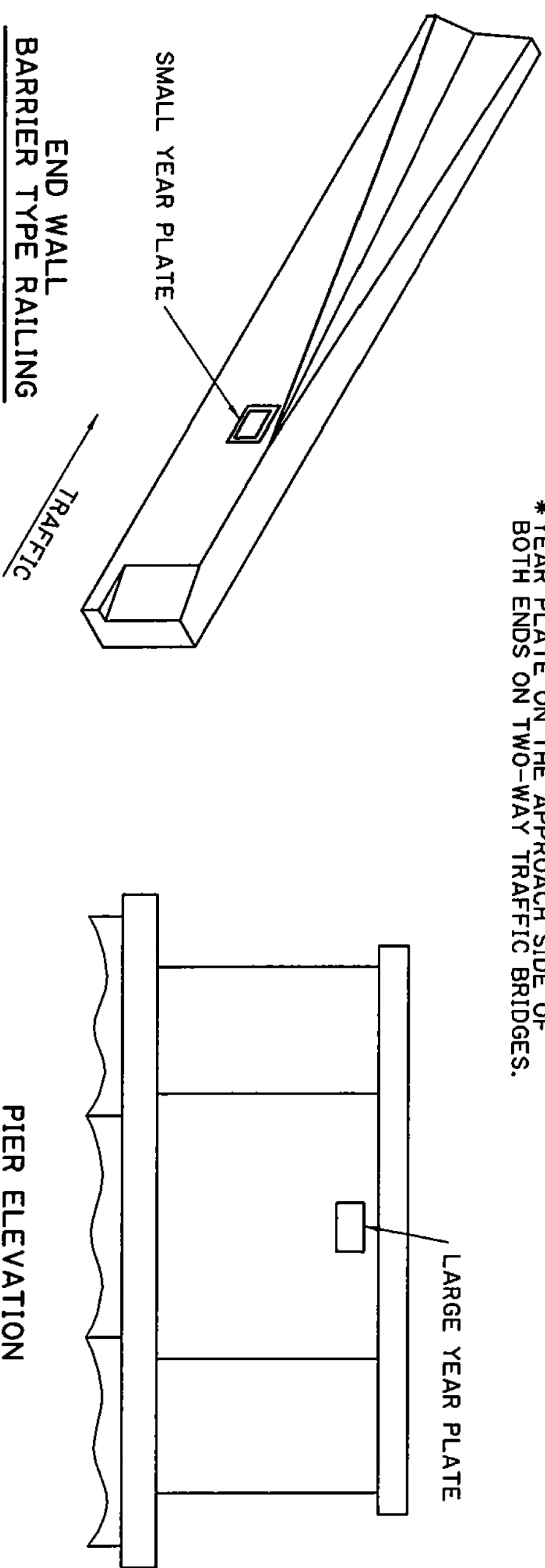


NOTE:  
FIGURE "6" TO BE "9" INVERTED.  
FIGURE "0" TO BE MADE USING DASHED LINES INDICATED ON DETAIL OF FIGURE "8."  
DIMENSIONS SHOWN ARE FOR LARGE YEAR PLATE.  
USE ONE-HALF (1/2) ABOVE DIMENSIONS FOR SMALL YEAR PLATE.



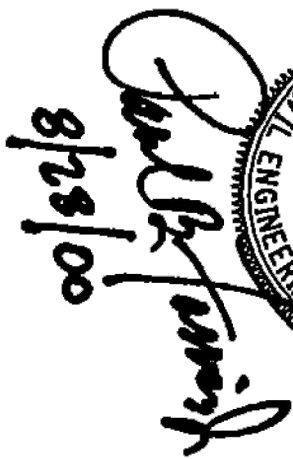
**BRIDGE PLAN**



**\* YEAR PLATE ON THE APPROACH SIDE OF BOTH ENDS ON TWO-WAY TRAFFIC BRIDGES.**



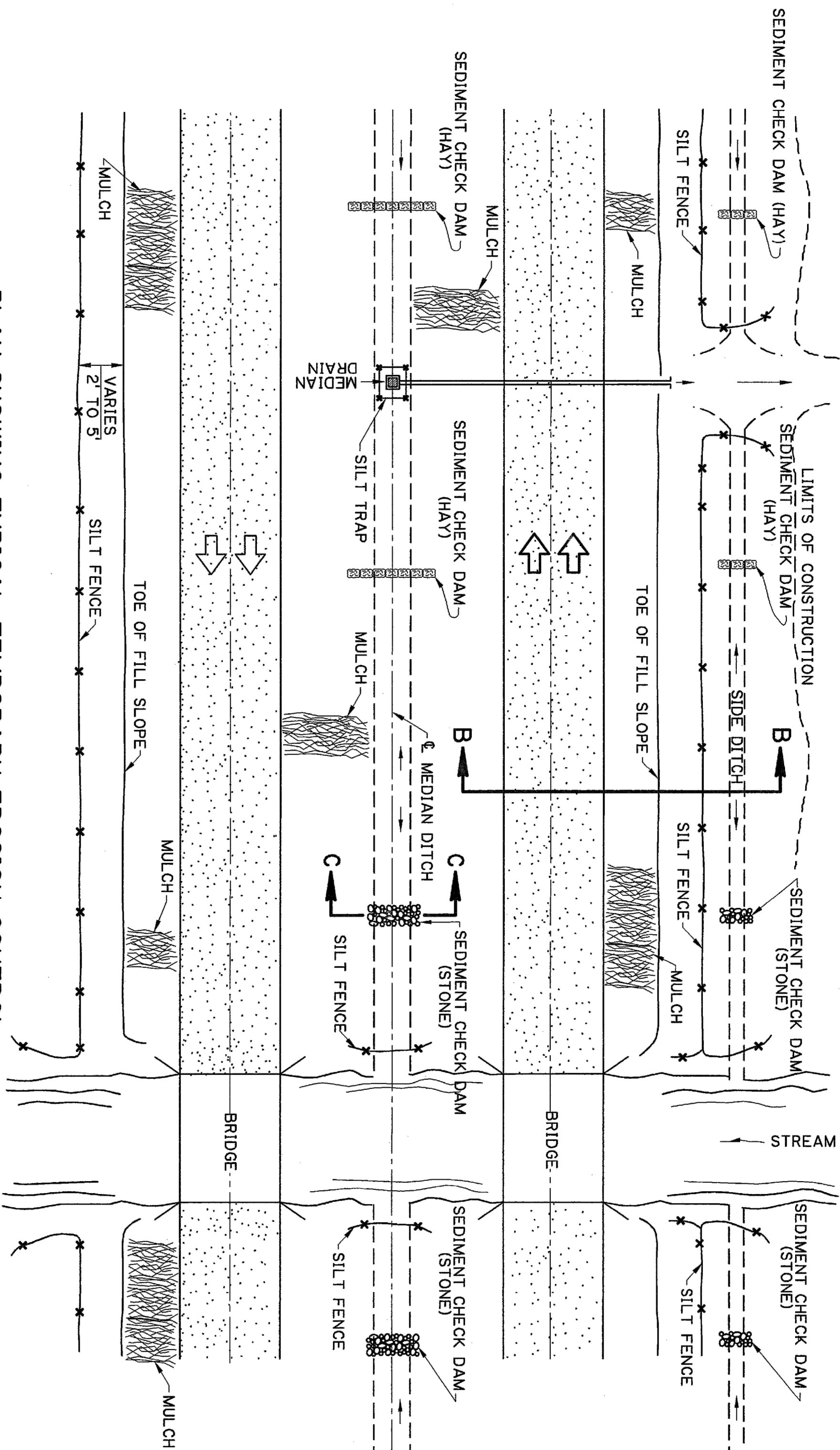
**SKETCHES SHOWING LOCATION OF YEAR PLATE ON VARIOUS CONCRETE STRUCTURES**

These standard plans have been properly examined by me, the undersigned professional engineer. I have determined that these plans comply with all applicable codes and have been properly adapted to use on this project.



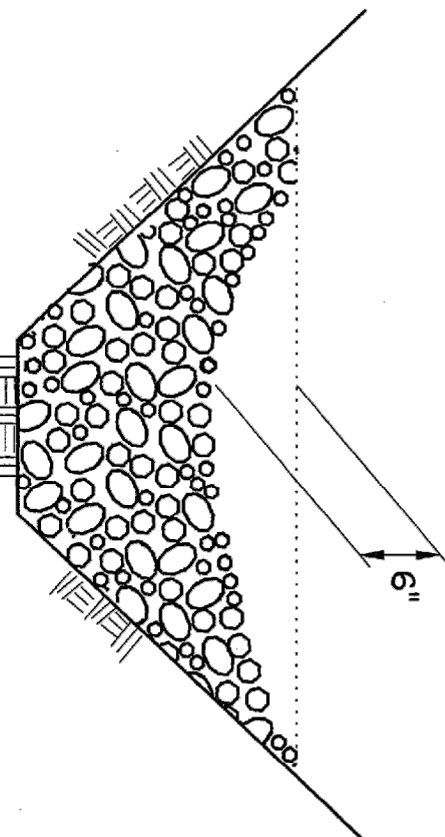
BRIDGE AND STRUCTURAL DESIGN		YEAR PLATE  FOR CONCRETE STRUCTURES						DESIGNED		PARISH	ST. TAMMANY	SHEET NUMBER  210
		STANDARD DETAIL	YP-01					CHECKED		FEDERAL PROJECT		
					CHECKED	G. GRASS P. FOSSIER						
					DATE SHEET	JULY, 2000	STATE PROJECT					
					NO.	DATE	REVISION DESCRIPTION	BY				





MULCHES

- MULCHES ARE THE APPLICATION OF MATS OF MATERIAL PLACED ON THE SOIL SURFACE TO PREVENT EROSION BY PROTECTING THE SOIL SURFACE FROM RAINFALL IMPACT AND TO REDUCE THE VELOCITY OF OVERLAND FLOW. MULCHES CAN BE ORGANIC OR SYNTHETIC. MULCHES SHALL BE IN ACCORDANCE WITH PROJECT SPECIFICATIONS FOR TEMPORARY EROSION CONTROL. A FEW GUIDELINES FOR THE USE OF MULCHES ARE:
1. USE ON CUT AND EMBANKMENT SLOPES WHICH HAVE NOT BEEN COMPLETED TO PLAN GRADE OR WHERE THE WEATHER OR SOIL CONDITIONS WILL NOT PERMIT COMPLETING THEM WITHIN A REASONABLE TIME
  2. USE ON CLEARED, GRUBBED , AND SCALPED AREAS WHERE SOIL EROSION IS LIKELY TO OCCUR
  3. USE WITH TEMPORARY SEEDING



SECTION C-C

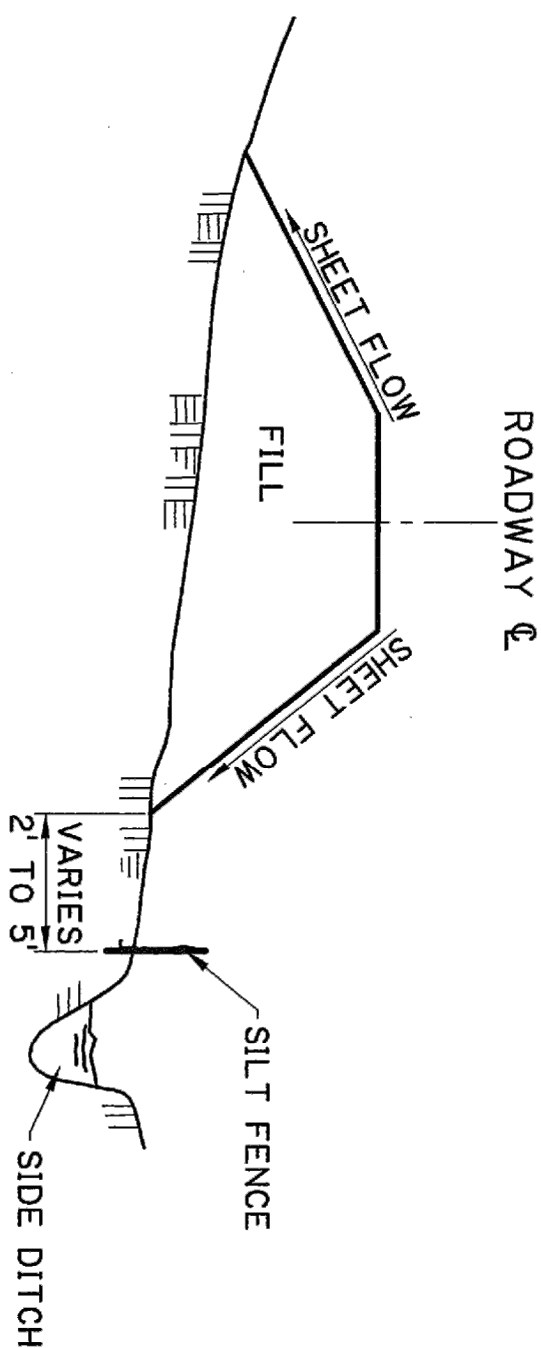
TEMPORARY SEDIMENT CHECK DAM (STONE)

PAY ITEM: TEMPORARY SEDIMENT CHECK DAM (STONE)

NOTES:

A STONE CHECK DAM IS A SMALL TEMPORARY DAM CONSTRUCTED ACROSS A SWALE OR DRAINAGE DITCH. THE PURPOSE OF THIS MEASURE IS TO REDUCE THE VELOCITY OF CONCENTRATED STORM WATER FLOWS, THEREBY REDUCING EROSION OF THE SWALE OR DITCH. THE STONE CHECK DAM WILL TRAP SMALL AMOUNTS OF SEDIMENT GENERATED IN THE DITCH ITSELF. HOWEVER, IT SHOULD NOT BE USED AS A SEDIMENT TRAPPING DEVICE. A FEW BASIC DESIGN GUIDELINES FOR THE USE OF STONE CHECK DAMS ARE:

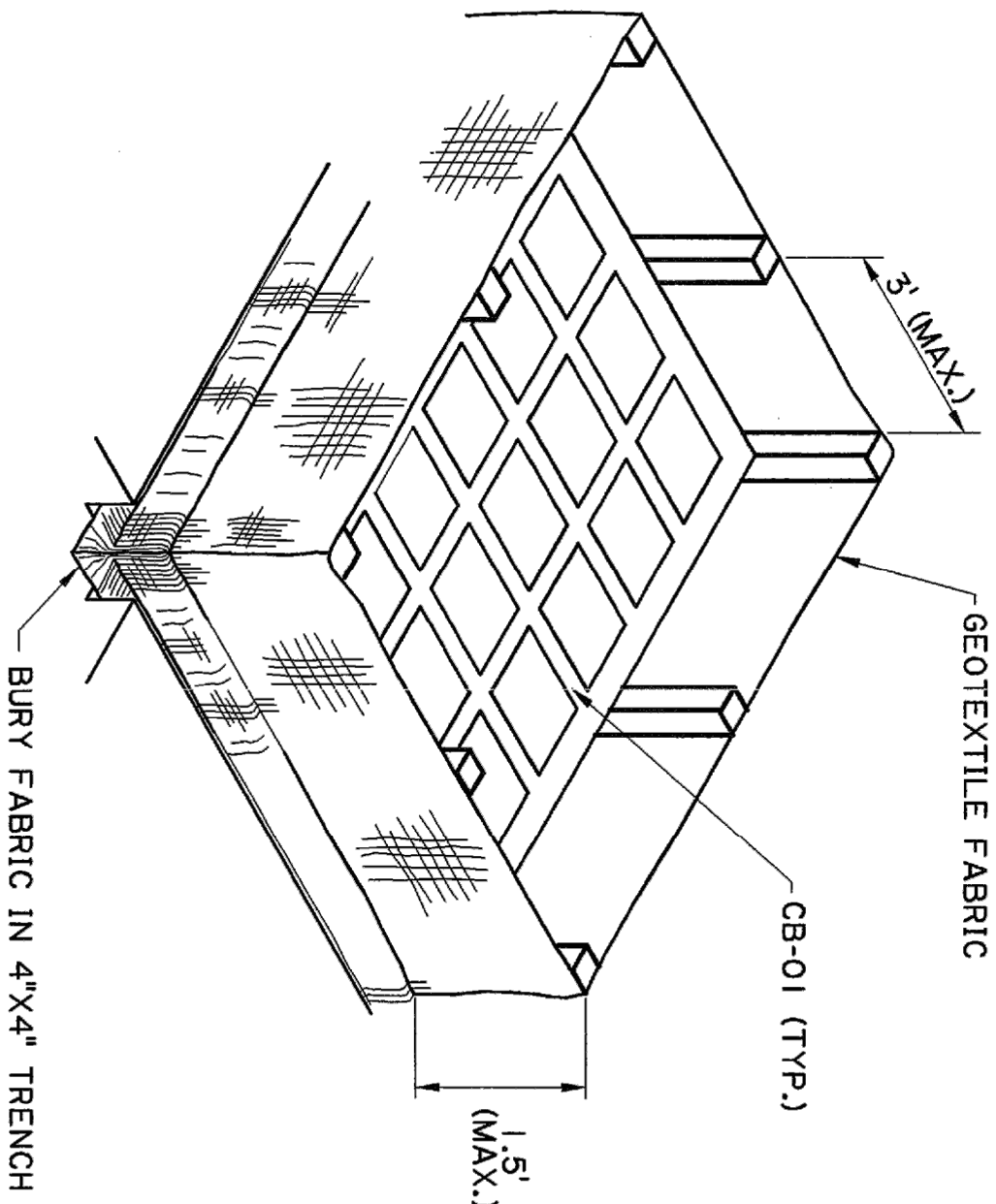
1. USE IN SMALL OPEN CHANNELS WHICH DRAIN 10 ACRES OR LESS
2. DO NOT USE IN A LIVE STREAM
3. USE IN A TEMPORARY DITCH OR SWALE WHICH, BECAUSE OF THEIR SHORT LENGTH OF SERVICE, CANNOT RECEIVE A NON- ERODIBLE LINING
4. USE IN PERMANENT DITCHES OR SWALES WHICH WILL NOT RECEIVE A PERMANENT LINING FOR AN EXTENDED PERIOD OF TIME
5. USE IN TEMPORARY OR PERMANENT DITCHES OR SWALES WHICH NEED PROTECTION DURING THE ESTABLISHMENT OF GRASS LININGS
6. FOR STONE SPECIFICATIONS, SEE PROJECT SPECIFICATIONS



SECTION B-B

TEMPORARY SILT FENCE APPLICATION

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



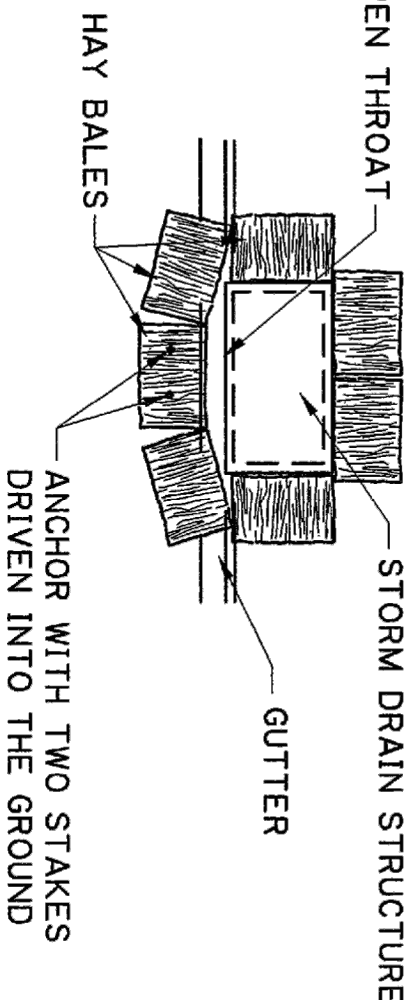
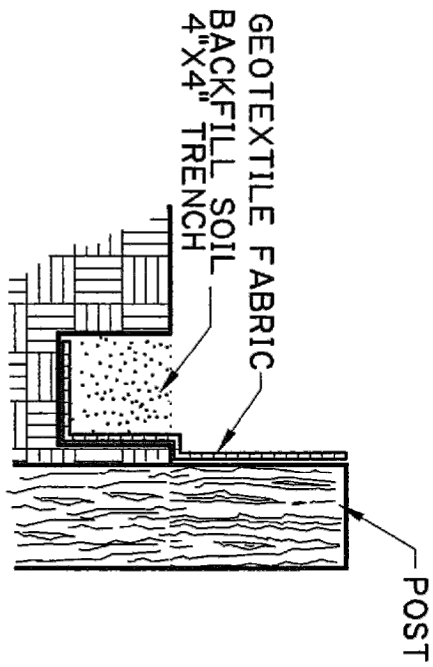
ISOMETRIC VIEW SHOWING GEOTEXTILE FABRIC

(BACKFILL SOIL NOT SHOWN)

TEMPORARY INLET SILT TRAP

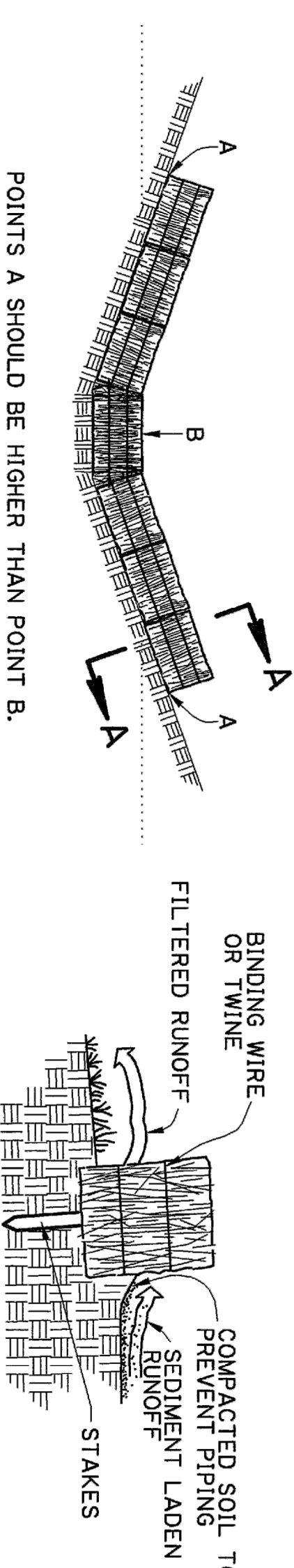
- THE TEMPORARY DROP INLET SILT TRAP IS TO BE USED FOR SMALL DRAINAGE AREAS (LESS THAN 1 ACRE) WHERE THE STORM DRAIN IS FUNCTIONAL BEFORE THE AREA IS STABILIZED. THE TRAP CAN BE EITHER GEOTEXTILE FABRIC OR HAY BALES.
1. THE GEOTEXTILE FABRIC SHALL CONFORM TO PROJECT SPECIFICATIONS FOR GEOTEXTILE FABRIC (CLASS G).
  2. WOODEN STAKES SUPPORTING THE FABRIC SHALL BE 2" X 2" OR 2" X 4" WITH A MINIMUM LENGTH OF 3 FEET. THE STAKES SHALL BE SPACED AROUND THE INLET AT A MAXIMUM SPACING OF 3 FEET.
  3. THE HEIGHT OF THE FABRIC ABOVE THE INLET SHALL BE LIMITED TO 1.5' AND THE BOTTOM OF THE FABRIC SHALL BE BURIED IN A TRENCH APPROXIMATELY 4" WIDE, BY 4" DEEP. THE FABRIC SHALL BE STAPLED TO THE POST WITH 1/2" STAPLES.
  4. THE TRAP SHOULD BE INSPECTED REGULARLY AND AFTER EACH STORM. THE SEDIMENT SHOULD BE REMOVED AND EACH STAKE SHOULD BE FIRMLY IN THE GROUND.
  5. HAY BALES SHALL BE PLACED SO THAT THE BINDING WIRE OR TWINE IS NOT IN CONTACT WITH THE GROUND.

SECTION THRU TRENCH SHOWING GEOTEXTILE FABRIC



PLAN SHOWING HAY BALES

PAY ITEM: TEMPORARY HAY OR STRAW BALES



ELEVATION

SECTION A-A

TEMPORARY SEDIMENT CHECK DAM (HAY)

PAY ITEM: TEMPORARY SEDIMENT CHECK DAM (HAY)

NOTES:

- A HAY BALE BARRIER IS A TEMPORARY SEDIMENT BARRIER CONSISTING OF A ROW OF ENTRENCHED AND ANCHORED BALES OF STRAW OR HAY. THE HAY BALE BARRIER IS ALSO USED AS A CHECK DAM TO REDUCE THE VELOCITY IN SMALL DITCHES OR SWALES. THE HAY BALES SHALL BE IN ACCORDANCE WITH PROJECT SPECIFICATIONS FOR TEMPORARY EROSION CONTROL. A FEW BASIC DESIGN GUIDELINES FOR THE USE OF A HAY BALE BARRIER ARE:
1. USE WHERE EROSION WOULD OCCUR IN THE FORM OF SHEET AND RILL EROSION
  2. USE IN MINOR SWALES OR DITCHES WHERE THE MAXIMUM DRAINAGE AREA IS 2 ACRES
  3. ONLY USE WHERE THE EFFECTIVENESS IS REQUIRED FOR LESS THAN 3 MONTHS
  4. DO NOT USE IN LIVE STREAMS OR IN SWALES OR DITCHES WHERE THERE IS A POSSIBILITY OF A WASHOUT



TEMPORARY EROSION CONTROL DETAILS

STANDARD PLAN EC-01



HYDRAULICS SECTION

10-1-08	REMOVE SPECIFIC PAY ITEM NOS., GENERAL REVISIONS	MH
DATE	REVISION DESCRIPTION	BY
APPROVED BY CHIEF ENGINEER:	W. H. Temple	DATE: 10-1-08

DESIGNED	JCM	PARISH	ST. TAMMANY
CHECKED		FEDERAL PROJECT	
DATE	1-14-94	STATE PROJECT	
SHEET	1 OF 2		





NOTES:

TEMPORARY STONE CONSTRUCTION ENTRANCE AND/OR WASH RACK

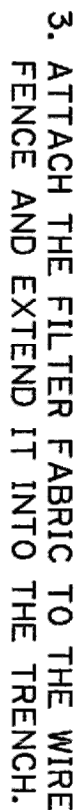
A STONE STABILIZED PAD LOCATED AT POINTS OF VEHICULAR INGRESS AND EGRESS ON THE CONSTRUCTION SITE TO REDUCE THE AMOUNT OF MUD TRANSPORTED ONTO PUBLIC ROADS. IF THE ACTION OF THE VEHICLE TRAVELING OVER THE GRAVEL PAD IS NOT SUFFICIENT TO REMOVE THE MAJORITY OF THE MUD, THEN THE TIRES MUST BE WASHED BEFORE THE VEHICLE ENTERS A PUBLIC ROAD. A FEW BASIC DESIGN GUIDELINES FOR THE USE OF A STONE ENTRANCE AND/OR WASH RACKS ARE:

1. THE STONE LAYER MUST BE AT LEAST 6 INCHES THICK.
2. THE STONE SHALL CONFORM TO PROJECT SPECIFICATIONS FOR RIPRAP (CLASS 2 LB).
3. THE LENGTH OF THE PAD MUST BE A LEAST 75 FEET AND IT MUST EXTEND THE FULL WIDTH OF THE VEHICULAR INGRESS AND EGRESS.
4. A GEOTEXTILE FABRIC UNDERLINER IS REQUIRED. THE GEOTEXTILE FABRIC SHALL BE IN ACCORDANCE WITH PROJECT SPECIFICATIONS FOR GEOTEXTILE FABRIC (CLASS D).
5. IF A WASH RACK IS NECESSARY, PROVISIONS MUST BE MADE TO INTERCEPT THE WASH WATER AND TRAP THE SEDIMENT BEFORE IT IS CARRIED OFF-SITE.



A TEMPORARY SLOPE DRAIN IS A DEVICE USED TO CARRY WATER FROM THE CONSTRUCTION WORK AREA TO A LOWER ELEVATION. SLOPE DRAINS MAY BE PLASTIC SHEET, METAL OR PLASTIC PIPE, STONE GUTTERS, FIBER MATS, OR CONCRETE OR ASPHALT DITCHES. A FEW BASIC DESIGN GUIDELINES FOR THE USE OF A TEMPORARY SLOPE DRAIN ARE:

1. THE SPACING OF THE SLOPE DRAINS VARIES WITH THE ROAD GRADE.  
FOR GRADES: 0.0% - 2.0% USE 500' SPACING  
2.1% - 5.0% USE 200' SPACING  
GREATER THAN 5.0% USE 100' SPACING
2. SLOPE DRAIN MATERIAL: SMOOTH PIPE - 8" MINIMUM - 3 MILS THICK MIN.  
CORRUGATED PIPE - 12" MINIMUM  
PLASTIC SHEETING - 4' WIDE MINIMUM  
PLASTIC SHEETING - 3 MILS THICK MIN.
3. PLASTIC SHEETING CAN BE STAKED DOWN OR WEIGHTED WITH ROCKS OR LOGS. THE AREA UNDER THE SHEETING SHOULD BE SHAPED TO PROVIDE AN ADEQUATE CHANNEL.
4. THE OUTLET END SHOULD BE PROTECTED OR HAVE SOME MEANS OF DISSIPATING ENERGY. THE FLOW SHOULD BE DIRECTED THROUGH A SEDIMENT TRAP SUCH AS A SILT FENCE, HAY BALES, OR OTHER APPROVED SEDIMENT CONTROL DEVICES
5. TO INSURE PROPER OPERATION, TEMPORARY SLOPE DRAINS SHOULD BE INSPECTED REGULARLY AND AFTER EACH STORM, FOR CLOGGING OR DISPLACEMENT. EROSION AT THE OUTLET SHOULD BE CHECKED AND THE SILT TRAPS CLEANED IF NECESSARY.



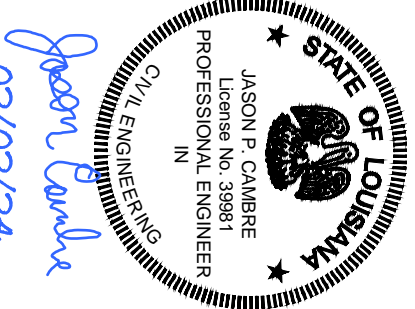
# CONSTRUCTION OF TEMPORARY SILT FENCING

(WIRE SUPPORTED SILT FENCE IS SHOWN. SELF SUPPORTED SILT FENCE WILL BE CONSTRUCTED ACCORDING TO MANUFACTURERS SPECIFICATIONS.)

NOTES:

SILT FENCING IS A TEMPORARY SEDIMENT BARRIER CONSISTING OF A FILTER FABRIC SUPPORTED BY POSTS AND STRETCHED ACROSS AN AREA TO INTERCEPT AND DETAIN SMALL AMOUNTS OF SEDIMENT. THE SILT FENCING SHALL BE IN ACCORDANCE WITH PROJECT SPECIFICATIONS FOR TEMPORARY EROSION CONTROL. THE FOLLOWING ARE THE FEW BASIC GUIDELINES FOR THE USE OF SILT FENCING ARE:

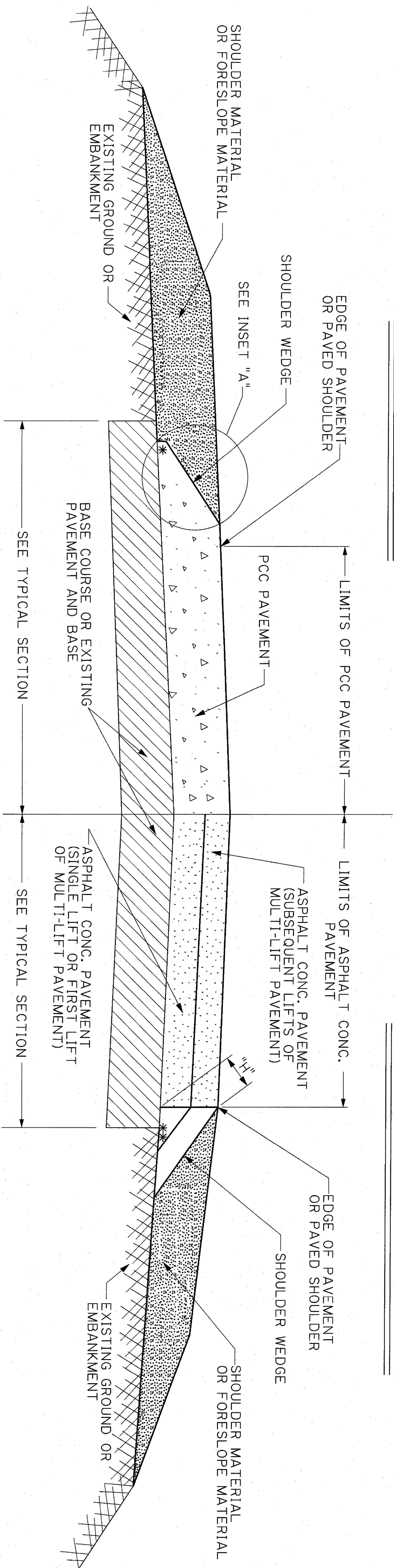
1. USE WHERE EROSION WOULD OCCUR IN THE FORM OF SHEET AND RILL EROSION
2. USE WHERE THE MAXIMUM DRAINAGE AREA BEHIND THE SILT FENCE IS  $\frac{1}{4}$  ACRE PER 100 FEET OF SILT FENCE LENGTH
3. USE WHERE THE MAXIMUM SLOPE LENGTH BEHIND THE BARRIER IS 100 FEET
4. USE WHERE THE MAXIMUM GRADIENT BEHIND THE BARRIER IS 2:1
5. DO NOT USE SILT FENCES IN LIVE STREAMS OR IN DITCHES OR SWALES WHERE FLOWS EXCEED ONE CUBIC FOOT PER SECOND





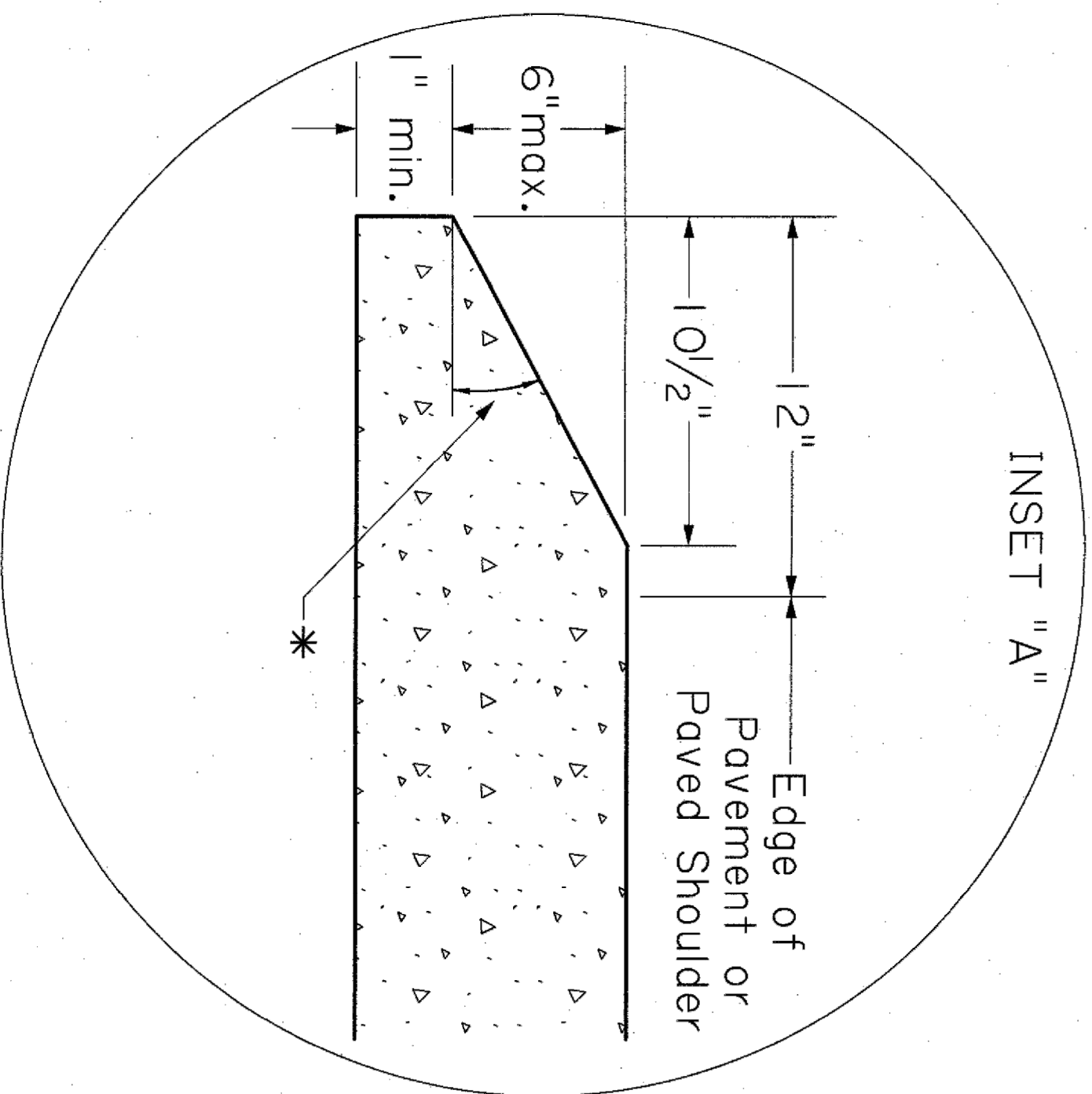
(HALF-SECTION)

(HALF-SECTION)



## NOTES

- 1) SHOULDER WEDGES SHALL BE REQUIRED AT THE OUTSIDE EDGES OF THE PAVED ROADWAY (EDGE OF TRAVEL LANE OR EDGE OF PAVED SHOULDER).
- 2) FOR ASPHALT CONCRETE PAVEMENTS: SHOULDER WEDGES SHALL BE UTILIZED ON SINGLE LIFTS IF THE LAYER THICKNESS IS GREATER THAN OR EQUAL TO 2" AND, AT A MINIMUM, ON EACH OF THE 2 TOP LIFTS OF MULTI-LIFT PAVEMENT.
- 3) EQUIP THE PAVER WITH A MECHANICAL DEVICE THAT WILL PRODUCE A WEDGE WITH A UNIFORM TEXTURE, SHAPE, AND DENSITY, WHILE AUTOMATICALLY ADJUSTING TO VARYING HEIGHTS ENCOUNTERED ALONG THE SHOULDER EDGE.
- 4) THE CONTRACTOR SHALL BLADE AND SHAPE EXISTING GROUND OR SHOULDER MATERIAL TO FORM A UNIFORM SURFACE UNDER THE ASPHALT SHOULDER WEDGE PRIOR TO PLACEMENT OF THE PAVEMENT.
- 5) FOR ASPHALT CONCRETE PAVEMENTS: THE MAXIMUM SHOULDER WEDGE HEIGHT ("H") SHALL EQUAL 6". IF THE TOTAL ASPHALT THICKNESS IS GREATER THAN 6" THE CONTRACTOR SHALL STAGE CONSTRUCTION BY PULLING UP THE SHOULDERS OR FORESLOPE MATERIAL IN THE LOWER LIFTS, THEN UTILIZING THE WEDGE IN EACH OF THE FINAL 2 LIFTS.
- 6) REQUIRED BASE WIDTHS ARE AS SHOWN ON TYPICAL SECTIONS. FOR ASPHALT SHOULDER WEDGE, REQUIRED BASE WIDTH MIGHT NOT INCLUDE WIDTH OF ASPHALT WEDGE. ASPHALT SHOULDER WEDGE MAY BE SUPPORTED BY THE EXISTING GROUND OR SHOULDER MATERIAL. FOR CONCRETE SHOULDER WEDGE, REQUIRED BASE WIDTH IS TO INCLUDE THE WIDTH OF SHOULDER WEDGE AND THE DESIRED ADDITIONAL WIDTH BEYOND THE SURFACING.



\* 30° desired  
\*\* 35° desired

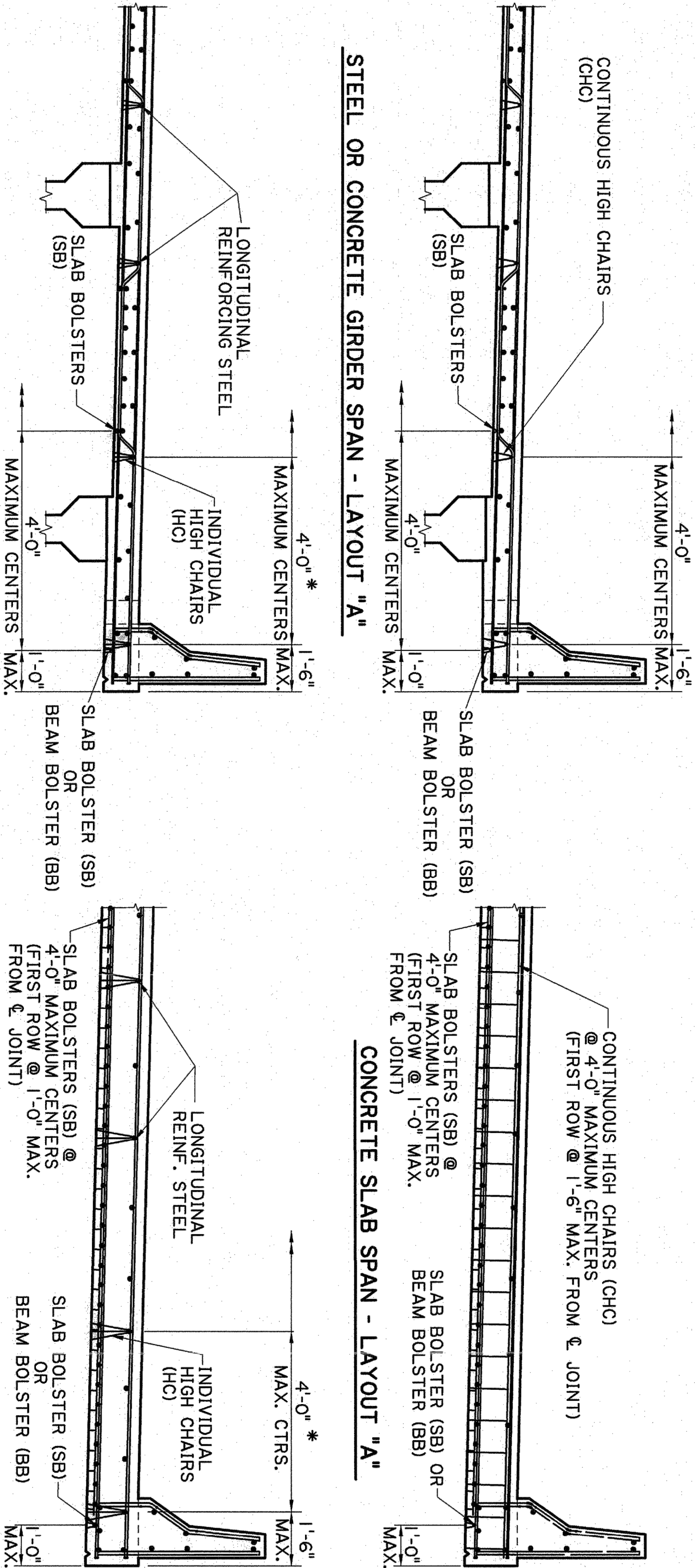
These standard plans have been properly examined by me, the undersigned professional engineer. I have determined that these plans comply with all applicable codes and have been properly adapted to use on this project.



## SHOULDER WEDGE DETAIL

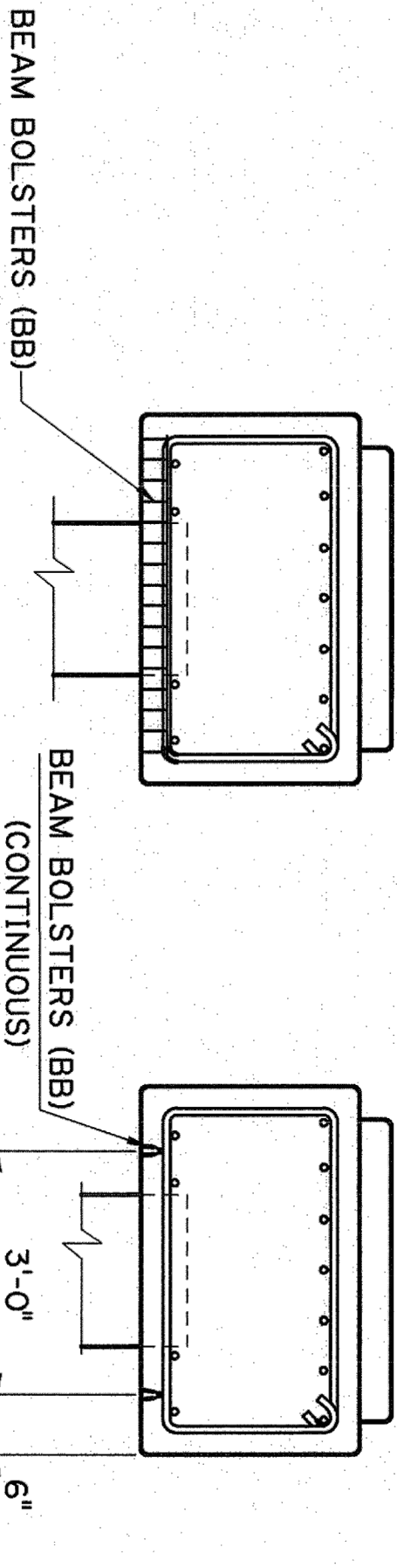






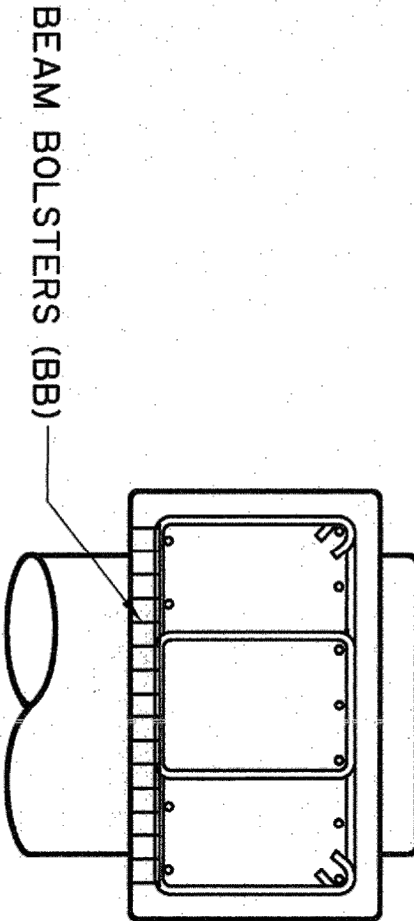
STEEL OR CONCRETE GIRDER SPAN - LAYOUT "B" (ALTERNATE)

CONCRETE SLAB SPAN - LAYOUT "B" (ALTERNATE)

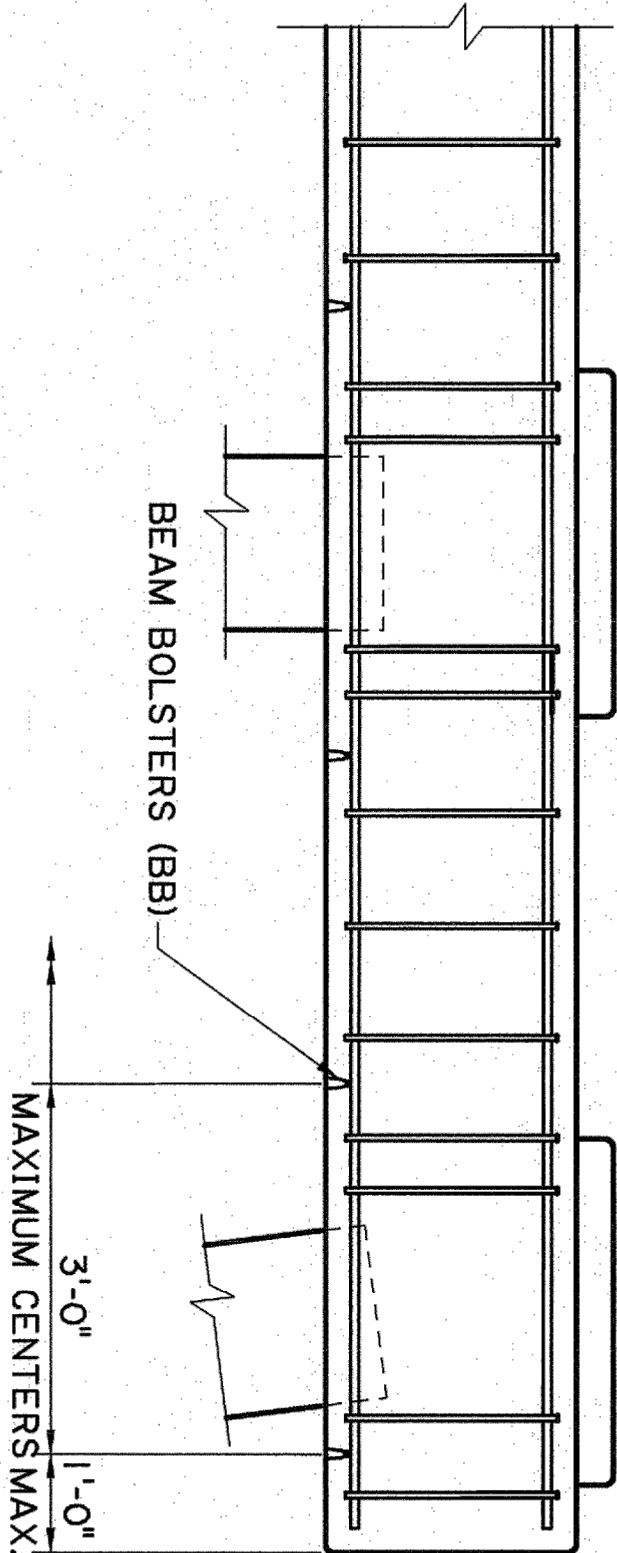


PILE BENT - LAYOUT "A"

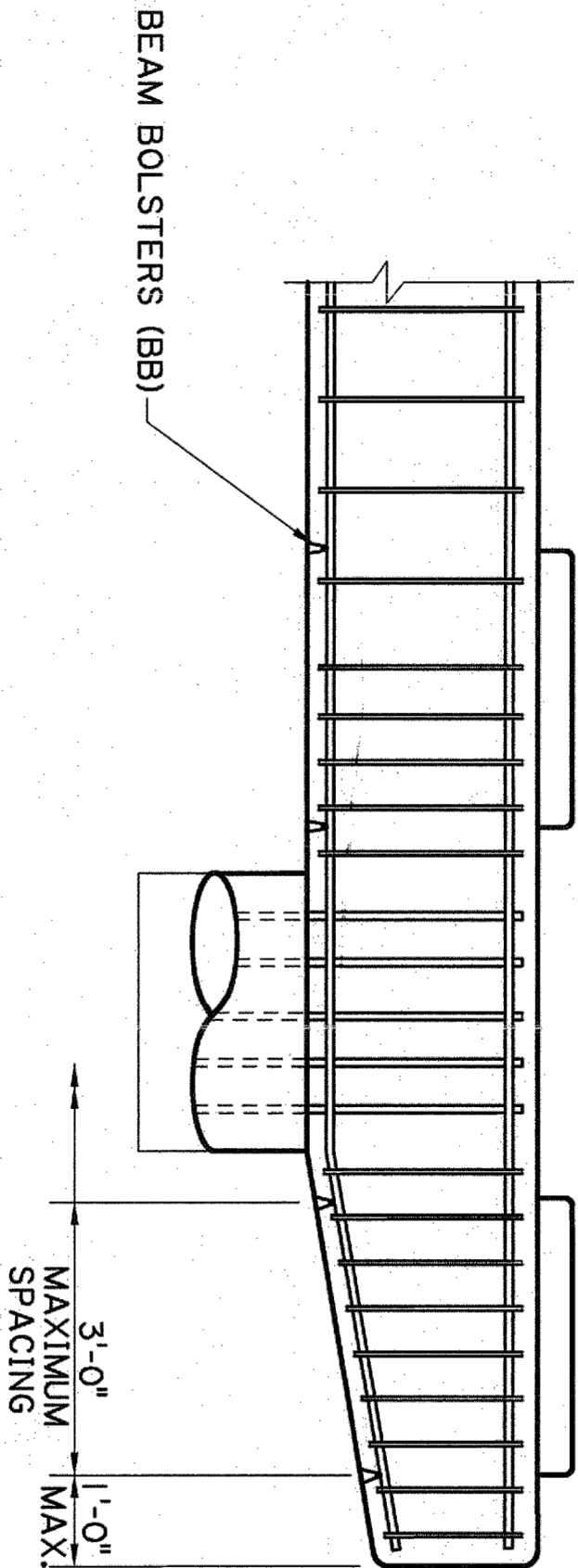
PILE BENT - LAYOUT "B" (ALTERNATE)



COLUMN BENT



PILE BENT - LAYOUT "A"



COLUMN BENT

GENERAL NOTES:

STEEL WIRE BAR SUPPORTS AND REINFORCING STEEL BARS SHALL BE IN ACCORDANCE WITH THE LATEST APPROVED LOUISIANA STANDARD SPECIFICATIONS FOR ROADS AND BRIDGES, AS AMENDED BY THE SPECIAL PROVISIONS AND/OR SUPPLEMENTAL SPECIFICATIONS.

HEIGHT OF BAR SUPPORTS ARE TO BE THAT REQUIRED TO SUPPORT THE REINFORCING BARS AT POSITIONS SHOWN IN THE PLANS. BAR SUPPORTS ARE NOT INTENDED, AND SHALL NOT BE USED, TO SUPPORT RUNWAYS FOR CONCRETE BUGGIES OR SIMILAR LOADS.

WHERE BAR SUPPORTS ARE PLACED IN CONTINUOUS LINES, THEY SHALL BE SO PLACED THAT THE ENDS OF THE SUPPORTING WIRES SHALL BE LAPPED TO LOCK THE LAST LEGS ON ADJOINING PIECES, BUT NO BAR SHALL BE PLACED MORE THAN 2" BEYOND THE LAST LEG AT THE END OF A RUN OF ANY CONTINUOUS SUPPORTS.

WHERE BAR SUPPORTS ARE USED ON EARTH OR AGGREGATE SUB GRADES, SUITABLE PLATES SHALL BE PROVIDED TO PREVENT DISPLACEMENT OF THE SUPPORT FOOT. ALL BAR SUPPORTS BEARING ON THE FORMS SHALL HAVE RADIUS BEARING LEGS IN THE FORM OF A HOOK (UPTURNED LEGS) OR SPHERICAL FOOT AT THE LOWER END OF THE LEGS.

THE BOTTOM OF BAR SUPPORTS SHALL BE COATED WITH AN ACCEPTABLE EPOXY OR PLASTIC MATERIAL FOR A MINIMUM DISTANCE OF 2 INCHES FROM THE POINT OF CONTACT WITH THE FORMS.

METAL TIE WIRES AND BAR SUPPORTS SHALL BE COATED FULLY WITH AN ACCEPTABLE EPOXY, PLASTIC OR NYLON MATERIAL IF USING EPOXY COATED REINFORCING STEEL.

TYPE OF SUPPORT	BAR SUPPORT ILLUSTRATION	MINIMUM WIRE DIAMETER Δ			REMARKS
		HEIGHT	TOP	LEGS	
SLAB BOLSTER (SB)		ALL	NO. 4 CORRUGATED	NO. 6	VERTICAL CORRUGATIONS SPACED 1" ON CENTERS
BEAM BOLSTER (BB)		UP TO 2" OVER 2"	NO. 7	NO. 7	
CONTINUOUS HIGH CHAIR (CHC)		2" TO 5" 5" TO 9" OVER 9"	NO. 2 NO. 2 NO. 2	NO. 4 NO. 2 NO. 0	LAYOUT "A" FOR SPANS
		2" TO 5" 5" TO 9" OVER 9"	N/A N/A N/A	NO. 4 NO. 2 NO. 0	LAYOUT "B" FOR SPANS (ALTERNATE)
INDIVIDUAL HIGH CHAIR (HC)					

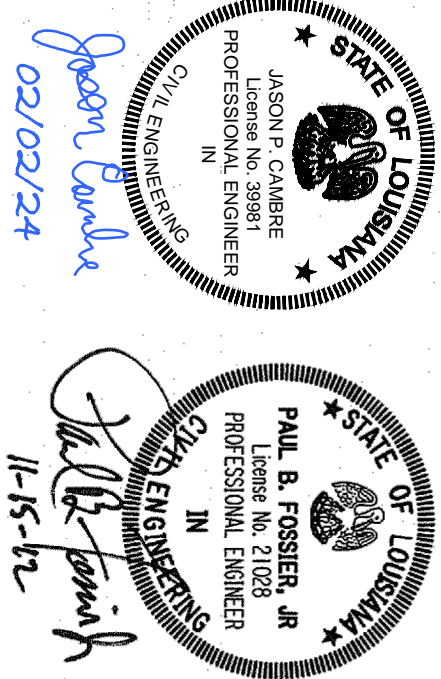
Δ AMERICAN STEEL AND WIRE GAUGES.

● LEGS SHALL BE 20 DEGREES OR LESS WITH VERTICAL WHEN HEIGHT EXCEEDS 1'-0", REINFORCE LEGS WITH WELDED CROSS WIRES OR ENCIRCLING WIRES.

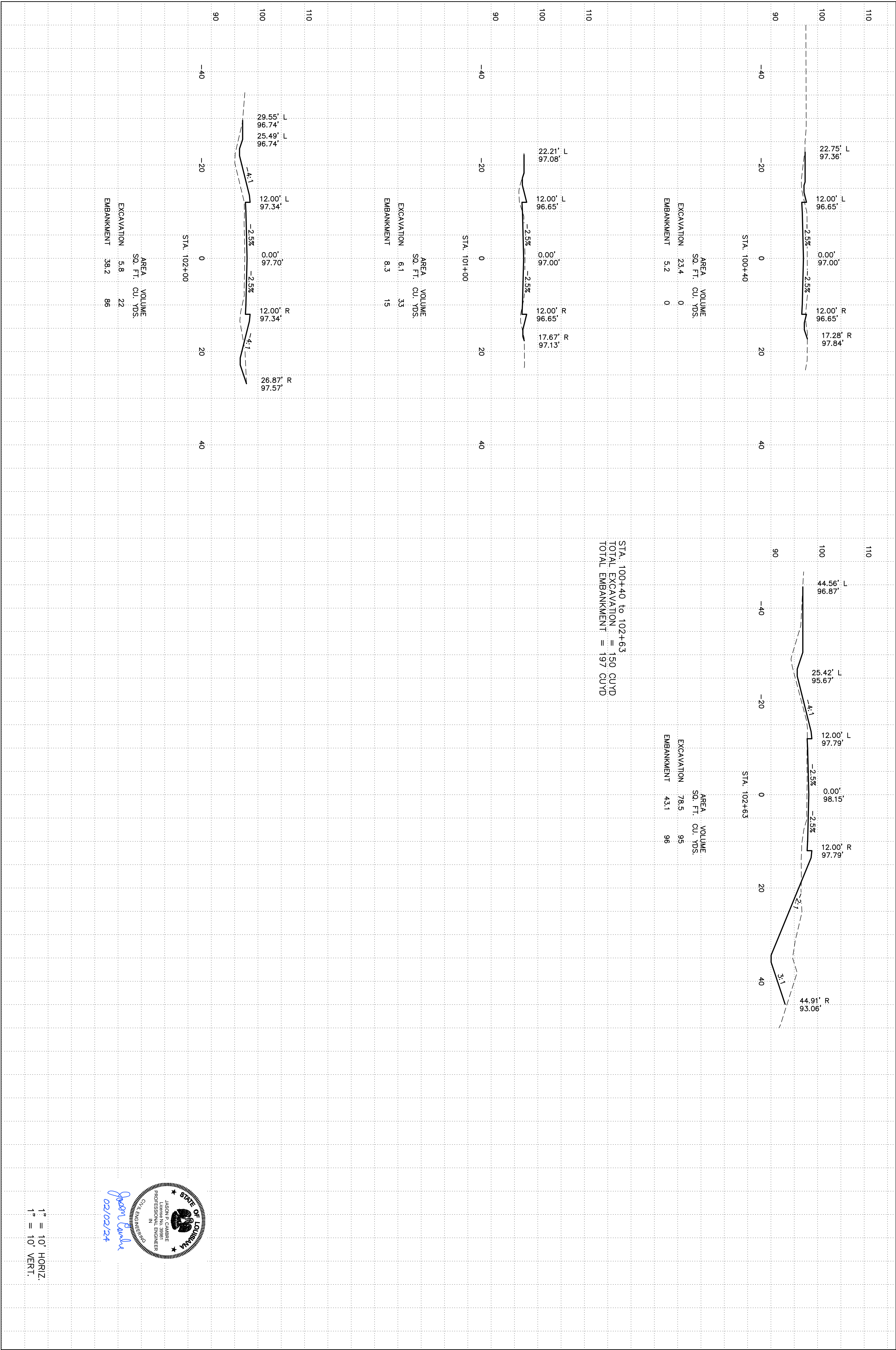
▣ LEGS SHALL BE 20 DEGREES OR LESS WITH VERTICAL, ON 8 1/4" CENTER MAXIMUM, WITHIN 4" OF END CHAIR, AND SPREAD BETWEEN LEGS NOT LESS THAN 50% OF NORMAL HEIGHT.

\* IF LONGITUDINAL REINFORCING BARS ARE NO. 4, SPACE THE INDIVIDUAL HIGH CHAIRS (HC) @ 3'-0" MAXIMUM CENTERS LONGITUDINALLY; FOR NO. 5 BARS OR LARGER, SPACE @ 4'-0" MAXIMUM CENTERS.

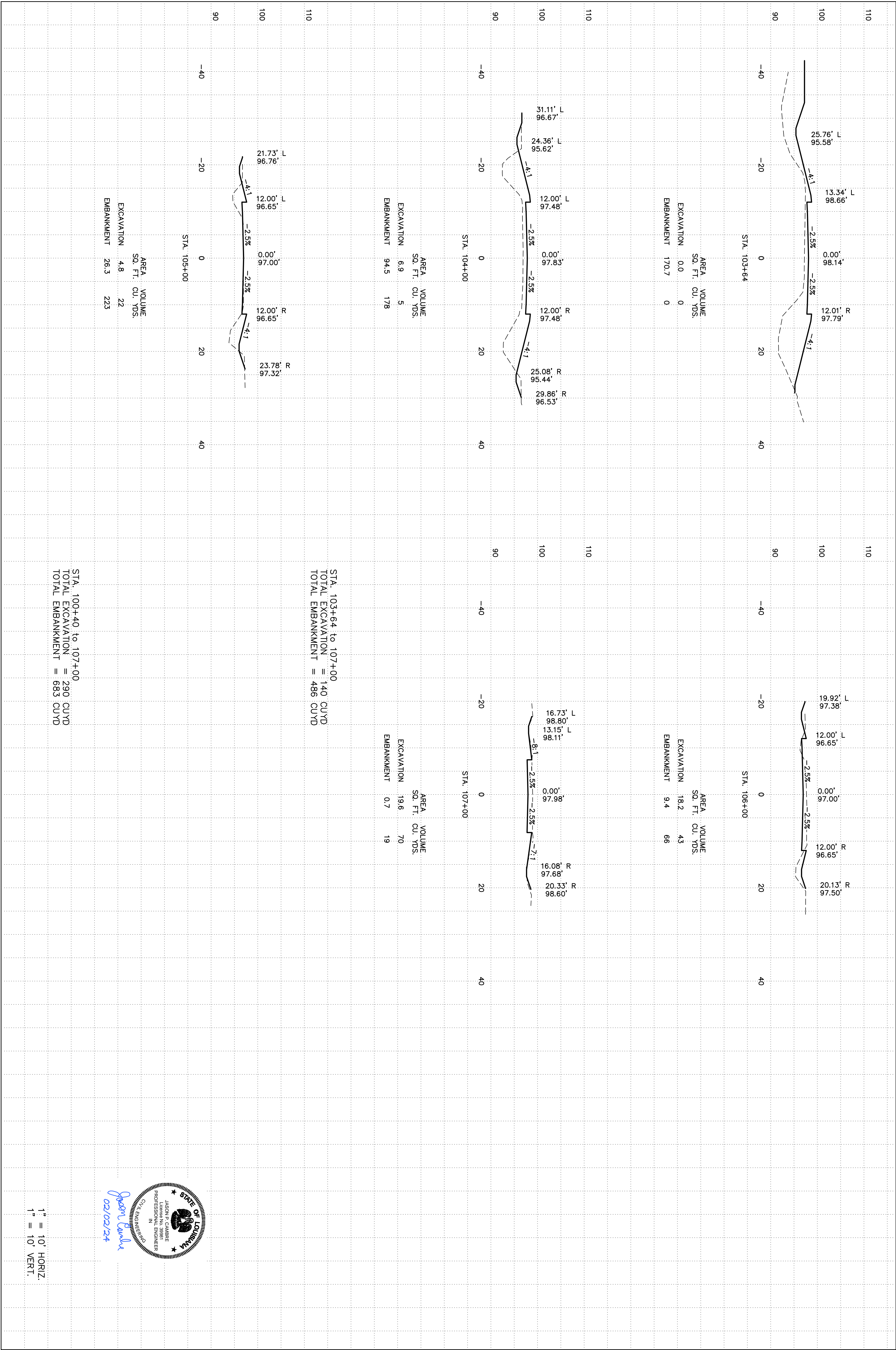
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1" = 10' HORIZ.  
1" = 10' VERT.



1" = 10' HORIZ.  
1" = 10' VERT.

Project No.	EN23000047
Date	2/2/2024
Scale	1" = 10'
Drawn By	JPC

302



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Rev. No	Date	Description

ST. JOHN CHURCH RD BRIDGE  
CROSS SECTIONS

## SPECIAL PROVISIONS

### PROJECT SAMPLING AND TESTING PLAN

The following Project Sampling and Testing Plan outlines the Special Provisions made for this project in regard to the requirements for testing and sampling requirements by pay item including required samples, tests, frequencies, certifications, submittals and other requirements. This document is to be considered a live document, which is subject to change during the course of the project as deemed necessary by the Project Engineer due to actual construction methods and field quantities.

The Contractor shall use the requirements outline in this plan in conjunction with his proposed method(s) of construction and installation of items as a guide to determine the magnitude of all QC sampling and testing required for the project and the anticipated amount of acceptance testing by the Owner. Actual acceptance testing by the Owner may be subject to change by the Project Engineer without notice. No additional compensation will be given for changes in the number of tests, samples, etc. required due to the contractor's methods, re-work, or failed tests. There will be no measurement for payment for testing, sampling, etc. required for the project and such cost shall be included in the various pay items in the contract unit amounts. Quality Assurance and/or acceptance testing will be performed by an Owner-provided third-party testing agency. The Contractor's Verification and Quality Control testing and sampling agency shall be approved by the Engineer in writing prior to beginning work on the project and shall not change during the course of the project. Quality Control testing personnel shall possess all appropriate LADOTD/ACI/PCI, etc. certifications for sampling and testing.

#### Purpose Abbreviations:

The following denote the purpose of the test/sampling required

Acc Acceptance (Quality Assurance)

Ver Verification

Des Design

QC Quality Control

#### Responsibility for test/sampling/measurements:

The CONTRACTOR is responsible for any and all:

Verification Testing/Sampling

Design Testing/Sampling

QC Testing/Sampling

The ENGINEER and/or OWNER is responsible for:

Acceptance Testing/Sampling (QA)

Measurements and visual inspection of items for Acceptance

Review and approval of Design purpose submittals/samples/tests

The word "Lab" refers to the Contractor's third-party testing agency lab

The abbreviation "PE" refers to the Project Engineer or his representative.

Certification Abbreviations:

CC	Certificate of Compliance
CD	Certificate of Delivery
CA	Certificate of Analysis

The contractor is responsible for submitting all reports, certifications and other applicable data to the group designated at the pre-construction conference within 72 hours of the time of the test.

**Failure to have proper QC personnel onsite during construction activities which require testing and/or sampling may result in the Engineer or his designated representative suspending work operations until sufficient QC personnel arrive onsite. Quantities installed without proper QC personnel onsite or without required testing shall result in a 20% reduction in payment, or removal and replacement at no additional payment, at the sole discretion of the Engineer.**

All certifications and other material paperwork such as load tickets shall be delivered to the project engineer or Owner's representative in the field. All QC sampling and testing reports shall be signed by the Louisiana Professional Engineer in responsible charge of the testing/sampling and shall be distributed to the project team (as determined at the Pre-Construction Conference) within 72 hours of the sampling/test.

Should the Contractor fail to fulfill the requirements of the Sampling and Testing Plan for any respective item, such shall automatically result in the exclusion of those such quantities and pay items from payment applications until proper test and/or sampling reports are received and considered acceptable to the Engineer.

MATERIAL	PURP.	SAMPLED BY		TESTED BY	MIN. FREQ.	MIN. QTY		CERT	REMARKS
		METHOD				CONTAINER			
SECTION 201 - CLEARING & GRUBBING									
BACKFILL	Usable Soil	Accept.	SEE SECTION 203 OF THIS MANUAL	QA Lab					QA lab to test any proposed materials to ensure compliance, handling time up to 14 days
SECTION 203 - EXCAVATION & EMBANKMENT									
SOIL/BORROW	Atterburgs/Proctor	Design	QA Lab: S401	QA Lab	*				Contractor to supply up to three (3) 10# samples per source; typical handling time is 14 days; all proposed imported material to be sampled/tested
	Density	QC	Contractor: S401	Contractor	*				*Shall check sufficient to ensure specifications are met
		Accept.	QA Lab; S401	QA Lab	*				Typically handling time = 1/2 hr. * Test 1/300 L.F. (one on each side of bridge)/Side of Roadway/ Lift
	Embankment Lift (Uncompacted Lift Thickness)	QC	Contractor		*				*Shall check sufficient to ensure specifications are met
		Accept.	PE; S401	PE	*				PE to check lift thickness during placement & thickness of top layer during preparation. * Test 1/300 L.F. (one on each side of bridge)/ Side of Roadway / Lift
	Moisture Content (at Time of Compaction)	QC	Contractor	Contractor	*				*Shall check sufficient to ensure specifications are met
		Accept.	QA Lab; S401	QA Lab	*				Test taken during or just prior to compaction operation. * Test 1/300 L.F. (one on each side of bridge)/ Side of Roadway / Lift
GEOTEXTILE FABRIC		Accept.	PE	PE				CC	Material shall be on AML for fabric. Visually inspect seams & UV damage. Seams other than 401 or "J" shall be approved by QA Lab. Avoid sampling at end of roll.
SECTION 204 - TEMPORARY EROSION CONTROL									
HAY BALES		Accept.	PE	PE					Visual Inspection by PE
SILT FENCE (WIRE SUPPORTED)	Livestock Wire	Accept.	PE; S601	QA Lab					Visual Inspection by PE/Sample only if questionable/Allow 10 days for handling, if necessary
	Geotextile Fabric	Accept.	PE; S601	QA Lab					Material shall be on AML for fabric. Visual Inspection by PE/Sample only if questionable (min. 18 SF)/Allow 10 days for handling, if necessary
	Burlap	Accept.	PE; S601	QA Lab					Visual Inspection by PE/Sample only if questionable (min. 18 SF)/Allow 10 days for handling, if necessary
	Jute Fabric	Accept.	PE; S601	QA Lab					Visual Inspection by PE/Sample only if questionable (min. 18 SF)/Allow 10 days for handling, if necessary
SILT FENCE (SELF SUPPORTED)	Geotextile Fabric	Accept.	PE; S601	QA Lab					Material shall be on AML for fabric/Visual Inspection by PE/Sample only if questionable (min. 18 SF)/Allow 10 days for handling, if necessary
Posts	Wood or Steel			PE	*				*Visual Inspection by PE

MATERIAL	PURP.	SAMPLED BY		TESTED BY	MIN. FREQ.	MIN. QTY		CERT	REMARKS
		METHOD				CONTAINER			
SECTION 302 - CLASS II BASE COURSE									
AGGREGATE BASES	Stone	QC	Contractor; S101	Contractor	*				*Must be controlled so that materials placed in stockpile will conform to specifications when tested
		Design*	QA Lab : S101	QA Lab	1/source	6 full sample sacks			Stone source shall be on AML; allow 4 days for processing *For moisture-density relationships (Proctor)
		Accept.	QA Lab; S101	QA Lab	1/1,000 Cu. Yd.	1 full sample sack			Gradations for Stone (AML); allow 4 days for processing
	Moisture Content (at Time of Compaction)	QC	Contractor	Contractor					Shall check sufficient to ensure specifications are met
		Accept.	QA Lab; S401	QA Lab	*				Typically handling time = 1 hr.; Check lift thickness during construction, and moisture just prior to compaction * Test 1/200 L.F./ 2-Lane Rdwy. / Lift *Shall check sufficient to ensure specifications are met
	Density	QC	Contractor; S401	Contractor	*				Typically handling time = 1/2 hr. * Test 1/200 L.F./ 2-Lane Rdwy. / Lift
		Accept.	QA Lab; S401	QA Lab					Shall check sufficient to ensure specifications are met
	Cross Slope & Grade	QC	Contractor	Contractor					Shall check sufficient to ensure specifications are met
		Accept.	PE; S401	PE	1/ half day				Typically handling time = 1/4 hr.; Use an approved 10 ft. metal static straightedge or other approved device Shall check sufficient to ensure specifications are met
	Thickness & Width	QC	Contractor	Contractor					Typically handling time = 1/4 hr.; PE to notify QA Lab when section is completed
Verif.		PE	PE	1/half day				Typically handling time = 3 days.; See DOTD TR 602. For small quantity, PE documents in field book. * Test 1/300 L.F. (one on each side of bridge) 2-Lane Rdwy. / Lift	
Asphalt Prime Coat	Cutback	Accept.	PE	PE	1/shipment*	1 qt. screw top can		CD	Material shall be on AML *Visual inspection by PE. Sample only if questionable.
	Emulsified Asphalt	Accept.	PE	PE	1/shipment*	1 qt. screw top can		CD	Material shall be on AML *Visual inspection by PE. Sample only if questionable.
	Rate of Application	Accept.	PE	PE	1/day				
Geotextile Fabric									See Section 203 of this Manual



MATERIAL	PURP.	SAMPLED BY		TESTED BY	MIN. FREQ.	MIN. QTY		CERT	REMARKS
		METHOD				CONTAINER			
SECTION 401 - AGGREGATE SURFACE COURSE									
AGGREGATES	Accept.	QA Lab: S101	QA Lab	I/stockpile	1 full sample sack			Stone shall be listed on AML, allow 7 days for processing, sample if questionable	
AGGREGATES ON ROADWAY	Thickness, Width, Finish	Accept.	PE	PE	As needed			Test width of placement at all areas. Finished grade not more than 1/2" below roadway, tested every 250 LF of roadway or in select areas per PE	
	Density	Accept.	QA Lab	QA Lab	As needed			Visual Inspection, Test with nuclear if questionable. 90% Standard Proctor. Design (proctor) handling time is 14 days	
SECTION 402 - TRAFFIC MAINTENANCE AGGREGATE									
AGGREGATES	Accept.	PE: S101	QA Lab	I/stockpile	1 full sample sack			Stone shall be listed on AML, Visual inspection by PE, sample if questionable, allow 7 days for processing	
ASPHALT CONCRETE & RAP	See Section 502 - RAP subject to visual inspection and density as per PE satisfaction								

MATERIAL	PURP.	SAMPLED BY	TESTED BY	MIN. FREQ.	MIN. QTY	CERT	REMARKS	
		METHOD			CONTAINER			
SECTION 502 - ASPHALTIC CONCRETE MIXTURES								
ADDITIVES	Anti-Stripping	Accept.	QA Lab; S605	QA Lab	1/shipment/plant		CD	Materials shall be on AML. Sample when questionable
	Hydrated Lime	Accept.	QA Lab; S605	QA Lab	1/shipment		CD	Materials shall be on AML. Sample when questionable
	Waste Tire Rubber	Accept.	QA Lab; S605	QA Lab	1/shipment		CC	(Producer/Supplier List) Visual Inspection, Sample if questionable
	Latex Additive	Accept.	QA Lab; S605	QA Lab	1/shipment		CC	(Producer/Supplier List) Visual Inspection, Sample if questionable
	Fibers (Mineral or Cellulose)	Accept.	QA Lab; S605	QA Lab	1/shipment		CC	(Producer/Supplier List) Visual Inspection, Sample if questionable
	Warm Mix Additives	Accept.	QA Lab; S605	QA Lab	1/shipment/Plant		CA	Materials shall be on AML. Sample when questionable
AGGREGATES	Combined Aggregates (Moisture Content)*	QC	Contractor; S101	Contractor	1/day/stockpile			*For Plant Control
	All Aggregates (Except RAP)	QC	Contractor; S101	Contractor	1/Project			All aggregates shall be on AML - Will accept recent annual stockpile sample for Bulk Specific Gravity and consensus properties
	Reclaimed Asphaltic Pavement (RAP)	QC	Contractor; S101	Contractor	1/Project			%AC, %crushed and gradation, Bulk Specific Gravity, % moisture, Gmm, Effective Specific Gravity Gse
ASPHALT MIX RELEASE AGENT		Accept.	PE					AML - Visual Inspection for performance by PE, Sample if questionable
ASPHALT CONCRETE (PLANT)	Job Mix Formula (JMF)	Design		Contractor	1/mix type			Contractor shall design and submit to the PE the proposed JMF with supporting design data
	Anti-Strip Additive, %	QC	Contractor; S605	Contractor				%AS from meter @ beginning of operation period and as needed to control process. Includes liquid anti-strip, mineral filler, lime and/or fibers. QA to verify
	Asphalt Cement, %	QC	Contractor; S605	Contractor				%AC from meter @ beginning of operation period and as needed to control process. QA to verify during visit
	Gyratory Specimens (Volumetric)	QC	Contractor; S203	Contractor	**			%Gmm @Nin & Ndes, Voids, VMA, VFA, and %Gmm @ Nmax
	Loose Mixture	QC	Contractor; S203 & S605	Contractor	1/day**			**Min 1 sample/day if production is over 150 tons, may be tested jointly with QA
ASPHALTIC CONCRETE (IN-PLACE)	Loose Mixture (Temperature)	QC	Contractor; S605	Contractor	1/day			Gmm, gradation, %AC, %crushed, % Moisture ** Min 1 sample per day if production is over 150 tons, may be tested jointly with QA
	Loose Mixture (Temperature)	Accept.	QA Lab; S605	QA Lab	3/day			Temperature of mixture in truck at plant, document on truck ticket. Minimum 1 sample per day regardless of production.
		QC	Contractor; S605	Contractor	2/day*	Nuclear or Non-destructive density reading		At paver hopper on roadway
		QC	Contractor; S605	Contractor				*As needed to control density
	Roadway Density	QC	Contractor; S203 & S606	Contractor	1/1,000 LF/Roadway	6 in diameter core		2/Bridge Site. Taken approximately 12 inches downstation from acceptance core.
ASPHALT MATERIAL	Surface Tolerance	QC/Accept.	PE/Contractor	PE	As needed			2/Bridge Site. Completed within 3 calendar days of QC core and reported after QC core
	Asphalt Cement	Accept.	PE/QA	PE/QA	1/shipment		CD	Test at selected locations. Surface tolerance shall not be more than 3/8" out using 10' straight edge. Test at all tie in locations. QC as needed for conformity. Material shall be on AML - Visual inspection of records during plant visit. Collect CD's to verify.

MATERIAL	PURP.	SAMPLED BY		TESTED BY	MIN. FREQ.	MIN. QTY		CERT	REMARKS
		METHOD				CONTAINER			
SECTION 509 - MILLING ASPHALT PAVEMENT									
COLD PLANED SURFACE	Longitudinal Surface Tolerance*	QC	Contractor; TR 644	Contractor	Each Wheelpath Segment				*When a single lift is to be placed over the cold planed surface, it must meet the requirements of binder course in Section 502 of this Manual. See Table 502-8.
		Transverse Surface Tolerance	QC	Contractor	Contractor	2/day*			*As needed to meet requirements of binder course. See Table 502-5
TEMP. PAVEMENT MARKING	See Section 713 of this Manual								



MATERIAL	PURP.	SAMPLED BY		TESTED BY	MIN. FREQ.	MIN. QTY		CERT	REMARKS
		METHOD				CONTAINER			
SECTION 704 - GUARDRAIL									
CONCRETE (CLASS A1)		See Section 901 of this Manual.							
HARDWARE	Accessories, Bolts, End Anchor	Accept.	PE; S601	PE	1/size/type/shipment*	1 of each item		CC	Allow 12 days for handling *Visual inspection sample only if not listed on CC or if questionable
METAL BEAM RAIL		Accept.		PE				CC	Rail shall be listed on AML - Visual inspection by PE; Rail shall be stamped with the name or brand of manufacturer, ID symbol or code for heat, No. & Coating of lot, AASHTO Spec. No., and Class & Type
POSTS AND SPACER BLOCKS	Steel	Accept.		PE				CC	Visual inspection by PE
	Timber	Accept.		PE				CC	Visual inspection by PE
REINFORCEMENT	Wire Fabric	Accept.	PE S501	PE	1/shipment*	48"x48"			Allow 11 days for handling *Visual inspection by PE. Sample only if questionable.
WIRE ROPE & FITTINGS		Accept.		PE				CC*	*Wire rope only. PE visually inspects fittings.
GUARDRAIL END TREATMENTS		Accept.	PE	PE				CC	Guardrail End Treatments shall be on AML - Visual inspection by PE. Certification shall include system name, system drawings, manufacturer, and all necessary documentation to substantiate compliance with NCHRP 350 or MASH requirements.
WELDING	See Section 815 of this Manual.								
SECTION 706 - CONCRETE WALKS, DRIVES AND INCIDENTAL PAVING									
CONCRETE (CLASS M)	Mix Designs, Materials & Tests	See Section 901 of this Manual.							
CURING MATERIALS		Accept.	PE; S601	PE	1/shipment*				Air entrainment is required for slip forming. If substituting Class A1, B, or D for Class M, use sampling requirements for Class M. Allow 10 days for handling *Visual inspection by PE. Sample only if questionable.
JOINT FILLER	Preformed Bituminous Type	Accept.		PE		36" length			Allow 10 days for handling; Visual inspection by PE. Sample only if questionable.
REINFORCING STEEL	Adhesive Anchor Systems	Accept.	PE; S501	PE	1/type				Product shall be listed on AML. Allow 12 days for handling.
	Dowel Bars	Accept.	PE; S501	PE	1/shipment	2 bars*			Allow 9 days for handling *For mechanical placement, only one dowel bar required. Basket assemblies checked for dimensional conformance by PE.
	Mechanical Butt Splicing Devices	Accept.	PE; S501	PE	1/size/25 splices				Product shall be listed on AML. Allow 9 days for handling.
	Tie Bars	Accept.	PE; S501	PE	1/size/grade/150,000 lbs/source*	2 bars*	CA		Allow 9 days for handling *If material is listed on AML, material with a CA need not be sampled. Sample if questionable.
SECTION 708 - RIGHT-OF-WAY MONUMENTS									
RIGHT-OF-WAY MONUMENTS	Monuments, Steel Stakes & Witness	Accept.	Type As Shown on Plans	PE					Visual inspection by PE. Submittal shall be sealed by Contractor PLS for transmittal to Parish
SECTION 711 - RIPRAP									
GEOTEXTILE FABRIC		Accept.	PE; S601	QA Lab				CC	Fabric shall be listed on AML

MATERIAL	PURP.	SAMPLED BY		TESTED BY	MIN. FREQ.	MIN. QTY		CERT	REMARKS
		METHOD				CONTAINER			
RECYCLED CONCRETE	Accept.	QA Lab; S601		QA Lab	*				*Visual inspection and/or gradation check (at source, project site, or both, at Engineer's option.) Gradation and unit weight provided by suppliers. Must be from an approved source.
STONE	Accept.	PE; S601		PE					Stone shall be listed on AML.
SECTION 713 - TEMPORARY TRAFFIC CONTROL									
CATEGORY 2 DEVICES	Barricades, Vertical Panels, Stands & Posts, Signs	Accept.	PE	Supplier				FHW A WZ Letter	Required documentation to certify compliance to NCHRP 350/MASH
SECTION 729 - PERMANENT SIGNS									
BACKFILL (SOIL)		Accept.		PE					Visual inspection by PE
CONCRETE (CLASS M)	Mix Designs, Materials & Tests	See Section 901 of this Manual.							
HARDWARE	Bolts, Nuts & Washers	Accept.		PE				CC	Smaller than 3/8" or smaller. Sample if questionable.
	Mounting Bracket, Strap, Seal	Accept.		PE				CC	Visual inspection by PE.
	Rivets	Accept.		PE				CC	Visual by PE
POSTS (SIGN, MARKER & DELINEATOR)	Flexible and Rigid	Accept.	PE; S501	PE	1/shipment	1/post		CC	Allow 10 days for handling; Visual inspection by PE. Sample only if questionable.
OBJECT MARKERS		Accept.		PE				CC	Visual inspection by PE. Sample only if questionable.
SECTION 739 - HYDRO-SEEDING									
AGRICULTURAL LIME		Accept.		PE				CA	Visual inspection by PE. Sample only if questionable.
FERTILIZER		Accept.		PE				CA *	For bag shipments, visual inspection of bag markings by PE. *For bulk shipments, PE to receive CA.
MULCHING	Other Materials	Accept.	PE; S601	PE	1/source*	3 full sample sacks			*Visual inspection by PE. Sample only if questionable.
	Wood Fiber	Accept.	PE; S601	PE	1/source*	3 full sample sacks			*Visual inspection by PE. Sample only if questionable.
SEED		Accept.		PE					Analyst's tag plus test report for LA Dept. of Agriculture. Seed test reports from other states are acceptable provided specification.
WATER		Accept.	PE; S303	PE	1/source*	1 qt plastic bottle			Allow 11 days for handling; Visual inspection by PE. Sample only if questionable, if not potable.
WATER MANAGEMENT GEL, POLY-ACRYLAMIDE TACKIFIER, AND MYCORRHIZAL INOCULUM		Accept.		PE					Visual inspection by PE of all ingredients prior to mixing

MATERIAL	PURP.	SAMPLED BY		TESTED BY	MIN. FREQ.	MIN. QTY		CERT	REMARKS
		METHOD				CONTAINER			
COVERAGE & GROWTH	Accept.	PE			2/side of bridge				Visual as determined by PE; Contractor shall establish a minimum of 80% growth/coverage of seeded areas prior to final acceptance; water at no direct pay
HYDRO-SEEDING SYSTEM	Accept.	PE; S303		PE	1/source*			CC	Product shall be on AML for hydro-seeding *If all materials are included in a single manufacturer's hydroseeding system



MATERIAL	PURP.	SAMPLED BY		TESTED BY	MIN. FREQ.	MIN. QTY		CERT	REMARKS
		METHOD				CONTAINER			
SECTION 804 - PILES									
BACKFILL	Granular Type Material	Accept.	PE; S101	QA Lab	1/1,000 CY	1 full sample sack			Visual inspection by PE. Sample only if questionable.
CONCRETE PILES (PRECAST)	Pile	Accept.	Inspected by QA Lab prior to shipment and upon arrival.*					CC	Visual inspection by PE. *See Section 805 of this Manual.
EPOXY RESIN SYSTEMS		Accept.	PE	PE	1/lot	1 qt. each component friction top can		CC	Product shall be listed on AML. Specify type and grade
HYDRAULIC JACKS		Accept.		PE				CA	Allow 12 days for handling. Calibrated by an approved, independent calibration service and a certified lab report furnished to the PE for approval. The system must be calibrated at the beginning of each project and as required.
HARDWARE		Accept.	PE; S501	PE	1/size/type/heat	2 of each item*			Sample if Questionable. Allow 10 days for handling *Two (2) pieces of each size and type of hardware used are to be submitted.
PAINT AND PROTECTIVE COATINGS	Coal Tar Epoxy		See Section 811 of this Manual.						
SECTION 805 - STRUCTURAL CONCRETE									
FOR DETAILS ON CONCRETE TESTS, MIX DESIGN AND MATERIALS (ADMIXTURES, AGGREGATES, CEMENT AND WATER), SEE SECTION 901 OF THIS MANUAL.									
BACKFILL		Accept.	See Section 802 of this Manual.						
BEARING PADS	Elastomeric	Accept.	PE; S601*	PE	1/100 pads/type**/lot			CA	Product shall be listed on AML. Allow 14 days for handling. *PE sample at destination only if not sampled at site of source supplier. **Plan or Laminated
	Masonry	Accept.	PE; S601	PE	1/type	1 pad		CA	Allow 10 days for handling
BRIDGE MEMBERS	Concrete Precast	Accept.	Inspected by QA Lab prior to use.	PE				CD	Visual Inspection by PE. For specific details, see EDSM III.2.5.7.
	Anchor Bolts	Accept.	PE; S601	PE	1/size/type/heat	2 bolts*			Allow 11 days for handling. bolts of each size used are to be submitted. *Two
CONCRETE ANCHOR SYSTEMS	Cartridge Systems	Accept.	PE; S601	PE	1/size/type/lot**	2 of each item*			Product shall be listed on AML. Allow 14 days for handling. Includes bolts & nuts intended to be used with the system. *Two pieces of each size and type of item used are to be submitted. **Visual inspection by PE. Sample only if questionable.
	GROUT Systems (Resin or Cementitious)	Accept.	PE; S601	PE	1/lot	1 qt. friction top can of each component			Product shall be listed on AML. Allow 14 days for handling. Includes bolts & nuts intended to be used with the system. Visual inspection by PE. Sample only if questionable.
	Injection System	Accept.	PE; S601	PE	1/type/lot	1 of each component			Product shall be listed on AML. Allow 14 days for handling. Includes bolts & nuts intended to be used with the system. Visual inspection by PE. Sample only if questionable.
	Mechanical Systems	Accept.	PE; S601	PE	1/size/type/lot**	2 of each item*			Product shall be listed on AML. Allow 10 days for handling. Includes bolts & nuts intended to be used with the system. *Two of each size and type of item used are to be submitted. **Visual inspection by PE. Sample only if questionable.
CONCRETE (IN-PLACE)	Compressive Strength	*	QA Lab; S301	QA Lab	3 cyl/structural member	6" x 12" or 4" x 8" cylinder mold			Allow 10 days for handling. determine strength for form removal or exposure to construction traffic. *To
See Section 901 of this Manual.									

MATERIAL	PURP.	SAMPLED BY		TESTED BY	MIN. FREQ.	MIN. QTY		CERT	REMARKS	
		METHOD				CONTAINER				
CONCRETE (IN-PLACE)	Deck Surface Finish	QC	Contractor*	Contractor	each deck				Plastic Concrete *Surface must be checked on bridge decks using an approved 10-ft metal static straightedge supplied by the Contractor. PE to observe Contractor check bridge deck surface	
	Verif.		PE	PE	each deck					
	Time Texturing	Qc	Contractor	Contractor	*				Plastic Concrete *Sufficient number of random checks to assure the required texture depth is achieved.	
		Accept.		PE	PE	2/bridge				Performed on hardened concrete
CURING MATERIALS	Burlap Cloth		Accept.		PE; S601	PE				Allow 10 days for handling **Visual inspection by PE. Sample only if questionable.
	Burlap & White Polyethylene Sheeting		Accept.		PE; S601	PE				Allow 10 days for handling **Visual inspection by PE. Sample only if questionable.
	Liquid Membrane-Forming Compounds		Accept.		PE; S601	PE			CC	Product shall be listed on AML. Allow 10 days for handling **Visual inspection by PE. Sample only if questionable.
	Waterproof Paper		Accept.		PE; S601	PE				Allow 10 days for handling **Visual inspection by PE. Sample only if questionable.
EPOXY RESIN SYSTEMS	White Polyethylene		Accept.		PE; S601	PE				Allow 10 days for handling **Visual inspection by PE. Sample only if questionable.
	Epoxy	Accept.		PE; S601	PE				CC	Product shall be listed on AML. Specify type and grade
		Verif.		PE; S601	PE					Product shall be listed on AML. Specify type and grade. Copy of CC shall be submitted with sample.
			Accept.		PE; S601	PE				Product shall be listed on AML. Visual inspection by PE. Sample only if questionable.
FORM RELEASE AGENTS		Accept.		PE; S601	PE				Product shall be listed on AML. Visual inspection by PE. Sample only if questionable.	
GEOTEXTILE FABRIC		Accept.		PE; S601	PE					Fabric shall be listed on AML. Visual inspection by PE.
See Section 815 of this Manual.										
JOINT MATERIALS										
NON-SHRINK GROUT		Accept.		PE; S601	PE					AML - Allow 16 days for handling **Sample shall be submitted in an unbroken moisture proof sack. CD must include Lot No. for gasket material, if applicable.
	Precast Unit	Accept.		Inspected by QA Lab prior to use.	PE				CD	Product shall be listed on AML. Allow 10 days for handling. Visual inspection by Construction Fabrication Inspection. Sample only if questionable. If sample is taken, leave 2" air space in can.
	Admixtures	Accept.		Inspected by QA Lab prior to use.	QA Lab				CC	Aggregates shall be listed on AML. Allow 4 days for handling **Visual inspection by Construction Fabrication Inspection. Sample only if questionable.
PRECAST CONCRETE (NON-PRESTRESSED OTHER THAN BRIDGE MEMBERS)	Aggregate (Coarse & Fine)	Accept.		Inspected by QA Lab prior to use.	QA Lab		*			Aggregates shall be listed on AML. Allow 4 days for handling **Visual inspection by Construction Fabrication Inspection. Sample only if questionable.
	Cement	See Section 901 of this Manual.							CC	Allow 11 days for handling.
	Compressive Strength	Accept.		PE	QA Lab		1/pour*			Allow 30 days for handling *A pour is an identifiable pour not to exceed 50 Cu. Yd.
	Gasket Material	Section Section 701 of this Manual.							CC	

MATERIAL.	PURP.	SAMPLED BY		TESTED BY	MIN. FREQ.	MIN. QTY		CERT	REMARKS		
		METHOD				CONTAINER					
PRECAST CONCRETE (NON-PRESTRESSED OTHER THAN BRIDGE MEMBERS)	Mix Design	Design		PE	1/class/material source/plant				Contractor shall submit to QA Lab the standard mix design form indicating the intended source of all materials and mix design. Approval by PE required prior to work.		
	Reinforcing Steel Bars	Accept.	PE	PE	1/size/grade/ 150,000 lb/ source	48" length		CA	Product shall be listed on AML. Allow 10 days for handling *Sample only if questionable.		
	Welded Wire Fabric	Accept.	Inspected by QA Lab prior to use.	QA Lab	1/shipment	48" x 48"		CA	Allow 11 days for handling *Sample only if questionable.		
	Precast Unit	Accept.	Inspected by QA Lab prior to use.	QA Lab				CD	CD must include Lot No. for elastomeric bearing pads, if applicable.		
	Admixtures	Accept.	PE	PE	1/type/mfr. Batch	1 pt. friction top can		CC	Product shall be listed on AML. Allow 10 days for handling. Visual inspection by PE. Sample only if questionable. If sample is taken, leave 2" air space in can.		
	Aggregate (Coarse & Fine)	QC	Mfr.: S101	Mfr.	1/lot*	1 full sample sack		CC	Aggregates shall be listed on AML. Gradation and Moisture *Lot to be identifiable pour up to 200 Cu. Yd. of concrete.		
		Accept.	Inspected by QA Lab prior to use.	QA Lab	2/month*	1 full sample sack			Aggregates shall be listed on AML. Allow 3 days for handling. Gradation and Moisture *QA Lab to witness Manufacturer's QC testing.		
	Cement	See Section 901 of this Manual.								CC	
	Compressive Strength & Surface Resistivity	Accept.	Inspected by QA Lab prior to use.	QA Lab	7 cyl/pour*	Cylinder Mold				*Cylinder cured under same conditions as members. Two cylinders are tested for 28 day strength.	
	Elastomeric Bearing Pads	Accept.	PE	PE	1/100 pads/type/lot	1 pad		CA		Product shall be listed on AML. Allow 14 days for handling	
PRECAST CONCRETE (PRESTRESSED & NON PRESTRESSED BRIDGE MEMBERS)	Epoxy Resin Systems	Accept.	PE	PE	1 lot	1 qt. component friction top can			Product shall be listed on AML. Allow 10 days for handling. Specify type and grade.		
	Mix Design	Design		PE	1/class/material source/plant				Contractor shall submit to QA Lab the standard mix design form indicating the intended source of all materials and mix design. Approval by PE required prior to work.		
	Steel Bars & Spiral Reinforcement	Accept.	PE; S501	PE	1/size/grade/ 150,000 lb/ source	48" length		CA	Products shall be listed on AML. Allow 10 days for handling. Sample only if questionable.		
	Tie Bars or Transverse Rods	Accept.	PE; S501	PE	1/lot	48" length		CA/CC*	Products shall be listed on AML. Allow 10 days for handling. *CA - Mill report, CC - indicate specification for steel and coating. Sample only if questionable.		
	Strands for Prestressing	Accept.	PE; S501	PE	1/size/grade/ source/proj./per heat no. *	3 strands 5 ft. length			Product shall be listed on AML. Allow 11 days for handling. *Not to exceed 200 tons. Manufacturer's Load/Elongation curve shall accompany sample.		
	Welded Wire Fabric	Accept.	PE; S501	PE	1/shipment	48" x 48"		CA	Product shall be listed on AML. Allow 11 days for handling. Visual inspection by PE. Sample only if questionable.		
	Bearing Strips and Adhesive	Accept.							Visual inspection by PE		
	PRECAST PRE-STRESSED FORMS	Concrete Deck Forms (Stay in Place Panels)	Accept.	Inspected and stamped by QA Lab prior to use. See precast concrete (Prestressed & Non- Prestressed Bridge Members) in this section.	QA Lab				CD	Visual Inspection by PE. For specific details, see EDSM III.2.5.7.	



MATERIAL		PURP.	SAMPLED BY		TESTED BY	MIN. FREQ.	MIN. QTY	CERT	REMARKS
			METHOD				CONTAINER		
See Section 806 of this Manual.									
REINFORCEMENT	Bars								
SPECIAL SURFACE FINISH	Concrete	Accept.	PE; S601	PE	1/lot or shipment*	1 qt. component friction top can	CC	CC	Product shall be listed on AML. Allow 10 days for handling. **Visual inspection by PE. Sample only if questionable.
	Copper	Accept.	PE; S601	PE	1/lot or shipment*	24" length	CA	CA	**Visual inspection by PE. Sample only if questionable.
	Polyvinyl Chloride	Accept.	PE; S601	PE	1/shipment*	36" length	CC	CC	**Visual inspection by PE. Sample only if questionable.
	Rubber	Accept.	PE; S601	PE	1/lot or shipment*	36" length	CA	CA	**Visual inspection by PE. Sample only if questionable.
SECTION 806 - REINFORCEMENT									
REINFORCEMENT	Bars (Epoxy Coated)	Accept.	PE; S501	PE	1/size/grade/ 150,000 lb/ source	2 bars (approx. 48" in length)	CC	CC	Bars shall be listed on AML. Allow 10 days for handling. *Cert. of Compliance provided by the applicator.
	Bars & Spirals	Accept.	PE; S501	PE	1/size/grade/ 150,000 lb/ source*	48" length	CA	CA	Bars shall be listed on AML. Allow 10 days for handling. *Material with a CA need not be sampled for acceptance. Sample only if questionable.
	Chairs or Metal Bar Supports	Accept.	PE; S501	PE	1/type*	1 chair			**Visual inspection by PE. Sample only if questionable.
	Patching Material (Epoxy Coated Bars)	Accept.	PE; S601	PE	1/source	1 qt. friction top can of each component*	CC	CC	Products shall be listed on AML. Allow 10 days for handling. *If listed on AML, material with a CC need not be sampled. Sample only if questionable.
	Stirrups, Tie Bars	Accept.	PE; S501	PE	1/size/grade/ 150,000 lb/ source*	2 of each item	CA	CA	Products shall be listed on AML. Allow 10 days for handling. *If listed on AML, material with a CC need not be sampled. Sample only if questionable.
SPLICING	Mechanical Butt Splicing Devices	Cont. Qualif.	PE; S501	PE	1/size*	2 assembled splices/each size (rebar ribs assembled)			Products shall be listed on AML. Allow 10 days for handling. *Separate field spliced samples per horizontal and vertical positions. Test prior to use.
		Accept.	PE; S501	PE	1/size/25 splices*	1 assembled splice, 3 ft. length (rebar ribs aligned)			Products shall be listed on AML. Allow 10 days for handling. *Frequency may be reduced to 1 per size / 100 splices after the first 100 splices.
SECTION 809 - WELDING									
THIS SECTION IS TO BE USED AS A GUIDE FOR OTHER ITEM NUMBERS WHEN REFERENCE IS MADE TO SECTION 815. THERE ARE NO PAY ITEMS UNDER SECTION 815.									
WELDING QUALIFICATION AND TESTING	Field	Accept.	Welders and procedure qualified by licensed, bonded testing laboratory. Procedure and welder qualification are received and reviewed by QA Lab.		PE				
	Shop	Accept.			QA Lab				
SECTION 810 - BRIDGE RAILINGS, HAND RAILINGS, PERMANENT ROADWAY BARRIERS, AND PIER PROTECTION SYSTEMS									
CONCRETE	Mix Designs, Materials & Tests	See Section 901 of this Manual.				Air entrainment required for slip forming.			
CURING MATERIALS		See Section 805 of this Manual.							

MATERIAL.	PURP.	SAMPLED BY		TESTED BY	MIN. FREQ.	MIN. QTY		CERT	REMARKS
		METHOD				CONTAINER			
HARDWARE	Accept.	PE; S501	PE	1/size/type/ shipment	2 of each item*			Allow 10 days for handling. Sample if Questionable *Two (2) pieces of each size and type of hardware used are to be submitted.	
JOINT MATERIALS	Accept.	See Section 815 of this Manual.							
REINFORCING STEEL	Accept.	PE; S501	PE	1/size/source*	48" length	CA		Allow 10 days for handling *If listed on AML, materials with CA need not be sampled. Sample for verification if questionable.	
WELDING	See Section 809 of this Manual.								
SPECIAL SURFACE FINISH	Concrete	Accept.	PE; S601	PE	1/lot or shipment*	1 each friction top can	CC	Products shall be listed on AML. Allow 10 days for handling. **Visual inspection by PE. Sample only if questionable.	
	Masonry Finish	Accept.	PE; S601	PE	1/lot or shipment	1 qt. friction top can	CC	Products shall be listed on AML. Allow 11 days for handling. Sample if not accompanied by CC or if questionable.	
SECTION 813 - CONCRETE APPROACH SLABS									
FOR DETAILS ON CONCRETE TESTS, MIX DESIGN AND MATERIALS (ADMIXTURES, AGGREGATES, CEMENT AND WATER), SEE SECTION 901 OF THIS MANUAL.									
AGGREGATES	Bedding Material	Accept.	PE; S101	QA Lab	1/1,000 Cu. Yd.	1 full sample sack		Allow 4 days for handling.	
BEARING PILES	Timber	Accept.	Inspected and stamped by QA Lab prior to use.	QA Lab			CD	Visual inspection by PE	
CONCRETE (IN-PLACE)	Compressive Strength	*	PE; S301	QA Lab	1/pour	Three cylinder molds		*To determine strength for form removal or exposure to construction traffic.	
CURING MATERIALS	Moist Cure Materials	Accept.	PE; S601	PE	1/shipment*	36" x 36"		Allow 10 days for handling **Visual inspection by PE. Sample only if questionable.	
	Liquid Membrane-Forming Compounds	Accept.	PE; S601	PE	1/shipment	1 qt. friction top can	CC	Products shall be listed on AML. Allow 10 days for handling **Visual inspection by PE. Sample only if questionable.	
GEOCOMPOSITE DRAINAGE SYSTEM	Wall Drain	Accept.	PE; S601	PE	1/lot or shipment	4 sq.ft.	CA	Products shall be listed on AML. Allow 10 days for handling	
GEOTEXTILE FABRIC		Accept.	PE; S601	PE	1/type	3 Lf/roll width of fabric*	CC	Fabric shall be listed on AML. Allow 10 days for handling *Sample a minimum of 18 sq. ft.	
HARDWARE CLOTH		Accept.	PE; S601	PE	1/shipment*	18" x 18"		Allow 10 days for handling **Visual inspection by PE. Sample only if questionable.	
JOINT MATERIALS	Performed Closed Cell Polyethylene	Accept.	PE; S601	PE	1/5,000 Lf/width	36" length		Materials shall be listed on AML.	
	Silicone Polymer (Single or Two-Component Rapid Cure)	Accept.	PE; S611	PE	1/shipment*	1 gal friction top can	CD	Materials shall be listed on AML. Allow 30 days for handling *Sample only if questionable	
JOINT SEAL (PERFORMED)	Elastomeric Compression	Accept.	PE; S601	PE	1/lot or shipment	8 ft. length*	CA**	Products shall be listed on AML. Allow 14 days for handling **When width is over 2" , 4 ft length is sufficient. ***PE forwards CA with sample to lab.	
	For Performed Closed Cell Polyethylene Joint Filler	Accept.						Product shall be listed on AML. Allow 10 days for handling **Visual inspection by PE.	
ADHESIVE LUBRICANT	For Performed Elastomeric Compression Joint Seal	Accept.	PE; S601	PE	1 project/lot	1 qt. friction top can		Product shall be listed on AML. Allow 10 days for handling. Mix well before sampling. Seal can tightly.	

MATERIAL.	PURP.	SAMPLED BY		TESTED BY	MIN. FREQ.	MIN. QTY		CERT	REMARKS
		METHOD				CONTAINER			
POLYETHYLENE FILM	Accept.	PE; S601		PE	1/lot or shipment*	36" length			Products shall be listed on AML. Allow 10 days for handling *Visual inspection by PE. Sample only if questionable.
REINFORCING STEEL	Accept.	PE; S501		PE	1/size/source*	48" length		CA	Allow 10 days for handling *Material with a CA need not be sampled for acceptance. Sample only if questionable. Allow 4 days for handling.
UNDERDRAIN PIPE SYSTEM	Accept.	QA Lab		QA Lab	1/1,000 Cu. Yd.	1 full sample sack			
	Accept.	Geo-Composite Wall Drains		PE	1/type/lot	4 SF		CA	Material shall be listed on AML. Allow 11 days for handling. Sample fittings 1 per type per shipment.
	Accept.	Geotextile Fabric	PE; S614	PE	1/type/source/shipment	3 Lf/roll width of fabric		CC	Material shall be listed on AML. Allow 10 days for handling. Sample a minimum of 18 SF
	Accept.	Hardware Cloth (Rodent Screen)	PE; S601	PE	1/shipment	1 screen			Allow 10 days for handling. Visual inspection by PE. Sample only if questionable.
	Accept.	Plastic Pipe		PE				CC	Pipe material shall be on the AML. Visual inspection by PE. CC to include split coupling bands, straps, and gasket material
	Accept.	Portland Cement Concrete							See Section 901 of this Manual.
	Accept.	Reinforcing Steel Bars	PE; S501	PE	1/source	48" length		CA	Material shall be on the AML. Allow 10 days for handling. CA or sample.
	Accept.	Wire Fabric	PE; S501	PE	1/shipment	48" x 48"			Allow 11 days for handling. Visual inspection by PE. Sample only if questionable.
SECTION 815 - JOINTS									
ADHESIVE LUBRICANT	Accept.	PE; S601		QA Lab	1 project/lot	1 qt. friction top can			Material shall be on the AML. Allow 10 days for handling. Mix well before sampling. Seal can tightly.
CONCRETE	See Section 901 of this Manual.								
CONCRETE (STRUCTURAL)	Mix Design, Materials & Tests	See Section 805 of this Manual.							
HARDWARE	High Strength Bolts, Nuts & Washers and Direct Tension Indicators	Accept.	PE; S501	PE	1/type/size/heat	2 of each item*		CA	Allow 10 days for handling *For sizes over 1-1/8", sample only 1 of each item. Copy of CA to accompany sample and ID. Similar size, type and heat of nut and washer need not be submitted.
JOINT DESIGN	Design		Bridge Engineer	Bridge Engineer*					*Provide Joint Design, Fabrication Plan, and Installation Plan to Bridge Engineer for review.
JOINT FILLER	Accept.	PE; S601		PE	1/5,000L/F/type	36" length			Product shall be on the AML. Allow 10 days for handling *Visual inspection by PE. Sample only if questionable.
	Adhesive-Lubricant	Accept.	PE; S601	PE	1/lot*	1 qt. friction top can			Product shall be on the AML. Allow 10 days for handling. For used with preformed elastomeric compression joint seal. *Visual inspection by PE. Sample only if questionable. Mix well before sampling. Seal can tightly.
JOINT MATERIALS	Backer Rod	Accept.		PE				CC	Product shall be on the AML. Visual inspection by PE. Sample only if questionable.
	Rubberized Asphaltic Type	Accept.	QA Lab; S611	PE	1/shipment	1 container		CD*	Product shall be on the AML. Allow 11 days for handling *Sample if not accompanied by CD
	Silicone Polymer (Single or two-Component Rapid Cure)	Accept.	QA Lab; S611	PE	1/shipment*	1 gal friction top can		CD	Product shall be on the AML. Allow 30 days for handling *Sample only if questionable
		Accept.	QA Lab; S611	PE		1 gal friction top can		CA	Product shall be on the AML. Allow 30 days for handling *Sample if not accompanied by CD



MATERIAL	PURP.	SAMPLED BY		TESTED BY	MIN. FREQ.	MIN. QTY		CERT	REMARKS
		METHOD				CONTAINER			
JOINT MATERIALS	Polyurethane Polymer	Accept.	QA Lab; S611	PE	1/shipment*	one unit of each component*	CD	Product shall be on the AML. Allow 14 days for handling *When material is accompanied by a CD, sample only if questionable.	
	Accept.	QA Lab; S611	PE	1/batch*	one unit of each component*	CA	Product shall be on the AML. Allow 14 days for handling **When material is not accompanied by a CD **One unit of each component selected at random and submitted as sample.		
	Reinforced Elastomeric Joint Seal	Accept.		PE			CC&CA	Elastomer - CA; Steel - CC. Visual inspection by PE	
	Preformed Neoprene	Accept.	QA Lab; S611	PE	1/shipment*	48" length	CC	*Visual inspection by PE. Sample only if questionable.	
	Preformed Silicone	Accept.	QA Lab; S611	PE	1/shipment*		CC**	**Visual inspection by PE. Sample only if questionable. **CC to include both silicone seal and adhesive.	
	Fabricated Trough / Membrane	Accept.	QA Lab; S611	PE	1/shipment*		CC	*Visual inspection by PE. Sample only if questionable.	
	Metal End Dams for Preformed Neoprene and Silicone Joint Seals	Accept.	PE	Mfr.			CA	Visual inspection by PE. QA Lab to sample if questionable.	
METAL JOINT COMPONENTS	Finger plates, sliding plates, armor assemblies, shapes, studs, anchors, and other required components	Accept.	Inspected and stamped by QA Lab prior to use.	QA Lab			CA	PE to receive inspection report from QA Lab.	
WELDING		See Section 809 of this Manual.							

MATERIAL	PURP.	SAMPLED BY		TESTED BY	MIN. FREQ.	MIN. QTY		CERT	REMARKS
		METHOD				CONTAINER			
SECTION 901 - PORTLAND CEMENT CONCRETE									
ADMIXTURES	Accept.	PE; S601	PE	1/type/project		CC		Products shall be listed on AML. Visual inspection by PE. Sample if questionable	
AGGREGATES (PAVEMENT)	QC	Contractor; S101	Contractor	1/day/plant moisture; 2/day/plant gradation	1 full sample sack			Aggregates shall be listed on AML. Gradation results plotted in tabular and chart format for documentation.	
AGGREGATES (STRUCTURAL)	QC	Contractor; S101	Contractor	1/mix type	1 full sample sack			Aggregates shall be listed on AML. Gradation and moisture content to be run. Lot to be identifiable pour up to 200 Cu. Yd. max of concrete. Gradation results shall be plotted on control charts which are required for documentation. See "Application of Quality Assurance Specifications for Portland Cement Concrete Pavement and Structures" for details.	
CEMENT (HYDRALIC)	Accept.	PE	PE	1/shipment		CC		Product shall be listed on AML. Visual inspection, sample if questionable	
CEMENT REPLACEMENT	Accept.	PE	PE	1/shipment		CC		Product shall be listed on AML. Visual inspection, sample if questionable	
CONCRETE (MINOR MIXES, DRIVEWAYS)	Compressive Strength	QA Lab; S301	QA Lab	3 cyl/30 CY	6in. X 12in. or 4in. X 8in.			Additional set required for high early strength concrete	
	Mix Design	Contractor	Contractor	1/type/class/plant				Mix Design shall be listed on AML. Admixtures, Aggregates, Cement, Cement Replacement. Contractor shall submit to PE atleast 20 days prior to paving including source of all materials	
	Slump & Air	QC	Contractor; S301	Contractor	First delivery & 1/30 CY			Additional test when visual inspection by PE requires	
	Entrained Air	QC	Contractor; S301	Contractor	2/day	0.25 Cu. Ft.			Air test results shall be plotted on control charts which are required for documentation.
CONCRETE (STRUCTURAL)	Compressive Strength&Surface Resistivity	Accept.	QA Lab; S301	QA Lab	3 cyl/batch 2 batches/lot*	Cylinder Molds		Allow 1 day for handling. When pump placement is used, see "Application of Quality Assurance Specifications for Portland Cement Concrete Pavement and Structures" for details.	
	Mix Design	Design/ Accept.	*	QA Lab/PE	1/mix/class/ material source/plant			Allow 30 days for handling. A lot is an identifiable pour not to exceed 200 yd3. For specific details see Specification Subsection 805.10.	
	Mix Temperature	QC	Contractor; S301	Contractor	*			* If used for curbs only, frequency is 3 cyl/ 50 yd3.	
	Slump	QC	Contractor; S301	Contractor	1/10 CY	0.50 Cu. Ft.		Allow 10 days for handling.	
	Unit Weight	QC	Contractor; S301	Contractor	*	1.5 Cu. Ft. 0.5 or 1 Cu. Ft. yield bucket		*Contractor shall submit to the QA Lab & PE the standard Mix Design form indicating the intended source of all materials and the mix design. Acceptance by the QA Lab and PE is required prior to starting work	
								*When temperature control is required, testing must be sufficient to prevent exceeding appropriate limits.	
WATER	Accept.	PE; S301	PE	1/source	1 qt. plastic bottle			Slump test results shall be plotted on control charts which are required for documentation.	
								Allow 1 day for handling. When pump placement is used, see "Application of Quality Assurance Specifications for Portland Cement Concrete Pavement and Structures" for details.	
								*Unit weight will be run as necessary.	
								Allow 11 days for handling. Potable water need not be sampled.	

**Table 6B-1. Recommended Advance  
Warning Sign Minimum Spacing**

Road Type	Distance between Signs**		
	A	B	C
Urban (low speed)*	100 feet	100 feet	100 feet
Urban (high speed)*	350 feet	350 feet	350 feet
Rural	500 feet	500 feet	500 feet
Expressway / Freeway	1,000 feet	1,500 feet	2,640 feet

\* Speed category to be determined by the highway agency or owner of site roadways open to public travel.

\*\* The column headings A, B, and C are the dimensions shown in Figures 6P-1 through 6P-54. The A dimension is the distance from the transition or point of restriction to the first sign. The B dimension is the distance between the first and second signs. The C dimension is the distance between the second and third signs. (The "first sign" is the sign in a three-sign series that is closest to the TTC zone. The "third sign" is the sign that is furthest upstream from the TTC zone.)

## Section 6B.06 Activity Area

Support:

- 01 The activity area is the section of the highway where the work activity takes place. It is comprised of the work space, the traffic space, and the buffer space.
- 02 The work space is that portion of the highway closed to road users and set aside for workers, equipment, and material, and a shadow vehicle if one is used upstream. Work spaces are usually delineated for road users by channelizing devices or, to exclude vehicles and pedestrians, by temporary barriers.

Option:

- 03 The work space may be stationary or may move as work progresses.

Guidance:

- 04 *Since there might be several work spaces (some even separated by several miles) within the project limits, each work space should be adequately signed to inform road users and reduce confusion.*

Support:

- 05 The traffic space is the portion of the highway in which road users are routed through the activity area.
- 06 The buffer space is a lateral and/or longitudinal area that separates road user flow from the work space or an unsafe area, and might provide some recovery space for an errant vehicle.

Guidance:

- 07 *Neither work activity nor storage of equipment, vehicles, or material should occur within a buffer space.*

Option:

- 08 Buffer spaces may be positioned either longitudinally or laterally with respect to the direction of road user flow. The activity area may contain one or more lateral or longitudinal buffer spaces.
- 09 A longitudinal buffer space may be placed in advance of a work space.
- 10 The longitudinal buffer space may also be used to separate opposing road user flows that use portions of the same traffic lane, as shown in Figure 6B-2.
- 11 If a longitudinal buffer space is used, the values shown in Table 6B-2 may be used to determine the length of the longitudinal buffer space.

Support:

- 12 Typically, the buffer space is formed as a traffic island and defined by channelizing devices.
- 13 When a shadow vehicle, arrow board, or changeable message sign is placed in a closed lane in advance of a work space, only the area upstream of the vehicle, arrow board, or changeable message sign constitutes the buffer space.

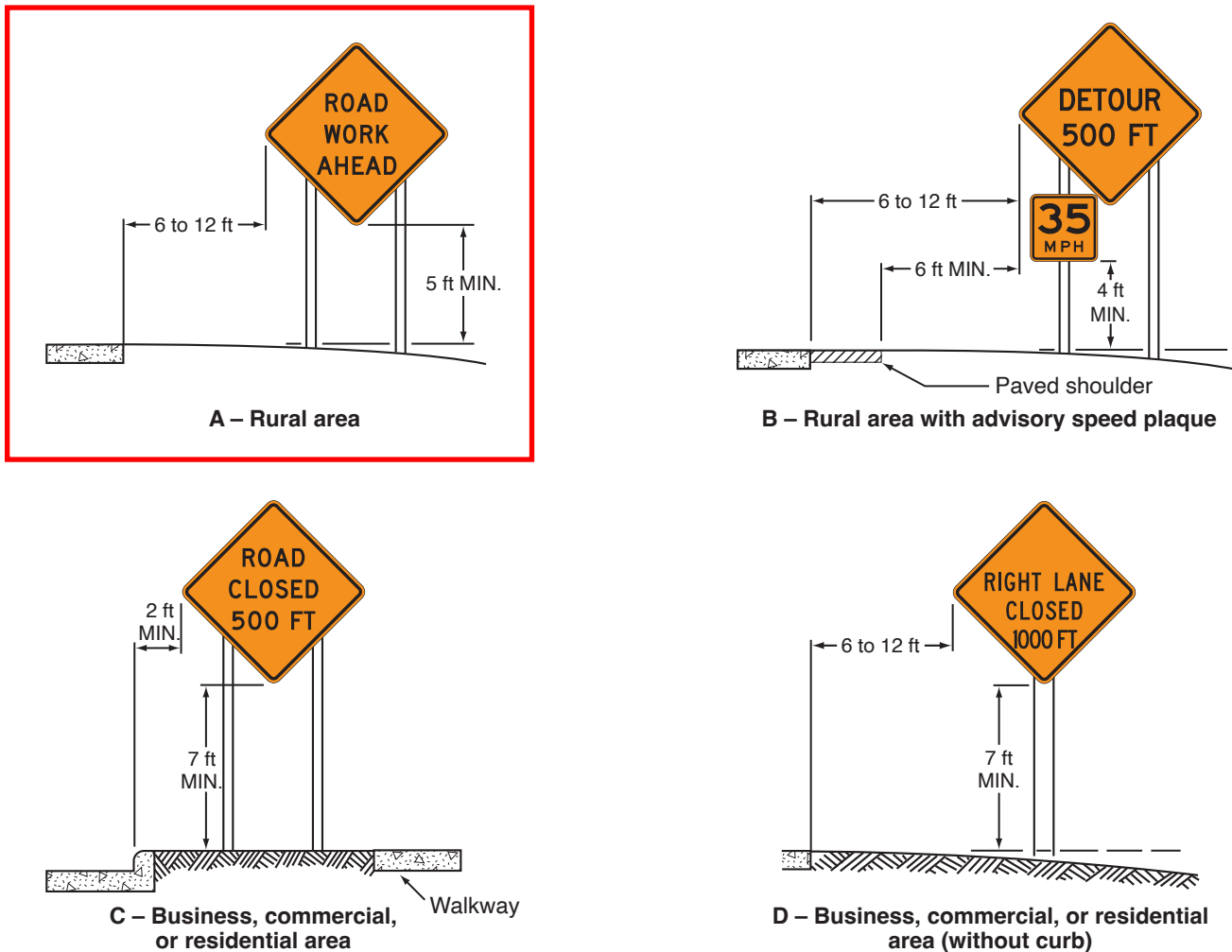
Option:

- 14 The lateral buffer space may be used to separate the traffic space from the work space, as shown in Figures 6B-1 and 6B-2, or such areas as excavations or pavement-edge drop-offs. A lateral buffer space also may be used between two travel lanes, especially those carrying opposing flows.

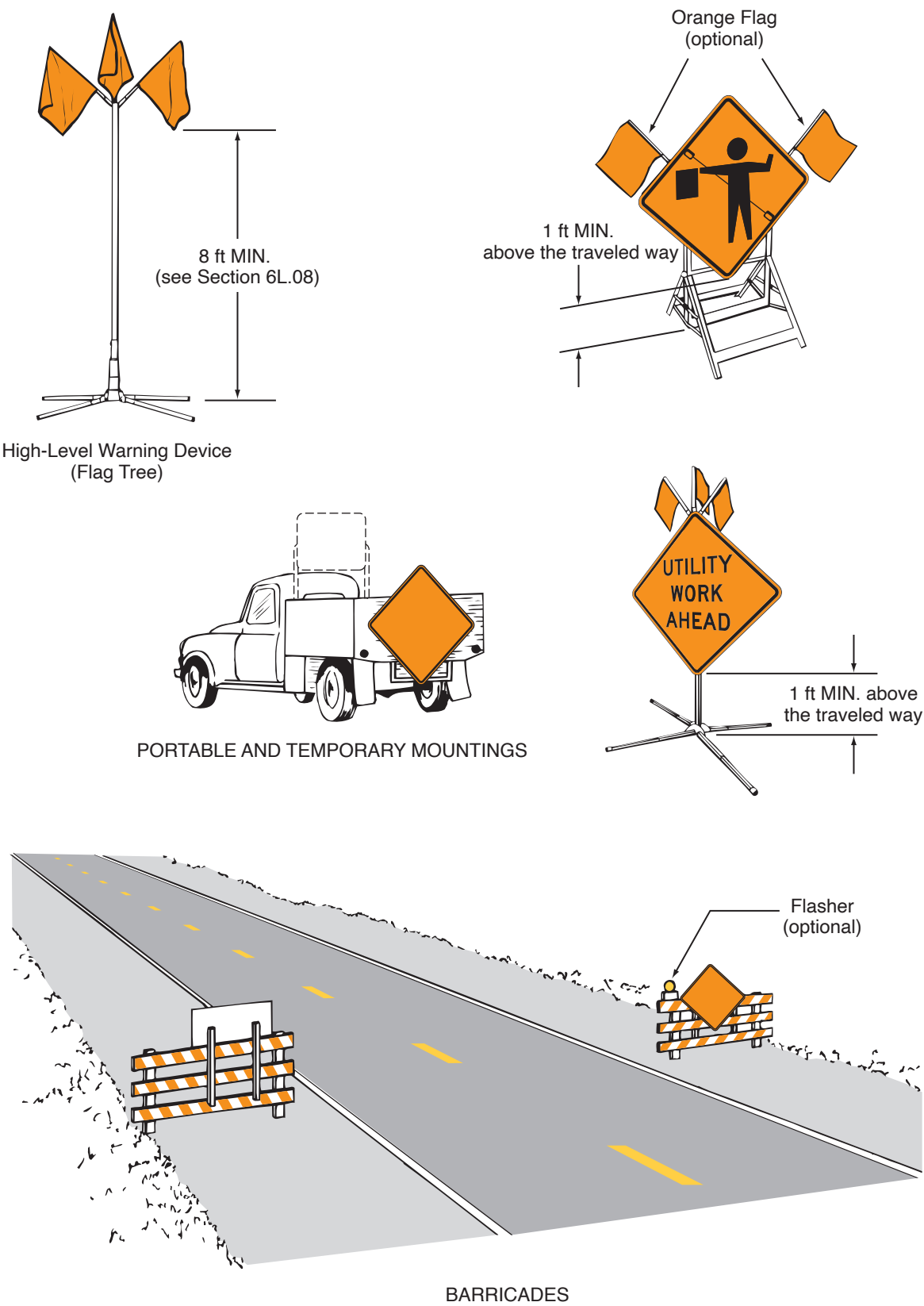


- 05 The minimum height, measured vertically from the bottom of the sign to the top of the curb, or in the absence of curb, measured vertically from the bottom of the sign to the elevation of the near edge of the traveled way, of signs installed at the side of the road in business, commercial, or residential areas where parking or pedestrian movements are likely to occur, or where the view of the sign might be obstructed, shall be 7 feet (see Figure 6F-1).
- 06 The minimum height, measured vertically from the bottom of the sign to the sidewalk, of signs installed above sidewalks shall be 7 feet.
- 07 The bottom of a sign mounted on a barricade, or other portable support, shall be at least 1 foot above the traveled way.
- Option:
- 08 The height to the bottom of a secondary sign mounted below another sign may be 1 foot less than the height provided in Paragraphs 4 through 6 of this Section.
- Guidance:
- 09 Neither portable nor permanent sign supports should be located on sidewalks, bicycle facilities, or areas designated for pedestrians or bicyclists.
- Standard:**
- 10 Signs shall be mounted and placed in accordance with Section 307 of the U.S. Department of Justice 2010 ADA Standards for Accessible Design, September 15, 2010, 28 CFR 35 and 36, Americans with Disabilities Act of 1990.
- Guidance:
- 11 Except as provided in Paragraph 12 of this Section, signs mounted on portable sign supports that do not meet the minimum mounting heights provided in Part 2 should not be used for a duration of more than 3 days.

**Figure 6F-1. Height and Lateral Location of Signs—Typical Installations**



**Figure 6F-2. Methods of Mounting Signs Other Than on Posts**



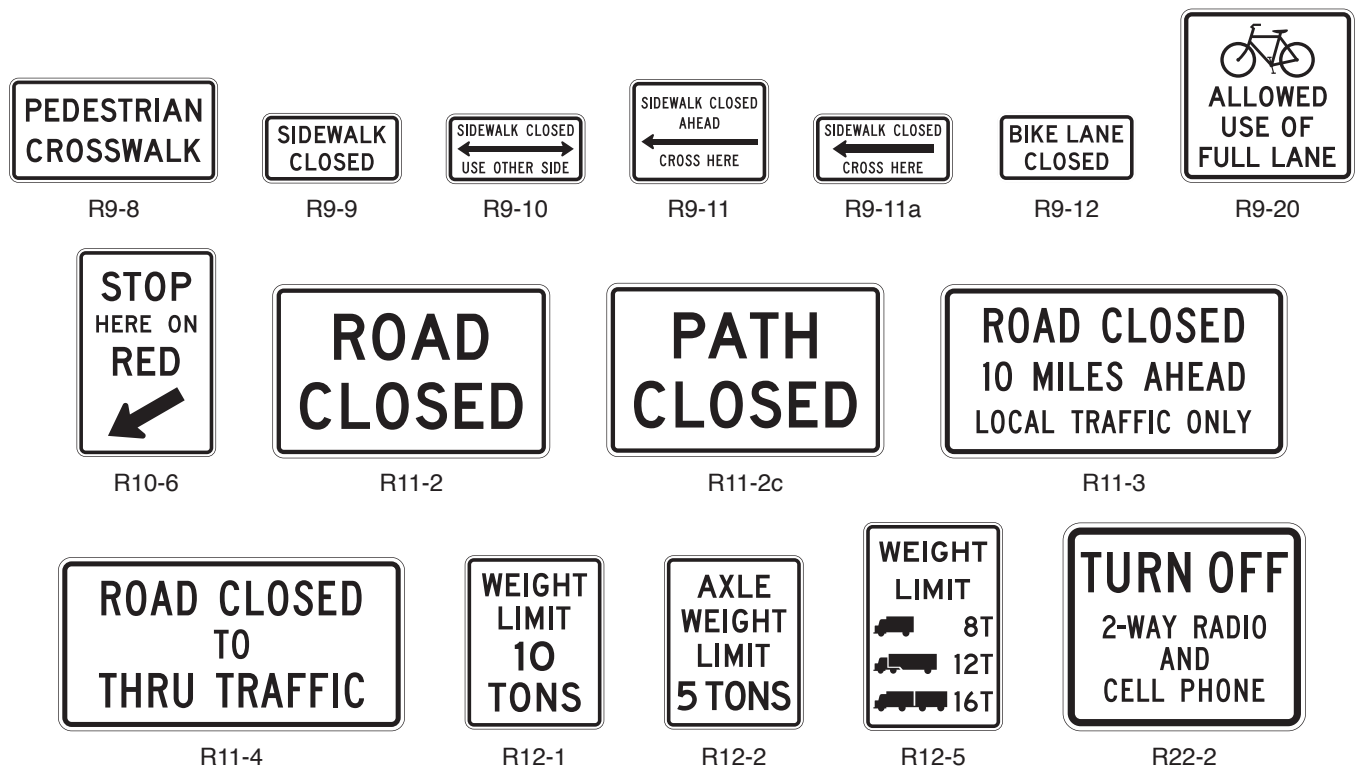
**Figure 6G-1. Regulatory Signs and Plaques  
in Temporary Traffic Control Zones (Sheet 1 of 2)**



Note: See Chapter 2B for information on the application of these signs.



**Figure 6G-1. Regulatory Signs and Plaques  
in Temporary Traffic Control Zones (Sheet 2 of 2)**



Note: See Chapter 2B for information on the application of these signs.

### Section 6G.06 Weight Limit Signs (R12-1, R12-2, and R12-5)

#### Standard:

- 01 A Weight Limit sign (see Figure 6G-1), which shows the gross weight or axle weight that is permitted on the roadway or bridge, shall be consistent with State or local regulations and shall not be installed without the approval of the authority having jurisdiction over the highway.
- 02 When weight restrictions are imposed because of the activity in a TTC zone, a marked detour shall be provided for vehicles weighing more than the posted limit.

### Section 6G.07 STAY IN LANE Signs (R4-9 and R4-9a)

#### Option:

- 01 A STAY IN LANE (R4-9) sign (see Figure 6G-1) may be used where a multi-lane shift has been incorporated as part of the TTC on a highway to direct road users around road work that occupies part of the roadway on a multi-lane highway.

#### Guidance:

- 02 A STAY IN LANE TO MERGE POINT (R4-9a) sign (see Figure 6G-1) should be used during late merge operations (see Section 6N.19) to direct traffic to use all available lanes until the merge point is reached.

### Section 6G.08 Work Zone and Higher Fines Signs and Plaques

#### Option:

- 01 A WORK ZONE (G20-5aP) plaque (see Figure 6G-1) may be mounted above a Speed Limit sign to emphasize that a reduced speed limit is in effect within a TTC zone. An END WORK ZONE SPEED LIMIT (R2-12) sign (see Figure 6G-1) may be installed at the downstream end of the reduced speed limit zone.

#### Guidance:

- 02 A BEGIN HIGHER FINES ZONE (R2-10) sign (see Figure 6G-1) should be installed at or near the beginning of a TTC zone where increased fines are imposed for traffic violations, and an END HIGHER FINES ZONE (R2-11) sign (see Figure 6G-1) should be installed at or near the downstream end of the TTC zone.

**Table 6G-1. Temporary Traffic Control Zone Regulatory Sign and Plaque Sizes**

Sign or Plaque	Sign Designation	Section	Conventional Road	Freeway or Expressway	Minimum
Stop	R1-1	6G.02	30 x 30*	—	—
Stop (on Stop/Slow Paddle)	R1-1	6D.02	18 x 18	—	—
Yield	R1-2	6G.02	36 x 36 x 36*	—	30 x 30 x 30
To Oncoming Traffic (plaque)	R1-2aP	6G.02	36 x 30	48 x 36	24 x 18
Wait on Stop	R1-7	6L.03	24 x 30	24 x 30	—
Wait on Stop - Go on Slow	R1-7a	6G.03	30 x 36	30 x 36	—
Go on Slow	R1-8	6L.03	24 x 30	24 x 30	—
Speed Limit	R2-1	6G.08	24 x 30*	36 x 48	—
Fines Higher (plaque)	R2-6P	6G.08	24 x 18	36 x 24	—
Fines Double (plaque)	R2-6aP	6G.08	24 x 18	36 x 24	—
\$XX Fine (plaque)	R2-6bP	6G.08	24 x 18	36 x 24	—
Begin Higher Fines Zone	R2-10	6G.08	24 x 30	36 x 48	—
End Higher Fines Zone	R2-11	6G.08	24 x 30	36 x 48	—
End Work Zone Speed Limit	R2-12	6G.08	24 x 36	36 x 54	—
Movement Prohibition	R3-1,2,3,4	6G.02	24 x 24*	36 x 36	—
Mandatory Movement Lane Control - Turn Only	R3-5	6G.02	30 x 36	—	—
Optional Movement Lane Control - Thru and Turn	R3-6	6G.02	30 x 36	—	—
Right (Left) Lane Must Turn Right (Left)	R3-7	6G.02	30 x 30*	—	—
Advance Intersection Lane Control (2 lanes)	R3-8	6G.02	30 x 30	—	—
Movement Prohibition - No U or Left Turn	R3-18	6G.02	24 x 24*	36 x 36	—
Movement Prohibition - No Straight Through	R3-27	6G.02	24 x 24*	36 x 36	—
Do Not Pass	R4-1	6G.02	24 x 30	36 x 48	—
Pass With Care	R4-2	6G.02	24 x 30	36 x 48	—
Keep Right	R4-7	6G.02	24 x 30	36 x 48	—
Narrow Keep Right	R4-7c	6G.02	18 x 30	—	—
Stay in Lane	R4-9	6G.07	24 x 30	36 x 48	—
Stay In Lane To Merge Point	R4-9a	6G.07	36 x 48	36 x 48	—
Do Not Enter	R5-1	6G.02	30 x 30*	36 x 36	—
Wrong Way	R5-1a	6G.02	36 x 24*	42 x 30	—
One Way	R6-1	6G.02	36 x 12*	48 x 18	—
One Way	R6-2	6G.02	24 x 30*	36 x 48	—
No Parking (symbol)	R8-3	6G.02	24 x 24*	36 x 36	—
Pedestrian Crosswalk	R9-8	6G.09	36 x 18	—	—
Sidewalk Closed	R9-9	6G.10	24 x 12	—	—
Sidewalk Closed, Use Other Side	R9-10	6G.10	24 x 12	—	—
Sidewalk Closed Ahead, Cross Here	R9-11	6G.10	24 x 18	—	—
Sidewalk Closed, Cross Here	R9-11a	6G.10	24 x 12	—	—
Bike Lane Closed	R9-12	6P.01	24 x 12	—	—
Stop Here on Red	R10-6	6L.04	24 x 36	—	—
Road Closed	R11-2, 2a, 2b, 2c	6G.04	48 x 30	—	—
Road Closed - Local Traffic Only	R11-3, 3a, 3b, 4	6G.05	60 x 30	—	—
Weight Limit	R12-1, 2	6G.06	24 x 30	36 x 48	—
Weight Limit	R12-5	6G.06	24 x 36	36 x 48	—
Turn Off 2-Way Radio and Cell Phone	R22-2	6G.11	42 x 36	42 x 36	—
Work Zone (plaque)	G20-5aP	6G.08	24 x 18	30 x 24	—

\* See Table 2B-1 for minimum size required for signs facing traffic on multi-lane conventional roads

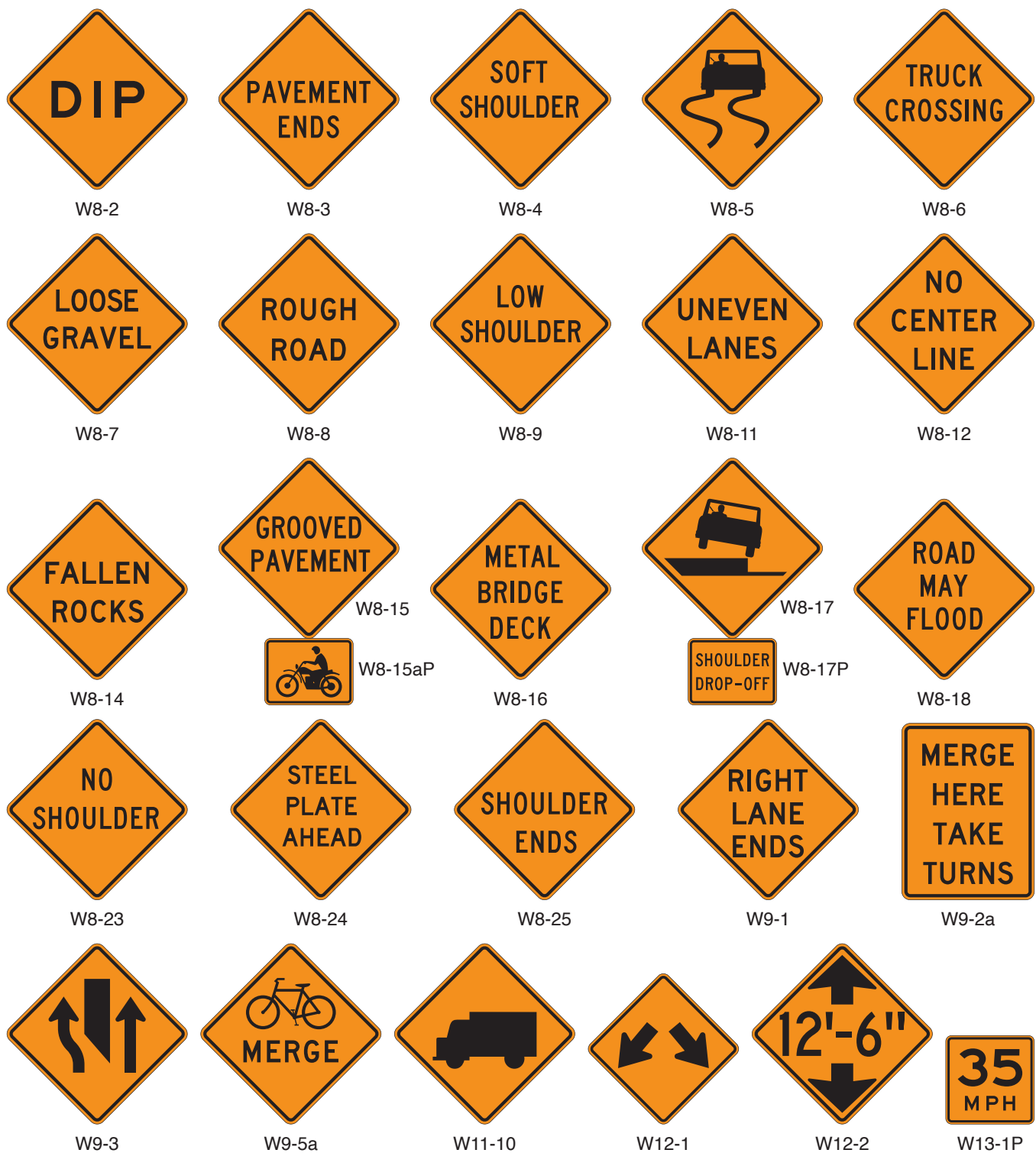
Notes:

1. Larger signs may be used wherever necessary for greater legibility or emphasis
2. Dimensions are shown in inches and are shown as width x height

**Figure 6H-1. Warning Signs and Plaques in Temporary Traffic Control Zones (Sheet 1 of 4)**

Note: See Chapter 2C for information on the application of these signs.



**Figure 6H-1. Warning Signs and Plaques in Temporary Traffic Control Zones (Sheet 2 of 4)**

Note: See Chapter 2C for information on the application of these signs.

**Figure 6H-1. Warning Signs and Plaques in Temporary Traffic Control Zones (Sheet 3 of 4)**

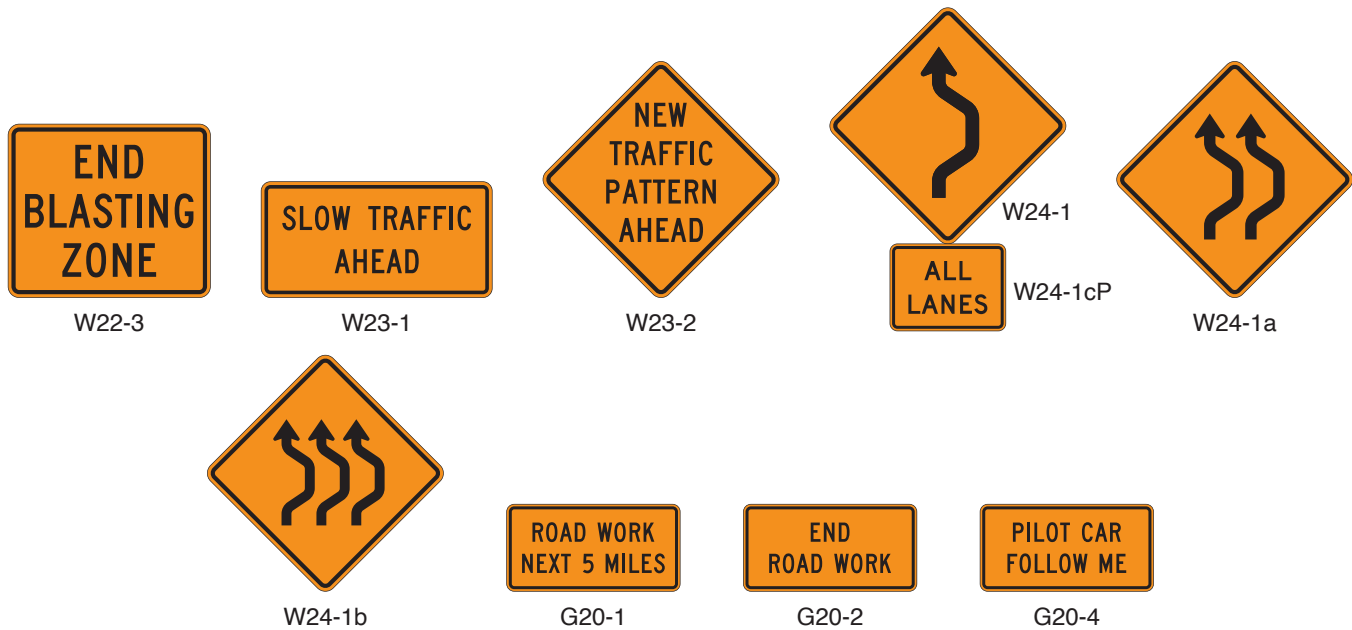
Note: See Chapter 2C for information on the application of these signs.

\* An optional STREET WORK word message sign is shown in the "Standard Highway Signs" publication.

\*\* An optional STREET CLOSED word message sign is shown in the "Standard Highway Signs" publication.

\*\*\* An optional FLAGGER (W20-7a) word message sign is shown in the "Standard Highway Signs" publication.

\*\*\*\* An optional FRESH TAR word message sign is shown in the "Standard Highway Signs" publication.

**Figure 6H-1. Warning Signs and Plaques in Temporary Traffic Control Zones (Sheet 4 of 4)**

Note: See Chapter 2C for information on the application of these signs.

#### Support:

- 05 At TTC zones on lightly-traveled roads, all of the advance warning signs prescribed for major construction might not be needed.

#### Option:

- 06 Utility work, maintenance, or minor construction can occur within the TTC zone limits of a major construction project, and additional warning signs may be needed.

#### Guidance:

- 07 Utility, maintenance, and minor construction signing and TTC should be coordinated with appropriate authorities so that road users are not confused or misled by the additional TTC devices.

### **Section 6H.03 ROAD (STREET) WORK Sign (W20-1)**

#### Guidance:

- 01 The ROAD (STREET) WORK (W20-1) sign (see Figure 6H-1), which serves as a general warning of obstructions or restrictions, should be located in advance of the work space or any detour, on the road where the work is taking place.
- 02 Where traffic can enter a TTC zone from a crossroad or a major (high-volume) driveway, an advance warning sign should be used on the crossroad or major driveway.

#### Option:

- 03 The legend STREET may be substituted for ROAD and the distance legend may be either XX FEET, XX MILES, or AHEAD.

### **Section 6H.04 DETOUR Sign (W20-2)**

#### Guidance:

- 01 The DETOUR (W20-2) sign (see Figure 6H-1) should be used in advance of a road user detour over a different roadway or route.

#### Option:

- 02 The distance legend may be either XX FEET, XX MILES, or AHEAD.



**Table 6H-1. Temporary Traffic Control Zone Warning Sign and Plaque Sizes (Sheet 1 of 2)**

Sign or Plaque	Sign Designation	Section	Conventional Road	Freeway or Expressway	Minimum
Turn and Curve Signs	W1-1,2,3,4	6H.01	36 x 36	48 x 48	30 x 30
Reverse Curve (2 or more lanes)	W1-4b,4c	6H.30	36 x 36	48 x 48	30 x 30
Large Arrow (1-direction)	W1-6	6H.01	48 x 24	60 x 30	—
Chevron Alignment	W1-8	6H.01	18 x 24	30 x 36	—
Stop Ahead	W3-1	6H.01	36 x 36	48 x 48	30 x 30
Yield Ahead	W3-2	6H.01	36 x 36	48 x 48	30 x 30
Signal Ahead	W3-3	6H.01	36 x 36	48 x 48	30 x 30
Be Prepared to Stop	W3-4	6H.01	36 x 36	48 x 48	30 x 30
Reduced Speed Limit Ahead	W3-5	6H.01	36 x 36	48 x 48	30 x 30
XX MPH Speed Zone Ahead	W3-5a	6H.01	36 x 36	48 x 48	30 x 30
Merging Traffic	W4-1,5	6H.01	36 x 36	48 x 48	36 x 36
Lane Ends	W4-2	6H.08	36 x 36	48 x 48	30 x 30
Added Lane	W4-3,6	6H.01	36 x 36	48 x 48	30 x 30
No Merge Area (plaque)	W4-5aP	6H.01	18 x 24	24 x 30	—
Road Narrows	W5-1	6H.01	36 x 36	48 x 48	30 x 30
Narrow Bridge	W5-2	6H.01	36 x 36	48 x 48	30 x 30
One Lane Bridge	W5-3	6H.01	36 x 36	48 x 48	30 x 30
Ramp Narrows	W5-4	6H.10	36 x 36	48 x 48	30 x 30
Divided Highway	W6-1	6H.01	36 x 36	48 x 48	30 x 30
Divided Highway Ends	W6-2	6H.01	36 x 36	48 x 48	30 x 30
Two-Way Traffic	W6-3	6H.16	36 x 36	48 x 48	30 x 30
Narrow Two-Way Traffic	W6-4	6H.17	12 x 18	12 x 18	—
Hill	W7-1	6H.01	36 x 36	48 x 48	30 x 30
Next XX Miles (plaque)	W7-3aP	6H.33	24 x 18	36 x 30	—
Bump	W8-1	6H.01	36 x 36	48 x 48	24 x 24
Dip	W8-2	6H.01	36 x 36	48 x 48	24 x 24
Pavement Ends	W8-3	6H.01	36 x 36	48 x 48	30 x 30
Soft Shoulder	W8-4	6H.26	36 x 36	48 x 48	30 x 30
Slippery When Wet	W8-5	6H.01	36 x 36	48 x 48	30 x 30
Truck Crossing	W8-6	6H.21	36 x 36	48 x 48	30 x 30
Loose Gravel	W8-7	6H.01	36 x 36	48 x 48	30 x 30
Rough Road	W8-8	6H.01	36 x 36	48 x 48	24 x 24
Low Shoulder	W8-9	6H.26	36 x 36	48 x 48	24 x 24
Uneven Lanes	W8-11	6H.27	36 x 36	48 x 48	30 x 30
No Center Line	W8-12	6H.29	36 x 36	48 x 48	30 x 30
Fallen Rocks	W8-14	6H.01	36 x 36	48 x 48	30 x 30
Grooved Pavement	W8-15	6H.01	36 x 36	48 x 48	30 x 30
Motorcycle (plaque)	W8-15aP	6H.34	24 x 18	30 x 24	—
Metal Bridge Deck	W8-16	6H.34	36 x 36	48 x 48	30 x 30
Shoulder Drop Off (symbol)	W8-17	6H.26	36 x 36	48 x 48	30 x 30
Shoulder Drop-Off (plaque)	W8-17P	6H.26	24 x 18	30 x 24	—
Road May Flood	W8-18	6H.01	36 x 36	48 x 48	24 x 24
No Shoulder	W8-23	6H.01	36 x 36	48 x 48	30 x 30
Steel Plate Ahead	W8-24	6H.28	36 x 36	48 x 48	30 x 30
Shoulder Ends	W8-25	6H.01	36 x 36	48 x 48	30 x 30
Lane Ends	W9-1,2	6H.01	36 x 36	48 x 48	30 x 30
Merge Here Take Turns	W9-2a	6N.19	36 x 48	36 x 48	—
Interior Lane Shift Ahead	W9-3	6H.07	36 x 36	48 x 48	30 x 30

**Table 6H-1. Temporary Traffic Control Zone Warning Sign and Plaque Sizes (Sheet 2 of 2)**

Sign or Plaque	Sign Designation	Section	Conventional Road	Freeway or Expressway	Minimum
Bicycles Merging	W9-5a	6P.01	30 x 30	—	18 x 18
Grade Crossing Advance Warning	W10-1	6H.01	36 dia.	48 Dia.	—
Truck	W11-10	6H.21	36 x 36	48 x 48	24 x 24
Double Arrow	W12-1	6H.01	30 x 30	36 x 36	—
Low Clearance	W12-2	6H.01	36 x 36	48 x 48	30 x 30
Advisory Speed (plaque)	W13-1P	6H.32	18 x 18	24 x 24	18 x 18
On Ramp (plaque)	W13-4P	6H.09	36 x 36	36 x 36	—
No Passing Zone (pennant)	W14-3	6H.01	48 x 48 x 36	64 x 64 x 48	40 x 40 x 30
XX Feet (2-line plaque)	W16-2P	6H.01	24 x 18	30 x 24	—
Road Work (with distance)	W20-1	6H.03	36 x 36	48 x 48	30 x 30
Path Work (with distance)	W20-1b	6P.01	36 x 36	—	30 x 30
Detour (with distance)	W20-2	6H.04	36 x 36	48 x 48	30 x 30
Bike Detour (with distance)	W20-2a	6P.01	36 x 36	—	30 x 30
Bike Diversion (with distance)	W20-2b	6P.01	36 x 36	—	30 x 30
Road Closed (with distance)	W20-3	6H.05	36 x 36	48 x 48	30 x 30
Path Closed (with distance)	W20-3a	6P.01	36 x 36	—	30 x 30
One Lane Road (with distance)	W20-4	6H.06	36 x 36	48 x 48	30 x 30
Lane(s) Closed (with distance)	W20-5,5a	6H.07	36 x 36	48 x 48	30 x 30
Bike Lane Closed (with distance)	W20-5b	6P.01	36 x 36	—	30 x 30
Flagger (symbol)	W20-7	6H.15	36 x 36	48 x 48	30 x 30
Flagger	W20-7a	6H.15	36 x 36	48 x 48	30 x 30
Slow (on Stop/Slow Paddle)	W20-8	6D.02	18 x 18	—	—
Workers	W21-1,1a	6H.18	36 x 36	48 x 48	30 x 30
Fresh Oil	W21-2	6H.19	36 x 36	48 x 48	30 x 30
Road Machinery Ahead	W21-3	6H.20	36 x 36	48 x 48	30 x 30
Slow Moving Vehicle	W21-4	6N.05	36 x 18	—	—
Shoulder Work	W21-5	6H.22	36 x 36	48 x 48	30 x 30
Shoulder Closed	W21-5a	6H.22	36 x 36	48 x 48	30 x 30
Shoulder Closed (with distance)	W21-5b	6H.22	36 x 36	48 x 48	30 x 30
Survey Crew	W21-6	6H.23	36 x 36	48 x 48	30 x 30
Utility Work (with distance)	W21-7	6H.24	36 x 36	48 x 48	30 x 30
Mowing Ahead	W21-8	6N.05	36 x 36	48 x 48	30 x 30
Blasting Zone Ahead	W22-1	6H.25	36 x 36	48 x 48	30 x 30
End Blasting Zone	W22-3	6H.25	42 x 36	42 x 36	36 x 30
Slow Traffic Ahead	W23-1	6H.11	48 x 24	48 x 24	—
New Traffic Pattern Ahead	W23-2	6H.14	36 x 36	48 x 48	30 x 30
Double Reverse Curve (1 lane)	W24-1	6H.31	36 x 36	48 x 48	30 x 30
Double Reverse Curve (2 lanes)	W24-1a	6H.31	36 x 36	48 x 48	30 x 30
Double Reverse Curve (3 lanes)	W24-1b	6H.31	36 x 36	48 x 48	30 x 30
All Lanes (plaque)	W24-1cP	6H.31	24 x 18	30 x 24	—
Road Work Next XX Miles	G20-1	6H.35	36 x 18	48 x 24	—
End Road Work	G20-2	6H.36	36 x 18	48 x 24	—
Pilot Car Follow Me	G20-4	6H.37	36 x 18	—	—

\* See Table 2C-1 for minimum size required for signs facing traffic on multi-lane conventional roads

Notes:

1. Larger signs may be used wherever necessary for greater legibility or emphasis
2. Dimensions are shown in inches and are shown as width x height

## CHAPTER 6I. TTC ZONE GUIDE SIGNS

### Section 6I.01 Guide Signs – General

Support:

- 01 Guide signs along highways provide road users with information to help them along their way through the TTC zone. The design of guide signs is presented in Part 2.

Guidance:

- 02 *The following guide signs should be used in TTC zones as needed:*
- A. *Standard route markings where temporary route changes are necessary,*
  - B. *Directional signs and street name signs, and*
  - C. *Special guide signs relating to the condition or work being done.*

**Standard:**

- 03 **If additional temporary guide signs are used in TTC zones, they shall have a black legend and border on an orange background.**

Option:

- 04 Guide signs used in TTC incident management situations may have a black legend and border on a fluorescent pink background.
- 05 When temporary directional signs and temporary street name signs are used in conjunction with detour routing, these signs may have a black legend and border on an orange background.
- 06 When permanent directional signs or permanent street name signs are used in conjunction with detour signing, they may have a white legend on a green background (see Sections 2D.35 and 2D.45).
- 07 The sizes for TTC guide signs shall be as shown in Table 6I-1.

### Section 6I.02 Detour Signs and Plaques (M4-8P, M4-8a, M4-8bP, M4-9, M4-9a, M4-9b, M4-9c, and M4-10)

**Standard:**

- 01 **Each detour shall be adequately marked with standard temporary route signs and destination signs.**

Option:

- 02 Detour signs in TTC incident management situations may have a black legend and border on a fluorescent pink background.
- 03 The Detour Arrow (M4-10) sign (see Figure 6I-1) may be used where a detour route has been established.
- 04 The DETOUR (M4-8P) plaque (see Figure 6I-1) may be mounted at the top of a route sign assembly to mark a temporary route that detours from a highway, bypasses a section closed by a TTC zone, and rejoins the highway beyond the TTC zone.

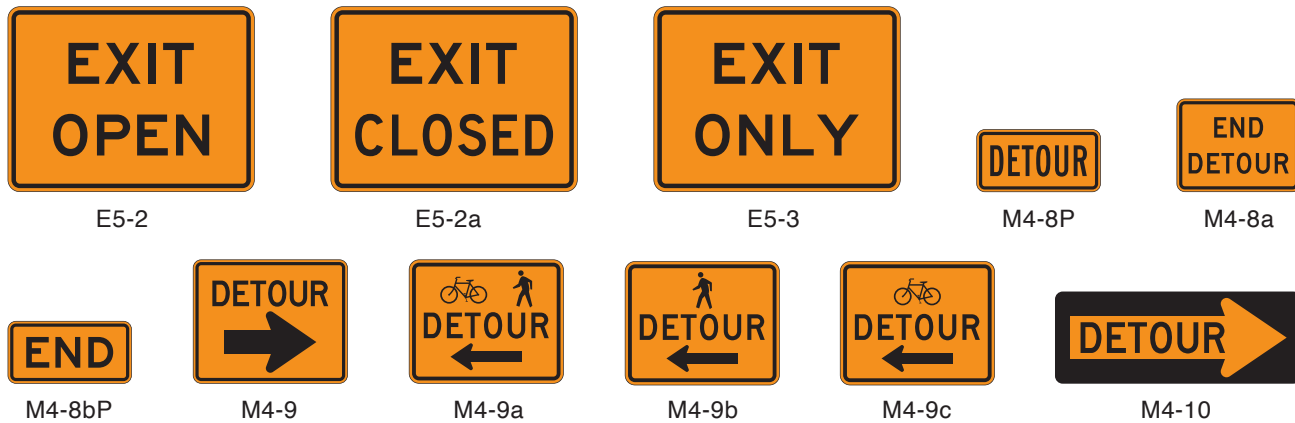
**Table 6I-1. Temporary Traffic Control Zone Guide Sign and Plaque Sizes**

Sign or Plaque	Sign Designation	Section	Conventional Road	Freeway or Expressway	Minimum
Exit Open	E5-2	6H.12	48 x 36	48 x 36	—
Exit Closed	E5-2a	6H.12	48 x 36	48 x 36	—
Exit Only	E5-3	6H.13	48 x 36	48 x 36	—
Detour	M4-8P	6I.02	24 x 12	30 x 15	—
End Detour	M4-8a	6I.02	24 x 18	24 x 18	—
End (plaque)	M4-8bP	6I.02	24 x 12	24 x 12	—
Detour	M4-9	6I.02	30 x 24	48 x 36	—
Bike/Pedestrian Detour	M4-9a	6I.02	30 x 24	—	—
Pedestrian Detour	M4-9b	6I.02	30 x 24	—	—
Bike Detour (with arrow)	M4-9c	6I.02	30 x 24	—	—
Detour	M4-10	6I.02	48 x 18	—	—

Notes:

1. Larger signs may be used wherever necessary for greater legibility or emphasis
2. Dimensions are shown in inches and are shown as width x height



**Figure 6I-1. Exit Open and Closed and Detour Signs and Plaques****Guidance:**

- 05 The Detour Arrow (M4-10) sign should normally be mounted just below the ROAD CLOSED (R11-2, R11-3a, or R11-4) sign. The Detour Arrow sign should include a horizontal arrow pointed to the right or left as required.
- 06 The DETOUR (M4-9) sign (see Figure 6I-1) should be used for unnumbered highways, for emergency situations, for periods of short durations, or where, over relatively short distances, road users are guided along the detour and back to the desired highway without route signs.
- 07 A Street Name sign should be placed above, or the street name should be incorporated into, a DETOUR (M4-9) sign to indicate the name of the street being detoured.

**Option:**

- 08 The END DETOUR (M4-8a) sign or the END (M4-8bP) plaque (see Figure 6I-1) may be used to indicate that the detour has ended.

**Guidance:**

- 09 When the END DETOUR sign is used on a numbered highway, the sign should be mounted above a route sign after the downstream end of the detour.
- 10 The Pedestrian/Bicyclist Detour (M4-9a) sign (see Figure 6I-1) should be used where a pedestrian/bicyclist detour route has been established because of the closing of a pedestrian/bicycle facility to through traffic.

**Standard:**

- 11 If used, the Pedestrian/Bicyclist Detour sign shall have an arrow pointing in the appropriate direction.

**Option:**

- 12 The arrow on a Pedestrian/Bicyclist Detour sign may be on the sign face or on a supplemental plaque.
- 13 The Pedestrian Detour (M4-9b) sign or Bicyclist Detour (M4-9c) sign (see Figure 6I-1) may be used where a pedestrian or a bicyclist detour route (not both) has been established because of the closing of the pedestrian or bicycle facility to through traffic.

**Section 6I.03 EXIT CLOSED Panel****Guidance:**

- 01 When an exit ramp is closed, an EXIT CLOSED sign panel with a black legend and border on an orange background should be placed diagonally across the interchange/intersection guide signs.


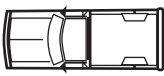







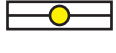









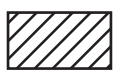

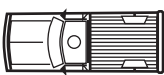

**Table 6P-1. Index to Typical Applications (Sheet 1 of 2)**

Typical Application Description	Typical Application Number
<b>Work Outside of the Shoulder (see Section 6N.05)</b>	
Work Beyond the Shoulder	TA-1
Blasting Zone	TA-2
<b>Work on the Shoulder (see Sections 6N.06 and 6N.07)</b>	
Work on the Shoulders	TA-3
Short-Duration or Mobile Operation on a Shoulder	TA-4
Shoulder Closure on a Freeway	TA-5
Shoulder Work with Minor Encroachment	TA-6
<b>Work within the Traveled Way of a Two-Lane Highway (see Section 6N.09)</b>	
Road Closed with a Diversion	TA-7
Roads Closed with an Off-Site Detour	TA-8
Overlapping Routes with a Detour	TA-9
Lane Closure on a Two-Lane Road Using Flaggers	TA-10
Lane Closure on a Two-Lane Road with Low Traffic Volumes	TA-11
Lane Closure on a Two-Lane Road Using Traffic Control Signals	TA-12
Temporary Road Closure	TA-13
Haul Road Crossing	TA-14
Work in the Center of a Road with Low Traffic Volumes	TA-15
Surveying Along the Center Line of a Road with Low Traffic Volumes	TA-16
Mobile Operations on a Two-Lane Road	TA-17
<b>Work within the Traveled Way of an Urban Street (see Section 6N.10)</b>	
Lane Closure on a Minor Street	TA-18
Detour for One Travel Direction	TA-19
Detour for a Closed Street	TA-20
<b>Work within the Traveled Way at an Intersection and on Sidewalks (see Section 6N.12)</b>	
Lane Closure on the Near Side of an Intersection	TA-21
Right-Hand Lane Closure on the Far Side of an Intersection	TA-22
Left-Hand Lane Closure on the Far Side of an Intersection	TA-23
Half Road Closure on the Far Side of an Intersection	TA-24
Multiple Lane Closures at an Intersection	TA-25
Closure in the Center of an Intersection	TA-26
Closure at the Side of an Intersection	TA-27
Sidewalk Detour or Diversion	TA-28
Crosswalk Closures and Pedestrian Detours	TA-29
<b>Work within the Traveled Way of a Multi-Lane, Non-Access Controlled Highway (see Section 6N.11)</b>	
Interior Lane Closure on a Multi-Lane Street	TA-30
Lane Closure on a Street with Uneven Directional Volumes	TA-31
Half Road Closure on a Multi-Lane, High-Speed Highway	TA-32
Stationary Lane Closure on a Divided Highway	TA-33
Lane Closure with a Temporary Traffic Barrier	TA-34
Mobile Operation on a Multi-Lane Road	TA-35

**Table 6P-1. Index to Typical Applications (Sheet 2 of 2)**

Typical Application Description	Typical Application Number
<b>Work within the Traveled Way of a Freeway or Expressway (see Section 6N.13)</b>	
Lane Shift on a Freeway	TA-36
Double Lane Closure on a Freeway	TA-37
Interior Lane Closure on a Freeway	TA-38
Median Crossover on a Freeway	TA-39
Median Crossover for an Entrance Ramp	TA-40
Median Crossover for an Exit Ramp	TA-41
Work in the Vicinity of an Exit Ramp	TA-42
Partial Exit Ramp Closure	TA-43
Work in the Vicinity of an Entrance Ramp	TA-44
Temporary Reversible Lane Using Movable Barriers	TA-45
<b>Work in the Vicinity of a Grade Crossing (see Section 6N.17)</b>	
Work in the Vicinity of a Grade Crossing	TA-46
<b>Work in the Vicinity of Bicycle Lanes and Shared Use Paths (see Section 6N.04)</b>	
Bicycle Lane Closure without a Detour	TA-47
Bicycle Lane Closure with an On-Road Detour	TA-48
Shared-Use Path Closure with a Diversion	TA-49
On-Road Detour for a Shared-Use Path	TA-50
Paved Shoulder Closure with a Bicycle Diversion onto a Temporary Path	TA-51
<b>Work in the Traveled Way of Roundabouts</b>	
Short-Term or Short-Duration Work in a Circular Intersection	TA-52
Flagging Operation on a Single-Lane Circular Intersection	TA-53
Inside Lane Closure on a Multi-Lane Circular Intersection	TA-54

**Table 6P-2. Meaning of Symbols on Typical Application Diagrams**

	Arrow board		Shadow vehicle
	Arrow board support or trailer (shown facing down)		Sign (shown facing left)
	Changeable message sign or support trailer		Surveyor
	Channelizing device		Temporary barrier
	Crash cushion		Temporary barrier with warning light
	Direction of temporary traffic detour		Traffic or pedestrian signal
	Direction of travel		Truck-mounted attenuator
	Flagger		Type 3 barricade
	High-level warning device (Flag tree)		Warning light
	Longitudinal channelizing device		Work space
	Luminaire		Work vehicle
	Pavement markings that should be removed for a long-term project		



**Notes for Figure 6P-18—Typical Application 18**  
**Lane Closure on a Minor Street**

**Standard:**

1. This TTC shall be used only for low-speed facilities having low traffic volumes.

**Option:**

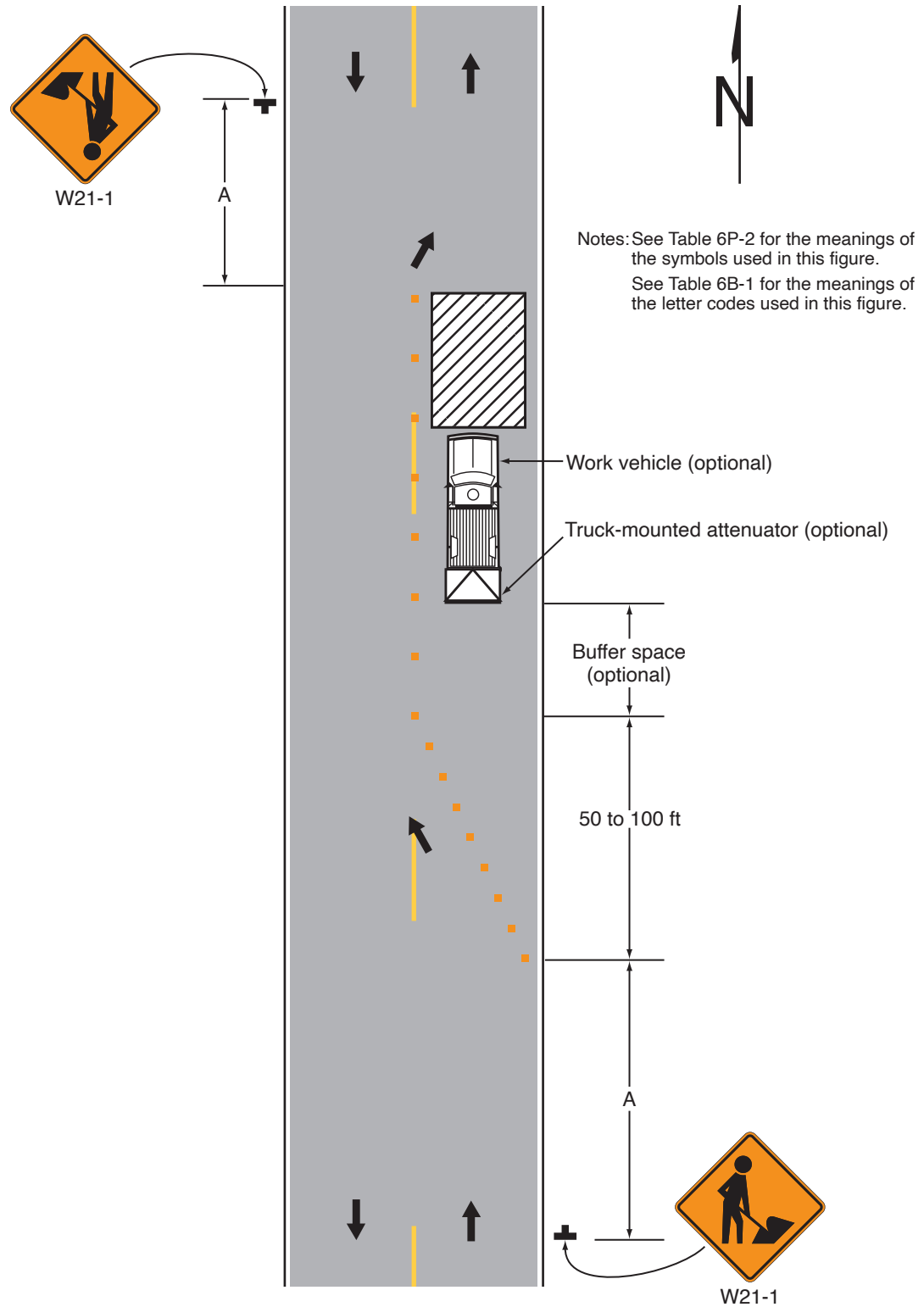
2. Where the work space is short, where road users can see the roadway beyond, and where volume is low, vehicular traffic may be self-regulating.

**Standard:**

3. Where vehicular traffic cannot effectively self-regulate, one or two flaggers shall be used as illustrated in Figure 6P-10.

**Option:**

4. Flashing warning lights and/or flags may be used to call attention to the advance warning signs.
5. A truck-mounted attenuator may be used on the work vehicle and the shadow vehicle.
6. Positive protection devices may be used per Section 6M.02.

**Figure 6P-18. Lane Closure on a Minor Street (TA-18)****Typical Application 18**

## Notes for Figure 6P-20—Typical Application 20

### Detour for a Closed Street

#### Guidance:

1. *This plan should be used for streets without posted route numbers.*
2. *On multi-lane streets, Detour signs with an Advance Turn Arrow should be used in advance of a turn.*

#### Option:

3. Flashing warning lights and/or flags may be used to call attention to the advance warning signs.
4. Flashing warning lights may be used on Type 3 Barricades.
5. Detour signs may be located on the far side of intersections. A Detour sign with an advance arrow may be used in advance of a turn.
6. A Street Name sign may be mounted with the Detour sign. The Street Name sign may be either white on green or black on orange.

#### Standard:

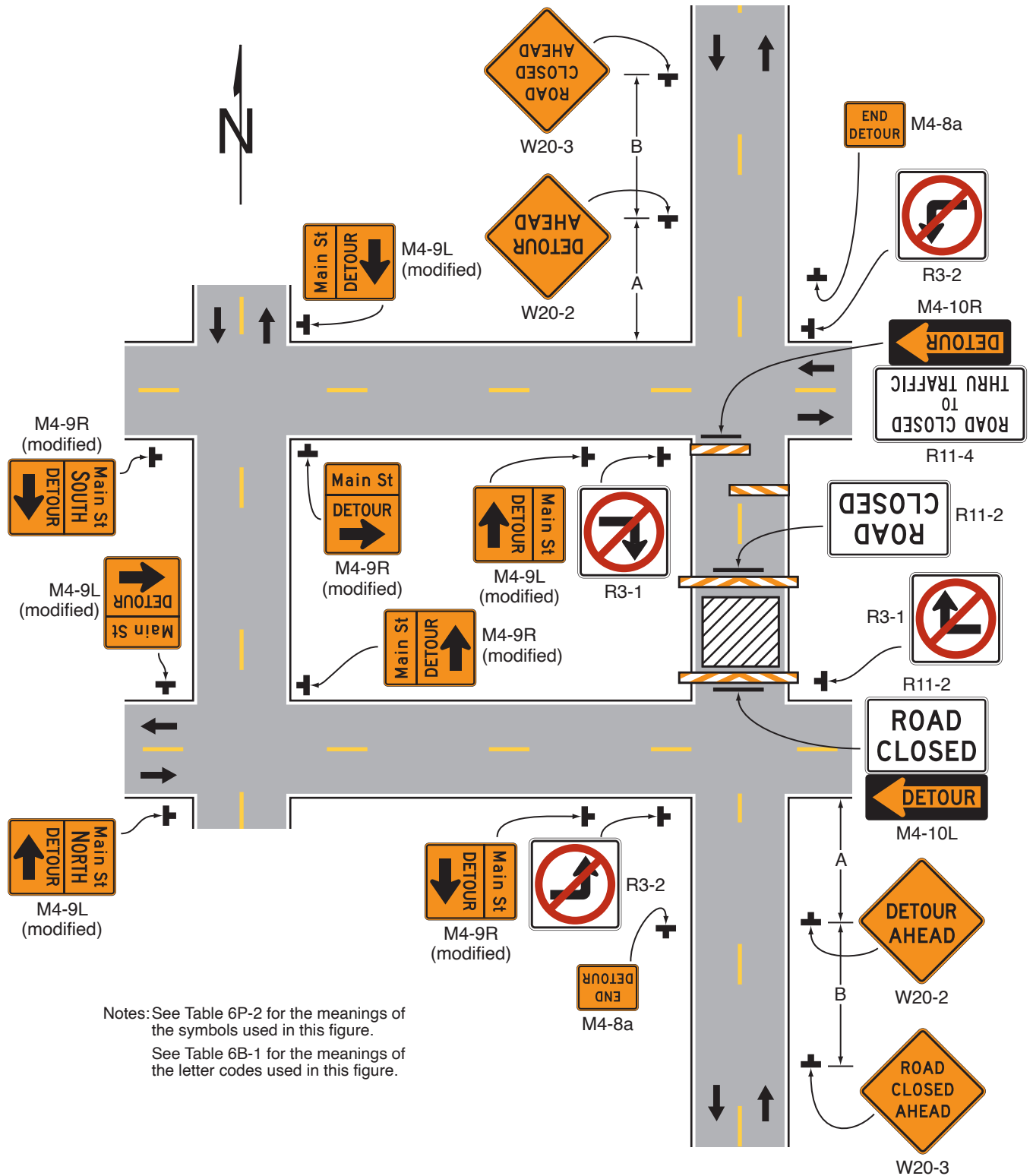
7. **When used, the Street Name sign shall be placed above the Detour sign.**

#### Support:

8. Figure 6P-9 contains the information for detouring a numbered highway.



Figure 6P-20. Detour for a Closed Street (TA-20)



Typical Application 20

SHEET NO.	CONTENTS
General Notes:	
1	Sheet List Table
2	General, TL-3 Guardrail - Installed Plan and Elevation
3	Low-Speed, TL-2 Guardrail - Installed Plan and Elevation
4	W-Beam and Thrie-Beam Panel Details
5	Post and Offset Block Details
6	Guardrail Sections - Heights and Adjacent Slopes
7	End Treatment - Approach Terminal Geometry, Parallel and Flared
8	End Treatment - Component Details
9	Trailing End Anchorage
10	Layout for CRT System - Side Roads and Driveways
11	Approach Transition Connection to Rigid Barrier - TL-3
12	Approach Transition Connection to Rigid Barrier - TL-2
13	Approach Transition Connection to Flexible Barrier
14	Other Details

GENERAL NOTES:

1. INSTALLATION: Construct guardrail in accordance with Specification Section 704.

This Standard Plan, along with the plans and the manufacturers' drawings is sufficiently detailed for installation of General Guardrail, Low-Speed Guardrail, End Treatment assemblies, and their connecting options shown herein.

2. COMPATIBILITY: The General Guardrail in this Index is based on the Midwest Guardrail System (MGS) design, with a 31" height at the top of the Panel (2'-1" mounting height at  $\mathcal{Q}$  of Panel) and a midspan panel splice as shown on Sheet 2. Guardrail components included on the QPL, which are compatible with these plans, may also be identified as 31" or MGS Guardrail.

3. STANDARD COMPONENTS: Standard guardrail components, including posts, panels, and bolt systems, are based upon English unit conversions of the AASHTO-AGC-ARTBA Joint Committee Task Force 13 Report: A Guide to Standardized Highway Barrier Hardware (<http://www.aashtottf13.org/Barrier-Hardware.php>).

4. BUTTON-HEAD BOLTS: Install Button-Head Bolts where indicated using bolts, nuts, and washers as defined on Sheet 22. Place washers under nuts; washers are optional against steel flanges. Do not place washers between bolt heads and panels, except where otherwise shown in this Index.

5. HEX-HEAD BOLTS: Install Hex-Head Bolts where indicated using bolts, nuts, and washers in accordance with material properties of Specification Section 1010.10. Place washers under nuts; washers are optional against steel flanges.

6. INCIDENTAL PAVING: Install Incidental Pavement where indicated in accordance with Specification Section 706.

7. ADJACENT SIDEWALKS & SHARED USE PATHS: When guardrail posts are placed within 4'-0" of a sidewalk or shared use path, use timber posts, or use steel posts only if treated with Pipe Rail.

When timber posts are used, one of the following safety treatments is required for the bolt(s) protruding from the back face of the posts:

- a. After tightening the nut, trim the protruding post bolt flush with the nut and galvanize per Specification Section 1010.10.
- b. Use post bolts 15" in length and countersink the washer and nut between 1" and  $1\frac{1}{2}$ " deep into the back face of the post.
- c. Use 15" post bolts with sleeve nuts and washers.

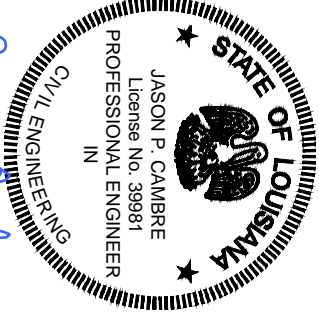
When End Treatment posts are within 4'-0" of a sidewalk or shared use path, steel posts are not permitted within the End Treatment segment. Terminate the Pipe Rail outside of End Treatment segments.

8. CONNECTION TO RIGID BARRIER: The connections to Rigid Barrier in this Index only apply to newly constructed bridge Traffic Railing and Concrete Barrier or where the complete Approach Transition Connection to Rigid Barrier shown herein can be installed without conflicting with existing Traffic Railings, structures, or approach slabs.

9. CONNECTION TO EXISTING GUARDRAIL: Where a transition to existing guardrail at 27" height is required, linearly transition the guardrail height over a distance ranging from 25'-0" to 31'-3". Provide an immediate transition to the required mid-span splice using the available panel options on Sheet 4 ( $9'-4\frac{1}{2}$ " or  $15'-7\frac{1}{2}$ " panel).

10. PLAN CALLOUTS: Begin/End Station labels are shown throughout this Index as they correspond to the station and offset callouts specified in the plans.

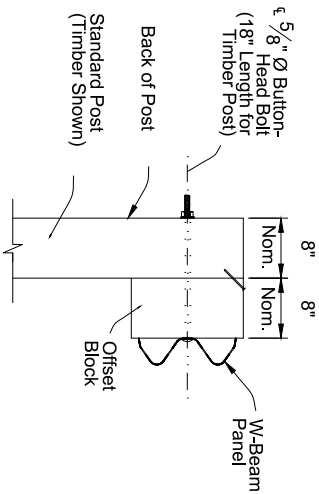
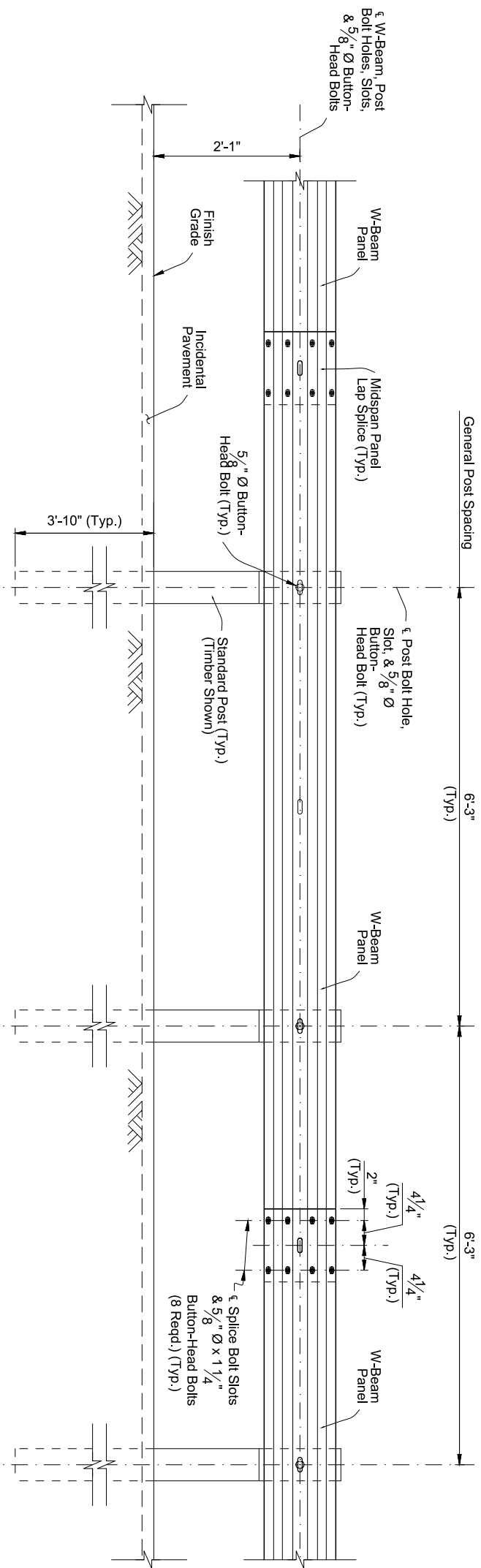
11. QUANTITY MEASUREMENT: Measure guardrail and corresponding components as defined in Specification Section 704. The Guardrail length is measured along the centerline of installed Panels, between the points labeled Begin/End Guardrail Station shown on the following standard plan sheets and defined in the plans (typically measured from the  $\mathcal{Q}$  of the panel's post bolt slots at the approach/trailing ends).



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08/22/18



Rev. No	Date	Description



GENERAL GUARDRAIL  
INSTALLED ELEVATION

INSTALLED SECTION

NOTES:

1. GENERAL: Install the General Guardrail configuration where indicated in the plans. This may include tapered segments if called for in the plans.

Use 12'-6" or 25'-0" W-Beam Panels. A single 6'-3" Panel may be used at the end of the run to meet the nominal Begin/End Guardrail Sta. requirements.

Where a differing guardrail configuration is required for constructability beyond the options shown in this Index or the plans, obtain approval from the Engineer prior to installation.

2. MIDSPAN PANEL LAP SPLICE: For proper structural function, place all Lap Splices at midspan unless otherwise indicated.

Lap the Panels with the Splice Ridge oriented downstream of the final Direction of Traffic in the nearest traffic lane. For reverse lane conditions, orient the Splice Ridge downstream of the lane direction with the highest traffic volume. Orienting Lap Splices for Temporary Traffic Control phasing is not required.

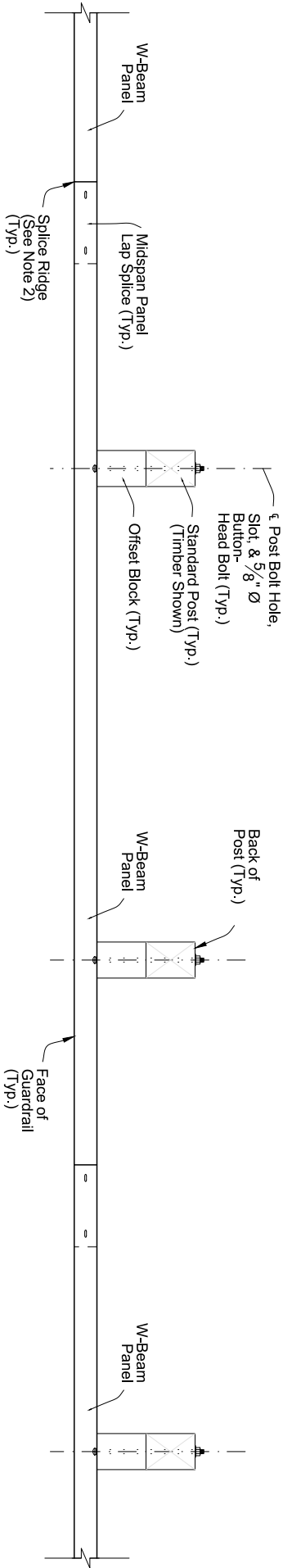
3. CONNECTION DETAILS: Connections to End Treatments, Approach Transitions, or other segment types are defined in the following Standard Plans.

4. GUARDRAIL SECTIONS: For Sections showing typical mounting heights, grading, and lateral offsets in relation to adjacent roadway features, see Sheet 6.

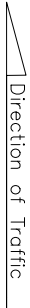
5. MODIFIED MOUNTS: Where concrete structures, concrete sidewalk, or shallow depth conditions are encountered, alternate post mounting options will be required.

6. DEFINED SEGMENTS: The General Guardrail shown provides the base configuration, including Post Spacing and splice locations, for Defined Segment modifications where indicated in the plans and using the Guardrail Types, Sections, and/or hardware as shown in these plans (e.g. Double Faced W-Beam, Modified Thrie-Beam, Deep Posts at Slope Breaks, Pipe Rail, Rub Rail, or Reduced Post Spacing for Hazards).

GENERAL, TL-3 GUARDRAIL DETAILS

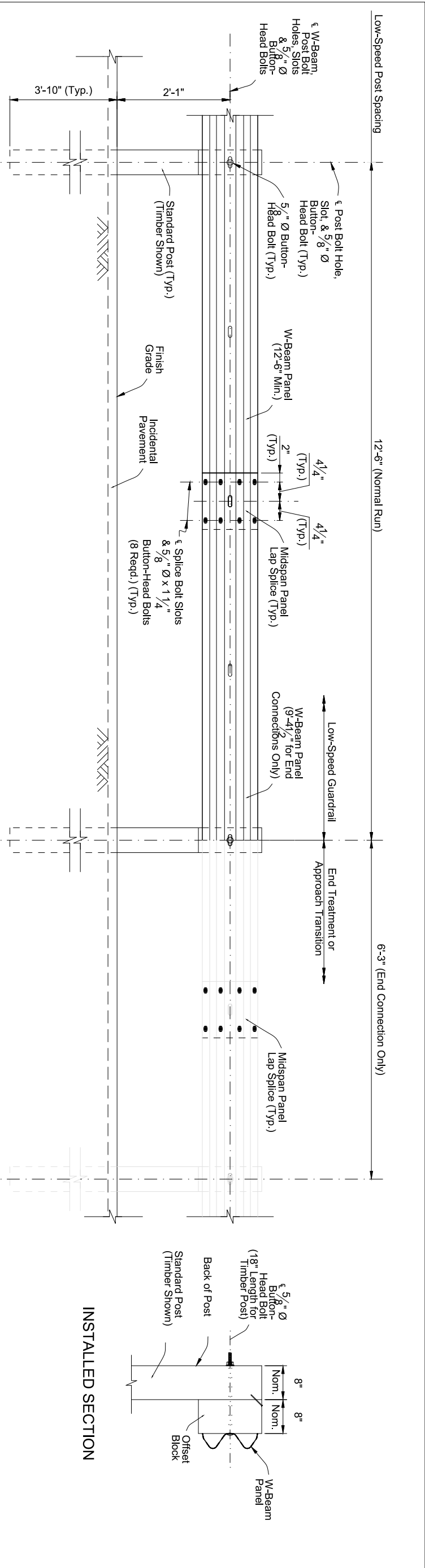


INSTALLED PLAN

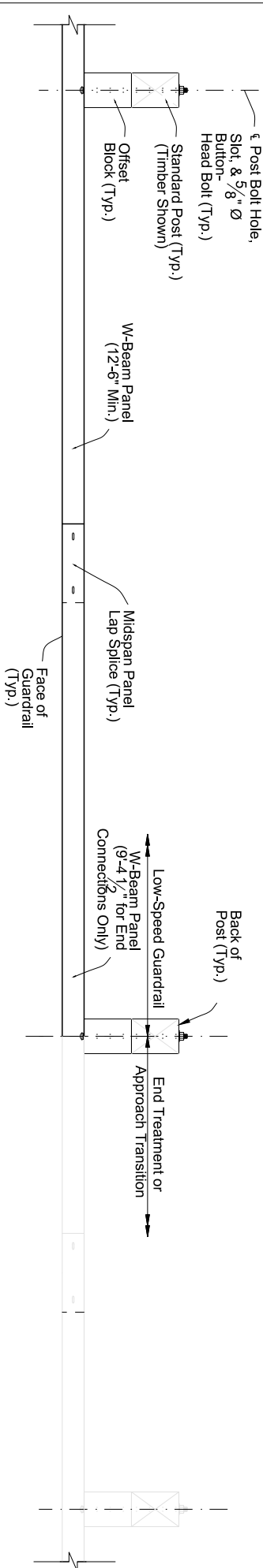


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08/22/18

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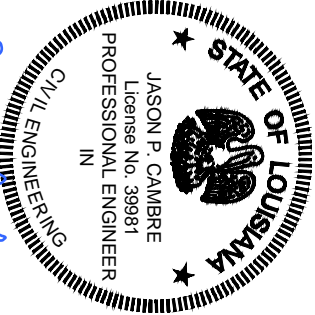


LOW-SPEED GUARDRAIL  
INSTALLED ELEVATION



INSTALLED PLAN

1. GENERAL: Install the Low-Speed Guardrail configuration where indicated in the plans. Low-Speed Guardrail may include tapered segments if called for in the plans.
- Use 12'-6" or 25'-0" W-Beam Panels for normal spans, and use 9'-4 1/2' Panels for end connections to adjoining segments as shown. A single 6'-3" Panel may be used at the end of the Low-Speed Guardrail run along with a single reduced 6'-3" post spacing to meet the nominal Begin/End Guardrail Sta. required.
- Where a differing guardrail configuration is required for constructability beyond the options shown in this Index or the Plans, obtain approval from the Engineer prior to installation.
2. MIDSPAN PANEL LAP SPLICE: For proper structural function, place all Lap Splices at midspan unless otherwise indicated.
- Lap the Panels with the Splice Ridge oriented downstream of the final Direction of Traffic in the nearest traffic lane. For reverse lane conditions, orient the Splice Ridge downstream of the lane direction with the highest traffic volume. Orienting Lap Splices for Temporary Traffic Control phasing is not required.
3. CONNECTION DETAILS: Connections to End Treatments, Approach Transitions, or other segment types are defined in the following plans.
4. GUARDRAIL SECTIONS: For Sections showing typical mounting heights, grading, and lateral offsets in relation to adjacent roadway features, see Sheet 6.
5. MODIFIED MOUNTS: Where concrete structures, concrete sidewalk, or shallow depth conditions are encountered, see Sheet 21 for additional post mounting options.
6. RESTRICTIONS: Low-Speed Guardrail segments are not permitted for use with items including, but not limited to, Double Faced W-Beam, Modified Three-Beam, Deep Posts at Slope Breaks, Pipe Rail, and/or Rub Rail.
- LOW-SPEED, TL-2 GUARDRAIL DETAILS



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08/22/18

GUARDRAIL (31-INCH MGS)  
LOW-SPEED, TL-2 GUARDRAIL

Project No.	N/A
Date	8/21/2018
Scale	NTS
Drawn By	JPC

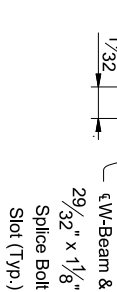
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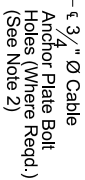
St. Tammany Parish  
Department of Engineering  
P.O. Box 628 Covington, La. 70434  
Phone: (985) 898-2552  
Fax: (985) 875-2616

Rev. No	Date	Description

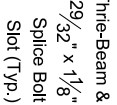




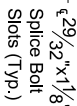
Varies (3'-1 1/2", 6'-3", 12'-6" or 25'-0")



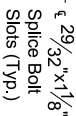
Panel Type	Number of Spaces N <sup>1</sup>	Gauge
6-3" W-Beam	2	12
9-4 $\frac{1}{2}$ " W-Beam	3	12
12-6" W-Beam	4	12
15-7 $\frac{1}{2}$ " W-Beam	5	12
25-0" W-Beam	8	12
3-1 $\frac{1}{2}$ " Thrie-Beam	1	10
6-3" Thrie-Beam	2	12
12-6" Thrie-Beam	4	12
25-0" Thrie-Beam	8	12
Thrie-Beam Trans.	2	10



THREE-BEAM TRANSITION PANEL ELEVATION  
(Reverse Direction Similar by Opposite Hand)



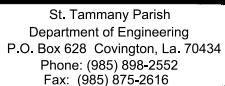
THREE-BEAM PANEL ELEVATION



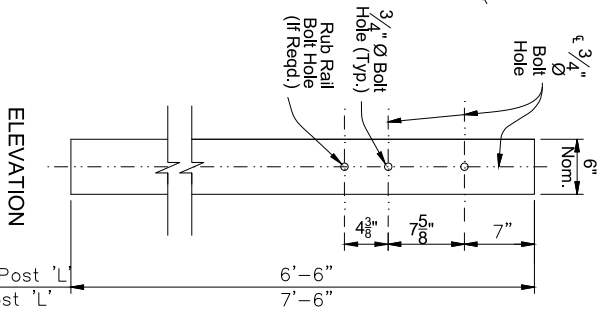
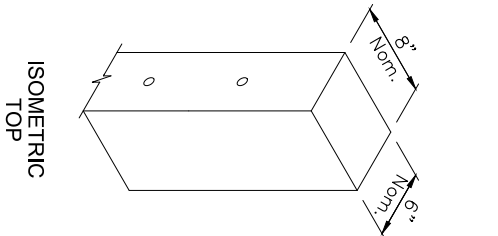
**NOTES:**

- 1. MATERIALS:**  
Use corrugated steel panels in accordance with Specification Section 1010.08 and made from either 12 gauge steel or 10 gauge steel as specified in the Panel Summary Table above.
- 2. CABLE ANCHOR PLATE BOLT HOLES:**  
Include  $\frac{3}{4}$ " Ø Cable Anchor Plate Bolt Holes only where required for installation of the Cable Anchor Plate.

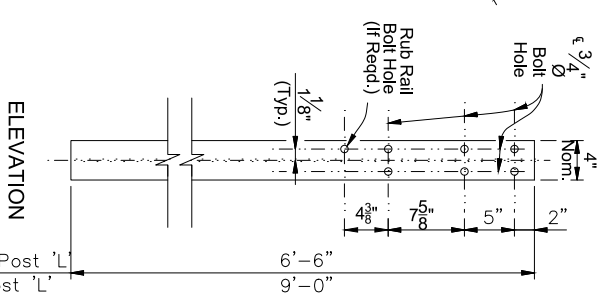
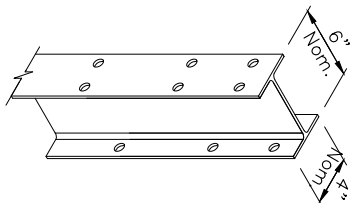
29/  $\frac{3}{32}$ " x  $\frac{1}{8}$ " slots may substitute for the  $\frac{3}{4}$ " Ø holes shown.



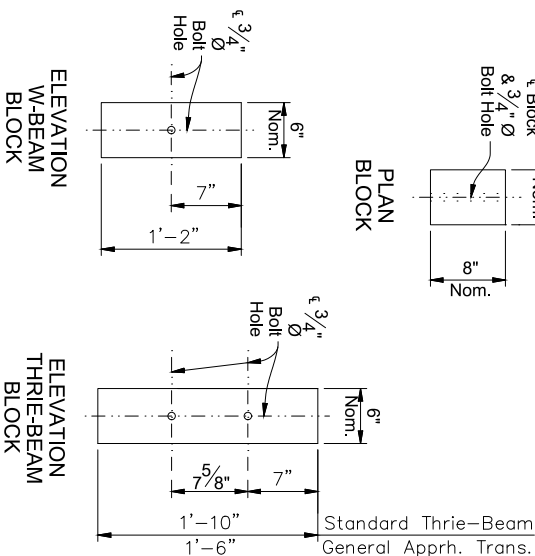
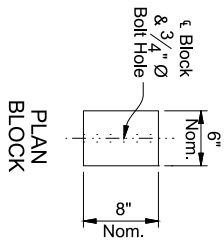
GUARDRAIL (31-INCH MGS)  
W-BEAM AND THRIE-BEAM PANEL DETAILS



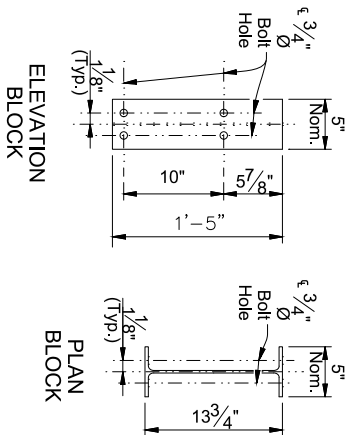
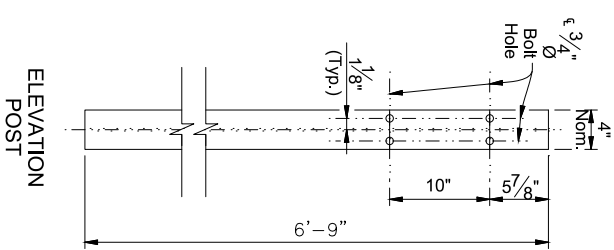
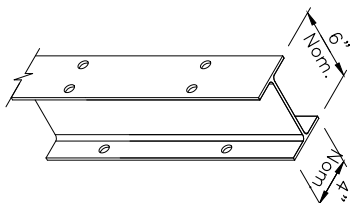
TIMBER POST  
(6\"/>



STEEL POST  
(W6X8.5 or W6X9)



TIMBER OFFSET BLOCK  
(6\"/>

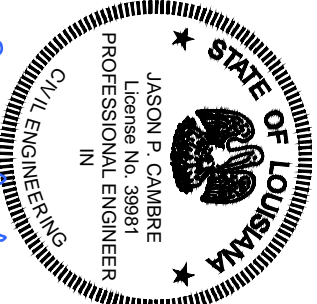
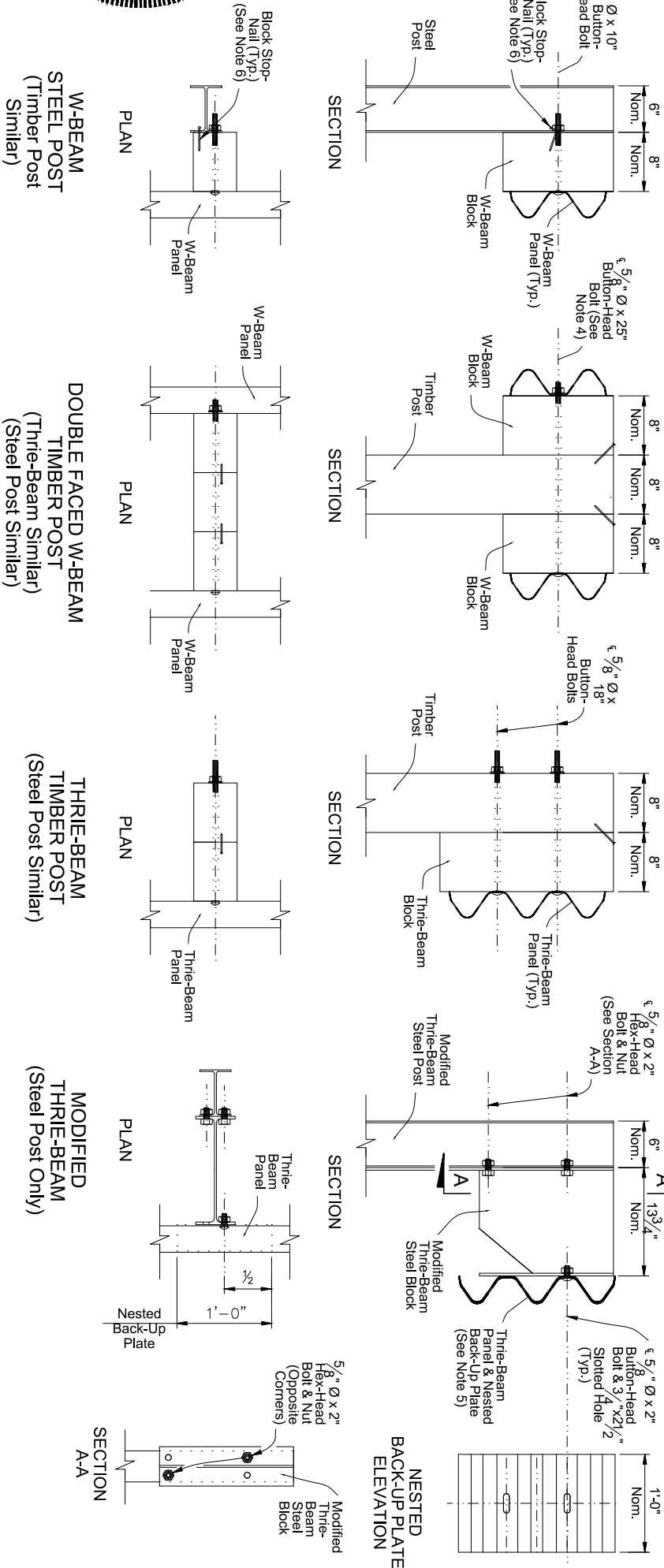


MODIFIED THRIE-BEAM SYSTEM  
(W6X8.5 or W6X9 Steel Post & W14X22 Steel Block)

NOTES:

1. GENERAL: Install Posts and Offset Blocks where indicated throughout this index.
2. OFFSET BLOCKS: For each Panel type, install the corresponding Offset Block type. For General, TL-3 (Single Face) Approach Transitions only, use the 1-6\"/>
3. STANDARD POSTS: Where Standard Posts are called for in this index, use either a Timber Post or Steel Post at the Length, L, shown for Standard Posts. Use a single post material type consistently per each run of guardrail. Only where specified in the Plans, use the Deep Post L for Slope Break Conditions as shown on Sheet 6.
4. DOUBLE FACED GUARDRAIL: Orient Post Bolts with the Button-Head located on the side nearest the traffic lane. The bolt's threaded portion is not permitted to extend beyond 3/4\"/>
5. MODIFIED THRIE-BEAM NESTED BACK-UP PLATE: At each post connection, install a Nested Back-up Plate between the Thrie-Beam Panel and the post. The Nested Back-up Plate has a cross-section and material matching the Thrie-Beam Panel Section.
6. BLOCK STOP-NAIL: Drive one nail per Standard Offset Block as shown to prevent Block rotation. Use steel 3 1/2\"/>
7. MATERIALS: Use timber and steel posts and offset blocks in accordance with Specification Section 967. Composite offset blocks may be substituted as approved on the APL. Use a single offset block type consistently per each run of guardrail. Steel offset blocks are only permitted for Modified Thrie Beam.

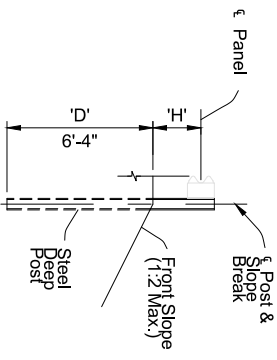
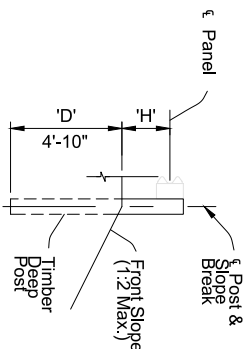
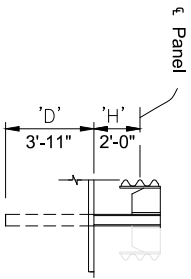
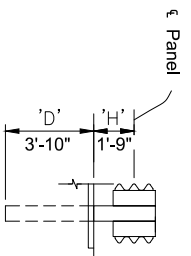
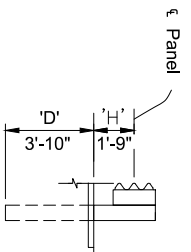
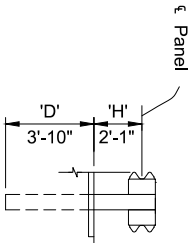
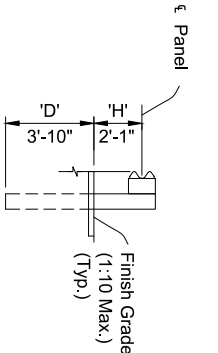
POST AND OFFSET BLOCK DETAILS



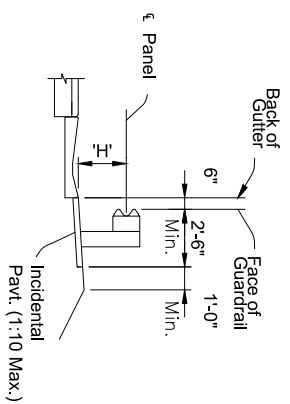
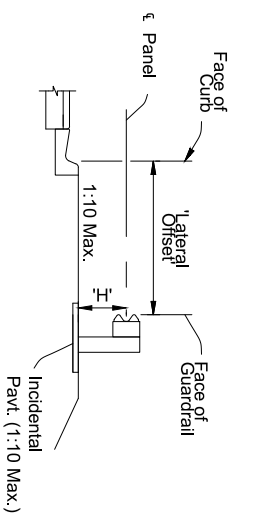
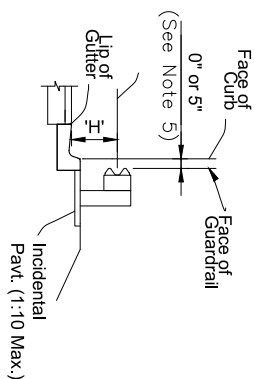
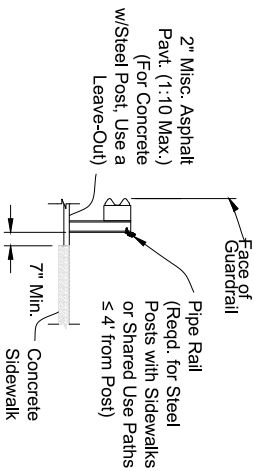
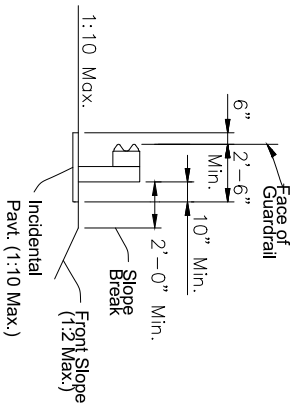
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08/22/18



Rev. No	Date	Description



### GUARDRAIL TYPES - MOUNTING HEIGHTS & POST DEPTHS



### TYPICAL GRADING & PAVT. PLACEMENT DETAIL

### TYPICAL SIDEWALK DETAIL

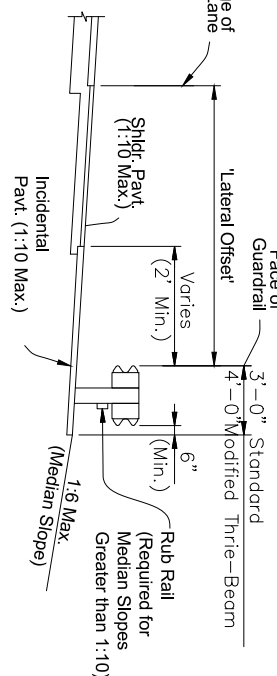
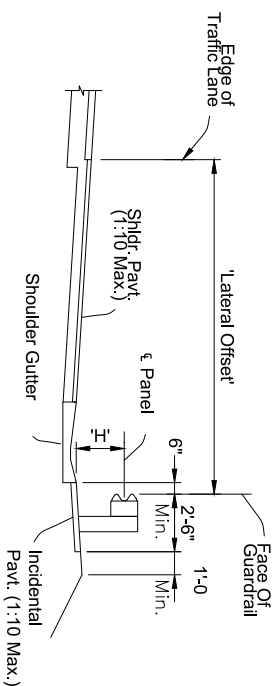
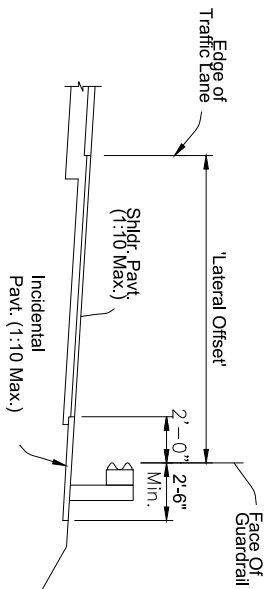
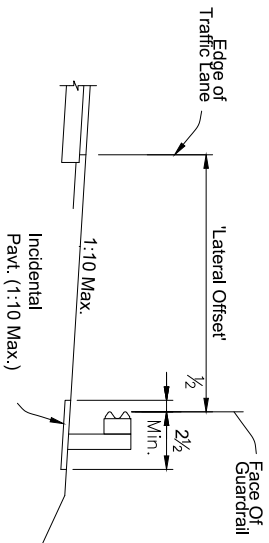
### ADJACENT TO CURB

### BEHIND CURB

### ADJACENT TO SHOULDER GUTTER

### GUARDRAIL SECTIONS - TYPICAL

### GUARDRAIL SECTIONS - CURB & GUTTER



### GUARDRAIL SECTIONS - SHOULDERS

#### NOTES:

1. GUARDRAIL SECTIONS: Construct Sections as indicated in the plans. The details shown herein depict W-Beam Guardrail, but are applicable to the other defined Guardrail Types placed at the corresponding height, "H". Use components per Sheets 4 & 5. Steel and timber post types are interchangeable unless otherwise defined.

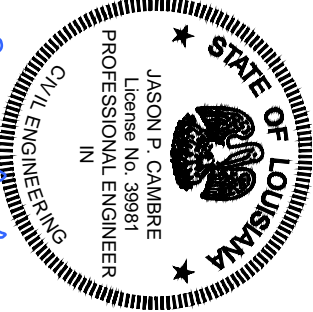
2. TYPICAL GRADING & PAVEMENT PLACEMENT DETAIL: Construct features as depicted except where superseded by specific Guardrail Sections or the plans. Place the Slope Break a Minimum of 2' behind the post. For Deep Posts, the slope break may be placed at the Ɛ Post with the Incident Paving omitted.

3. SLOPE BREAK CONDITION: Install Deep Posts only where called for in the plans. Deep Posts are only permitted where post spacing is 6'-3" or less.

4. LATERAL OFFSETS: The Lateral Offsets shown are governed by the station and offset call outs for Face of Guardrail, as shown in the plans.

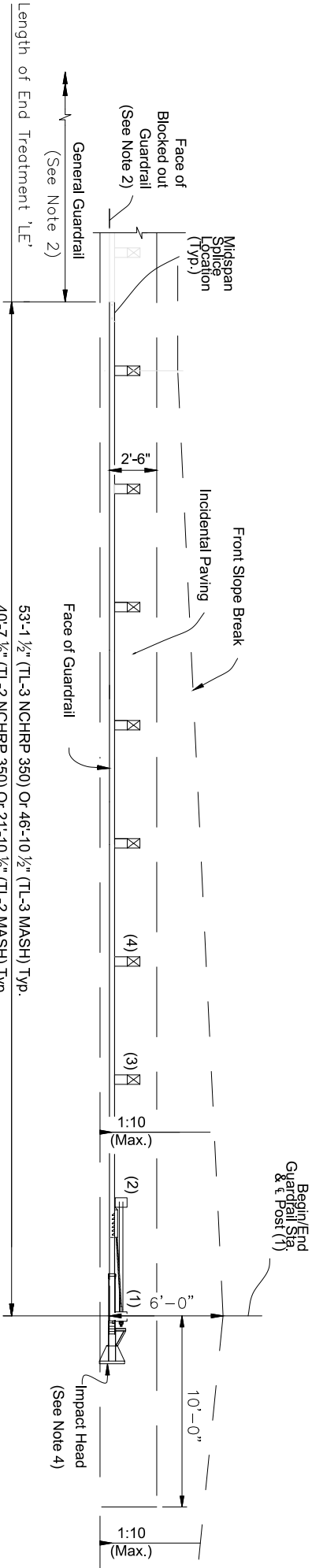
5. ADJACENT TO CURB: Place the Face of Guardrail consistently offset either flush with the Face of Curb or 5" behind the Face of Curb, as indicated by the plans station and offset callout. For offset changes, transition the Face of Guardrail as shown in the plans.

GUARDRAIL HEIGHT SUMMARY TABLE:			
Type:	Min. Depth "D":	Mounting Height "H":	Post Length "L":
W-Beam (Single and Double Faced)	3'-10"	2'-1"	6'-6"
Triple-Beam (Single and Double Faced)	3'-10"	1'-9"	6'-6"
Modified Triple-Beam	3'-11"	2'-0"	6'-9"
Timber Deep Post	4'-10"	See Above	7'-6"
Steel Deep Post	6'-4"	See Above	9'-0"



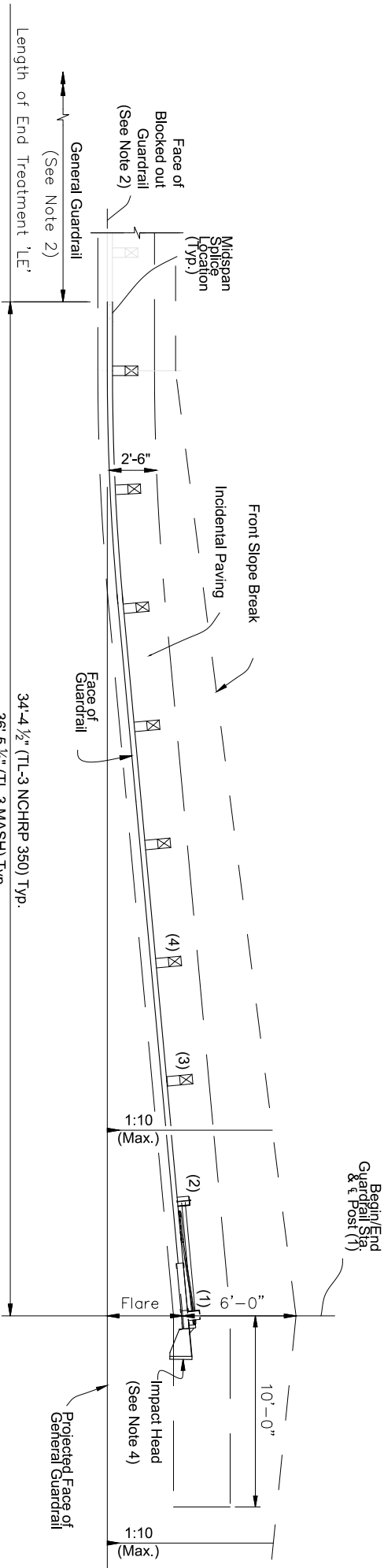
Jason Cambre  
08/22/18



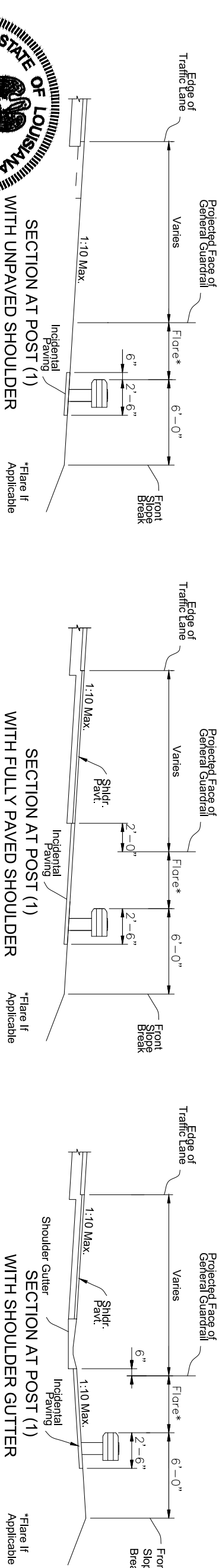


53'-1 1/2" (TL-3 NCHRP 350) Or 46'-10 1/2" (TL-3 MASH) Typ.  
40'-7 1/2" (TL-2 NCHRP 350) Or 21'-10 1/2" (TL-2 MASH) Typ.

APPROACH TERMINAL ASSEMBLY  
TANGENT SEGMENT - PLAN VIEW



APPROACH TERMINAL ASSEMBLY  
FLARED SEGMENT - PLAN VIEW



END TREATMENT - APPROACH TERMINAL GEOMETRY TANGENT AND FLARED

NOTES:

1. INSTALLATION: Locate Approach Terminals where called for in the plans, with the Post (1) placed at the Begin/End Guardrail Station indicated in the plans.

The Plan Views shown herein are schematic only, showing basic geometry for Approach Terminals. The predefined Length of End Treatment, "LE", includes the proprietary portion of various Approach Terminals and provides for more consistent planning of assembly installations across the differing Approach Terminal types. Forward-anchoring style Approach Terminals may vary from the planned lengths shown.

Construct Approach Terminals in accordance with the manufacturer's unique drawing details, procedures, and specifications. Install adjacent grading, gutters, and/or curbing as shown herein, unless otherwise specified in the plans.

The proprietary Approach Terminals represented are intended for use as End Treatments for General and Low-Speed Guardrail, as indicated in the plans.

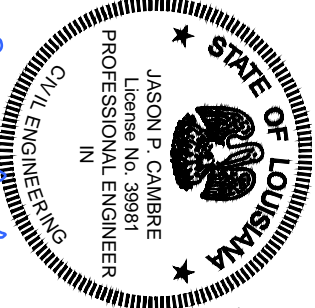
2. GENERAL GUARDRAIL: General Guardrail typically includes Panels and Post Spacing as shown on Sheet 2, including parallel and tapered segments.

Approach Transitions, Low-Speed Guardrail, or Reduced Post Spacing Guardrail segments may be substituted for the General Guardrail shown herein if indicated in the plans.

3. APPROACH TERMINAL TEST LEVEL: Install either a Test Level 3 (TL-3 NCHRP 350) or Test Level 2 (TL-2 NCHRP 350) Approach Terminal as specified in the plans. If not specified in plans, install TL-3 Approach Terminal. TL-3 Approach Terminals may substitute for TL-2 Approach Terminals unless the substitution is specifically prohibited in the plans. TL-2 Approach Terminals may not substitute for TL-3 installations. MASH Approach Terminals may substitute for NCHRP 350 installations or may be required if specified in plans.

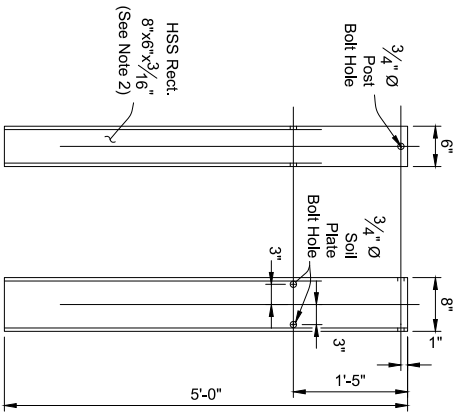
4. IMPACT HEAD END DELINEATOR: Apply Yellow Retroreflective Sheeting to the nose of the End Terminal.

5. INCIDENTAL PAVING: The Plan Views shown herein depict the Unpaved Shoulder condition. For Fully Paved Shoulder and Shoulder Gutter conditions, extend the Incidental Pavement as shown in the corresponding "Section at Post (1)" details below. See Pavement Leave Out Detail for Posts.



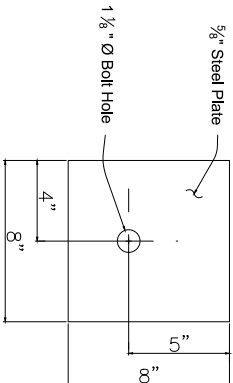
Jason Cambre  
06/10/19



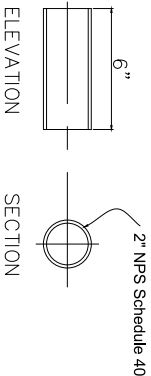


ELEVATION SECTION  
STEEL TUBE FOUNDATION

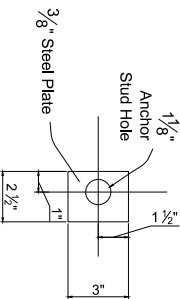
ELEVATION SECTION  
SHORT TIMBER BREAKAWAY POST  
(6"x8" Nom.)



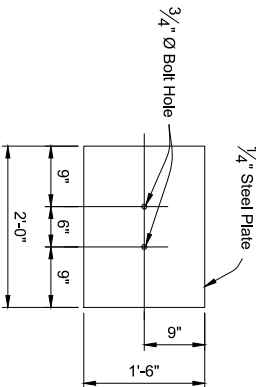
SECTION  
BEARING PLATE



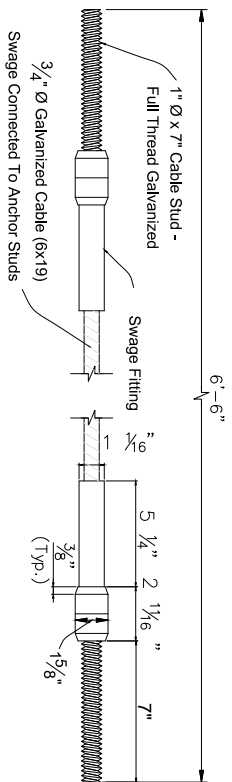
ELEVATION SECTION  
BREAKAWAY TERMINAL  
POST SLEEVE



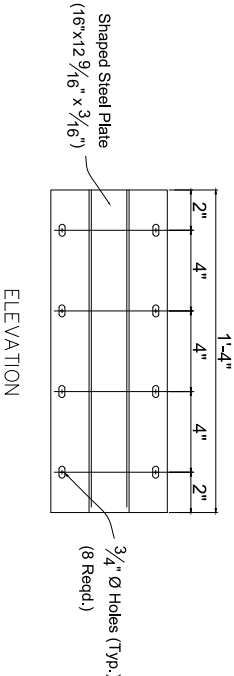
SECTION  
STEEL END PLATE



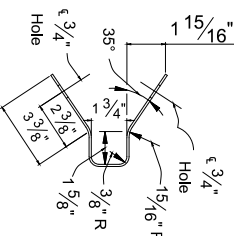
SECTION  
SOIL PLATE



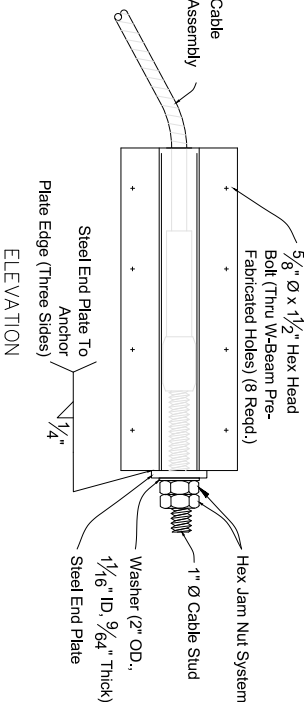
ELEVATION  
CABLE ASSEMBLY



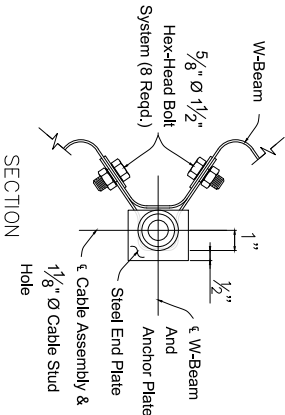
ELEVATION  
CABLE ANCHOR PLATE



SECTION



ELEVATION  
CABLE ANCHOR PLATE ASSEMBLY



SECTION

### NOTES:

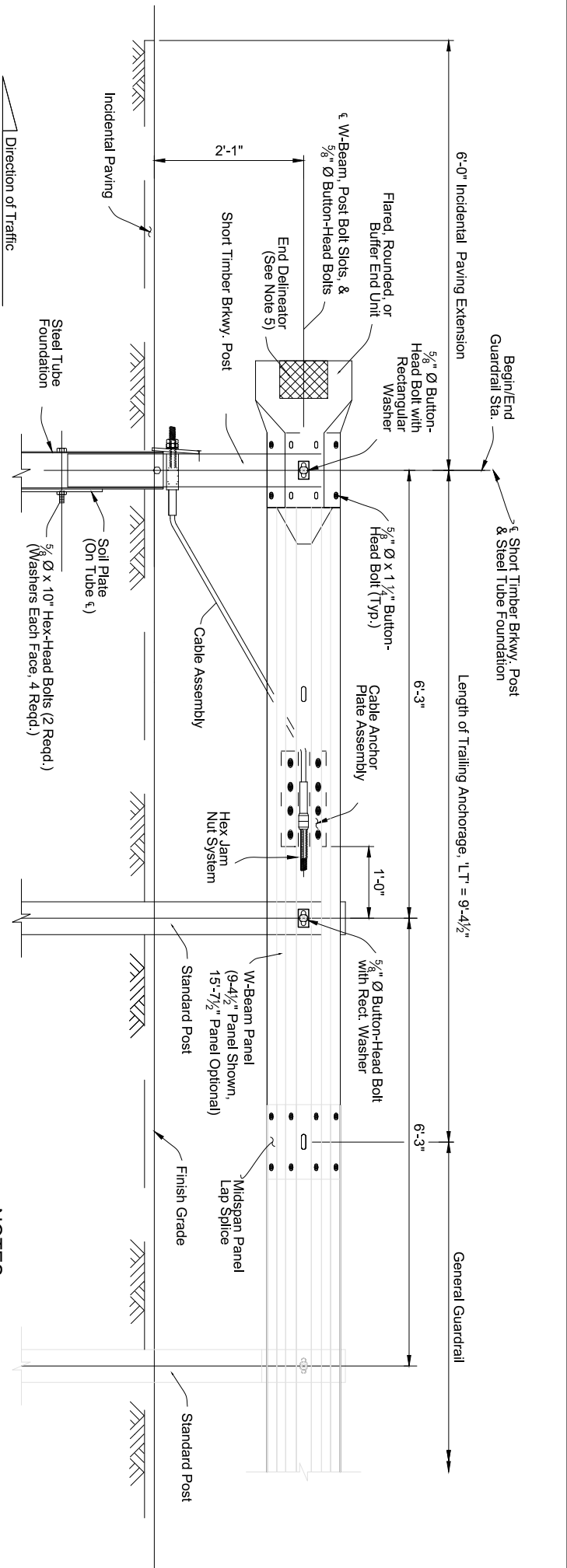
1. INSTALLATION: Use components as shown on Sheets 9 & 11.
2. MATERIALS: Use steel Plates and Cable Assemblies in accordance with Specification Section 1010.10. Use Short Timber Breakaway Posts and Steel Tube Foundations in accordance with Specification Section 704. Use Hex Nuts, Hex Jam Nuts, and Washers in accordance with the AASHTO-AGC-ARTBA Guide to Standardized Barrier Hardware with English unit equivalents of components FMX24a and FWC24a, respectively. Two Hex Nuts may be used for the Hex Jam Nut System.
3. PLATE STOP-NAILS: To prevent rotation of the Bearing Plate, drive steel 2 1/2" Type 8d nails with ASTM A153 hot-dip galvanization.
4. CABLE ANCHOR PLATE ASSEMBLY INSTALLATION: Mount to the pre-fabricated Cable Anchor Plate Bolt Holes in the W-Beam Panel, as shown on Sheet 4. These panel holes are only permitted for this Cable Anchor Plate Assembly application.

### END TREATMENT - COMPONENT DETAILS

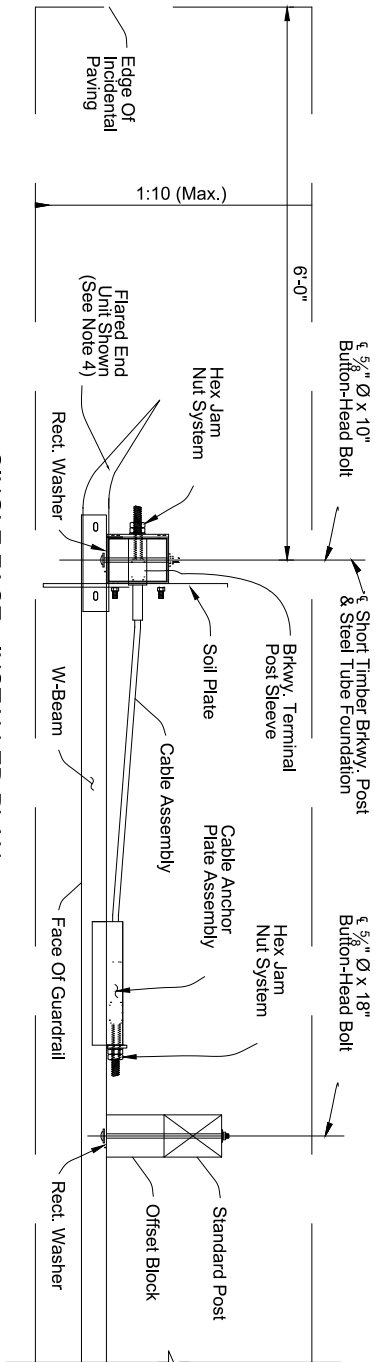


*Jason Cambre*  
08/22/18





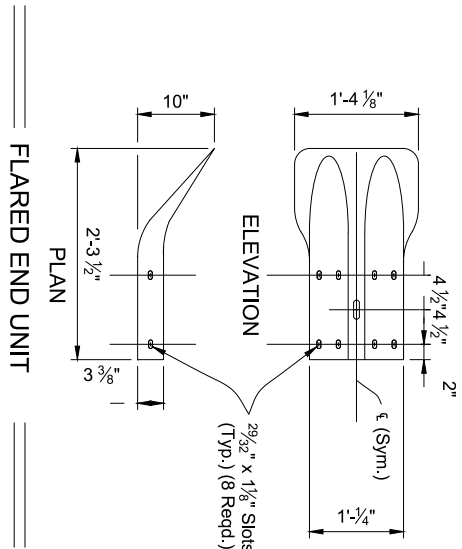
INSTALLED ELEVATION



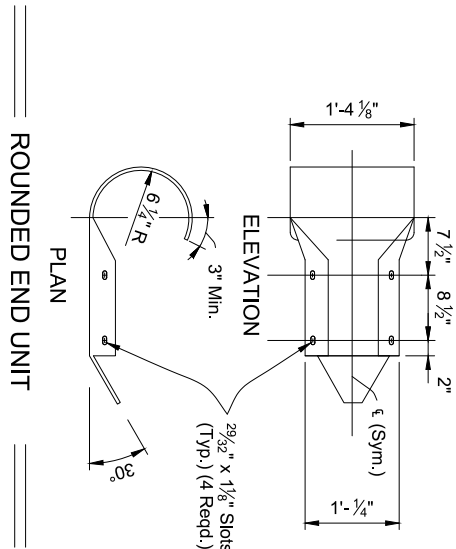
SINGLE FACE - INSTALLED PLAN  
FLARED END UNIT  
(Round End Unit Similar)

NOTES:

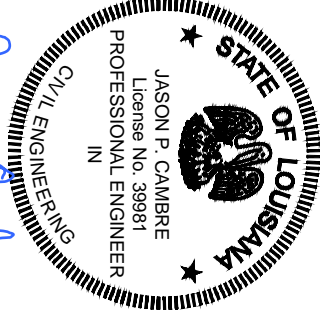
1. END UNITS: Use materials for end units as defined in Specifications Section 1010.10. End Units are referred to as "End or Buffer Sections" in AASHTO M180.  
Lap the Flared End Unit behind the W-Beam; lap the Rounded and Buffered End Units over the face of the W-Beam.
2. FOUNDATIONS: Install Steel Tubes with attached Soil Plates by either of the following methods:
  - a. Excavate, backfill, and compact material to provide full passive soil resistance to all surfaces of the Tube and Soil Plate.
  - b. Drive the Tube and Soil Plate as a single unit using a dummy timber post to prevent damage to the Breakaway Post.
3. GENERAL GUARDRAIL: General Guardrail typically includes Panels and Post Spacing as shown on Sheet 2, including parallel and tapered segments. Transitions, Low-Speed Guardrail, or Reduced Post Spacing Guardrail segments may be substituted for the General Guardrail shown herein if indicated in the plans.
4. SIDEWALK REQUIREMENTS: When sidewalks are located adjacent to the End Treatment, install a Rounded End Unit (Flared End Unit not permitted).
5. END DELINEATOR: Mount retroreflective sheeting to the approach face of the End Unit..



FLARED END UNIT

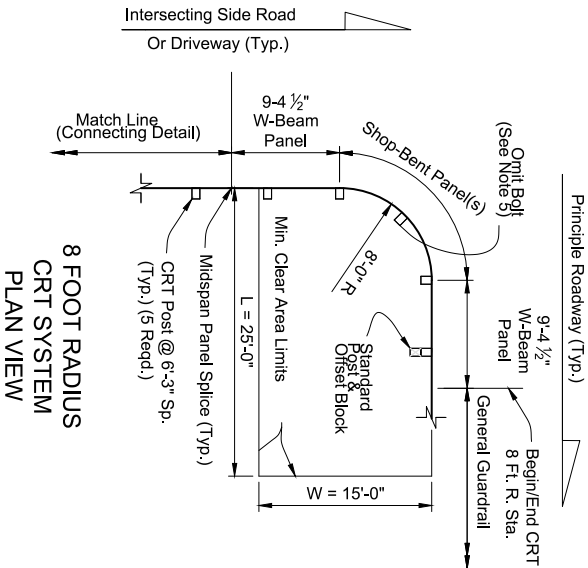


ROUNDED END UNIT

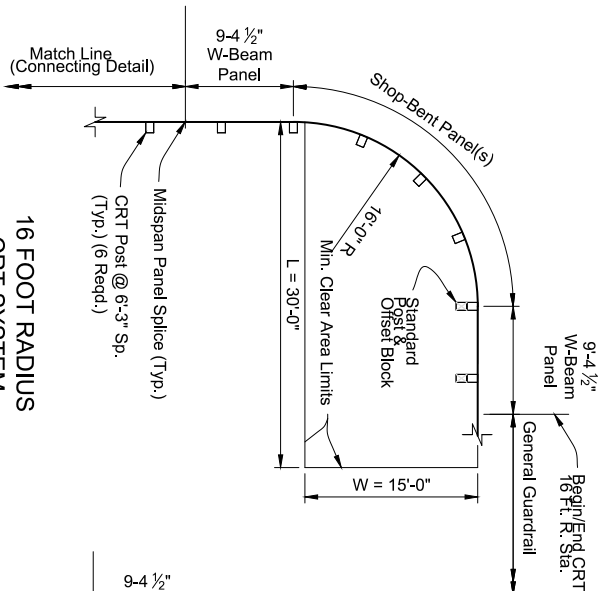


Jason Cambre  
08/22/18

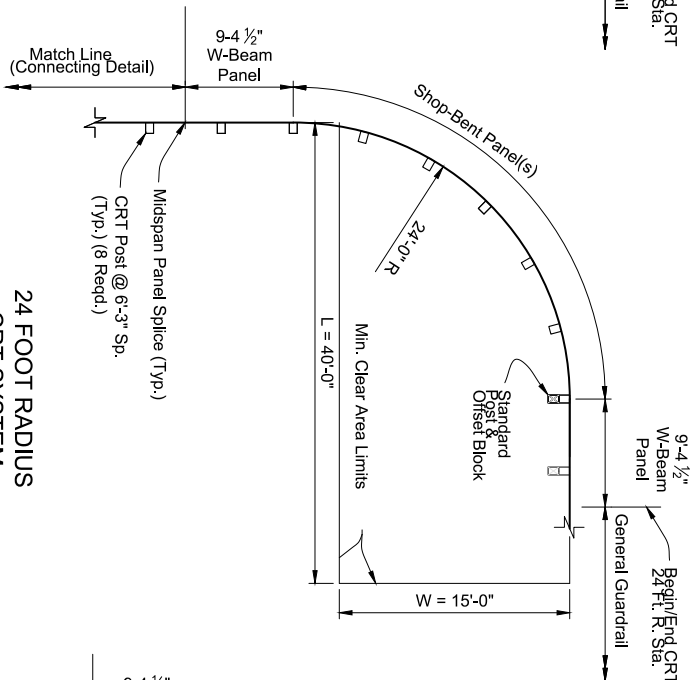




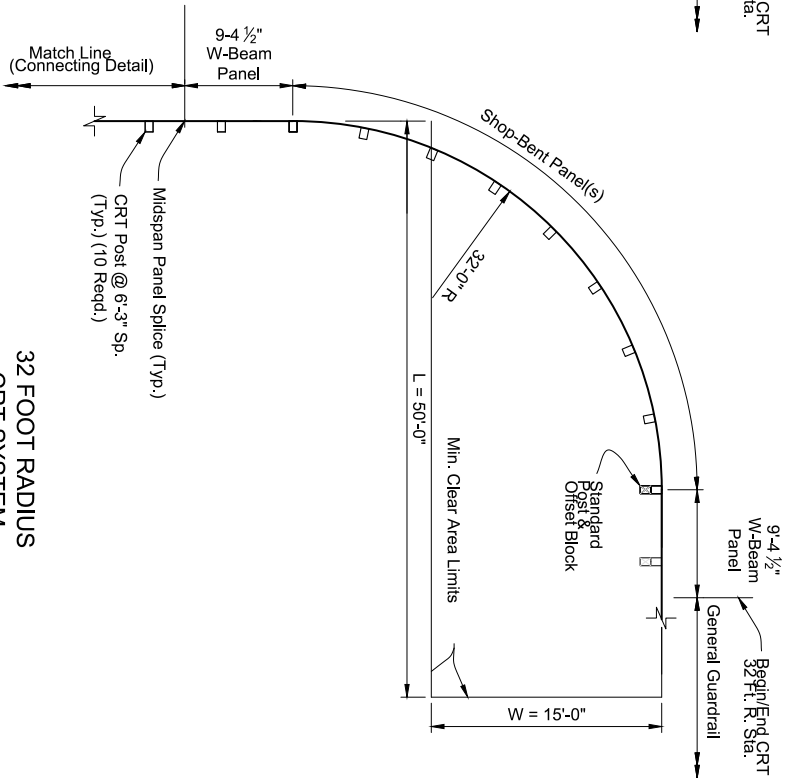
8 FOOT RADIUS  
CRT SYSTEM  
PLAN VIEW



16 FOOT RADIUS  
CRT SYSTEM  
PLAN VIEW



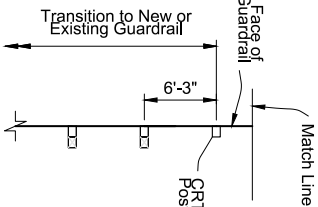
24 FOOT RADIUS  
CRT SYSTEM  
PLAN VIEW



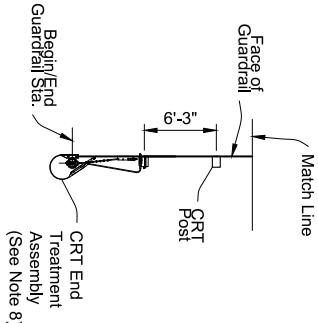
32 FOOT RADIUS  
CRT SYSTEM  
PLAN VIEW

CRT SYSTEM SUMMARY TABLE:

RETURN RADIUS (FT.)	LENGTH OF SHOP-BENT PANEL(S) (FT.)	QUANTITY OF CRT POSTS	AREA CLEAR OF HAZARDS "L" x "W" (FT.)
8	12.5	5	25 x 15
16	25.0	6	30 x 15
24	37.5	8	40 x 20
32	50.0	10	50 x 20



CONTINUING OPTION



END TREATMENT OPTION

CONNECTING DETAIL

NOTES:

1. INSTALLATION: Construct the specified radius layout and Connecting Detail option as shown in the plans.
2. MIN. CLEAR AREA: Keep the area behind the CRT free of fixed objects and aboveground hazards within the Min. Clear Area limits shown. Maintain a slope not steeper than 1:10 for a minimum 2' behind the posts, and maintain a slope not steeper than 1:2 beyond 2' from the posts.
3. APPROACH GRADING: Maintain grading on the roadway side of the guardrail face at a maximum slope of 1:10.
4. MATERIALS: For CRT Posts, use Timber Post material in accordance with Specification Section 10T0.09. Use steel panels and hardware in accordance with Specification Section 10T0.10.
5. BOLT OMISSION: For the 8 Foot Radius CRT System only, do not place a pane-to-post mount bolt at the center CRT Post (omit the 5/8" Button-Head Bolt only at the location shown).
6. SHOP-BENT PANELS: Install Shop-Bent panel(s) where indicated using 12'-0" or 25'-0" W-Beam Panels. Splice at post locations within the CRT radius using the General configuration of 5/8" Ø Button-Head Bolts (6 req'd. per splice).
7. GENERAL GUARDRAIL: General Guardrail typically includes Panels and Post Spacing as shown on Sheet 2, including parallel and tapered segments. Approach Transitions, Low-Speed Guardrail, or Reduced Post Spacing Guardrail segments may be substituted for the General Guardrail shown herein if indicated in the plans.

LAYOUT FOR CONTROLLED

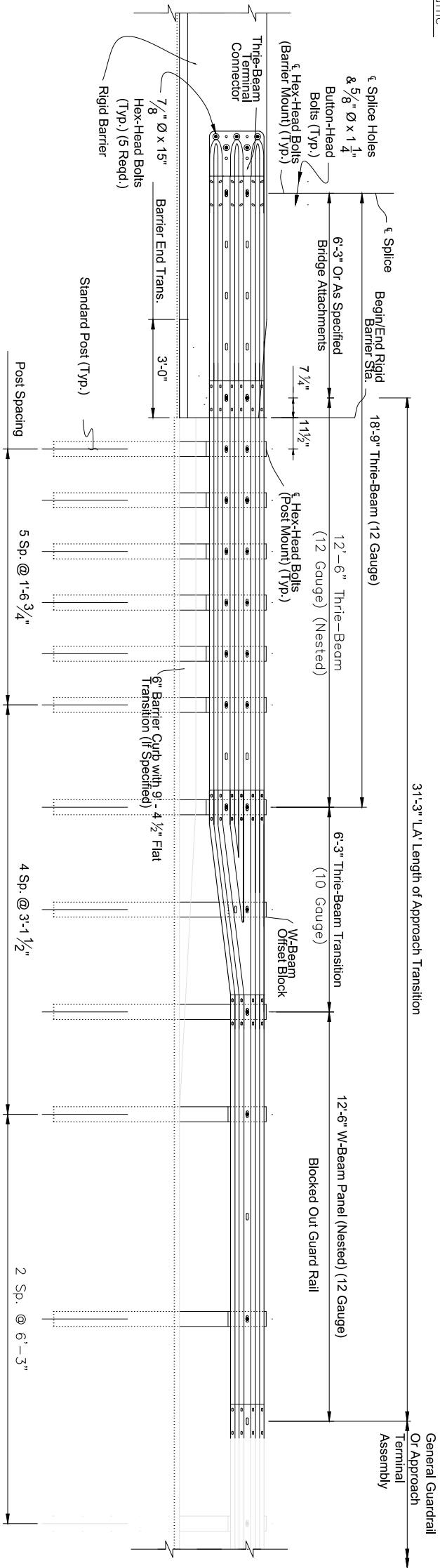
RELEASE TERMINAL (CRT) SYSTEMS -  
SIDE ROADS AND DRIVEWAYS



Jason Cambre  
08/22/18



Direction of Traffic

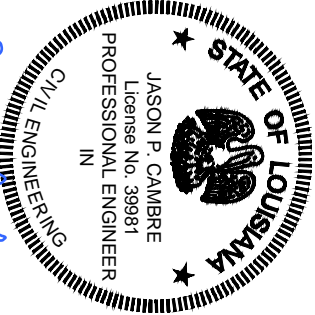


TL-3 APPROACH TRANSITION

1. INSTALLATION: Construct the Approach Transition segment where indicated in the plans. The required offset of the connecting adjacent guardrail is shown in the plans.

2. THRIE-BEAM TERMINAL CONNECTOR: The installed bolt's threaded portion is not permitted to extend beyond  $\frac{3}{4}"$  from the face of the nut; trim the threaded portion as needed and galvanize.

3. GENERAL GUARDRAIL: General Guardrail typically includes Panels and Post Spacing as shown on Sheet 2, including parallel and tapered segments. End Treatments or Reduced Post Spacing Guardrail segments may be substituted for the General Guardrail shown herein if indicated in the plans.



*Jason P. Cambre*  
08/22/18

Project No.	N/A
Date	8/21/2018
Scale	NTS
Drawn By	JPC

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Department of Engineering  
P.O. Box 628 Covington, La. 70434  
Phone: (985) 898-2552  
Fax: (985) 875-2616

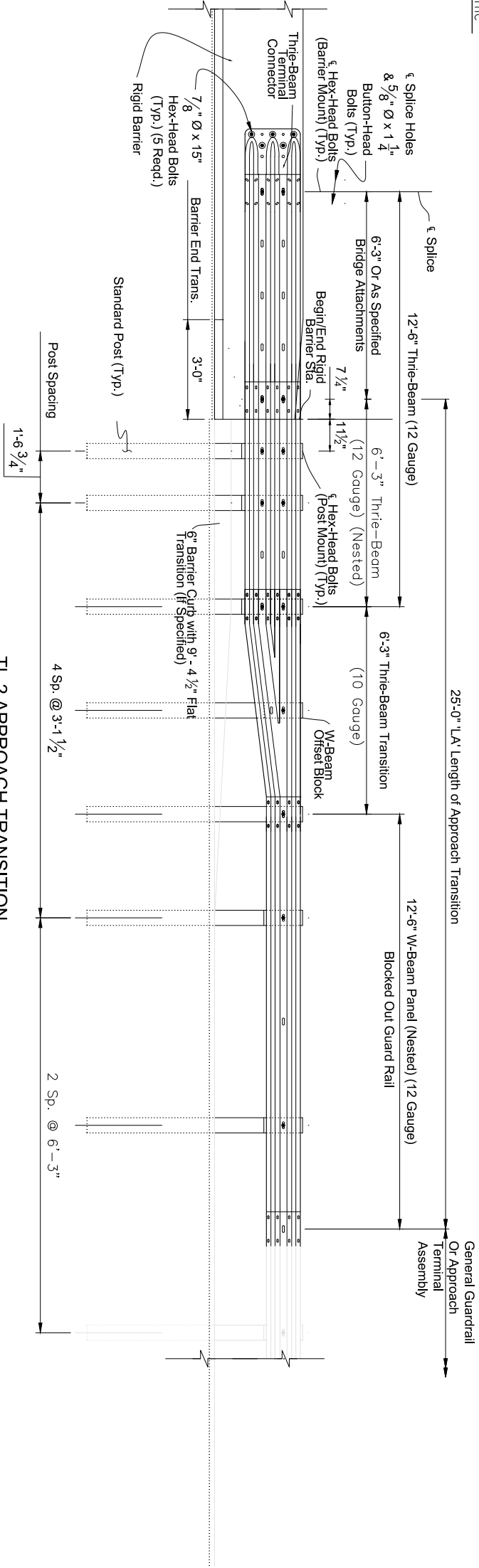
Rev. No	Date	Description

GUARDRAIL (31-INCH MGS)

RIGID BARRIER APPROACH TRANSITION - TL-3



Direction of Traffic

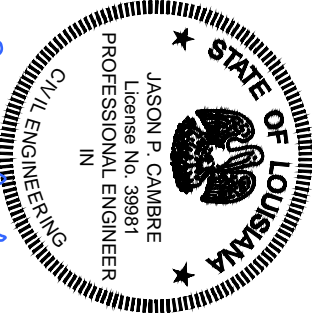


TL-2 APPROACH TRANSITION

1. INSTALLATION: Construct the Approach Transition segment where indicated in the plans. The required offset of the connecting adjacent guardrail is shown in the plans.

2. THRIE-BEAM TERMINAL CONNECTOR: The installed bolt's threaded portion is not permitted to extend beyond 3/4" from the face of the nut; trim the threaded portion as needed and galvanize.

3. GENERAL GUARDRAIL: General Guardrail typically includes Panels and Post Spacing as shown on Sheet 2, including parallel and tapered segments. End Treatments or Reduced Post Spacing Guardrail segments may be substituted for the General Guardrail shown herein if indicated in the plans.



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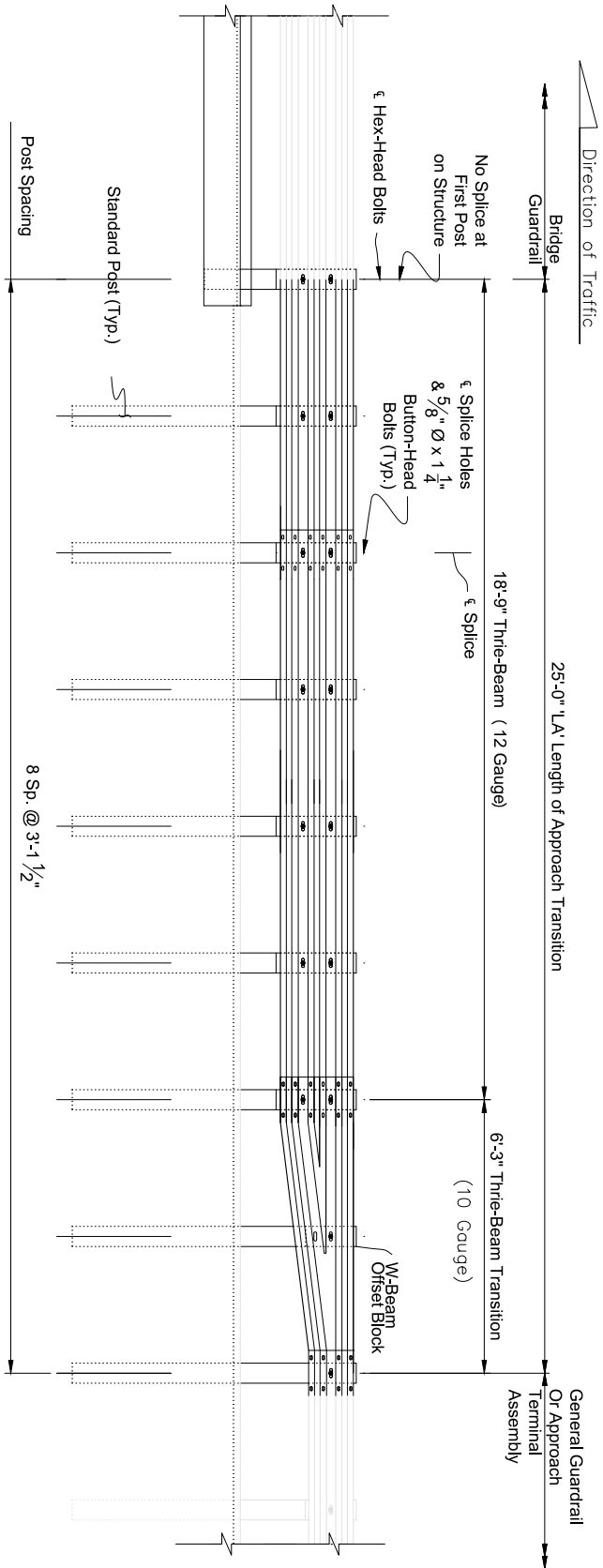
12



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Department of Engineering  
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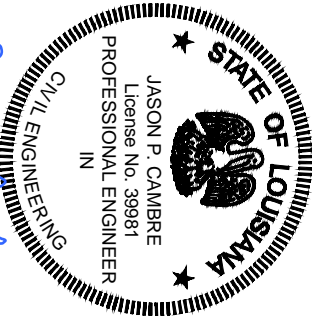
Rev. No	Date	Description

GUARDRAIL (31-INCH MGS)  
RIGID BARRIER APPROACH TRANSITION - TL-2



#### FLEXIBLE APPROACH TRANSITION

- 1. INSTALLATION:** Construct the Approach Transition segment where indicated in the plans. The required offset of the connecting adjacent guardrail is shown in the plans.
- 2. GENERAL GUARDRAIL:** General Guardrail typically includes Panels and Post Spacing as shown on Sheet 2, including parallel and tapered segments. End Treatments or Reduced Post Spacing Guardrail segments may be substituted for the General Guardrail shown herein if indicated in the plans.



*Jason Cambre*  
08/22/18

Project No.	N/A
Date	8/21/2018
Scale	NTS
Drawn By	JPC

Sheet

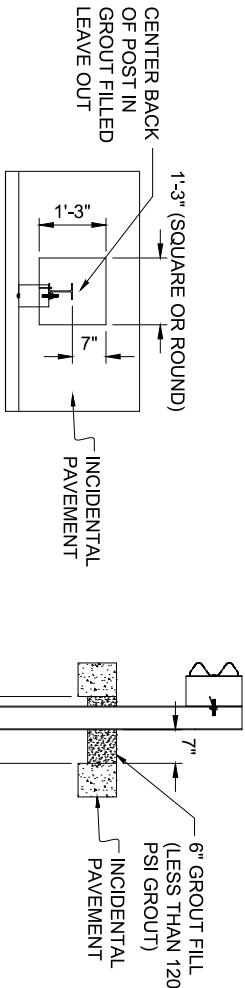
13



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Department of Engineering  
P.O. Box 628 Covington, La. 70434  
Phone: (985) 898-2552  
Fax: (985) 875-2616

Rev. No	Date	Description

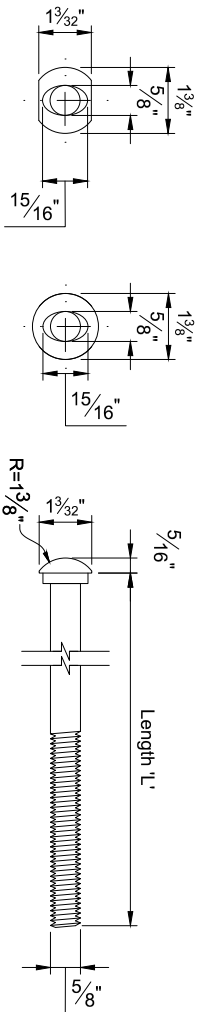
GUARDRAIL (31-INCH MGS)  
FLEXIBLE BARRIER APPROACH TRANSITION



POST DETAIL

POST SECTION

PAVEMENT LEAVE OUT DETAIL  
FOR GUARDRAIL POSTS



ELEVATION

OPTION 1

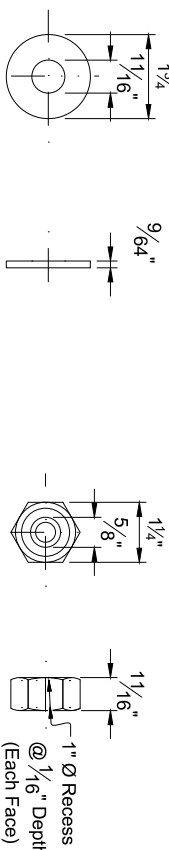
ELEVATION

OPTION 2

PROFILE

BUTTON-HEAD BOLT

(Option 1 Shown)



ELEVATION

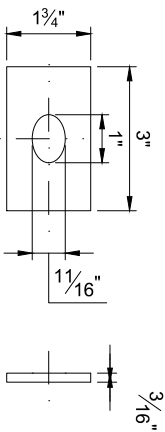
PROFILE

WASHER

ELEVATION

PROFILE

HEX-NUT



ELEVATION

PROFILE

RECTANGULAR WASHER

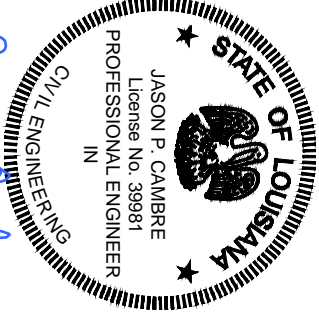
(For Type II, CRT, & Terminal  
Connectors Where Shown -  
Install Over Panel Face)

BUTTON-HEAD BOLT LENGTHS:

Application(s):	Length 'L':	Min. Thread Length:
Panel Splice	1 1/4"	Full Length
Steel Post Mount - Single Faced Guardrail	10"	4"
Timber Post Mount - Single Faced Guardrail	18"	4"
Steel or Timber Post Mount - Double Faced Guardrail	25"	4"
Modified Thre-Beam Panel / Terminal Connector Splice	2"	Full Length

NOTES:

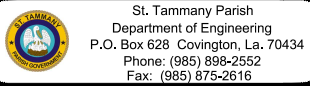
1. Use nuts, bolts, and washers in accordance with Specification Section 1010.10.
2. For Steel Posts with Double Faced Guardrail, the single 25" Length bolt (one bolt thru both post flanges) may be replaced with two 10" Length bolts (one bolt per post flange).



Jason P. Cambre

08/22/18

Rev. No	Date	Description



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Drawn By	JPC



