



ST. TAMMANY PARISH

MICHAEL B. COOPER
PARISH PRESIDENT

NOTICE TO BIDDERS

ST. TAMMANY PARISH

Bid # 21-4-2 – Sault St Road Improvement

Sealed bids will be received by the Department of Procurement, until 2:00 p.m., **Wednesday, March 3, 2021**, and then opened and read publicly at that time by the Procurement Staff for the following project:

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 Project Name and the Bid Number.

The project classification is:

Highway, Street, & Bridge Construction

This Bid package is available online at <http://www.stpgov.org/> or at www.bidexpress.com.

It is the Bidder's responsibility to check the Parish website frequently for any possible addenda that may be issued. The Parish is not responsible for a Bidder'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.

Due to the COVID-19 pandemic, and in an effort to help slow the spread of the virus, Openings will take place outside at the "Pavilion" of Building B located at 21454 Koop Drive, Mandeville, La. 70471. Any questions regarding this should be directed to the Department of Procurement via email at purchasing@stpgov.org. Please call the Procurement office at 985-898-2520 and we will meet you at the front entrance of Building B to collect bids and issue a receipt.

Procurement Department

BID PROPOSAL

ST. TAMMANY PARISH
GOVERNMENT



BID PACKAGE FOR

**Project No. EN18000011
SOULT ST. ROAD IMPROVEMENTS
ST. TAMMANY PARISH**

BID NO.: 21-4-2

January 26, 2021

BY

HNTB

HNTB Corporation
2021 Lakeshore Drive, Suite 230
New Orleans, LA
504-872-3000

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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 244 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. 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.
22. 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.
23. 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.
24. 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.
25. 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.
26. 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.
27. 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 insure that bids are delivered in a timely fashion. **Late bids, regardless of reason, will not be considered, and will be returned to bidder.**
28. 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**

29. Complete sets of Drawings, Specifications and Contract Documents may be secured at the Office of the Owner. See Notice to Bidders for deposit schedule and availability via electronic methods.
30. 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.
31. 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. 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.
32. At least three days prior to the execution of the Contract, the Contractor shall deliver to the Owner the required Bonds.
33. Failure of the successful Bidder to execute the Contract 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. Award may then be made to the next lowest responsible bidder.
34. 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.
35. 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.
36. 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.

37. 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.
38. 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.
39. 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.
40. 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.
41. 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.
42. Contractor shall pay for cost of recording the Contract, Bond, and any change orders required to be recorded, as well as the cost of canceling any of the foregoing. 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.
43. 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.
44. 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.
45. 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.

46. Deductibles: Any and all deductibles in the described insurance policies shall be assumed by and be at the sole risk of the Contractor.
47. 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.
48. 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.

49. 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.
50. 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.
51. 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.
52. 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 these times. 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).
53. 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.

54. The last day to submit questions and/or verification on comparable products will be no later than 2:00 pm CST, seven (7) working days prior to the opening date of the bid/proposal due date. Further, any questions or inquires must be submitted via fax to 985-898-5227, or via email to Purchasing@stpgov.org. Any questions or inquiries received after the required deadline to submit questions or inquiries will not be answered.
55. 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.
56. 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).
57. 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:

Clearing, grubbing, earthwork, grading, drainage, base course, asphalt concrete pavement, concrete pavement, mill and overlay, permanent pavement striping, signing.

II. Location of Work:

Section - 6 Township – 8 Range – 12E
Soul Street (from US Hwy 190 to LA 1088)
St. Tammany Parish

III. Documents: Bid Documents dated January 26, 2021, and entitled:

SOULT ST. ROAD IMPROVEMENTS
Bid#21-4-2

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).

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: SOULT ST. ROAD IMPROVEMENTS
PROJECT No. EN18000011
Bid#21-4-2

(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: and dated:

(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: Dollars (\$)

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

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

SOULT ST. ROAD IMPROVEMENTS
PROJECT No. EN18000011
ST. TAMMANY PARISH
(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.

REF NO.:	Description:	<input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT #		CLEARING AND GRUBBING	
		QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
201-01-00200		1	LUMP		
	Description:	<input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT #		REMOVAL OF STRUCTURES AND OBSTRUCTIONS	
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)	
202-01-00100	1	LUMP			
	Description:	<input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT #		REMOVAL OF GRAVEL DRIVES	
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)	
202-02-00020	92.3	SQYD			
	Description:	<input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT #		REMOVAL OF ASPHALT DRIVES	
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)	
202-02-02000	209.9	SQYD			

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.

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		6422.9		SQYD		
Description:		<input checked="" type="checkbox"/> BASE BID	OR	<input type="checkbox"/> ALT #	REMOVAL OF CONCRETE WALKS AND DRIVES	
REF NO.:		QUANTITY		UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
202-02-06100		415.8		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		202		LNFT		
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		536		LNFT		
Description:		<input checked="" type="checkbox"/> BASE BID	OR	<input type="checkbox"/> ALT #	REMOVAL OF PIPE (SIDE DRAIN)	
REF NO.:		QUANTITY		UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
202-02-32120		957		LNFT		
Description:		<input checked="" type="checkbox"/> BASE BID	OR	<input type="checkbox"/> ALT #	REMOVAL OF PORTLAND CEMENT CONCRETE PAVEMENT	
REF NO.:		QUANTITY		UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
202-02-32500		193.4		SQYD		

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.

Description:		<input checked="" type="checkbox"/> BASE BID	OR	<input type="checkbox"/> ALT #	REMOVAL OF SIGNS	
REF NO.:		QUANTITY		UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
202-02-38200		34		EACH		
Description:		<input checked="" type="checkbox"/> BASE BID	OR	<input type="checkbox"/> ALT #	REMOVAL OF SIGN & U-CHANNEL POST	
REF NO.:		QUANTITY		UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
202-02-38300		45		EACH		
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		6647.7		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		853.5		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		500		CUYD		
Description:		<input checked="" type="checkbox"/> BASE BID	OR	<input type="checkbox"/> ALT #	NONPLASTIC EMBANKMENT (SAND)	
REF NO.:		QUANTITY		UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
203-04-00200		1782.2		CUYD		

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 SILT FENCING	
REF NO.:		QUANTITY		UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
204-06-00100		5000		LNFT		
Description:		<input checked="" type="checkbox"/> BASE BID	OR	<input type="checkbox"/> ALT #	CLASS II BASE COURSE (12" THICK)(CRUSHED STONE OR RECYCLED PORTLAND CEMENT CONCRETE)	
REF NO.:		QUANTITY		UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
302-02-12070		17725		SQYD		
Description:		<input checked="" type="checkbox"/> BASE BID	OR	<input type="checkbox"/> ALT #	MAINLINE TRAFFIC MAINTENANCE SURFACING (AGGREGATE) (VEHICULAR MEASUREMENT)	
REF NO.:		QUANTITY		UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
402-01-00100		100		CUYD		
Description:		<input checked="" type="checkbox"/> BASE BID	OR	<input type="checkbox"/> ALT #	ASPHALTIC CONCRETE	
REF NO.:		QUANTITY		UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
502-01-00100		4941.9		TON		
Description:		<input checked="" type="checkbox"/> BASE BID	OR	<input type="checkbox"/> ALT #	ASPHALT CONCRETE, DRIVES, TURNOUTS AND MISCELLANEOUS	
REF NO.:		QUANTITY		UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
502-01-00200		229.8		TON		
Description:		<input checked="" type="checkbox"/> BASE BID	OR	<input type="checkbox"/> ALT #	MILLING ASPHALT PAVEMENT (1" AVG. THICKNESS)	
REF NO.:		QUANTITY		UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
509-01-00100		21355.9		SQYD		

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.

REF NO.:	Description:	<input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT #		PAVEMENT PATCHING (12" MINIMUM THICKNESS)	
		QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
510-01-00200		2250	SQYD		
	Description:	<input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT #		PORTLAND CEMENT CONCRETE PAVEMENT (8" THICK) (24 HR HIGH EARLY STRENGTH)	
601-01-00100		192.1	SQYD		
	Description:	<input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT #		STORM DRAIN PIPE ARCH (15" EQUIV. RCPA)	
701-04-01000		1367	LNFT		
	Description:	<input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT #		STORM DRAIN PIPE ARCH (18" EQUIV. RCPA)	
701-04-01020		772	LNFT		
	Description:	<input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT #		STORM DRAIN PIPE ARCH (24" EQUIV. RCPA)	
701-04-01040		1625	LNFT		
	Description:	<input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT #		SIDE DRAIN PIPE (24" RCP/RPVCP/CPEPDW/CMP)	
701-05-01061		2141.5	LNFT		
	Description:	<input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT #			

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 #	MANHOLES (MH-06)	
REF NO.:		QUANTITY		UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
702-02-00100		40		EACH		
Description:		<input checked="" type="checkbox"/> BASE BID	OR	<input type="checkbox"/> ALT #	CATCH BASINS (CB-01)	
REF NO.:		QUANTITY		UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
702-03-00100		28		EACH		
Description:		<input checked="" type="checkbox"/> BASE BID	OR	<input type="checkbox"/> ALT #	CATCH BASINS (CB-06)	
REF NO.:		QUANTITY		UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
702-03-00500		9		EACH		
Description:		<input checked="" type="checkbox"/> BASE BID	OR	<input type="checkbox"/> ALT #	CATCH BASINS (CB-07)	
REF NO.:		QUANTITY		UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
702-03-00600		1		EACH		
Description:		<input checked="" type="checkbox"/> BASE BID	OR	<input type="checkbox"/> ALT #	ADJUSTING CATCH BASINS	
REF NO.:		QUANTITY		UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
702-04-00200		2		EACH		
Description:		<input checked="" type="checkbox"/> BASE BID	OR	<input type="checkbox"/> ALT #	REBUILT FENCE (6' HIGH WOOD FENCE)	
REF NO.:		QUANTITY		UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
705-09-00100		130		LNFT		

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 #	CONCRETE DRIVE (6" THICK) (24 HR HIGH EARLY STRENGTH)			
REF NO.:	QUANTITY		UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)		
706-02-00200	264.2		SQYD				
Description:	<input checked="" type="checkbox"/> BASE BID	OR	<input type="checkbox"/> ALT #	COMBINATION CONCRETE CURB AND GUTTER			
REF NO.:	QUANTITY		UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)		
707-03-00100	1750		LNFT				
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 #	SIGN (TYPE A)			
REF NO.:	QUANTITY		UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)		
729-01-00100	414		SQFT				
Description:	<input checked="" type="checkbox"/> BASE BID	OR	<input type="checkbox"/> ALT #	SIGN (TYPE A) (RELOCATE)			
REF NO.:	QUANTITY		UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)		
729-01-00103	6		SQFT				

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 #	U-CHANNEL POST	
REF NO.:		QUANTITY		UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
729-21-00100		65		EACH		
Description:		<input checked="" type="checkbox"/> BASE BID	OR	<input type="checkbox"/> ALT #	REFLECTORIZED RAISED PAVEMENT MARKERS	
REF NO.:		QUANTITY		UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
731-02-00100		705		EACH		
Description:		<input checked="" type="checkbox"/> BASE BID	OR	<input type="checkbox"/> ALT #	PLASTIC PAVEMENT STRIPING (8" WIDTH)(THERMOPLASTIC 90 MIL)	
REF NO.:		QUANTITY		UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
732-01-01040		2482		LNFT		
Description:		<input checked="" type="checkbox"/> BASE BID	OR	<input type="checkbox"/> ALT #	PLASTIC PAVEMENT STRIPING (24" WIDTH)(THERMOPLASTIC 125 MIL)	
REF NO.:		QUANTITY		UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
732-01-02080		340		LNFT		
Description:		<input checked="" type="checkbox"/> BASE BID	OR	<input type="checkbox"/> ALT #	PLASTIC PAVEMENT STRIPING (SOLID LINE) (4" WIDTH) (THERMOPLASTIC 90 MIL)	
REF NO.:		QUANTITY		UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
732-02-02000		7.276		MILE		
Description:		<input checked="" type="checkbox"/> BASE BID	OR	<input type="checkbox"/> ALT #	PLASTIC PAVEMENT LEGENDS AND SYMBOLS (ARROW-LEFT TURN)	
REF NO.:		QUANTITY		UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
732-04-01080		2		EACH		

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 #	PLASTIC PAVEMENT LEGENDS AND SYMBOLS (ARROW-RIGHT TURN)	
REF NO.:		QUANTITY		UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
732-04-01100		8		EACH		
Description:		<input checked="" type="checkbox"/> BASE BID	OR	<input type="checkbox"/> ALT #	MAILBOXES	
REF NO.:		QUANTITY		UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
735-01-00100		5		EACH		
Description:		<input checked="" type="checkbox"/> BASE BID	OR	<input type="checkbox"/> ALT #	MAILBOX SUPPORTS (SINGLE)	
REF NO.:		QUANTITY		UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
735-02-00100		5		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		3		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 #	SAW CUTTING ASPHALT CONCRETE PAVEMENT	
REF NO.:		QUANTITY		UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
NS-500-00340		3429		LNFT		

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 #	REALIGNING DITCHES	
REF NO.:	QUANTITY	QUANTITY		UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
PS-P52-00001	3139			LNFT		
Description:		<input checked="" type="checkbox"/> BASE BID	OR	<input type="checkbox"/> ALT #	GRAVEL (DRIVEWAY)	
REF NO.:	QUANTITY	QUANTITY		UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
TS-726-37001	66.3			CUYD		
Description:		<input checked="" type="checkbox"/> BASE BID	OR	<input type="checkbox"/> ALT #	RELOCATE EXISTING SIGNS AND SIGN POST	
REF NO.:	QUANTITY	QUANTITY		UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
S-00001	4			EACH		
Description:		<input checked="" type="checkbox"/> BASE BID	OR	<input type="checkbox"/> ALT #	8" WATERLINE OFFSET	
REF NO.:	QUANTITY	QUANTITY		UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
S-00002	1			EACH		
Description:		<input checked="" type="checkbox"/> BASE BID	OR	<input type="checkbox"/> ALT #	2" SEWER FORCE MAIN OFFSET	
REF NO.:	QUANTITY	QUANTITY		UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
S-00003	1			EACH		

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: _____

Section 06



INSURANCE REQUIREMENTS*

Construction Project: Soult St Road Improvements

Bid#: 21-4-2

*****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. Deductibles/Self-Insured Retentions: Any deductibles and/or self-insured retentions in the described insurance policies **must be declared on the Certificate of Insurance**, and are both assumed by and the sole risk of the Provider. The Parish will have the sole discretion to accept or reject deductibles and/or self-insured retentions exceeding \$100,000 as it deems appropriate. The Parish may require Provider to produce evidence of verifiable financial ability to satisfy its deductibles and/or self-insured retentions; however, the Parish assumes no liability or obligation resulting from its examination, acceptance, or rejection of information presented.
 5. 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).

Section 06

- 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 of \$1,000,000 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:

Section 06

- 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 on an "all-risk" policy form shall be furnished by Contractor for 100% of the contract cost. 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 the first named insured on the policy.**

Section 06

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 the first named insured 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**

Section 06

**Covington, LA 70434
Telephone: 985-898-5226
Email: riskman@stpgov.org**

HOLD HARMLESS AGREEMENT

_____ (Contractor) agrees to protect, defend, indemnify, save, and hold harmless St. Tammany Parish Government, its elected and appointed officials, departments, agencies, boards and commissions, its 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 act or omission of Contractor, its agents, servants, employees, and subcontractors, or any and all costs, expense and/or attorney fees incurred as a result of any claim, demands, and/or causes of action that results under the performance or non-performance of this contract.

_____ (Contractor) agrees to investigate, handle, respond to, provide defense for and defend any such claims, demand, or suit, as described in the paragraph above, at its sole expense and agrees to bear all other costs and expenses related thereto, even if it (claims, etc.) is groundless, false or fraudulent.

SIGNED, this ____ day of _____, 20__

WITNESSES:

(Name of Contractor)

Print Name: _____

BY: _____
(Signature of Authorized Officer)

Print Name : _____

Print Name: _____

Title: _____

STATE OF _____

PARISH/COUNTY OF _____

SWORN TO and subscribed before me, Notary, on this ____ day of _____, 20__.

NOTARY PUBLIC

My Commission Expires: _____

Please complete the following:

Claims contact for this project will be:

(Print name and title of Contact Person)

Address

Email address

Telephone#

Cell #

Fax

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.

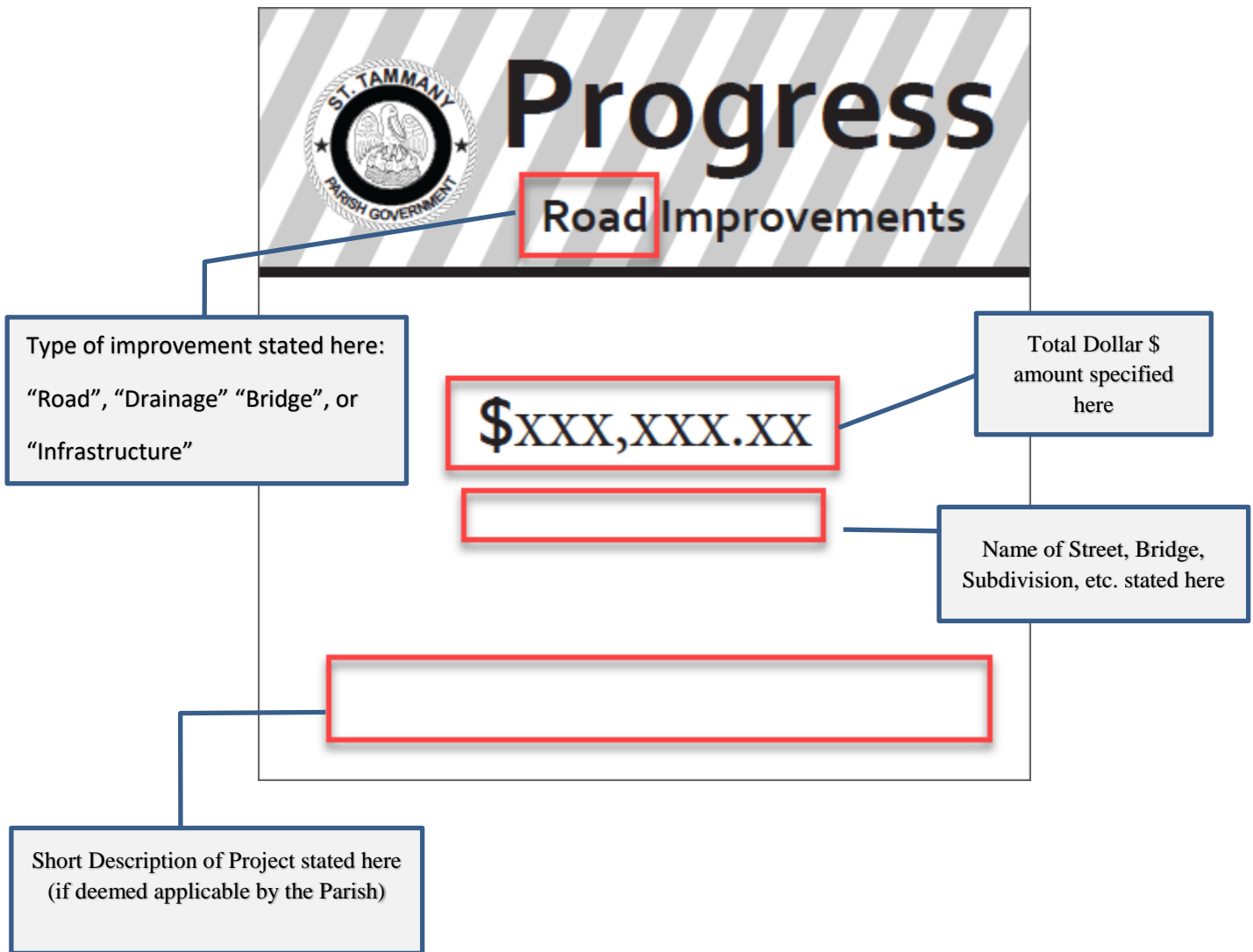
2. Materials

- 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.

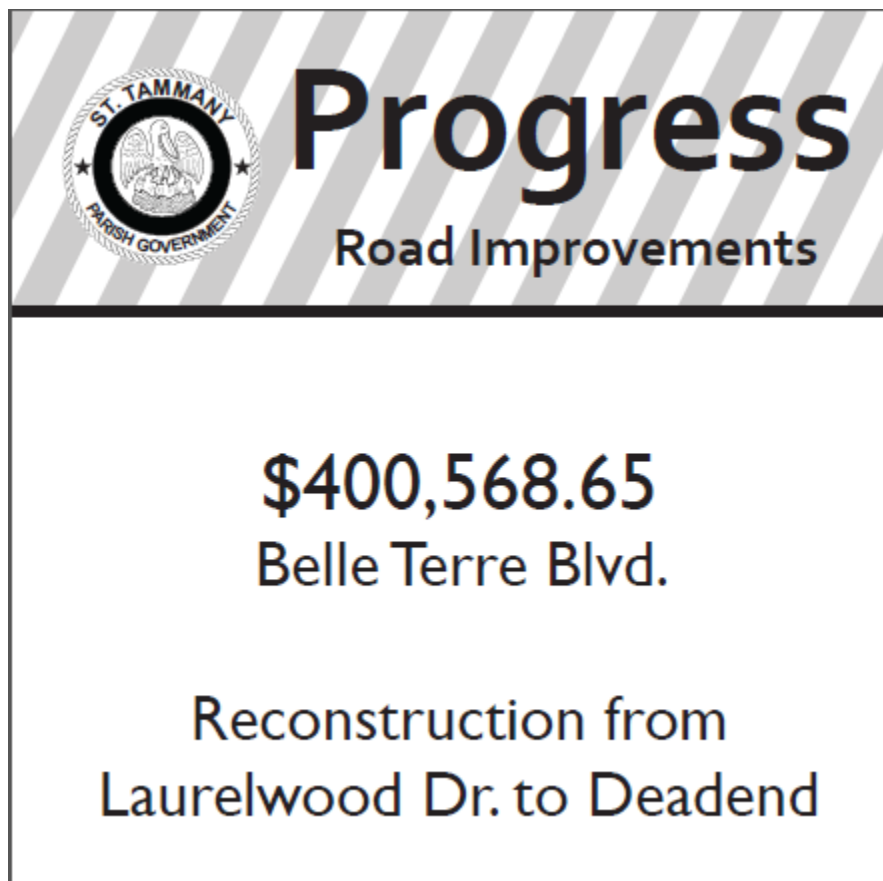
3. Execution

- 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:



Example of a Completed Parish Project Sign:



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 provider with whom the Owner has executed the Agreement.
- 01.16 Defective Work 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 \$500.00 per day 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 of the sum of \$500.00 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 vendor, 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 seven working days prior to the opening of bids. Within three 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/\$3,000,000 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 Department of Legal, Office of Risk Management prior to execution of a contract for services.

For inquiries regarding insurance requirements, please contact:

St. Tammany Parish Government

Legal Department

Office of Risk Management

P. O. Box 628

Covington, LA 70434

Telephone: 985-898-2797

Fax: 985-898-3070

Email: 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 Mr. Anthony Smith, 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 protestor can request additional methods of notification.

Last day to submit questions and/or verification on comparable products will be no later than 2:00 pm CST, seven (7) working days prior to the opening date of the bid/proposal due date. Further any questions or inquires must be submitted via fax to 985-898-5227, or via email to Purchasing@stpgov.org. Any questions or inquires received after the required deadline to submit questions or inquires will not be answered.

Section 09

Special Items

PS-P52-00001	Realigning Ditches
S-00001	Relocate Existing Signs and Sign Post
S-00002	8" Waterline Offset
S-00003	2" Sewer Force Main Offset

PS-P52 REALIGNING DITCHES (10/20):

DESCRIPTION: This work will consist of realignment, regrading, and reshaping ditches to achieve required slopes and ditch bottom grade elevations in accordance with plan details and these specifications.

MATERIALS. Materials shall comply with the following Sections or Subsections of the 2016 Louisiana Standard Specifications for Roads and Bridges

Borrow material shall comply with Section 203.05.
Plastic soil for slopes shall conform to Section 203.06.5

CONSTRUCTION REQUIREMENTS.

- a) This item consists of establishing ditch flow lines provided in the plans by realigning the ditch so that the required ditch foreslopes and backslopes are achieved.
- b) Complete all necessary clearing and grubbing in an area, prior to beginning excavation, grading, or embankment operations in that area. Removing or Relocating Structures and Obstructions shall comply with Section 202. At all times, storm water drainage through the affected work area shall be maintained.
- c) Soils from excavated areas (i.e. native soil) may be used in embankments or other finished sections as approved by the project engineer. Excavation and Embankment shall conform to Section 203. Remove unsuitable materials per Section 203.04. Borrow material shall comply with Section 203.05.
- d) Excess excavated material shall become the property of the contractor and shall be disposed of beyond the right-of-way in accordance with Section 202.
- e) Ditch side slopes shall be constructed in accordance with the plans and Section 203.06.4 and 203.06.5.
- f) After the new ditch flow line has been established, the excavated area from the existing ditch alignment shall be backfilled to the elevation and slope requirements per the applicable typical section.
- g) New ditch grades shall tie-in to existing ditches by matching the elevation of the existing ditch. There shall not be an abrupt elevation change between new and old work.

MEASUREMENT. Realigning Ditches will be measured per linear foot for the final in place realigned ditch as shown on the plans, or established by the engineer, adjusted for field changes. No measurement will be taken for the existing ditch. No increase in quantities will be authorized for overbuilding unless directed by the engineer. The cost for Realigning Ditches shall include removal and disposal of existing material, excavation, embankment, disposing of excess material, placement of native or borrow material, grading and all materials, equipment, tools and labor incidental thereto.

PAYMENT. Realigning Ditches will be made at the contract unit price per linear foot.

Payment will be made under:

<u>Item No.</u>	<u>Pay Item</u>	<u>Pay Unit</u>
PS-P52-00001	Realigning Ditches	Linear Foot

S-00001 RELOCATE EXISITNG SIGNS AND SIGN POST

S-00001 RELOCATE EXISITNG SIGNS AND SIGN POST (10/20):

DESCRIPTION: This work will consist of relocating existing signs and sign post to the required location in accordance with plan details and these specifications.

MATERIALS. (NOT USED)

CONSTRUCTION REQUIREMENTS. Construction shall comply with the following Sections or Subsections of the 2016 Louisiana Standard Specifications for Roads and Bridges

General construction requirements shall comply with Section 202.02
Relocating shall be executed in accordance with Section 202.04.

MEASUREMENT. Relocate Existing Signs and Sign Post will be will be measured per each structure with its associated appurtenances.

PAYMENT. Payment for Relocate Existing Signs and Sign Post will be made at the contract unit price per each. This will include all costs for moving, reassembly, restoration, reconstruction, or equivalent replacement of the structures.

Payment will be made under:

<u>Item No.</u>	<u>Pay Item</u>	<u>Pay Unit</u>
S-00001	Relocate Existing Signs and Sign Post	Each

S-00002 8" WATERLINE OFFSET

S-00002 8" WATERLINE OFFSET (01/21):

DESCRIPTION: This work consists of providing a waterline offset to an existing waterline in accordance with plan details and these specifications and as directed by the Project Engineer. The Contractor shall furnish all labor, supervision, materials and equipment required for making necessary offsets, as required.

MATERIALS.

- a) Materials shall comply with the following Sections or Subsections of the 2016 Louisiana Standard Specifications for Roads and Bridges

Ductile iron pipe shall comply with Section 1007.10.

Bedding and backfill material shall comply with Section 1003.07.

Plastic soil for slopes shall conform to Section 203.06.5

- b) Ductile iron pipe, unless otherwise noted, shall be Special Thickness Class 52. All iron pipe shall be furnished with an asphaltic outside coating in accordance with AWWA C151 and a cement-mortar lining and seal coating, where applicable, in accordance with AWWA C104.
- c) Ductile iron fittings shall be mechanical joint restrained with external restraints such as Megalug as manufactured by EBAA Iron, Inc., or approved equal in accordance with the applicable requirements of AWWA C110 or C153 with rubber gasket joints conforming to AWWA C111. All fittings shall be furnished with an asphaltic outside coating in accordance with AWWA C151 and a cement-mortar lining and seal coating, in accordance with AWWA C104. All fittings, bends, tees, etc. shall have restrained joints in accordance with and for the length recommended by the manufacturer. All nuts, bolts and washers shall be manufactured of stainless-steel conforming to the requirements of ASTM A276, Grade 316.
- d) Restrained joints for pipe, valves and fittings shall be designed for a working pressure of 350 psi unless otherwise specified. Joints shall be capable of being deflected 4 degrees, after assembly.
- e) All buried ductile iron pipe and fittings shall be wrapped with 8 mils polyethylene wrap in accordance with AWWA C105. This polyethylene wrap shall cover all buried ductile iron pipe and fittings, including joints, and shall be overlapped a minimum of twelve inches between sections and sealed with black polyethylene tape.
- f) Bedding and backfill shall be pumped Mississippi River Sand, free of roots, wood, clay lumps, or any other foreign matter.

CONSTRUCTION REQUIREMENTS.

- a) The Contractor is required to have all materials and equipment on hand prior to the start of excavation so that there will be a minimum of inconvenience to the residents. All trenches must be backfilled at the end of the day.

S-00002 8" WATERLINE OFFSET

- b) The Contractor performing work covered in this section shall be required to coordinate his operations with St. Tammany Parish (Engineering Department) and other utilities prior to making any excavation so that the location of their services can be identified. The Contractor shall exercise caution in making excavations to avoid damage to these services and other utilities. It will be the Contractor's responsibility to verify the location of these so as to avoid damage. Any damage to the existing water, sewer and drain connections resulting from negligence will be repaired by the utility's owner at the expense of the Contractor. The Contractor is also responsible for damage to other utilities and the property of others.
- c) The trench bottom shall be smooth and free from roots, rocks, etc. The pipe shall be laid on a smooth bed of pumped Mississippi River sand six inches in depth for the full width of the trench and extending to the top of the pipe.
- d) Special care should be given in placing and consolidating the sand under the pipe haunches to provide adequate side support to the pipe while avoiding displacement and misalignment. The remainder of the trench shall be spread in loose lifts not to exceed twelve (12) inches and shall be compacted by mechanical vibrating equipment to at least 95 percent laboratory maximum density (dry) as determined by ASTM D 1557 at a moisture content within the limits of plus five (5) percent to minus three (3) percent of optimum. Density tests shall be one (1) per lift per one hundred (100) feet of trench. Field density in-place tests will be performed in accordance with ASTM D 2922.
- e) The Contractor shall prevent foreign material from entering the water main and contaminating it during storage and construction. The Contractor will be responsible for the cleanliness of the main at all times. At the end of each work day or stoppage of work, the Contractor must provide a temporary water tight plug at each open end. When the work is resumed, the trench must be free of water and dirt before the plug is removed.
- f) At points of tie-ins, valves, offsets and other locations where the use of ductile iron pipe is required, the Contractor shall furnish AWWA C150, Special Thickness Class 52 ductile iron pipe with rubber gasket joints. All ductile iron pipe and fittings shall have cement mortar lining in accordance with AWWA C104 and shall be wrapped with 8 mils polyethylene wrapped in accordance with AWWA C105. This tubular wrap shall cover all ductile iron pipe and fittings, including joints, and shall be overlapped a minimum of twelve inches between sections and sealed with black polyethylene tape.
- g) Offsets in water mains shall be made by the Contractor with ductile iron bends or ductile offset fittings. All ductile iron fittings and bends shall be mechanical-joint with retainer glands and shall have stainless steel nuts and bolts. Bends shall be 22.5 degree or 45 degree and no bends greater than 45 degrees are allowed unless specifically called out in the Plans.

MEASUREMENT. Payment for furnishing and installing Waterline Offset shall be for offsets consisting of four (4) mechanical joint bends complete with retainer glands, stainless steel nuts and bolts and any other related or incidental items required to complete this item of work for which separate payment is not provided for under other items in the Uniform Bid Form, and shall be

S-00002 8" WATERLINE OFFSET

made at the contract unit price per each. Water line offsets consisting of only two (2) bends will be paid for at one-half (1/2) the unit price bid. Removal of existing water line will not be measured for payment.

PAYMENT. Payment for 8" Waterline Offset will be made at the contract unit price per Each. Payment shall include removal and disposal of existing material, excavation, embankment, disposing of excess material, placement of bedding and backfill material, grading and all materials, equipment, tools and labor incidental thereto.

Payment will be made under:

<u>Item No.</u>	<u>Pay Item</u>	<u>Pay Unit</u>
S-00002	8" Waterline Offset	Each

S-00003 2" SEWER FORCE MAIN OFFSET

S-00003 2" SEWER FORCE MAIN OFFSET (01/21):

DESCRIPTION: This work will consist of providing a sewer force main offset to an existing sewer force main in accordance with plan details and these specifications and as directed by the Project Engineer. The Contractor shall furnish all materials, equipment and labor to remove the necessary portion of the existing main, install new main including appurtenances such as tie-ins to existing system, lumber foundation, bedding, backfilling, necessary dewatering and by-pass, during execution of this work. The Contractor shall provide the necessary dewatering and by-passing required during execution of this work at no direct pay.

MATERIALS.

- a) Pipe material for sewer mains shall be solid wall polyvinyl chloride (PVC) pipe. PVC Sewer Main shall be solid wall, PVC pipe conforming to ASTM F-679, Class T-1. PVC pipe shall be type PSM Vinyl Chloride (PVC) standard lengths with integral cast bells and elastomeric gaskets as recommended by the manufacturer and ASTM D-3212. St. Tammany Parish reserves the right to approve the type of material.
- b) The maximum allowed deflection for installed PVC sewer pipe is per the manufacturer recommendations. Newly installed pipe that exceeds this allowable deflection shall be removed and replaced with new pipe and reinstalled as per the above specifications at the Contractor's expense.
- c) Bedding material shall be 100% crushed aggregate listed on Qualified Product of the Louisiana Department of Transportation and Development and conforming to ASTM D2321, class 1A Angular Material (1/4" to 1 1/2") and ASTM No. 57. St. Tammany Parish reserves the right to approve the type of bedding material.
- d) Backfill material shall be pumped sand and shall be placed at or near optimum moisture content and compacted according to one of the following procedures:
 1. Backfill material shall be placed in layers not to exceed 12 inches. Each layer shall be compacted to a minimum of 95% of maximum density using approved mechanical compaction equipment. Or,
 2. Backfill material may be placed in layers not exceeding 12 inches by thoroughly compacting each layer to 95% maximum density at or near optimum moisture content using approved mechanical compaction equipment, prior to placing a subsequent layer.

CONSTRUCTION REQUIREMENTS.

- a) The Contractor is required to have all materials and equipment on hand prior to the start of excavation so that there will be a minimum of inconvenience to the residents. All trenches must be backfilled at the end of the day.
- b) The Contractor performing work covered in this section shall be required to coordinate his operations with St. Tammany Parish (Engineering Department) and other utilities prior to making any excavation so that the location of their services can be identified.

S-00003 2" SEWER FORCE MAIN OFFSET

The Contractor shall exercise caution in making excavations to avoid damage to these services and other utilities. It will be the Contractor's responsibility to verify the location of these so as to avoid damage. Any damage to the existing water, sewer and drain connections resulting from negligence will be repaired by the utility's owner at the expense of the Contractor. The Contractor is also responsible for damage to other utilities and the property of others.

- c) The trench bottom shall be relatively smooth and free from rocks, roots, etc. After the sheeting and/or foundation lumber is placed, the pipe shall be laid on a smooth bed of approved bedding material mentioned below, compacted to a density of not less than 95% relative density, six inches deep for the full width of the trench.
- d) The bedding material shall be extended to six inches above the top of the pipe, well compacted (hand or mechanical) in six-inch layers to not less than 95% relative density. The bedding material shall be placed and consolidated under the pipe haunches to provide maximum side support to the pipe while avoiding displacement and misalignment of the pipe.
- e) Drainage fabric shall be installed around the bedding and under the sand backfill. Fabric shall extend a minimum of twelve (12") inches on each side of the trench and shall be secured to each side in a manner acceptable to the Project Engineer. The drainage fabric shall be installed around the bedding and under the sand backfill.

MEASUREMENT. Measurement for furnishing and installing Sewer Force Main Offset shall be made at the contract unit price per each for an offset consisting of joint bends around an existing obstruction. Length of the provide offset will not be measured for payment. Dewatering and by-passing will not be measured for payment. Removal of existing sewer force main will not be measured for payment.

PAYMENT. Payment for Sewer Force Main Offset will be made at the contract unit price per each which includes excavation, pumping, as necessary, complete shoring, foundation lumber, bedding, installation of offset, backfill, drainage fabric, and tie-ins. Cost shall also include removal of the existing main.

Payment will be made under:

<u>Item No.</u>	<u>Pay Item</u>	<u>Pay Unit</u>
S-00003	2" Sewer Force Main Offset	Each

1.0 GENERAL NOTES

- 1.1 THE CONTRACTOR SHALL PROVIDE FOR AND MAINTAIN THROUGH AND LOCAL TRAFFIC AT ALL TIMES AND SHALL CONDUCT OPERATIONS IN SUCH A MANNER AS TO CAUSE THE LEAST POSSIBLE INTERFERENCE WITH TRAFFIC AND BUSINESS. ACCESS TO ALL ROADWAYS THAT ENTER OR EXIT SOUL STREET MUST REMAIN OPEN. ALL COST OF MAINTAINING TRAFFIC SHALL BE INCLUDED IN THE PRICE FOR ITEMS 713-01-00100 AND 713-02-00100.
- 1.2 CONTRACTOR SHALL MAINTAIN DRAINAGE AT ALL TIMES AND MAY BE REQUIRED TO CUT TEMPORARY DRAINAGE TRENCHES IN SHOULDER AS DIRECTED BY THE PROJECT ENGINEER. ANY MATERIAL (RAP, ASPHALT AND CONCRETE) DEPOSITED IN ANY DRAINAGE FEATURE (INLETS, BASINS, PIPES, DITCHES, CROSS DRAINS, ETC.) DURING CONSTRUCTION SHALL BE CLEANED OUT BY THE CONTRACTOR BEFORE FINAL ACCEPTANCE. THE CONTRACTOR SHALL VERIFY THE UNOBSTRUCTED FLOW OF DRAINAGE PRIOR TO FINAL ACCEPTANCE OF THE WORK (NO DIRECT PAYMENT).
- 1.3 CONTRACTOR SHALL INSTALL BLUE COLOR RAISED PAVEMENT MARKERS ADJACENT TO EACH FIRE HYDRANT LOCATION IN ADDITION TO OTHER LOCATIONS AS NOTED. MARKERS ARE TO BE PLACED IN CENTER OF OUTSIDE LANE. PAY ITEM 731-02-00100.
- 1.4 THE CONTRACTOR SHALL BE RESPONSIBLE TO ESTABLISH GRADES FOR MAIN LINE ROADS AND SIDE ROADS TO DIRECT POSITIVE DRAINAGE TO THE NEAREST CATCH BASINS, DROP INLETS, OR DRAINAGE DITCHES WITHOUT POUNDING OF WATER IN ROADWAYS.
- 1.5 THE GENERAL CONTRACTOR SHALL NOTIFY ALL RESIDENTS IN WRITING OF THE SCHEDULED CONSTRUCTION ACTIVITIES AND SEVEN (7) DAYS PRIOR TO ANY DISRUPTION IN SERVICE. THE NOTICES MUST HAVE THE GENERAL CONTRACTORS PHONE NUMBER AND THE NAME OF THE CONTACT PERSON, AND EMERGENCY PHONE NUMBER FOR AFTER HOUR CALLS. NOTICES SHALL NOT BE LEFT IN MAILBOXES UNLESS PROPERLY SENT THRU THE U.S. POST OFFICE.
- 1.6 NOISE CONTROL - CONTRACTOR SHALL TAKE REASONABLE MEASURES TO AVOID UNNECESSARY NOISE APPROPRIATE FOR THE AMBIENT SOUND LEVELS ON THE AREA DURING WORKING HOURS. ALL CONSTRUCTION MACHINERY AND VEHICLES SHALL BE EQUIPPED WITH PRACTICAL SOUND MUFFLING DEVICES, AND OPERATED IN A MANNER TO CAUSE THE LEAST NOISE, CONSISTENT WITH EFFICIENT PERFORMANCE OF THE WORK (NO DIRECT PAYMENT) PER LOCAL NOISE ORDINANCE.
- 1.7 ALL LOCATIONS AND DIMENSIONS OF REPAIRS ARE APPROXIMATE AND SHALL BE DETERMINED IN THE FIELD BY THE PROJECT ENGINEER.
- 1.8 CONTRACTOR SHALL PROVIDE AS-BUILTS AT NO DIRECT PAY.

2.0 ROADWAY

- 2.1 ASPHALT TRANSITION SHALL BE PROVIDED PER DIRECTION OF THE PROJECT ENGINEER AND PAID FOR AT THE CONTRACT UNIT PRICE FOR ITEM NO. 502-01-00100 AND 502-01-00200.
- 2.2 WHENEVER NEW PAVING INTERSECTS OR MEETS EXISTING PAVING THAT IS TO REMAIN, THE GRADES OF THE NEW PAVING SURFACE SHALL MATCH THE GRADE OF THE EXISTING PAVING.

3.0 DRIVEWAYS AND CURB RAMPS

- 3.1 THE EXACT LIMITS OF REMOVAL AND REPLACEMENT OF DRIVEWAYS (CONCRETE, ASPHALT, BRICK, STONE, SLATE, ETC.) SHALL BE DETERMINED BY THE ENGINEER. THE CONTRACTOR SHALL NOT REMOVE ANY DRIVEWAY WITHOUT PRIOR APPROVAL OF THE ENGINEER.
- 3.2 CONTRACTOR TO ALLOW ACCESS TO DRIVEWAYS AT ALL TIMES OR AS PER THE APPROVED TRAFFIC CONTROL PLANS.

4.0 HORTICULTURE REQUIREMENTS

- 4.1 THE CONTRACTOR SHALL VERIFY HEIGHT CLEARANCE FOR TREE CANOPY PRIOR TO CONSTRUCTION, ALL TREE REMOVALS, BRANCH PRUNING, OR ROOT PRUNING SHALL BE PERFORMED BY A LOUISIANA LICENSED ARBORIST WITH INSURANCE WHO HAS WALKED THE JOB WITH THE CHIEF URBAN FORESTER AND RECEIVED A PERMIT TO DO THE REQUIRED WORK PRIOR TO COMMENCEMENT OF CONSTRUCTION. THE ARBORIST SHALL PRUNE BRANCHES AT THE MINIMUM HEIGHT REQUIRED TO PROVIDE CLEARANCE FOR THE CONTRACTOR'S EQUIPMENT.
- 4.2 THE CONTRACTOR SHALL OBTAIN WRITTEN PERMISSION FROM PROPERTY OWNERS PRIOR TO TRIMMING ANY TREES LOCATED ON PRIVATE PROPERTY.
- 4.3 THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF PUBLIC WORKS PRIOR TO REPLACING ANY UTILITY LINES LOCATED NEAR TREES. IF NECESSARY, THE CONTRACTOR SHALL SHORE THE AREA NEAR TREES AND USE ANY OTHER PRECAUTIONS NECESSARY TO PROTECT THE TREES.
- 4.4 THE CONTRACTOR SHALL ESTABLISH GRASS AREAS TO LIKE CONDITIONS PRIOR TO SUBSTANTIAL COMPLETION.
- 4.5 THE CONTRACTOR SHALL NOT PARK, STORE EQUIPMENT NOR MATERIALS ON UNPAVED AREA WITHIN THE CRITICAL ROOT ZONE (CRZ) DEFINED AS ONE FOOT RADIUS FOR EACH INCH OF DIAMETER BREAST HEIGHT (DBH).

5.0 UTILITY CONTACTS

5.1 CONTRACTOR SHALL CONTACT THE FOLLOWING AT LEAST THREE (3) WORKING DAYS PRIOR TO CONSTRUCTION AROUND THEIR RESPECTIVE UTILITIES AND THE CONTRACTOR SHALL COORDINATE WITH UTILITY OWNERS REGARDING ANY NECESSARY UTILITY ADJUSTMENTS:

UTILITY	OWNER	TELEPHONE	CONTACT
SEWERAGE	TAMMANY UTILITIES	985-276-6400	TIM BROWN
WATER	TAMMANY UTILITIES	985-276-6400	TIM BROWN
ELECTRIC	CLECO	985-867-4616	JOE SILBERNAGEL
GAS	ATMOS ENERGY	985-345-9416	JEFF RAIFORD
COMMUNICATIONS	AT&T	985-327-6432	STEVE BERGERON
LOUISIANA ONE CALL		800-584-4274 OR 811	




- 5.2 THE CONTRACTOR SHALL VERIFY THE EXISTING UTILITY LINES IN SERVICE AND SHALL TAKE NECESSARY PRECAUTIONS TO PROTECT THEM. CONTRACTOR SHALL COORDINATE THE ADJUSTMENT OF PRIVATE UTILITY MANHOLES AND UNDERGROUND STRUCTURES.
- 5.3 THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH UTILITY COMPANIES AND AGENCIES TO DETERMINE EXACT LOCATIONS (HORIZONTAL AND VERTICAL) OF THEIR FACILITIES TO AVOID POTENTIAL CONFLICT AND DAMAGE. CONFLICTS SHALL BE BROUGHT TO THE PROJECT ENGINEER'S ATTENTION PRIOR TO THE START OF CONSTRUCTION.

6.0 TRAFFIC CONTROL

- 6.1 A MINIMUM OF 10 DAYS PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT A SEQUENCE OF CONSTRUCTION AND TRAFFIC CONTROL PLAN TO THE PROJECT ENGINEER FOR REVIEW, FOLLOWING THE PROJECT ENGINEER'S REVIEW AND CONCURRENCE, THE CONTRACTOR SHALL SUBMIT SAME TO THE DEPARTMENT OF PUBLIC WORKS PROJECT ENGINEER, PER THE APPROPRIATE SECTION OF THAT PARISH'S GENERAL SPECIFICATIONS, WHICH AT A MINIMUM SHALL INCLUDE THE FOLLOWING:
 - 1. A SIGN INVENTORY- A LIST OF ALL EXISTING TRAFFIC CONTROL DEVICES (SIGNS, SIGNALS, RAISED MARKERS, PAVEMENT MARKINGS, ETC.) ACCURATELY LOCATED ON THE PLANS (NO DIRECT PAY).
 - 2. A PLAN FOR THE PROPOSED ROUTE ON WHICH CONSTRUCTION MATERIALS AND EQUIPMENT ARE TO BE TRANSPORTED TO OR FROM THE CONSTRUCTION SITE.
 - 3. A DETOUR PLAN SHOWING PROPOSED ROUTES FOR LOCAL AND TRANSIENT TRAFFIC ON WHICH LOCATIONS OF DETOUR TRAFFIC CONTROL DEVICES AND CONSTRUCTION ZONE OR WORK ZONE TRAFFIC CONTROL DEVICES ARE SHOWN. TRAFFIC CONTROL DEVICE APPLICATIONS AND METHODS SHALL BE IN COMPLIANCE WITH PART 6 OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND LADOTD TC SHEETS INCLUDED IN THE PLANS.
 - 4. ALL LANE CLOSURES.
 - 5. THESE PLANS SHALL INCLUDE THE NAME AND THE TELEPHONE OF THE RESPONSIBLE PERSON IN CHARGE OF THE PROJECT AND TRAFFIC CONTROL.
- 6.2 ALL EXISTING TRAFFIC CONTROL DEVICES THAT ARE IN CONFLICT WITH THE CONSTRUCTION OR WORK ZONE TRAFFIC CONTROL PLAN SHALL BE COVERED OR REMOVED BY THE CONTRACTOR, AND THE REMOVED DEVICES RETURNED TO THE ST. TAMMANY SALVAGE YARD. ALL EXISTING DEVICES LEFT IN THE CONSTRUCTION OR WORK ZONE SHALL BE MAINTAINED IN GOOD CONDITION BY THE CONTRACTOR DURING THE COURSE OF CONSTRUCTION.
- 6.3 ANY DAMAGE CAUSED BY THE CONTRACTOR'S WORK SHALL BE IMMEDIATELY REPORTED BY THE CONTRACTOR TO THE PROJECT ENGINEER. REPAIRS SHALL BE PERFORMED BY THE CONTRACTOR OR BY PARISH FORCES, AT THE DISCRETION OF THE PARISH PROJECT ENGINEER, WITH ALL ASSOCIATED COSTS BEING PAID BY THE CONTRACTOR.

LEGEND-ABBREVIATIONS

ABBREVIATIONS	DESCRIPTION
ADJ.	ADJUST.
CONC.	CONCRETE
R/R	REMOVE AND REPLACE
REQ'D	REQUIRED
CB	CATCH BASIN
R	RADIUS
R/R	REMOVE AND REPLACE
RW	RIGHT-OF-WAY
SDP/SDPA	STORM DRAIN PIPE / ARCH

SHEET NUMBER	2
ST. TAMMANY	000-52
PARISH	CONTROL SECTION
BBS CHECKED	BBS CHECKED
RUB	CRH
SERIES NUMBER	1 OF 1
REVISION OR CHANGE ORDER DESCRIPTION	BY
NO.	DATE
	
GENERAL CONSTRUCTION NOTES	
SOUL ST. ROAD IMPROVEMENTS	
	
	

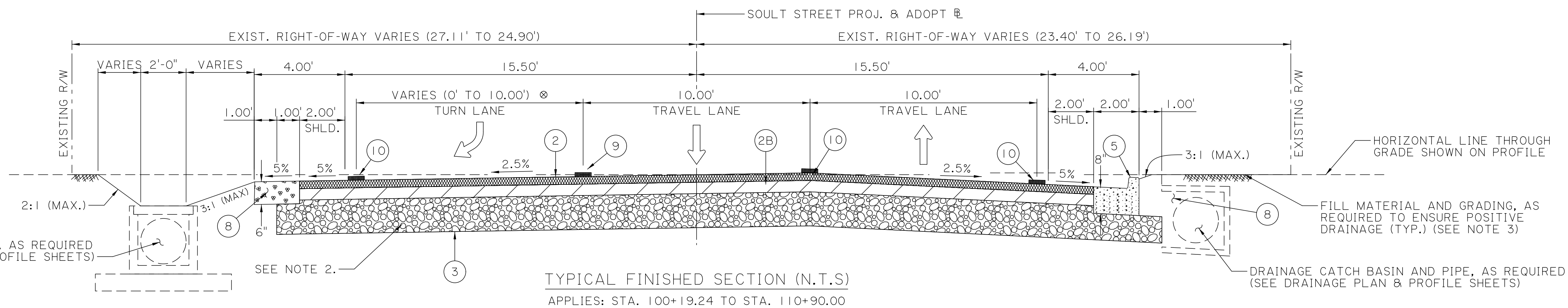
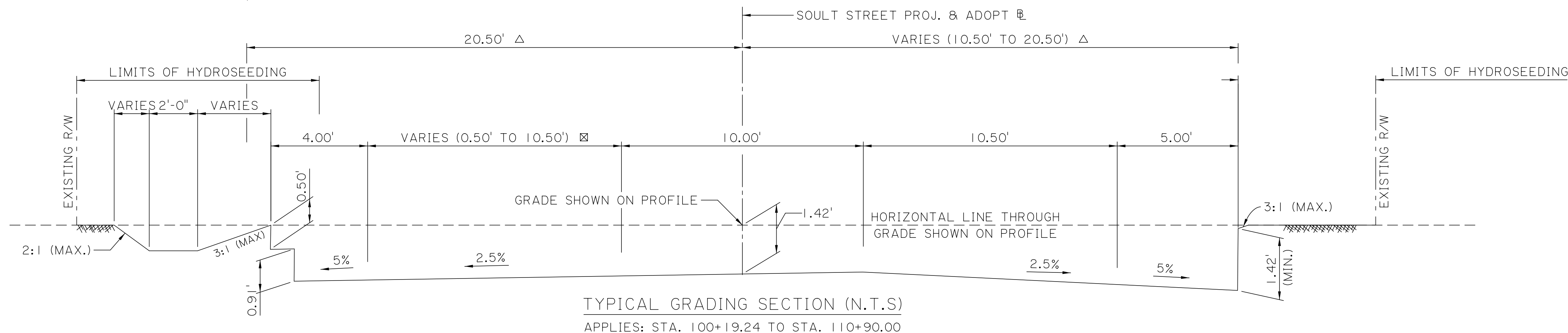

 RANDAL J. BONURA
 License No. 39851
 PROFESSIONAL ENGINEER
 IN
 CIVIL ENGINEERING
Randal J. Bonura
 1/8/2021

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NOTES:

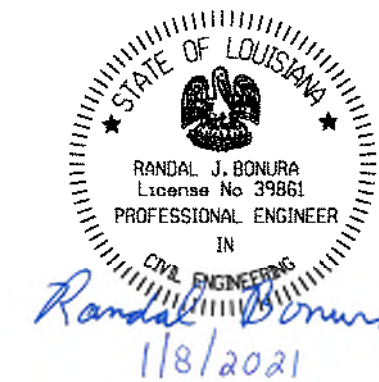
- AREA OF EXISTING DRAINAGE DITCH WHICH FALLS WITHIN REQ'D ROADWAY OR SHOULDER LIMITS SHALL BE MUCK EXCAVATED TO A DEPTH OF 1'-0" AND BACKFILLED WITH NON PLASTIC EMBANKMENT AS NECESSARY. THE LIMITS OF MUCK EXCAVATION SHALL EXTEND TO A POINT ON THE DITCH SIDE SLOPE APPROXIMATELY 1'-0" ABOVE THE EXISTING DITCH INVERT. THIS WORK WILL BE UNDER THE FOLLOWING ITEMS:
 ITEM NO. 203-02-00100 DRAINAGE EXCAVATION
 ITEM NO. 203-04-00200 NONPLASTIC EMBANKMENT (SAND)
- CONTRACTOR HAS THE OPTION TO USE FULL DEPTH ASPHALT PATCHES IN LIEU OF THE CLASS II BASE COURSE REPAIR WITH WRITTEN APPROVAL FROM ST. TAMMANY PARISH DPW. THE ASPHALT CONCRETE TO CLASS II BASE COURSE SUBSTITUTION SHALL BE ACHIEVED WITH A 1 : 2 RATIO (i.e. FOR EVERY 2 INCHES OF CLASS II BASE COURSE, A MINIMUM OF 1 INCH OF ASPHALT SHALL BE SUBSTITUTED).
- THE EMBANKMENT SHALL BE INCLUDED IN THE COST FOR THE BID ITEM CONCRETE CURB (LNF).

- △ TO BE CONSTRUCTED FREE OF OBSTRUCTIONS
- ⊗ 10.50' APPLIES STA. 100+19.24 TO STA. 109+30.00
- ⊗ 10.00' APPLIES STA. 100+19.24 TO STA. 109+30.00



- ⊗ 1 MILLING ASPHALT PAVEMENT
- ⊗ 1A EXISTING PAVEMENT SECTION (3" AVG. ASPHALT CONCRETE PAVEMENT)
- ⊗ 2 2" THICK ASPHALT CONCRETE WEARING COURSE (LEVEL 1F)
- ⊗ 2A ASPHALT CONCRETE LEVELING COURSE (AS NEEDED) Δ
- ⊗ 2B 3" THICK ASPHALT CONCRETE BINDER COURSE (LEVEL 1)
- ⊗ 3 12" THICK CLASS II BASE COURSE (CRUSHED STONE OR RECYCLED PORTLAND CONCRETE)
- ⊗ 3A 8" THICK CLASS II BASE COURSE (CRUSHED STONE OR RECYCLED PORTLAND CONCRETE)
- ⊗ 4 REQUIRED FULL DEPTH SAWCUT OF ASPHALT CONCRETE PAVEMENT
- ⊗ 5 2' CONCRETE COMBINATION CURB & GUTTER (BARRIER TYPE) (SEE DOTD STD. PLAN CP-01 FOR DETAILS)
- ⊗ 6 REMOVE EXISTING PAVEMENT AND BASE COURSE FOR PAVEMENT PATCHING
- ⊗ 7 12" THICK ASPHALT CONCRETE PATCHING
- ⊗ 8 EMBANKMENT
- ⊗ 9 PAVEMENT STRIPING & REFLECTORIZED MARKER
- ⊗ 10 PAVEMENT STRIPING
- ⊗ NOT USED THIS SHEET.

△ ASPHALT LEVELING LOCATIONS TO BE DETERMINED FOLLOWING MILLING OPERATIONS.



SHEET NUMBER	2A
DESIGNED	CEH
CHECKED	RJB
DATE	NOV 2021
Detailed	BBS
CHECKED	CRH
DATE	NOV 2021
Series	1 OF 6
NUMBER	
REVISION OR CHANGE ORDER DESCRIPTION	BY
TYPICAL SECTIONS	
SOULT ST. ROAD IMPROVEMENTS	
ST. TAMMANY	
PARISH	
CONTROL SECTION	
000-52	
PROJECT	
EN18000011	



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1/8/2021

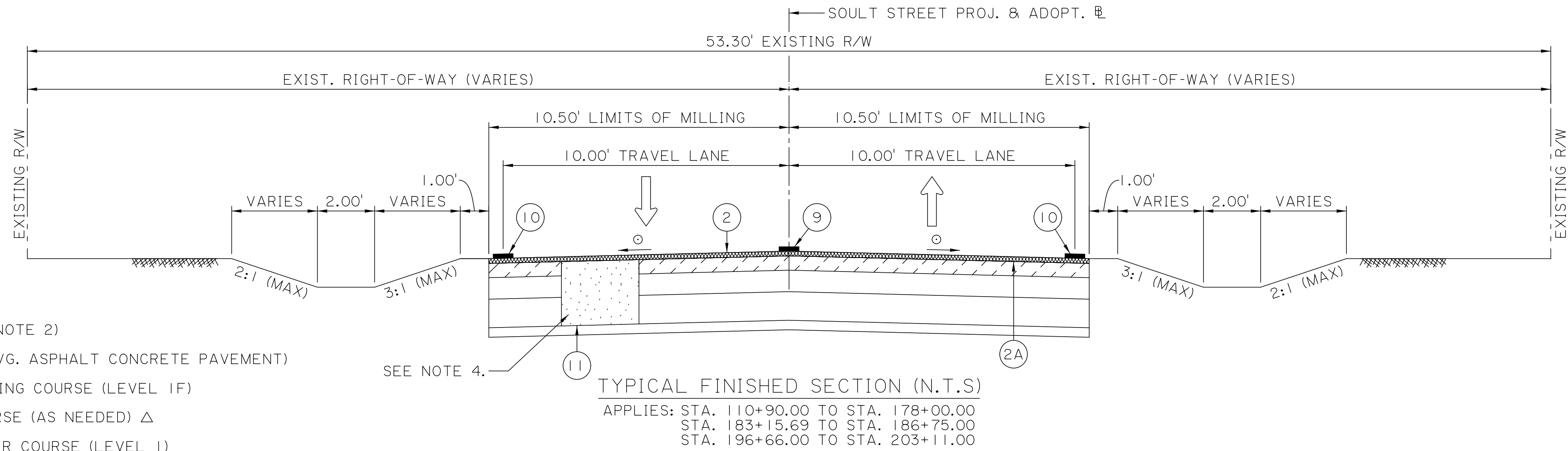
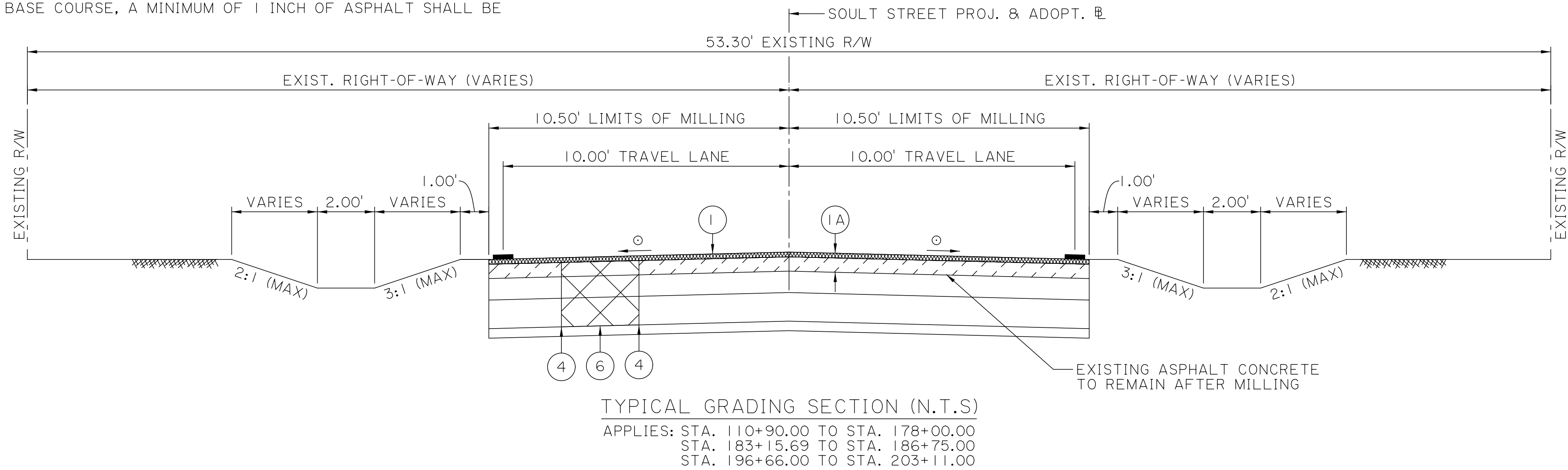
100% FINAL PLANS

Typical Section.dgn

NOTES:

1. AREA OF EXISTING DRAINAGE DITCH WHICH FALLS WITHIN REQ'D ROADWAY OR SHOULDER LIMITS SHALL BE MUCK EXCAVATED TO A DEPTH OF 1'-0" AND BACKFILLED WITH NON PLASTIC EMBANKMENT AS NECESSARY. THE LIMITS OF MUCK EXCAVATION SHALL EXTEND TO A POINT ON THE DITCH SIDE SLOPE APPROXIMATELY 1'-0" ABOVE THE EXISTING DITCH INVERT. THIS WORK WILL BE UNDER THE FOLLOWING ITEMS:
ITEM NO. 203-02-00100 DRAINAGE EXCAVATION
ITEM NO. 203-04-00200 NONPLASTIC EMBANKMENT (SAND)
2. SCRATCH MILL EXISTING ASPHALT CONCRETE. PATCH LOCATIONS TO BE DETERMINED IN THE FIELD AS DIRECTED BY PROJECT ENGINEER. SEE CPR-07 FOR PAVEMENT PATCHING DETAILS.
3. SEE PLAN AND PROFILE SHEETS FOR LIMITS OF DITCH GRADING.
4. CONTRACTOR HAS THE OPTION TO USE FULL DEPTH ASPHALT PATCHES IN LIEU OF THE CLASS II BASE COURSE REPAIR WITH WRITTEN APPROVAL FROM ST. TAMMANY PARISH DPW. THE ASPHALT CONCRETE TO CLASS II BASE COURSE SUBSTITUTION SHALL BE ACHIEVED WITH A 1: 2 RATIO (i.e. FOR EVERY 2 INCHES OF CLASS II BASE COURSE, A MINIMUM OF 1 INCH OF ASPHALT SHALL BE SUBSTITUTED).

© MATCH EXISTING CROSS SLOPE



- ① MILLING ASPHALT PAVEMENT (SEE NOTE 2)
- ①A EXISTING PAVEMENT SECTION (3" AVG. ASPHALT CONCRETE PAVEMENT)
- ② 2" THICK ASPHALT CONCRETE WEARING COURSE (LEVEL 1F)
- ②A ASPHALT CONCRETE LEVELING COURSE (AS NEEDED) △
- ③ 3" THICK ASPHALT CONCRETE BINDER COURSE (LEVEL 1)
- ③ 12" THICK CLASS II BASE COURSE (CRUSHED STONE OR RECYCLED PORTLAND CONCRETE)
- ③A 8" THICK CLASS II BASE COURSE (CRUSHED STONE OR RECYCLED PORTLAND CONCRETE)
- ④ REQUIRED FULL DEPTH SAWCUT OF ASPHALT CONCRETE PAVEMENT
- ⑤ 2' CONCRETE COMBINATION CURB & GUTTER (BARRIER TYPE) (SEE DOTD STD. PLAN CP-01 FOR DETAILS)
- ⑥ REMOVE EXISTING PAVEMENT AND BASE COURSE FOR PAVEMENT PATCHING
- ⑦ 12" THICK ASPHALT CONCRETE PATCHING
- ⑧ EMBANKMENT
- ⑨ PAVEMENT STRIPING & REFLECTORIZED MARKER
- ⑩ PAVEMENT STRIPING
- ⑪ 12" THICK AVERAGE ASPHALT CONCRETE PATCHING (LEVEL 2)
- ❑ NOT USED THIS SHEET.

△ ASPHALT LEVELING LOCATIONS TO BE DETERMINED FOLLOWING MILLING OPERATIONS.



SHEET NUMBER	2B
DESIGNED	ST. TAMMANY
CHECKED	
REVIEWED	
DATE	
NO.	
BY	
TYPICAL SECTIONS	
SOULT ST. ROAD IMPROVEMENTS	
PARISH	ST. TAMMANY
CONTROL SECTION	000-52
PROJECT	EN18000011
CEH CHECKED	
RUB CHECKED	
BBS CHECKED	
CRH CHECKED	
SERIES NUMBER	2 OF 6
REVISION OR CHANGE ORDER DESCRIPTION	



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100% FINAL PLANS

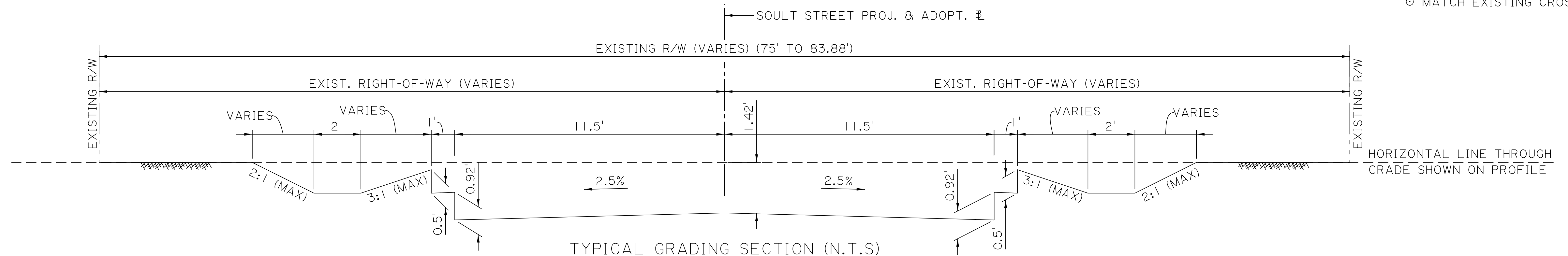
Typical Section.dgn

NOTES:

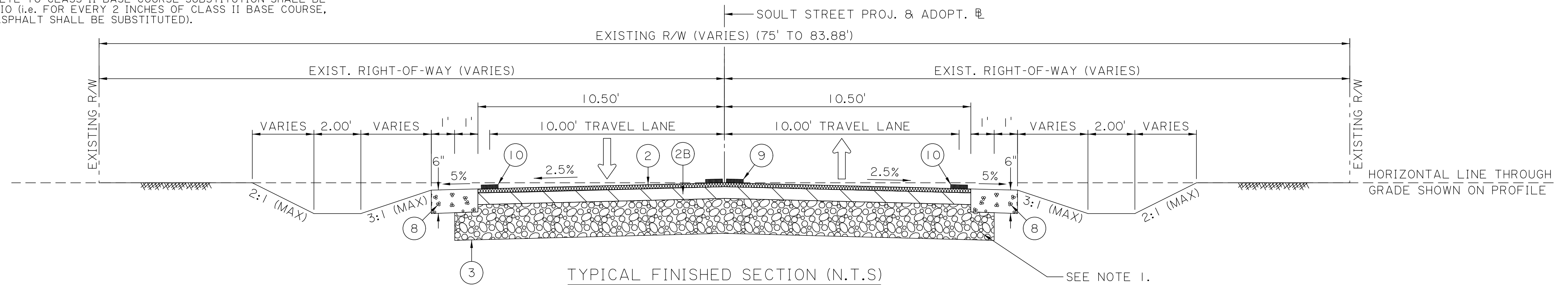
1. CONTRACTOR HAS THE OPTION TO USE FULL DEPTH ASPHALT PATCHES IN LIEU OF THE CLASS II BASE COURSE REPAIR WITH WRITTEN APPROVAL FROM ST. TAMMANY PARISH DPW. THE ASPHALT CONCRETE TO CLASS II BASE COURSE SUBSTITUTION SHALL BE ACHIEVED WITH A 1: 2 RATIO (I.E. FOR EVERY 2 INCHES OF CLASS II BASE COURSE, A MINIMUM OF 1 INCH OF ASPHALT SHALL BE SUBSTITUTED).

* PROPOSED ROADWAY CENTERLINE / ADOPT. BASELINE 1 VARIES FROM SOULT STREET PROJ. & ADOPT. C/L. SEE PLAN AND PROFILE SHEETS FOR DETAILS.

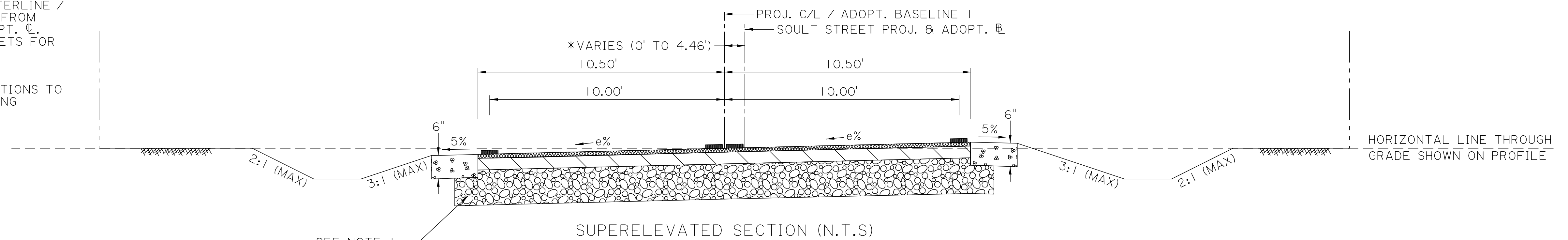
Δ ASPHALT LEVELING LOCATIONS TO BE DETERMINED FOLLOWING MILLING OPERATIONS.



APPLIES: STA. 178+00.00 TO STA. 178+32.38 (SOULT STREET PROJ. & ADOPT. B/L) STA. 1+00.00 TO STA. 1+32.38 (PROPOSED C/L / ADOPT. BASELINE 1) STA. 183+02.04 TO STA. 183+15.69 (SOULT STREET PROJ. & ADOPT. B/L) STA. 6+00.44 TO STA. 6+14.09 (PROPOSED C/L / ADOPT. BASELINE 1)



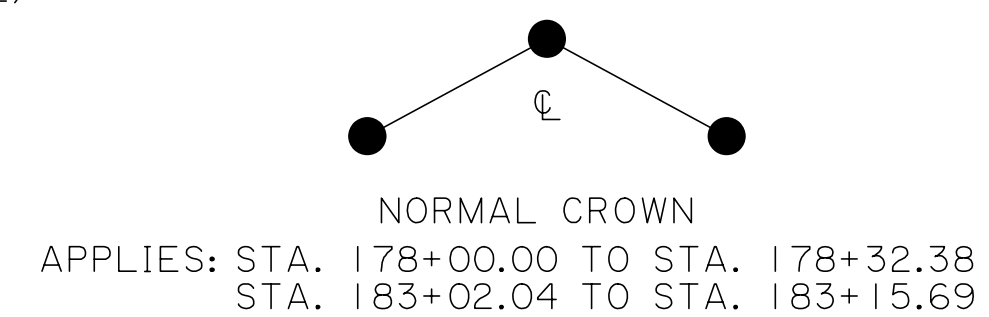
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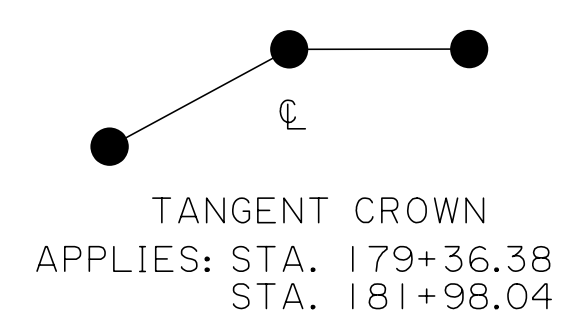
APPLIES: STA. 178+32.38 TO STA. 183+02.04 (SOULT STREET PROJ. & ADOPT B/L) STA. 1+32.38 TO STA 6+00.44 (PROPOSED C/L / ADOPT. BASELINE 1)

NOTES: SUPERELEVATION TO BE ATTAINED BY ROTATING THE OUTSIDE LANE ABOUT THE CENTERLINE UNTIL THE ROADWAY CROSS SLOPE EQUALS 2.5%. THE ENTIRE ROADWAY WILL THEN ROTATE ABOUT THE CENTERLINE UNTIL A MAXIMUM CROSS SLOPE OF "e" IS OBTAINED.

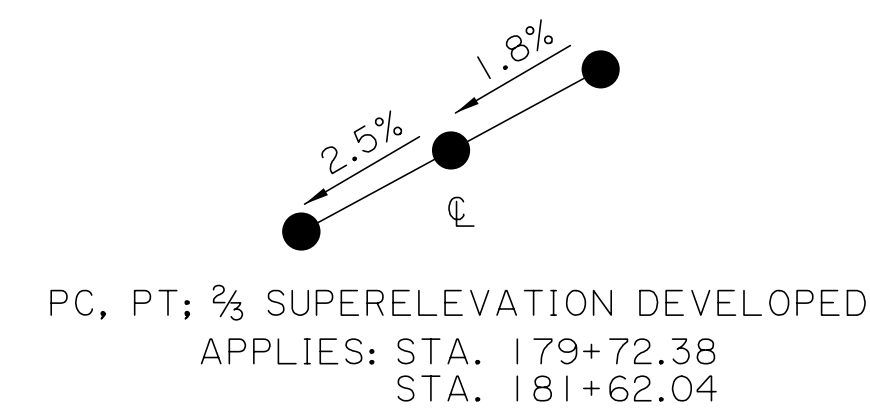
e = SUPERELEVATION RATE



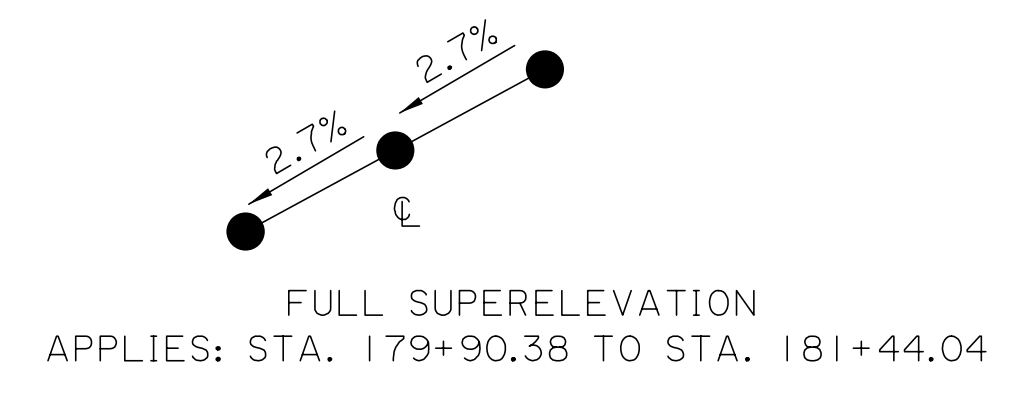
APPLIES: STA. 178+00.00 TO STA. 178+32.38 STA. 183+02.04 TO STA. 183+15.69



APPLIES: STA. 179+36.38 TO STA. 181+98.04



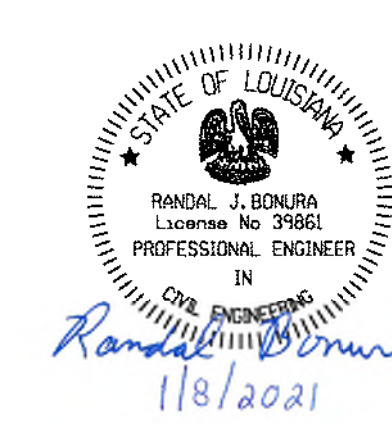
APPLIES: STA. 179+72.38 TO STA. 181+62.04



APPLIES: STA. 179+90.38 TO STA. 181+44.04

SUPERELEVATION DETAILS

- Legend for pavement and construction items: 1 MILLING ASPHALT PAVEMENT, 1A EXISTING PAVEMENT SECTION (3" AVG. ASPHALT CONCRETE PAVEMENT), 2 2" THICK ASPHALT CONCRETE WEARING COURSE (LEVEL 1F), 2A ASPHALT CONCRETE LEVELING COURSE (AS NEEDED) Δ, 2B 3" THICK ASPHALT CONCRETE BINDER COURSE (LEVEL 1), 3 12" THICK CLASS II BASE COURSE (CRUSHED STONE OR RECYCLED PORTLAND CONCRETE), 3A 8" THICK CLASS II BASE COURSE (CRUSHED STONE OR RECYCLED PORTLAND CONCRETE), 4 REQUIRED FULL DEPTH SAWCUT OF ASPHALT CONCRETE PAVEMENT, 5 2' CONCRETE COMBINATION CURB & GUTTER (BARRIER TYPE) (SEE DOTD STD. PLAN CP-01 FOR DETAILS), 6 REMOVE EXISTING PAVEMENT AND BASE COURSE FOR PAVEMENT PATCHING, 7 12" THICK ASPHALT CONCRETE PATCHING, 8 EMBANKMENT, 9 PAVEMENT STRIPING & REFLECTORIZED MARKER, 10 PAVEMENT STRIPING, NOT USED THIS SHEET.



Sheet information table including SHEET NUMBER (2C), ST. TAMMANY PARISH CONTROL SECTION (000-52), PROJECT (ENI 18000011), CEH CHECKED (RUB), DETAILED (BBS), CHECKED (CRH), SERIES NUMBER (3 OF 6), and logos for ST. TAMMANY PARISH GOV and HNTB.

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1/8/2021

100% FINAL PLANS

NOTES:

1. AREA OF EXISTING DRAINAGE DITCH WHICH FALLS WITHIN REQ'D ROADWAY OR SHOULDER LIMITS SHALL BE MUCK EXCAVATED TO A DEPTH OF 1'-0" AND BACKFILLED WITH NON PLASTIC EMBANKMENT AS NECESSARY. THE LIMITS OF MUCK EXCAVATION SHALL EXTEND TO A POINT ON THE DITCH SIDE SLOPE APPROXIMATELY 1'-0" ABOVE THE EXISTING DITCH INVERT. THIS WORK WILL BE UNDER THE FOLLOWING ITEMS:

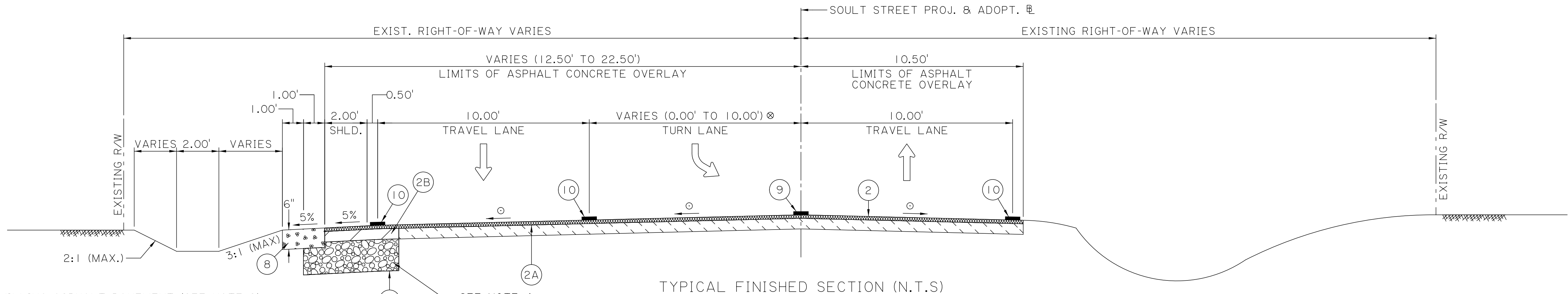
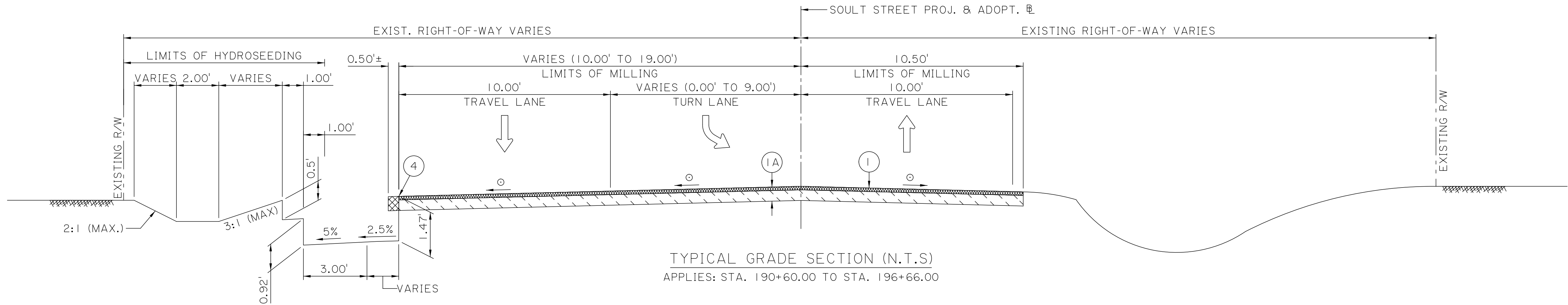
- ITEM NO. 203-02-00100 DRAINAGE EXCAVATION
- ITEM NO. 203-04-00200 NONPLASTIC EMBANKMENT (SAND)

2. SCRATCH MILL EXISTING ASPHALT CONCRETE. PATCH LOCATIONS TO BE DETERMINED IN THE FIELD AS DIRECTED BY PROJECT ENGINEER. SEE CPR-07 FOR PAVEMENT PATCHING DETAILS.

3. 12" THICK ASPHALT CONCRETE SHALL BE PAID UNDER ITEM 510-01-00200 PAVEMENT PATCHING (12" MINIMUM THICKNESS).

4. CONTRACTOR HAS THE OPTION TO USE FULL DEPTH ASPHALT PATCHES IN LIEU OF THE CLASS II BASE COURSE REPAIR WITH WRITTEN APPROVAL FROM ST. TAMMANY PARISH DPW. THE ASPHALT CONCRETE TO CLASS II BASE COURSE SUBSTITUTION SHALL BE ACHIEVED WITH A 1: 2 RATIO (i.e. FOR EVERY 2 INCHES OF CLASS II BASE COURSE, A MINIMUM OF 1 INCH OF ASPHALT SHALL BE SUBSTITUTED).

○ MATCH EXISTING CROSS SLOPE
⊗ 10.00' TRAVEL LANE APPLIES STA. 187+55.00 TO 190+05.00



- ① MILLING ASPHALT PAVEMENT (SEE NOTE 2)
- ①A EXISTING PAVEMENT SECTION (3" AVG. ASPHALT CONCRETE PAVEMENT)
- ② 2" THICK ASPHALT CONCRETE WEARING COURSE (LEVEL 1F)
- ②A ASPHALT CONCRETE LEVELING COURSE (AS NEEDED) Δ
- ②B 3" THICK ASPHALT CONCRETE BINDER COURSE (LEVEL 1)
- ③ 12" THICK CLASS II BASE COURSE (CRUSHED STONE OR RECYCLED PORTLAND CONCRETE)
- ③A 8" THICK CLASS II BASE COURSE (CRUSHED STONE OR RECYCLED PORTLAND CONCRETE)
- ④ REQUIRED FULL DEPTH SAWCUT OF ASPHALT CONCRETE PAVEMENT
- ⑤ 2' CONCRETE COMBINATION CURB & GUTTER (BARRIER TYPE) (SEE DOTD STD. PLAN CP-01 FOR DETAILS)
- ⑥ REMOVE EXISTING PAVEMENT AND BASE COURSE FOR PAVEMENT PATCHING
- ⑦ 12" THICK ASPHALT CONCRETE PATCHING
- ⑧ EMBANKMENT
- ⑨ PAVEMENT STRIPING & REFLECTORIZED MARKER
- ⑩ PAVEMENT STRIPING
- NOT USED THIS SHEET.

Δ ASPHALT LEVELING LOCATIONS TO BE DETERMINED FOLLOWING MILLING OPERATIONS.

Typical Section.dgn

SHEET NUMBER	2E
DESIGNED	CEH
CHECKED	RJB
DATE	NO. DATE
REVISION OR CHANGE ORDER DESCRIPTION	BY
NO.	DATE
Randal J. Bonura 1/8/2021 PROFESSIONAL ENGINEER IN CIVIL ENGINEERING	
HNTB	

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100% FINAL PLANS

Typical Section.dgn

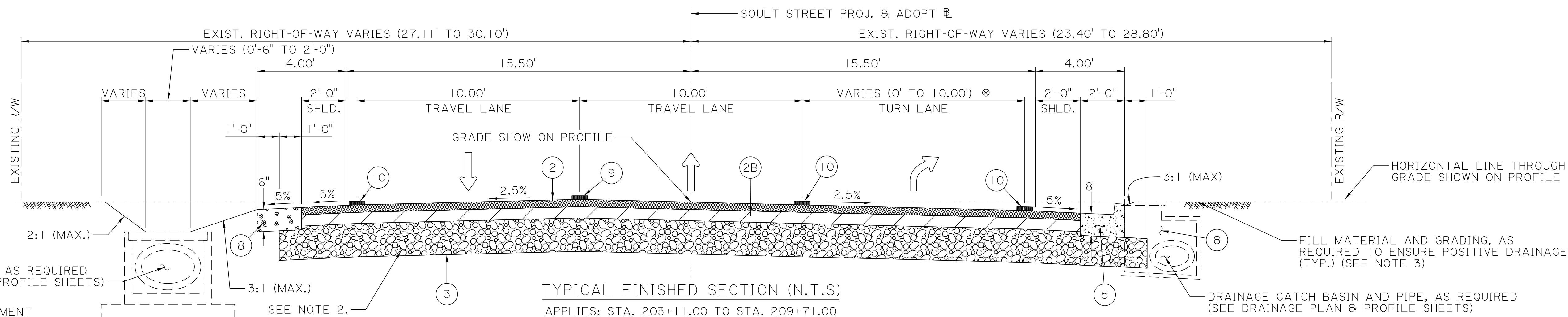
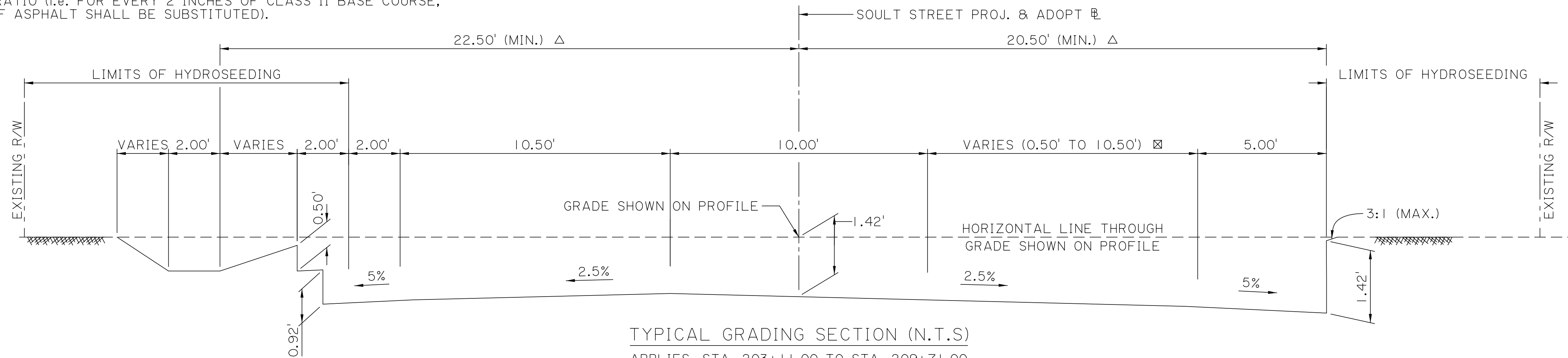
NOTES:

- 1. AREA OF EXISTING DRAINAGE DITCH WHICH FALLS WITHIN REQ'D ROADWAY OR SHOULDER LIMITS SHALL BE MUCK EXCAVATED TO A DEPTH OF 1'-0" AND BACKFILLED WITH NON PLASTIC EMBANKMENT AS NECESSARY. THE LIMITS OF MUCK EXCAVATION SHALL EXTEND TO A POINT ON THE DITCH SIDE SLOPE APPROXIMATELY 1'-0" ABOVE THE EXISTING DITCH INVERT. THIS WORK WILL BE UNDER THE FOLLOWING ITEMS:
 - ITEM NO. 203-02-00100 DRAINAGE EXCAVATION
 - ITEM NO. 203-04-00200 NONPLASTIC EMBANKMENT (SAND)

- 3. THE EMBANKMENT SHALL BE INCLUDED IN THE COST FOR THE BID ITEM CONCRETE CURB (LNF).

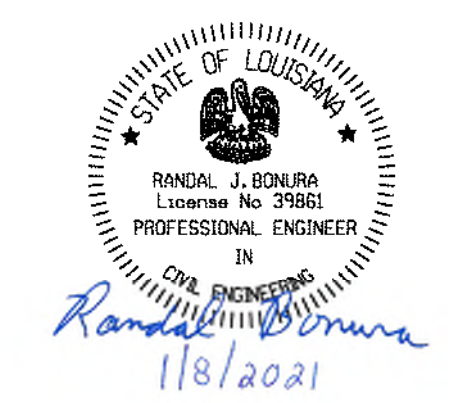
- 2. CONTRACTOR HAS THE OPTION TO USE FULL DEPTH ASPHALT PATCHES IN LIEU OF THE CLASS II BASE COURSE REPAIR WITH WRITTEN APPROVAL FROM ST. TAMMANY PARISH DPW. THE ASPHALT CONCRETE TO CLASS II BASE COURSE SUBSTITUTION SHALL BE ACHIEVED WITH A 1: 2 RATIO (i.e. FOR EVERY 2 INCHES OF CLASS II BASE COURSE, A MINIMUM OF 1 INCH OF ASPHALT SHALL BE SUBSTITUTED).

△ TO BE CONSTRUCTED FREE OF OBSTRUCTIONS
 ☒ 10.50' APPLIES STA. 204+71.45 TO 209+71.00
 ⊗ 10.00' TRAVEL LANE APPLIES STA. 204+71.45 TO STA. 209+71.00



- ① MILLING ASPHALT PAVEMENT
- ①A EXISTING PAVEMENT SECTION (3" AVG. ASPHALT CONCRETE PAVEMENT)
- ② 2" THICK ASPHALT CONCRETE WEARING COURSE (LEVEL 1F)
- ②A ASPHALT CONCRETE LEVELING COURSE (AS NEEDED) △
- ②B 3" THICK ASPHALT CONCRETE BINDER COURSE (LEVEL 1)
- ③ 12" THICK CLASS II BASE COURSE (CRUSHED STONE OR RECYCLED PORTLAND CONCRETE)
- ③A 8" THICK CLASS II BASE COURSE (CRUSHED STONE OR RECYCLED PORTLAND CONCRETE)
- ④ REQUIRED FULL DEPTH SAWCUT OF ASPHALT CONCRETE PAVEMENT
- ⑤ 2' CONCRETE COMBINATION CURB & GUTTER (BARRIER TYPE) (SEE DOTD STD. PLAN CP-01 FOR DETAILS)
- ⑥ REMOVE EXISTING PAVEMENT AND BASE COURSE FOR PAVEMENT PATCHING
- ⑦ 12" THICK ASPHALT CONCRETE PATCHING
- ⑧ EMBANKMENT
- ⑨ PAVEMENT STRIPING & REFLECTORIZED MARKER
- ⑩ PAVEMENT STRIPING
- NOT USED THIS SHEET.

△ ASPHALT LEVELING LOCATIONS TO BE DETERMINED FOLLOWING MILLING OPERATIONS.




SHEET NUMBER	2F
DESIGNED	ST. TAMMANY
CHECKED	000-52
DETAILED	ENI 8000011
CHECKED	PROJECT
SERIES NUMBER	6 OF 6
BY	REVISION OR CHANGE ORDER DESCRIPTION
NO.	DATE
TYPICAL SECTIONS	
SOULT ST. ROAD IMPROVEMENTS	

SUMMARY OF ESTIMATED QUANTITIES				
SPEC	ITEM	DESCRIPTION	UNITS	QUANTITY
201-01-	00200	CLEARING AND GRUBBING	LUMP	1.0
202-01-	00100	REMOVAL OF STRUCTURES AND OBSTRUCTIONS	LUMP	1.0
202-02-	00020	REMOVAL OF GRAVEL DRIVES	SQYD	92.3
202-02-	02000	REMOVAL OF ASPHALT DRIVES	SQYD	209.9
202-02-	02020	REMOVAL OF ASPHALT PAVEMENT	SQYD	6422.9
202-02-	06100	REMOVAL OF CONCRETE WALKS AND DRIVES	SQYD	415.8
202-02-	12000	REMOVAL OF FENCE	LNFT	202.0
202-02-	32100	REMOVAL OF PIPE (CROSS DRAIN)	LNFT	536.0
202-02-	32120	REMOVAL OF PIPE (SIDE DRAIN)	LNFT	957.0
202-02-	32500	REMOVAL OF PORTLAND CEMENT CONCRETE PAVEMENT	SQYD	193.4
202-02-	38200	REMOVAL OF SIGNS	EACH	34.0
202-02-	38300	REMOVAL OF SIGN & U-CHANNEL POST	EACH	45.0
203-01-	00100	GENERAL EXCAVATION	CUYD	6647.7
203-02-	00100	DRAINAGE EXCAVATION	CUYD	853.5
203-03-	00100	EMBANKMENT	CUYD	500.0
203-04-	00200	NONPLASTIC EMBANKMENT (SAND)	CUYD	1782.2
204-06-	00100	TEMPORARY SILT FENCING	LNFT	5000.0
302-02-	12070	CLASS II BASE COURSE (12" THICK) (CRUSHED STONE OR RECYCLED PORTLAND CEMENT CONCRETE)	SQYD	17725.0
402-01-	00100	MAINLINE TRAFFIC MAINTENANCE SURFACING (AGGREGATE) (VEHICULAR MEASUREMENT)	CUYD	100.0
502-01-	00100	ASPHALTIC CONCRETE	TON	4941.9
502-01-	00200	ASPHALT CONCRETE, DRIVES, TURNOUTS AND MISCELLANEOUS	TON	229.8
509-01-	00100	MILLING ASPHALT PAVEMENT (1" AVG. THICKNESS)	SQYD	21355.9
510-01-	00200	PAVEMENT PATCHING (12" MINIMUM THICKNESS)	SQYD	2250.0
601-01-	00100	PORTLAND CEMENT CONCRETE PAVEMENT (8" THICK) (24 HR HIGH EARLY STRENGTH)	SQYD	192.1
701-04-	01000	STORM DRAIN PIPE ARCH (15" EQUIV. RCPA)	LNFT	1367.0
701-04-	01020	STORM DRAIN PIPE ARCH (18" EQUIV. RCPA)	LNFT	772.0
701-04-	01040	STORM DRAIN PIPE ARCH (24" EQUIV. RCPA)	LNFT	1625.0
701-05-	01061	SIDE DRAIN PIPE (24" RCP/RVCP/CPEPDW/CMP)	LNFT	2141.5
702-02-	00100	MANHOLES (MH-06)	EACH	40.0
702-03-	00100	CATCH BASINS (CB-01)	EACH	28.0
702-03-	00500	CATCH BASINS (CB-06)	EACH	9.0
702-03-	00600	CATCH BASINS (CB-07)	EACH	1.0
702-04-	00200	ADJUSTING CATCH BASINS	EACH	2
705-09-	00100	REBUILT FENCE (6' HIGH WOOD FENCE)	LNFT	130
706-02-	00200	CONCRETE DRIVE (6" THICK) (24 HR HIGH EARLY STRENGTH)	SQYD	264.2
707-03-	00100	COMBINATION CONCRETE CURB AND GUTTER	LNFT	1750.0
713-01-	00100	TEMPORARY SIGNS AND BARRICADES	LUMP	1
727-01-	00100	MOBILIZATION	LUMP	1
729-01-	00100	SIGN (TYPE A)	SQFT	414
729-01-	00103	SIGN (TYPE A)(RELOCATE)	SQFT	6
729-21-	00100	U-CHANNEL POST	EACH	65
731-02-	00100	REFLECTORIZED RAISED PAVEMENT MARKERS	EACH	705
732-01-	01040	PLASTIC PAVEMENT STRIPING (8" WIDTH) (THERMOPLASTIC 90 MIL)	LNFT	2482
732-01-	02080	PLASTIC PAVEMENT STRIPING (24" WIDTH) (THERMOPLASTIC 125 MIL)	LNFT	340
732-02-	02000	PLASTIC PAVEMENT STRIPING (SOLID LINE) (4" WIDTH) (THERMOPLASTIC 90 MIL)	MILE	7.276
732-04-	01080	PLASTIC PAVEMENT LEGENDS AND SYMBOLS (ARROW - LEFT TURN)	EACH	2
732-04-	01100	PLASTIC PAVEMENT LEGENDS AND SYMBOLS (ARROW - RIGHT TURN)	EACH	8
735-01-	00100	MAILBOXES	EACH	5
735-02-	00100	MAILBOX SUPPORTS (SINGLE)	EACH	5
739-01-	00100	HYDRO-SEEDING	ACRE	3
740-01-	00100	CONSTRUCTION LAYOUT	LUMP	1
NS-500-	00340	SAW CUTTING ASPHALT CONCRETE PAVEMENT	LNFT	3429
PS-P52-	00001	REALIGNING DITCHES	LNFT	3139
TS-726-	37001	GRAVEL (DRIVEWAY)	CUYD	66.3
S-	00001	RELOCATE EXISTING SIGNS AND SIGN POST	EACH	4
S-	00002	8" WATERLINE OFFSET	EACH	1
S-	00003	2" SEWER FORCE MAIN OFFSET	EACH	1

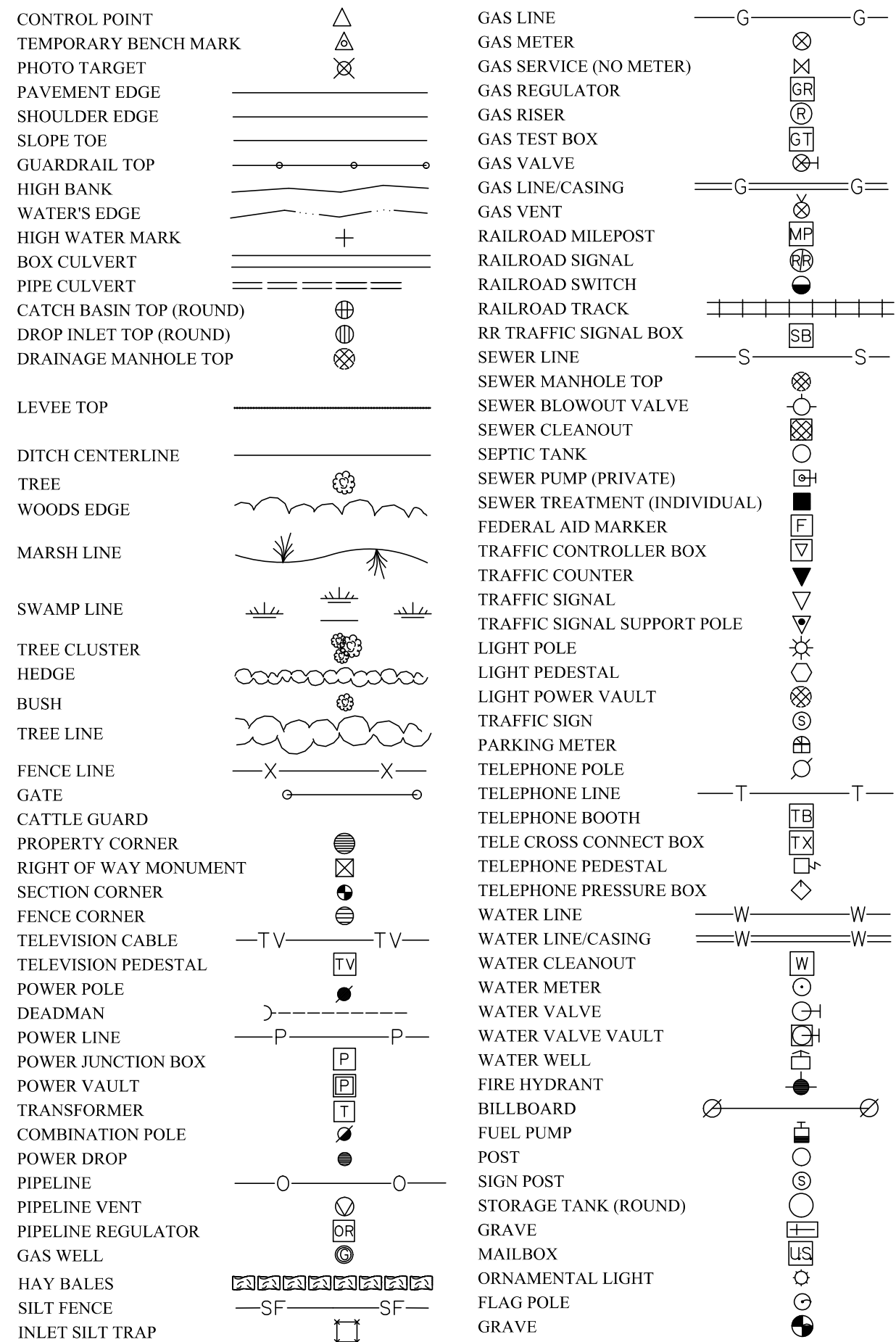
NOTES:

1. CONTRACTOR SHALL PROVIDE INFORMATION FOR AS-BUILTS AT NO DIRECT PAY.
2. TIE-INS TO PROPOSED PIPES/STRUCTURES SHALL BE DONE AT NO DIRECT PAY.
3. TEMPORARY PAVEMENT MARKINGS SHALL BE INCLUDED IN THE PRICE FOR BID ITEM 713-01-00100 TEMPORARY SIGNS AND BARRICADES.
4. PIPE BEDDING MATERIAL SHALL BE INCLUDED IN THE COST PER LINEAR FOOT OF DRAIN PIPE.

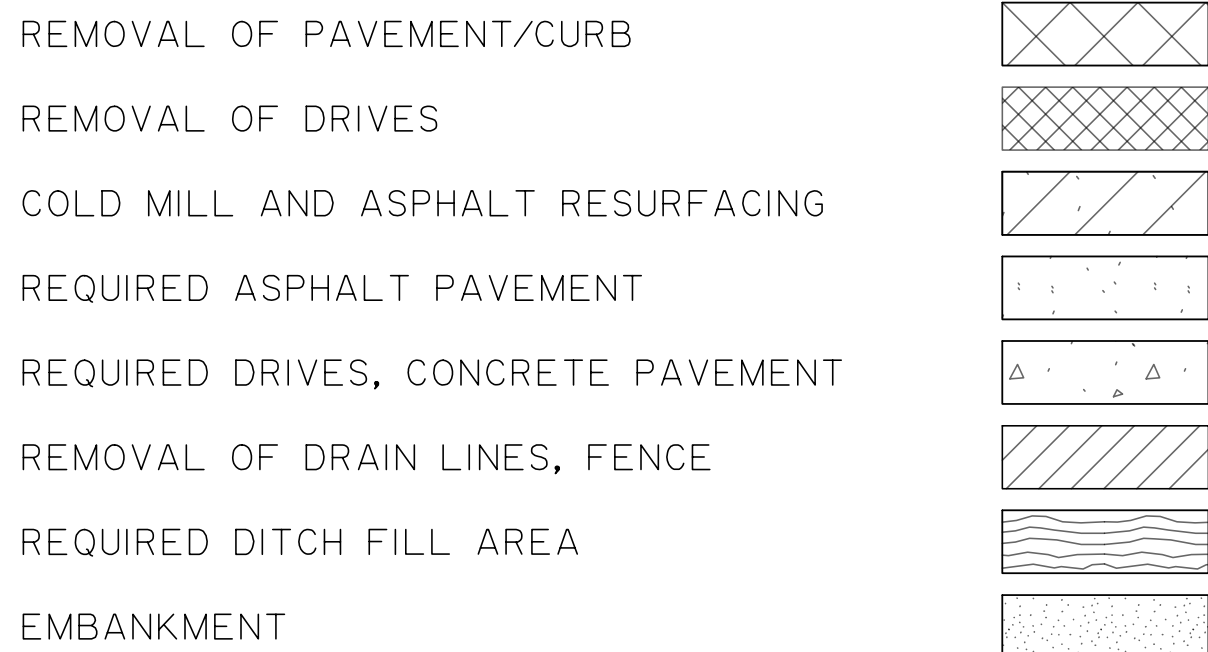
STATE OF LOUISIANA
 RANDAL J. BONURA
 License No. 39881
 PROFESSIONAL ENGINEER
 IN
 CIVIL ENGINEERING
Randal J. Bonura
 1/8/2021

SHEET NUMBER		3	
PARISH		ST. TAMMANY	
CONTROL SECTION		000-52	
PROJECT		EN18000011	
DESIGNED	BBS	CRH	
CHECKED			
DETAILED	BBS	RLG	
CHECKED			
SERIES NUMBER		I	OF 1
REVISION OR CHANGE ORDER DESCRIPTION			
NO.	DATE	BY	
SUMMARY SHEET			
SOULT ST. ROAD IMPROVEMENTS			
			

LEGEND - EXISTING TOPOGRAPHY

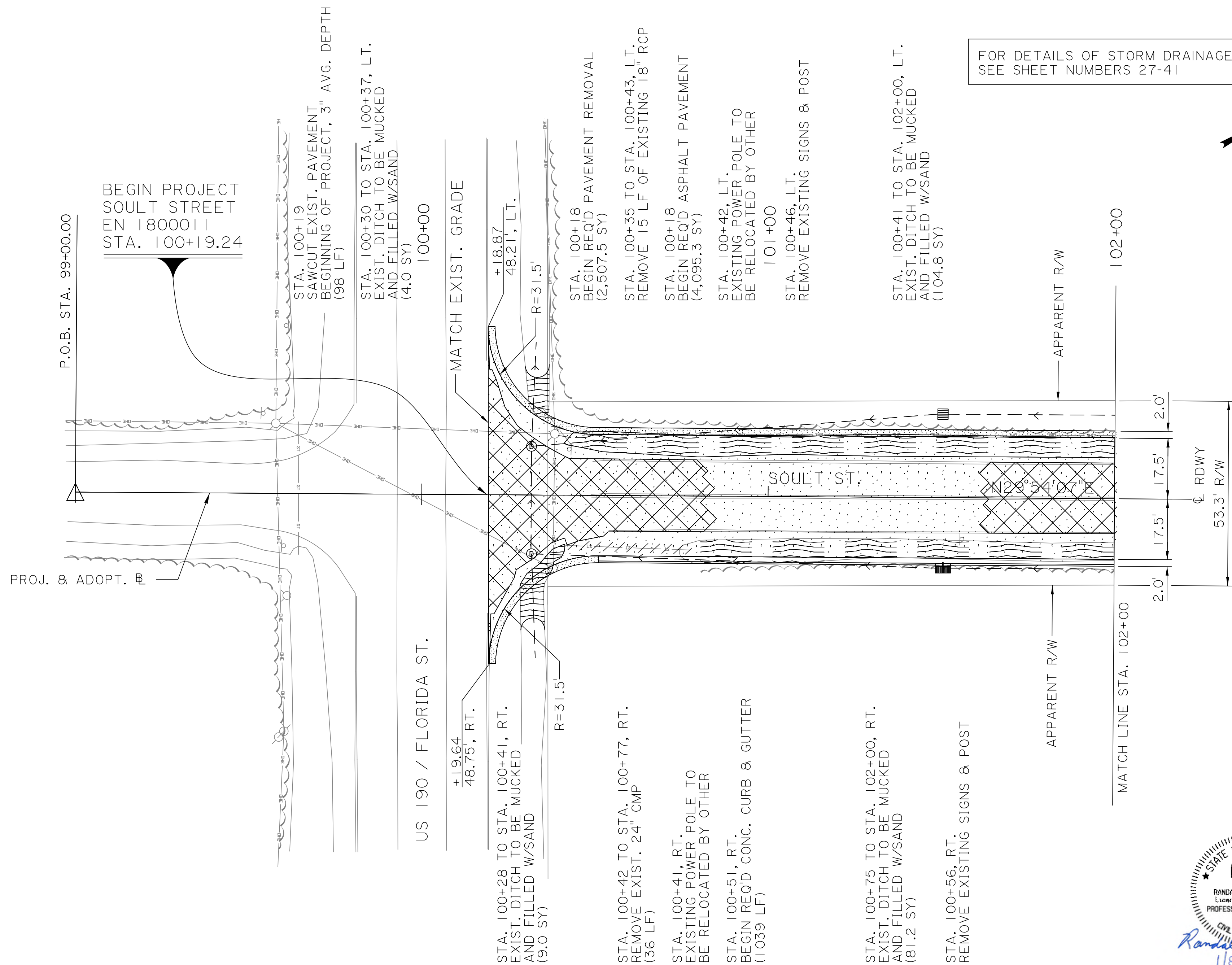


LEGEND-HATCHING

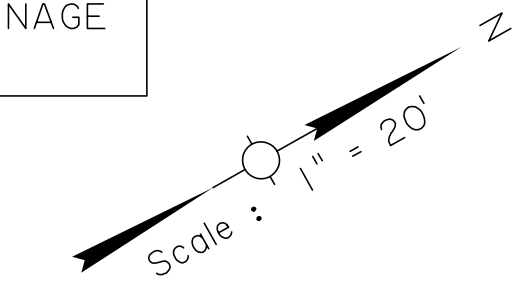


NOTES:

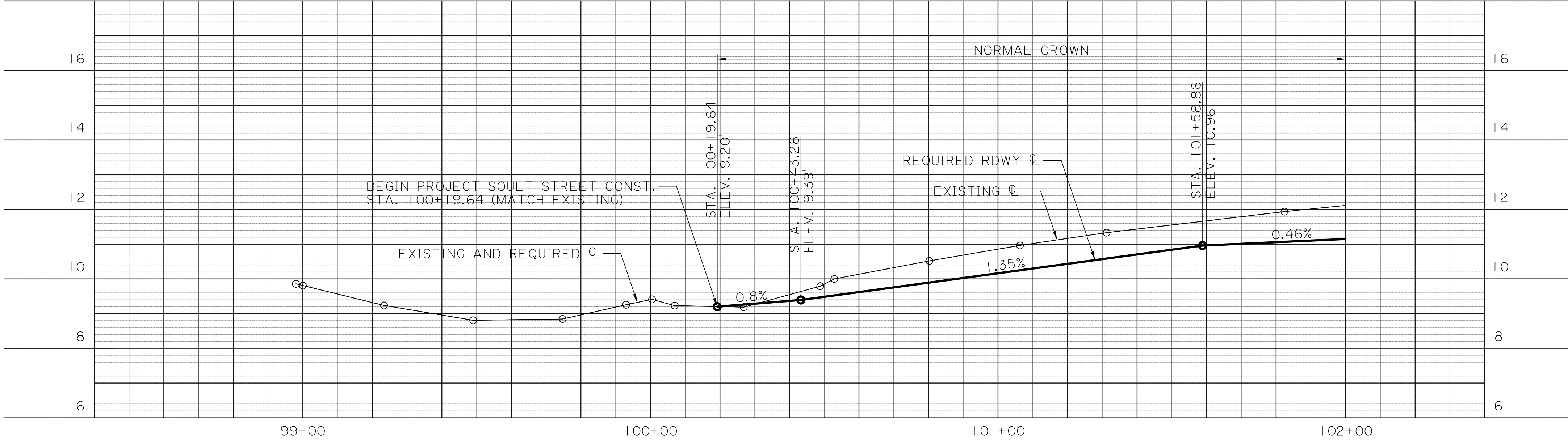
- 1. EXISTING DRAINAGE STRUCTURES SHOWN ARE TO REMAIN UNLESS OTHERWISE NOTED. ALL TIE-INS TO EXISTING PIPES OR STRUCTURES SHALL BE DONE AT NO DIRECT PAY.
2. ALL STATIONING IS TAKEN FROM SOULT STREET PROJECTED & ADOPT. UNLESS OTHERWISE STATED.
3. ALL SHRUBS, TREES, AND WOODED AREAS WITHIN R/W IN CONFLICT WITH PROPOSED WORK SHALL BE CLEARED AFTER APPROVAL BY PROJECT ENGINEER. THE WORK WILL BE UNDER ITEM NO. 201-01-00200
4. EXIST, DITCH WITHIN LIMITS OF REQ'D RDWY. INCLUDING PAVED SHOULDER SHALL BE MUCK EXCAVATED TO DEPTH OF 1'-0" (MIN.) AND BACKFILLED WITH NONPLASTIC EMBANKMENT. THE WORK WILL BE UNDER THE FOLLOWING ITEMS:
ITEM NO. 203-02-00100 DRAINAGE EXCAVATION (SAND)
ITEM NO. 203-04-00200 NONPLASTIC EMBANKMENT
5. STREET NAME SIGNS TO BE REMOVED AND REPLACED BY ST. TAMMANY PARISH. CONTRACTOR SHALL COORDINATE SIGN OPERATIONS WITH THE PARISH.
6. ALL CONCRETE PAVEMENT AND DRIVEWAYS SHALL USE 24 HR HIGH EARLY STRENGTH CONCRETE MIXES.
7. MATCH EXISTING ELEVATION AT TIE-INS TO ASPHALT DRIVEWAYS.
8. MATCH EXISTING ELEVATION WHERE NEW ROAD WORK TIE-INS INTO EXISTING
9. DITCH REALIGNMENT, REGRADING, AND RESHAPING WORK SHALL BE PAID FOR UNDER THE ITEM PS-52-00001- REALIGNING DITCHES



FOR DETAILS OF STORM DRAINAGE SEE SHEET NUMBERS 27-41



SCALE: HORIZ. 1" = 20', VERT. 0.5" = 1'



Project information block containing SHEET NUMBER (4), ST. TAMMANY, CONTROL SECTION (000-52), STATE PROJECT (EN18000011), DESIGNED (CRH), CHECKED (RUB), DETAILED (BBS), CHECKED (CRH), SERIES NUMBER (1 OF 23), REVISION OR CHANGE ORDER DESCRIPTION, DATE, NO., and PLAN AND PROFILE SHEET BEGIN OF PROJECT TO STA. 102+00 SOULT ST. ROAD IMPROVEMENTS.

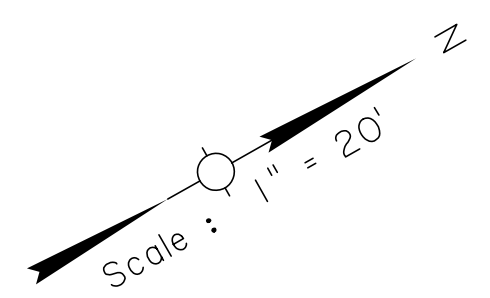
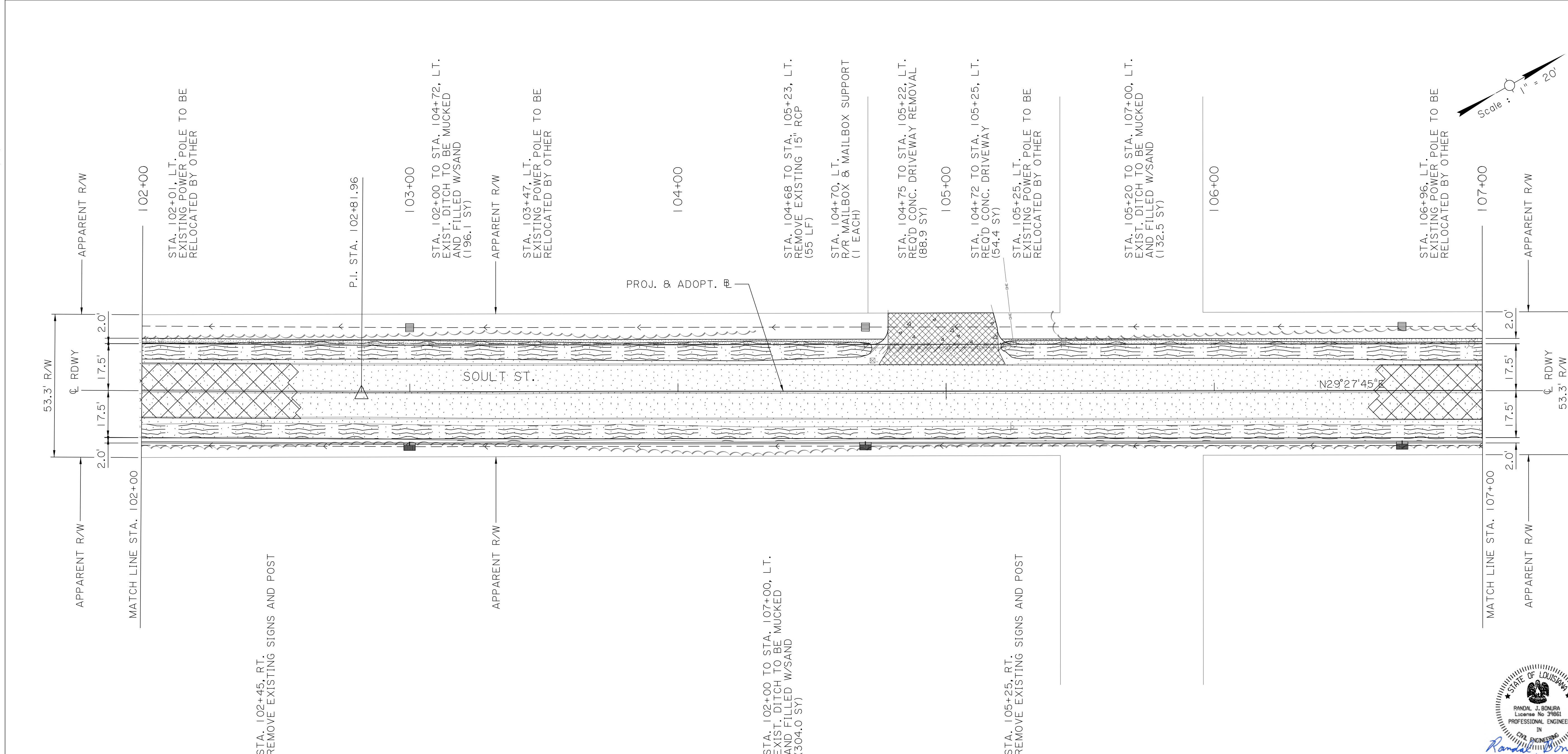
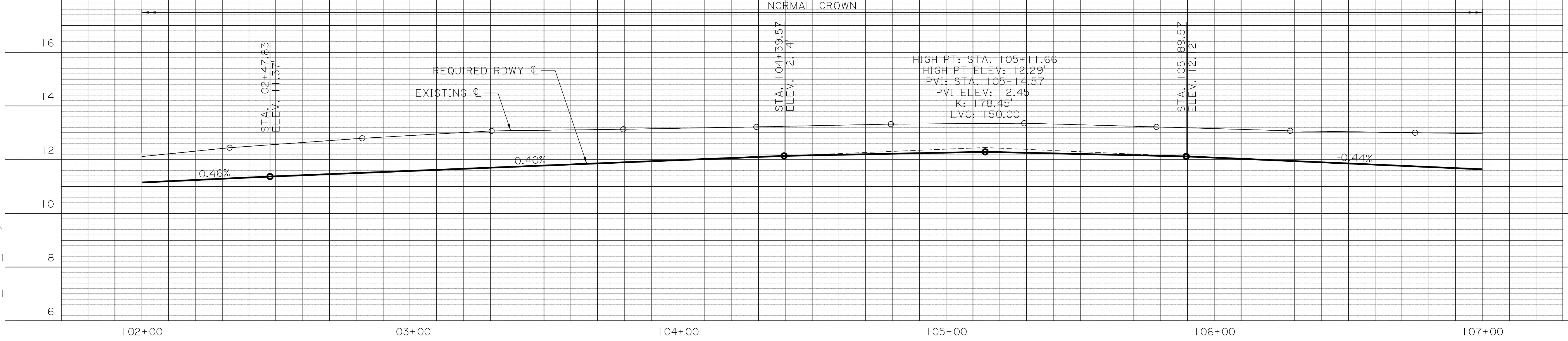


100% FINAL PLANS

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SCALE:
HORIZ. 1" = 20'
VERT. 0.5" = 1'



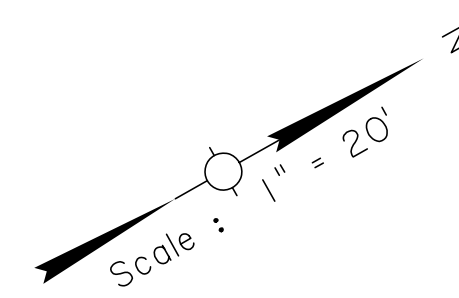
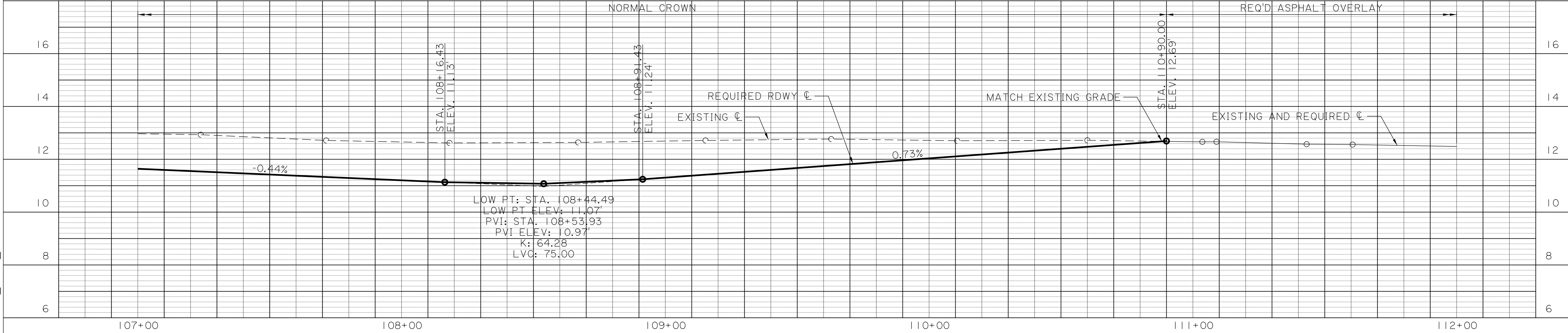
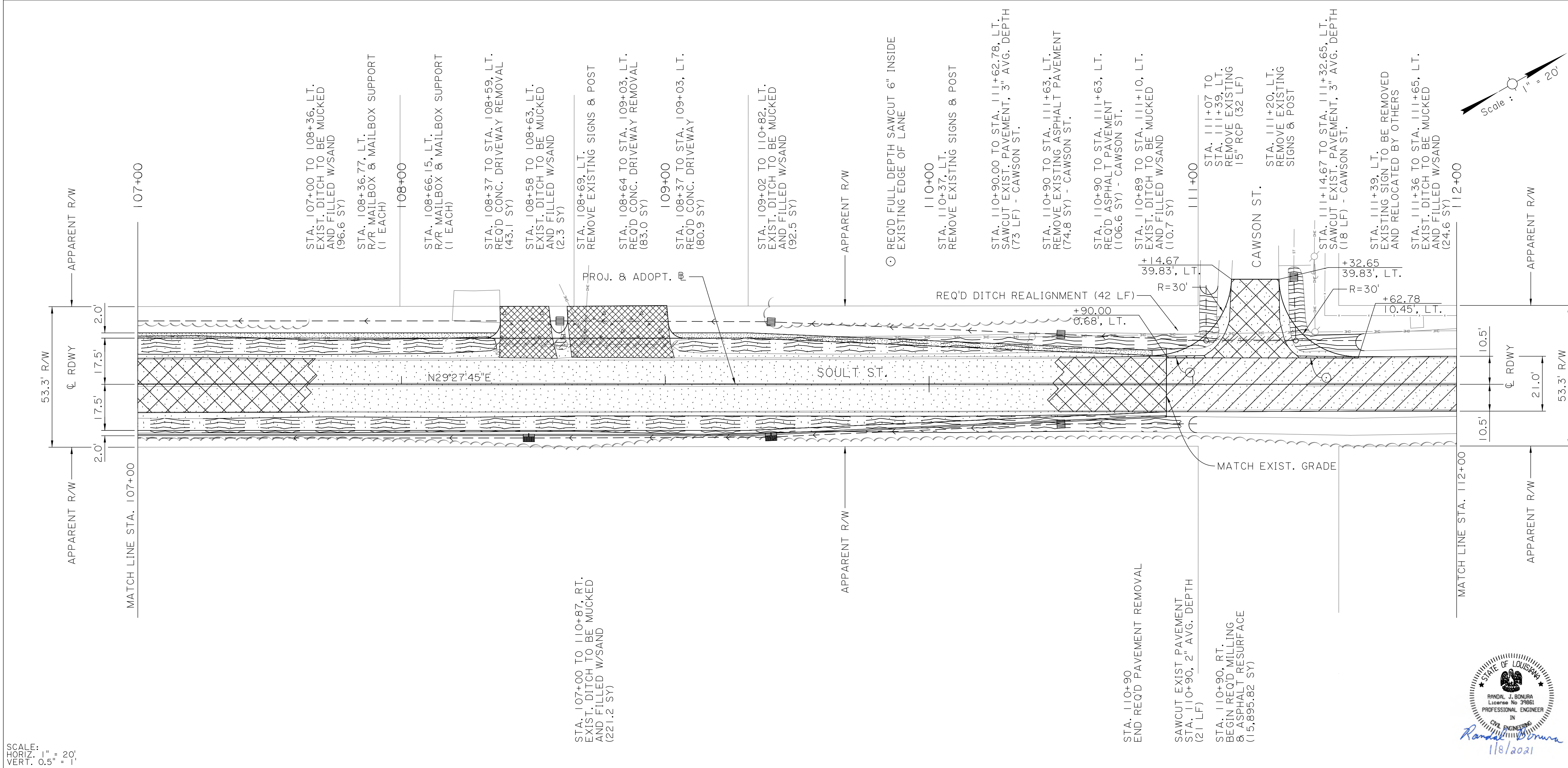
SHEET NUMBER		5	
DESIGNED	CRH	PARRISH	ST. TAMMANY
CHECKED	RUB	CONTROL	000-52
DETAILED	BBS	SECTION	
CHECKED	CRH		
SERIES	2 OF 23	PROJECT	EN18000011
NUMBER			
NO.		DATE	BY
REVISION OR CHANGE ORDER DESCRIPTION			
PLAN AND PROFILE SHEET			
STA. 102+00 TO STA. 107+00			
SOULT ST. ROAD IMPROVEMENTS			

100% FINAL PLANS

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		ST. TAMMANY PARISH GOV.
PLAN AND PROFILE SHEET STA. 107+00 TO STA. 112+00 SOULT ST. ROAD IMPROVEMENTS		
SHEET NUMBER 6	PARISH ST. TAMMANY	PROJECT EN18000011
DESIGNED CHECKED R/JB	CRH CHECKED CRH	CONTROL SECTION 000-52
DETAILED CHECKED CRH	BBS CHECKED CRH	3 OF 23 SERIES NUMBER
REVISION OR CHANGE ORDER DESCRIPTION NO. DATE BY		EN18000011

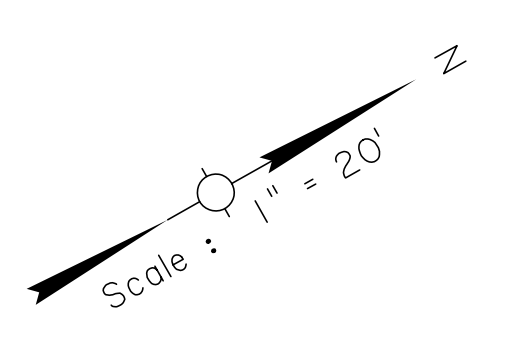
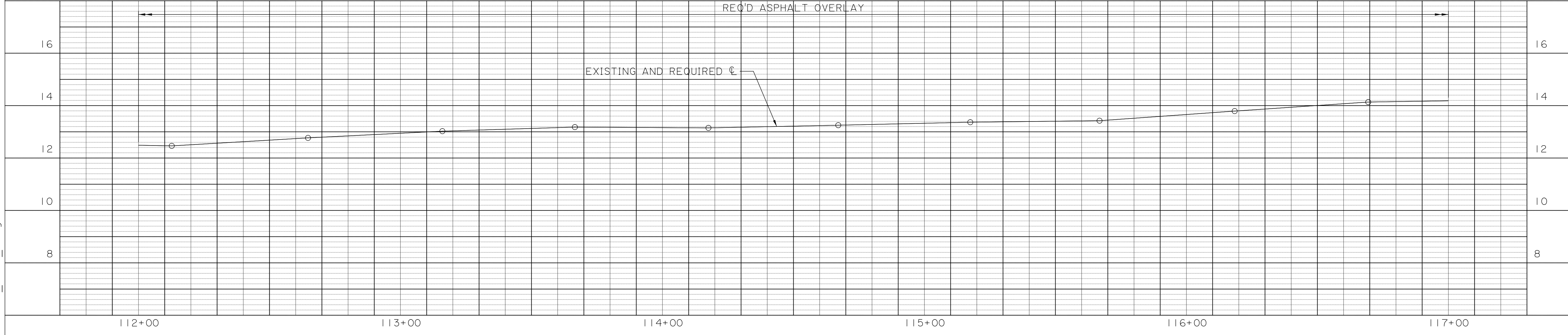
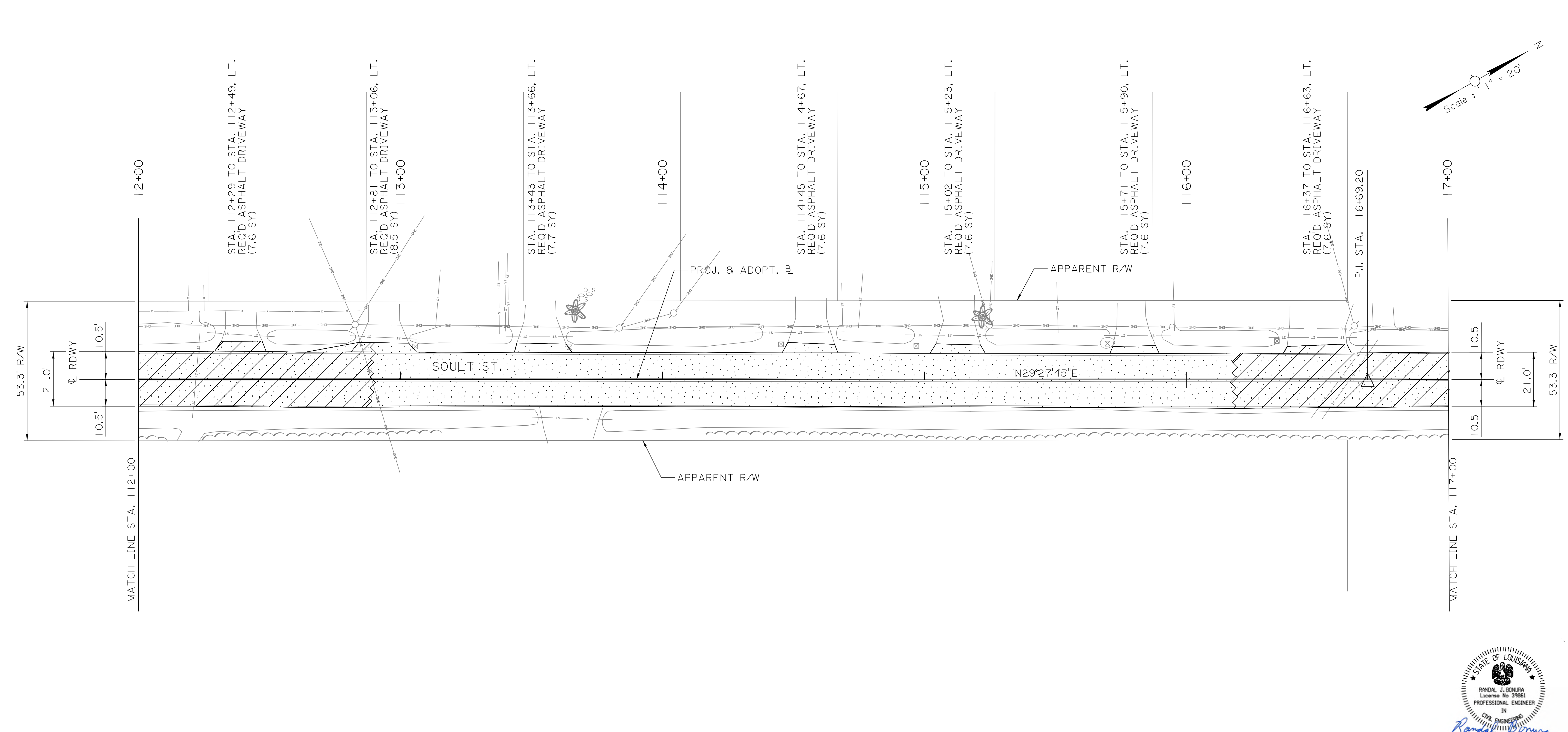




100% FINAL PLANS

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SCALE:
HORIZ. 1" = 20'
VERT. 0.5" = 1'

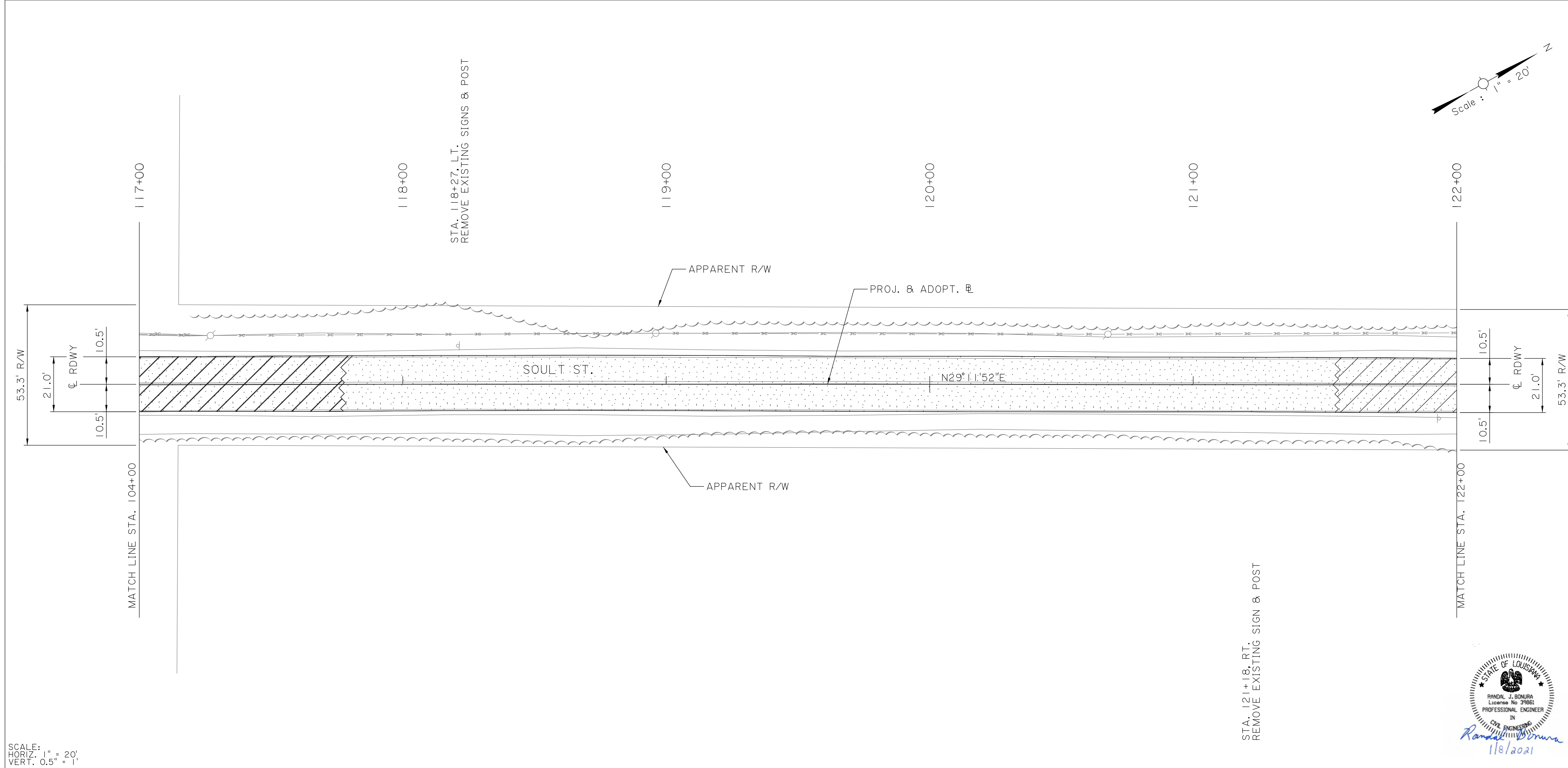


SHEET NUMBER		7	
DESIGNED	CRH	PARRISH	ST. TAMMANY
CHECKED	RJB	CONTROL SECTION	000-52
DETAILED	BBS	SERIES NUMBER	4 OF 23
CHECKED	CRH	PROJECT	EN18000011
REVISION OR CHANGE ORDER DESCRIPTION		NO.	DATE
BY			
			
PLAN AND PROFILE SHEET STA. 112+00 TO STA. 117+00 SOUL T ST. ROAD IMPROVEMENTS			
			

100% FINAL PLANS

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SCALE:
HORIZ. 1" = 20'
VERT. 0.5" = 1'



STA. 121+18, RT.
REMOVE EXISTING SIGN & POST



SHEET NUMBER		8	
DESIGNED	CRH	PARRISH	ST. TAMMANY
CHECKED	RJB	CONTROL SECTION	000-52
DETAILED	BBS	PROJECT	EN18000011
CHECKED	CRH	SERIES NUMBER	5 OF 23
REVISION OR CHANGE ORDER DESCRIPTION		NO.	DATE
BY		NO.	DATE
			
PLAN AND PROFILE SHEET STA. 117+00 TO STA. 122+00 SOULT ST. ROAD IMPROVEMENTS			
			

SCALE:
HORIZ. 1" = 20'
VERT. 0.5" = 1'

STA. 122+06 TO STA. 122+37, RT.
REQ'D ASPHALT PAVEMENT
(24.8 SY)

STA. 122+06 TO STA. 122+37, RT.
REMOVE EXISTING ASPHALT PAVEMENT
(5.8 SY)

STA. 122+37 TO STA. 122+58, RT.
REQ'D ASPHALT OVERLAY - MCNAMARA ST.
(65.8 SY)

STA. 122+07 TO STA. 122+38, RT.
SAWCUT EXIST. PAVEMENT, 3" AVG. DEPTH
(31 LF) - SOULT ST.

STA. 122+07 TO STA. 122+34, LT.
EXIST. DITCH TO BE MUCKED
AND FILLED W/SAND
(23.4 SY)

STA. 122+52.80 TO STA. 122+87.67
REQ'D ASPHALT PAVEMENT
(26.42 SY)

STA. 122+37 TO STA. 122+37, RT.
SAWCUT EXIST. PAVEMENT, 3" AVG. DEPTH
(30 LF) - MCNAMARA ST.

STA. 122+57 TO STA. 122+88, RT.
SAWCUT EXIST. PAVEMENT, 3" AVG. DEPTH
(31 LF) - SOULT ST.

STA. 122+57 TO STA. 122+87, RT.
REMOVE EXISTING ASPHALT PAVEMENT
(6.2 SY)

STA. 122+58 TO STA. 122+58, RT.
SAWCUT EXIST. PAVEMENT, 3" AVG. DEPTH
(30 LF) - MCNAMARA ST.

STA. 122+60, RT.
REMOVE EXISTING SIGN & POST

STA. 122+61 TO STA. 122+81, LT.
EXIST. DITCH TO BE MUCKED
AND FILLED W/SAND
(20.0 SY)

STA. 123+06 TO STA. 123+28, RT.
REQ'D CONC. DRIVEWAY REMOVAL
(19.2 SY)

STA. 123+06 TO STA. 123+28, RT.
REQ'D ASPHALT DRIVEWAY
(19.2 SY)

○ REQ'D FULL DEPTH SAWCUT 6" INSIDE
EXISTING EDGE OF LANE

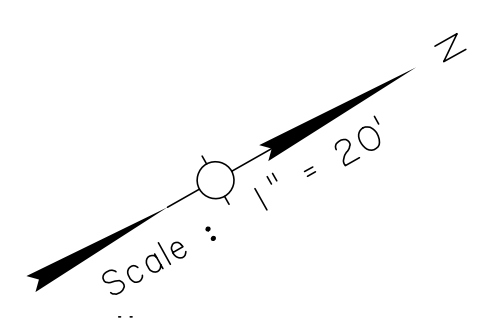
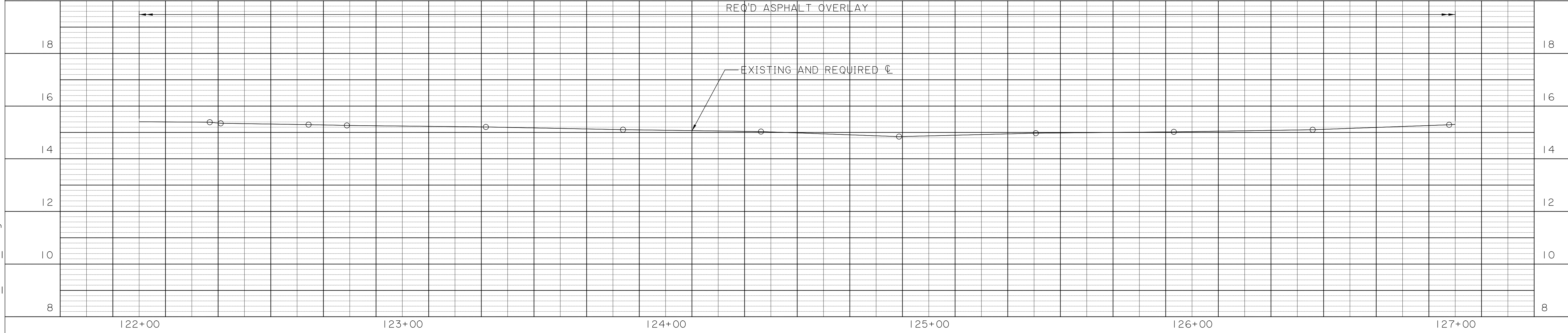
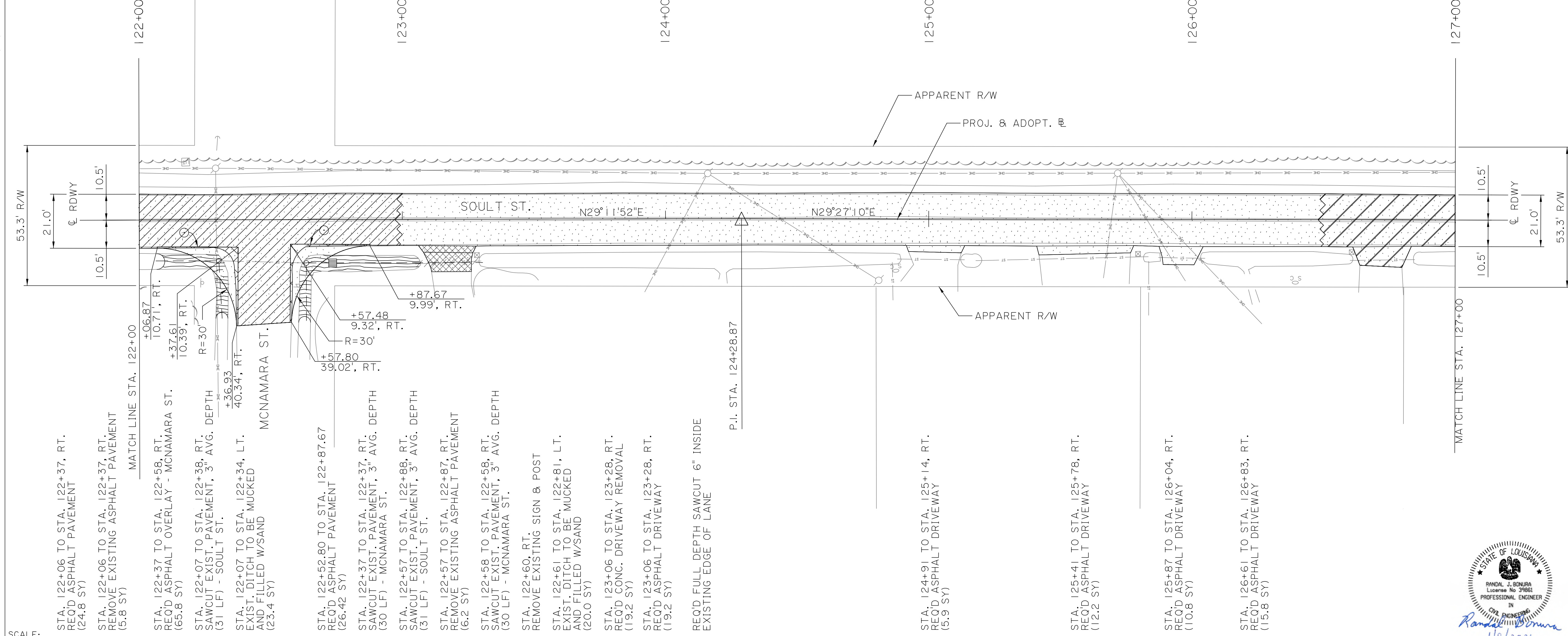
P.I. STA. 124+28.87

STA. 124+91 TO STA. 125+14, RT.
REQ'D ASPHALT DRIVEWAY
(5.9 SY)

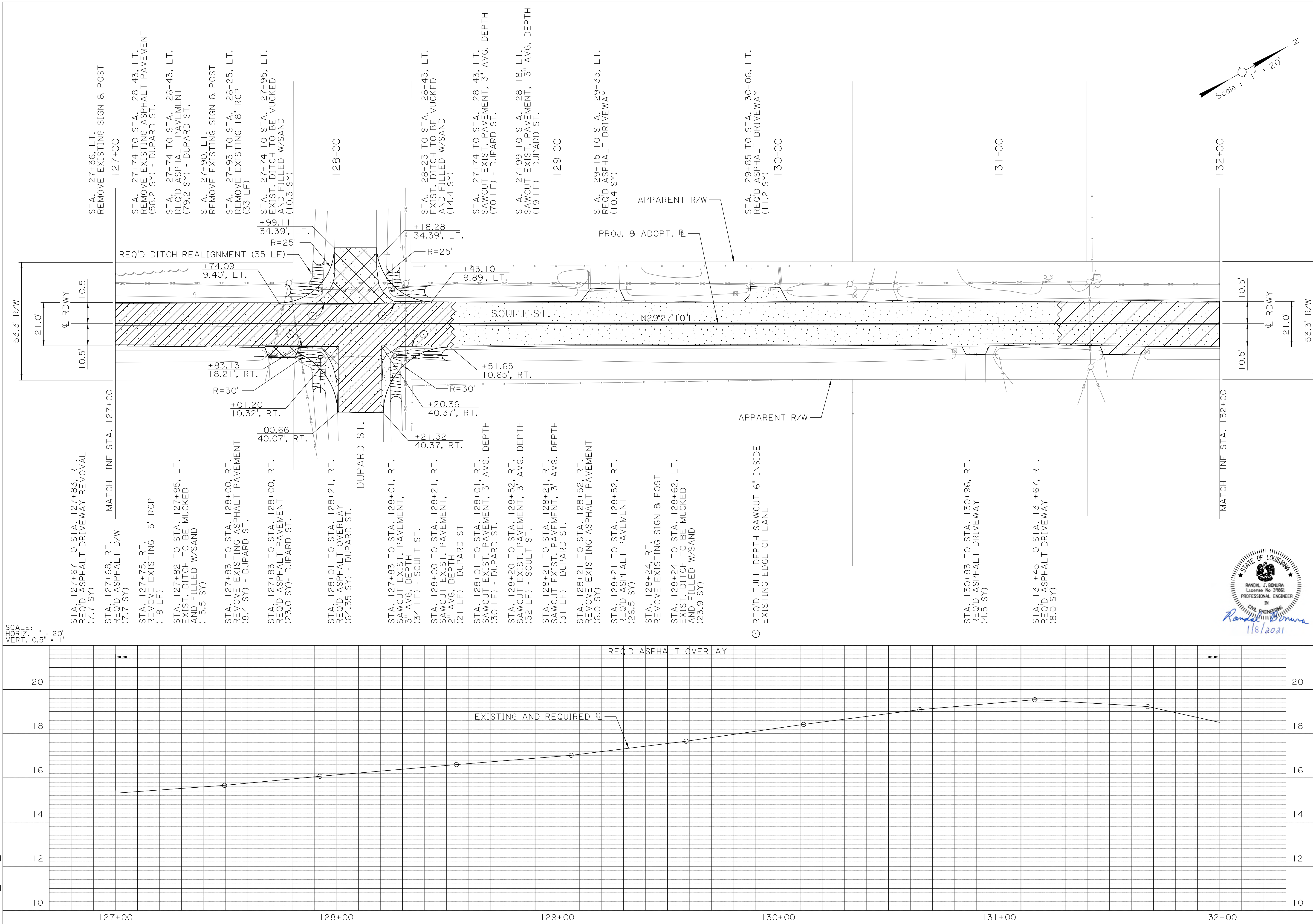
STA. 125+41 TO STA. 125+78, RT.
REQ'D ASPHALT DRIVEWAY
(12.2 SY)

STA. 125+87 TO STA. 126+04, RT.
REQ'D ASPHALT DRIVEWAY
(10.8 SY)

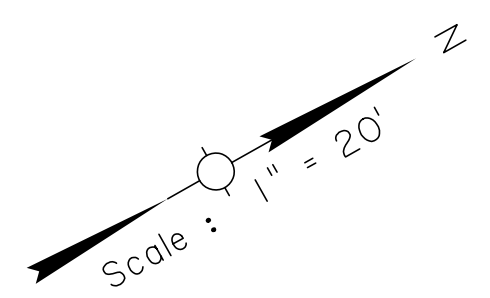
STA. 126+61 TO STA. 126+83, RT.
REQ'D ASPHALT DRIVEWAY
(15.8 SY)



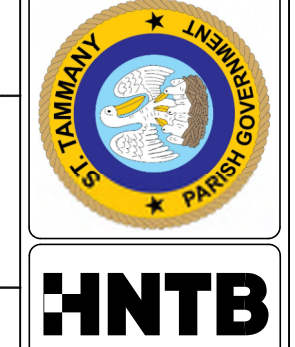
SHEET NUMBER		9	
DESIGNED	CRH	PARISH	ST. TAMMANY
CHECKED	RUB	CONTROL SECTION	000-52
DETAILED	BBS	PROJECT	EN18000011
CHECKED	CRH	SERIES NUMBER	6 OF 23
NO.		DATE	BY
REVISION OR CHANGE ORDER DESCRIPTION			
PLAN AND PROFILE SHEET			
STA. 122+00 TO STA. 127+00			
SOULT ST. ROAD IMPROVEMENTS			

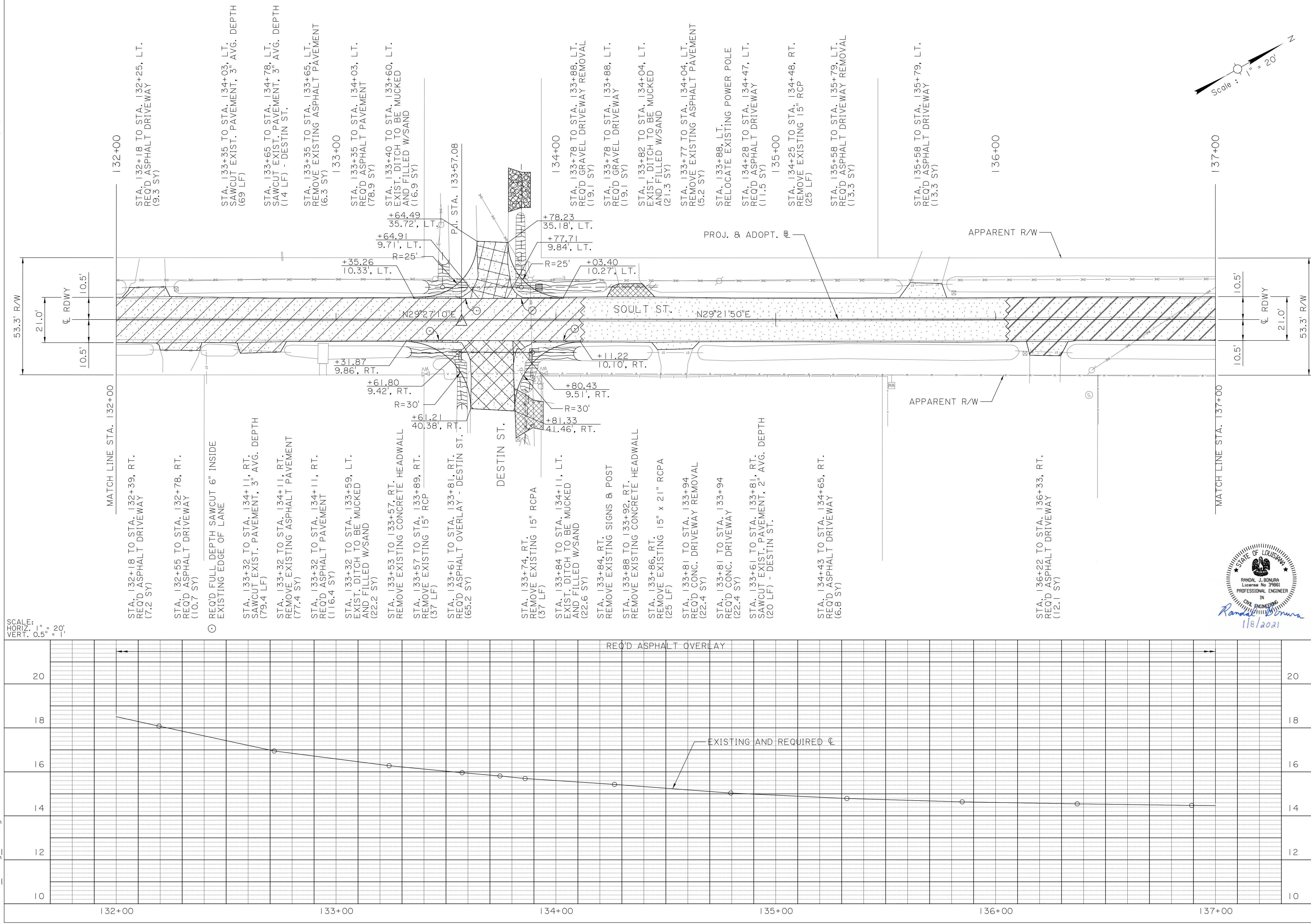


SCALE: HORIZ. 1" = 20' VERT. 0.5" = 1'



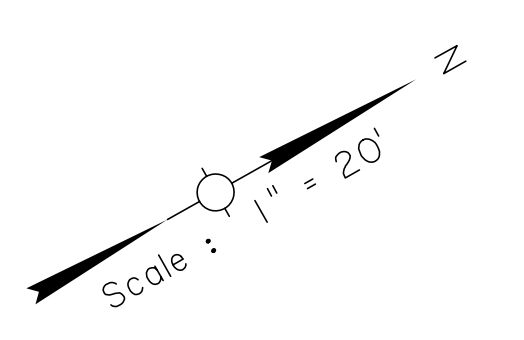
SHEET NUMBER		10	
DESIGNED	CRH	PARISH	ST. TAMMANY
CHECKED	RUB	CONTROL SECTION	000-52
DETAILED	BBS	PROJECT	EN18000011
CHECKED	CRH	SERIES NUMBER	7 OF 23
REVISION OR CHANGE ORDER DESCRIPTION		BY	
PLAN AND PROFILE SHEET		STA. 127+00 TO STA. 132+00	
SOULT ST. ROAD IMPROVEMENTS			



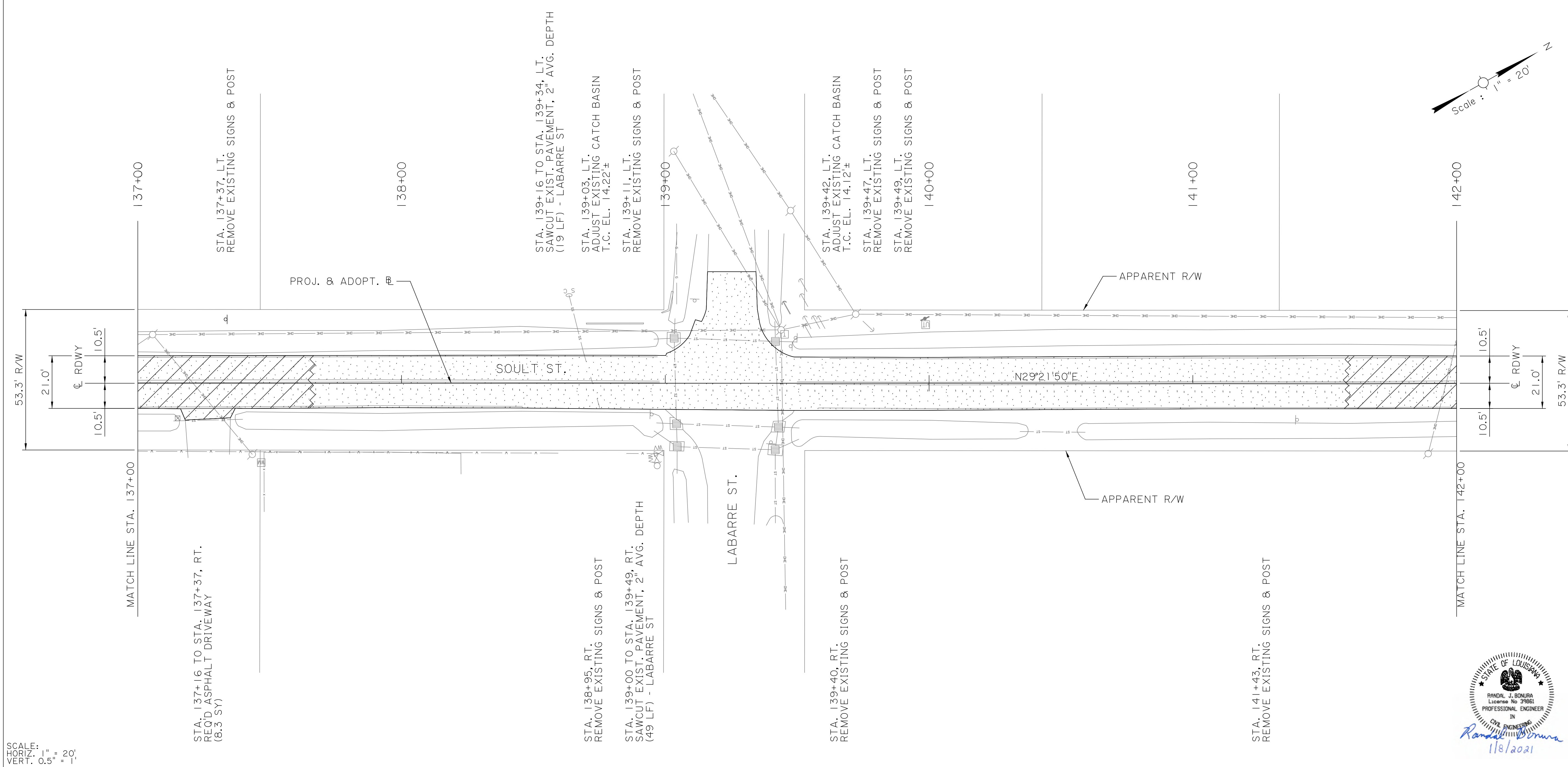


SCALE:
 HORIZ. 1" = 20'
 VERT. 0.5" = 1'

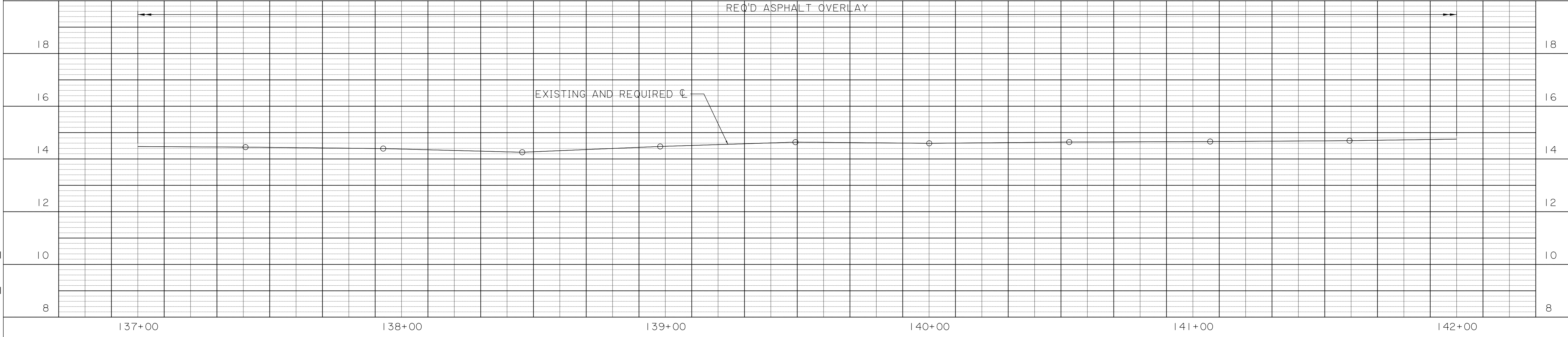
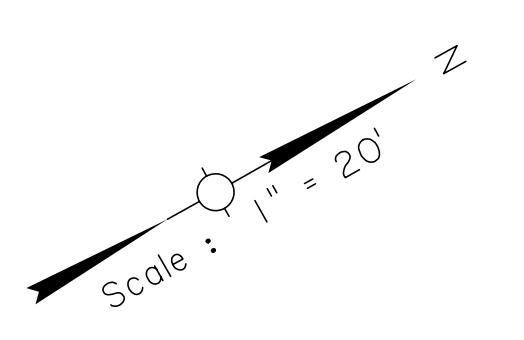
MATCH LINE STA. 132+00





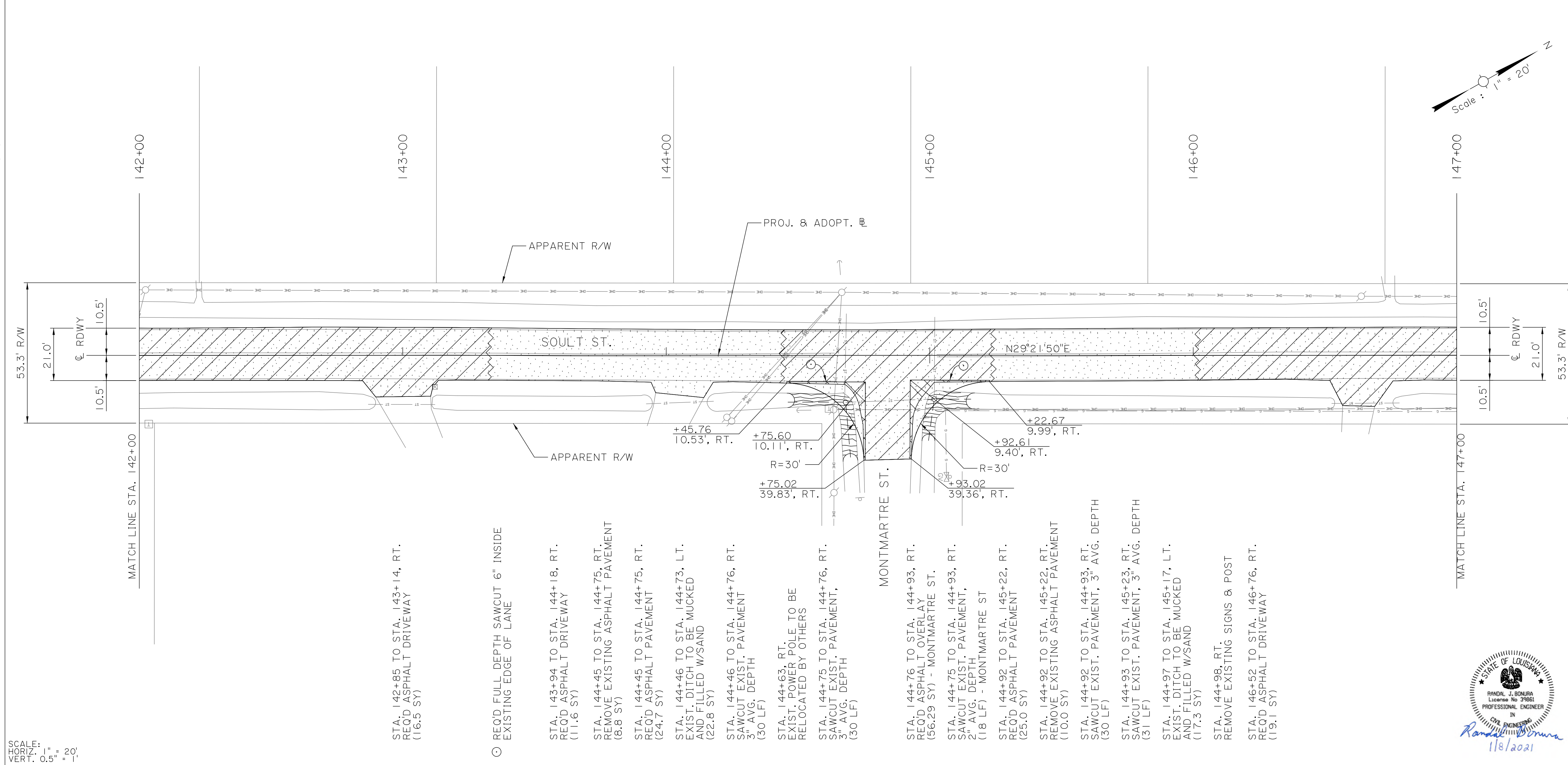
DESIGNED		CRH	ST. TAMMANY	SHEET NUMBER	11
CHECKED		RUB	PARRISH	CONTROL SECTION	000-52
DETAILED		BBS	PROJECT	ENI 8000011	
CHECKED		CRH	NO.	DATE	
SERIES NUMBER		8 OF 23	REVISION OR CHANGE ORDER DESCRIPTION	BY	
PLAN AND PROFILE SHEET					
STA. 132+00 TO STA. 137+00					
SOULT ST. ROAD IMPROVEMENTS					



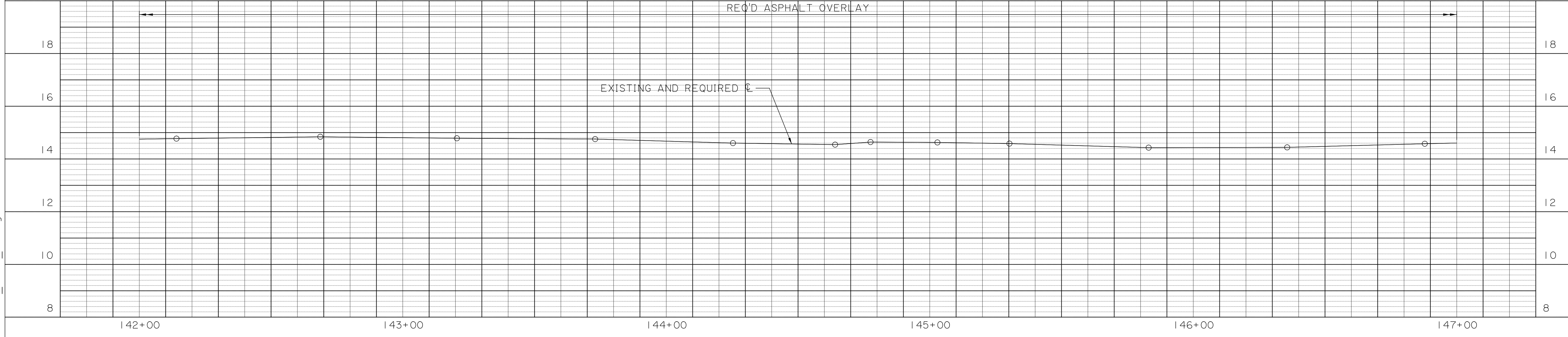
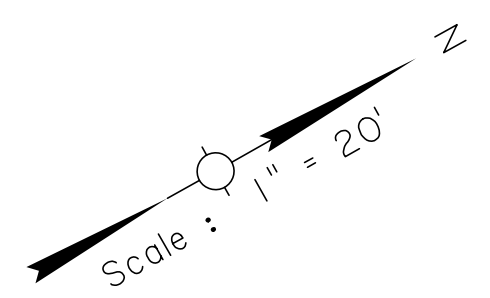
SCALE:
 HORIZ. 1" = 20'
 VERT. 0.5" = 1'



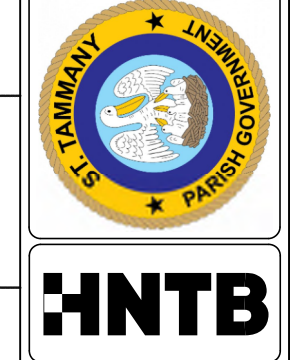
SHEET NUMBER		12	
DESIGNED	CRH	PARRISH	ST. TAMMANY
CHECKED	RJB	CONTROL SECTION	000-52
DETAILED	BBS	PROJECT	EN18000011
CHECKED	CRH	SERIES NUMBER	9 OF 23
REVISION OR CHANGE ORDER DESCRIPTION		BY	
NO.	DATE		
 PLAN AND PROFILE SHEET STA. 137+00 TO STA. 142+00 SOUL ST. ROAD IMPROVEMENTS			
			



SCALE:
 HORIZ. 1" = 20'
 VERT. 0.5" = 1'



SHEET NUMBER		13	
DESIGNED	CRH	PARISH	ST. TAMMANY
CHECKED	RUB	CONTROL SECTION	000-52
DETAILED	BBS	PROJECT	EN18000011
CHECKED	CRH	10 OF 23	
SERIES NUMBER		BY	
NO.	DATE	REVISION OR CHANGE ORDER DESCRIPTION	
		PLAN AND PROFILE SHEET	
		STA. 142+00 TO STA. 147+00	
		SOULT ST. ROAD IMPROVEMENTS	

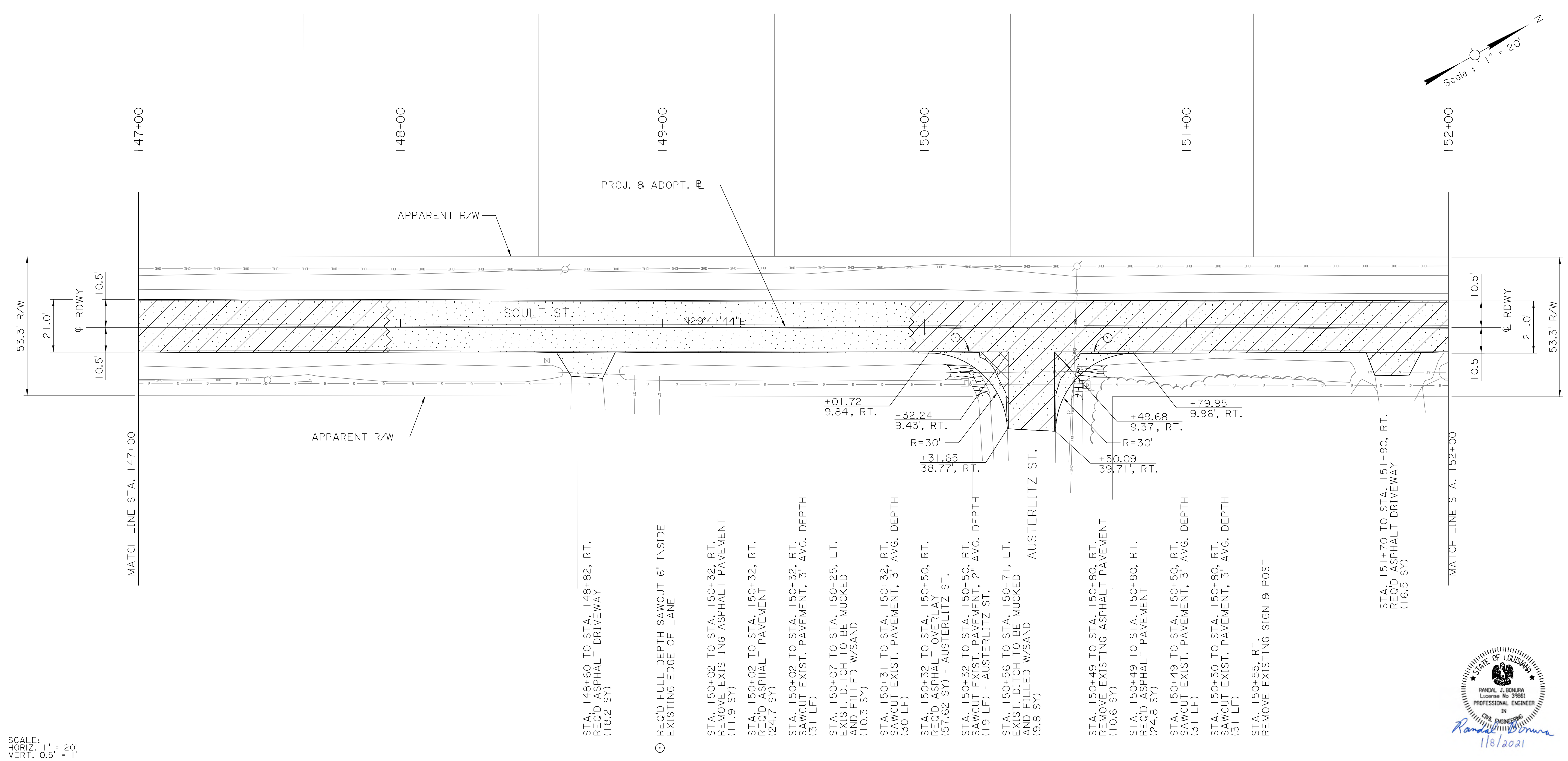


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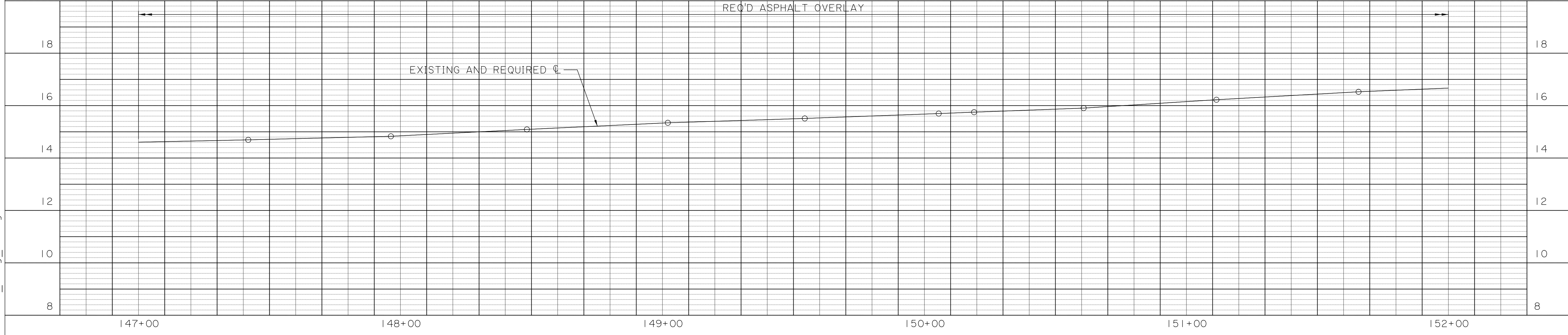
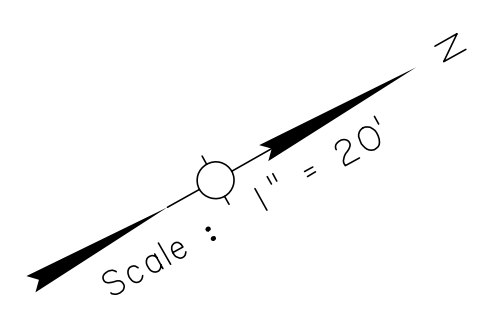
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SCALE:
HORIZ. 1" = 20'
VERT. 0.5" = 1'



STA. 148+60 TO STA. 148+82, RT.
REQD ASPHALT DRIVEWAY
(18.2 SY)

○ REQD FULL DEPTH SAWCUT 6" INSIDE
EXISTING EDGE OF LANE

STA. 150+02 TO STA. 150+32, RT.
REMOVE EXISTING ASPHALT PAVEMENT
(11.9 SY)

STA. 150+02 TO STA. 150+32, RT.
REQD ASPHALT PAVEMENT
(24.7 SY)

STA. 150+02 TO STA. 150+32, RT.
SAWCUT EXIST. PAVEMENT, 3" AVG. DEPTH
(31 LF)

STA. 150+07 TO STA. 150+25, LT.
EXIST. DITCH TO BE MUCKED
AND FILLED W/SAND
(10.3 SY)

STA. 150+31 TO STA. 150+32, RT.
SAWCUT EXIST. PAVEMENT, 3" AVG. DEPTH
(30 LF)

STA. 150+32 TO STA. 150+50, RT.
REQD ASPHALT OVERLAY
(57.62 SY) - AUSTERLITZ ST.

STA. 150+32 TO STA. 150+50, RT.
SAWCUT EXIST. PAVEMENT, 2" AVG. DEPTH
(19 LF) - AUSTERLITZ ST.

STA. 150+56 TO STA. 150+71, LT.
EXIST. DITCH TO BE MUCKED
AND FILLED W/SAND
(9.8 SY)

STA. 150+49 TO STA. 150+80, RT.
REMOVE EXISTING ASPHALT PAVEMENT
(10.6 SY)

STA. 150+49 TO STA. 150+80, RT.
REQD ASPHALT PAVEMENT
(24.8 SY)

STA. 150+49 TO STA. 150+50, RT.
SAWCUT EXIST. PAVEMENT, 3" AVG. DEPTH
(31 LF)

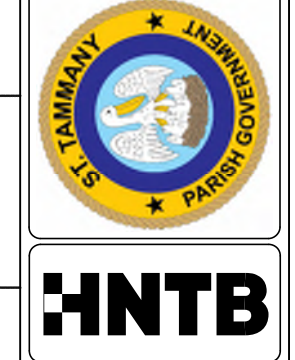
STA. 150+50 TO STA. 150+80, RT.
SAWCUT EXIST. PAVEMENT, 3" AVG. DEPTH
(31 LF)

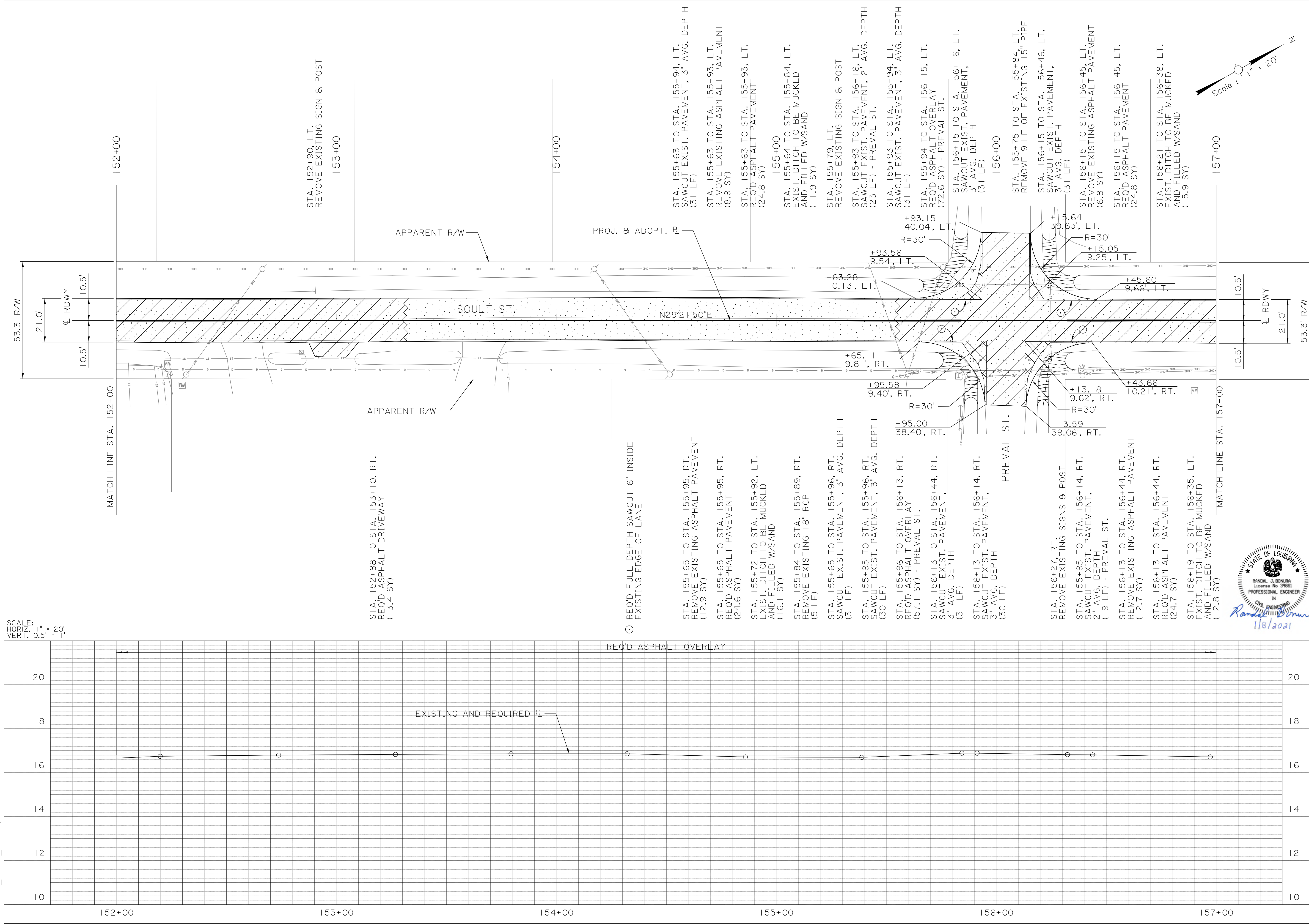
STA. 150+55, RT.
REMOVE EXISTING SIGN & POST

STA. 151+70 TO STA. 151+90, RT.
REQD ASPHALT DRIVEWAY
(16.5 SY)



SHEET NUMBER		14	
DESIGNED	CRH	PARISH	ST. TAMMANY
CHECKED	RUB	CONTROL SECTION	000-52
DETAILED	BBS	PROJECT	EN18000011
CHECKED	CRH	II OF 23	
SERIES NUMBER		BY	
NO.	DATE	REVISION OR CHANGE ORDER DESCRIPTION	
		PLAN AND PROFILE SHEET	
		STA. 147+00 TO STA. 152+00	
		SOULT ST. ROAD IMPROVEMENTS	



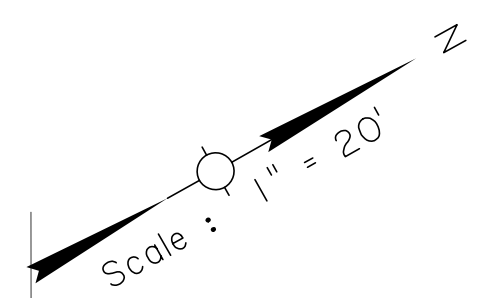
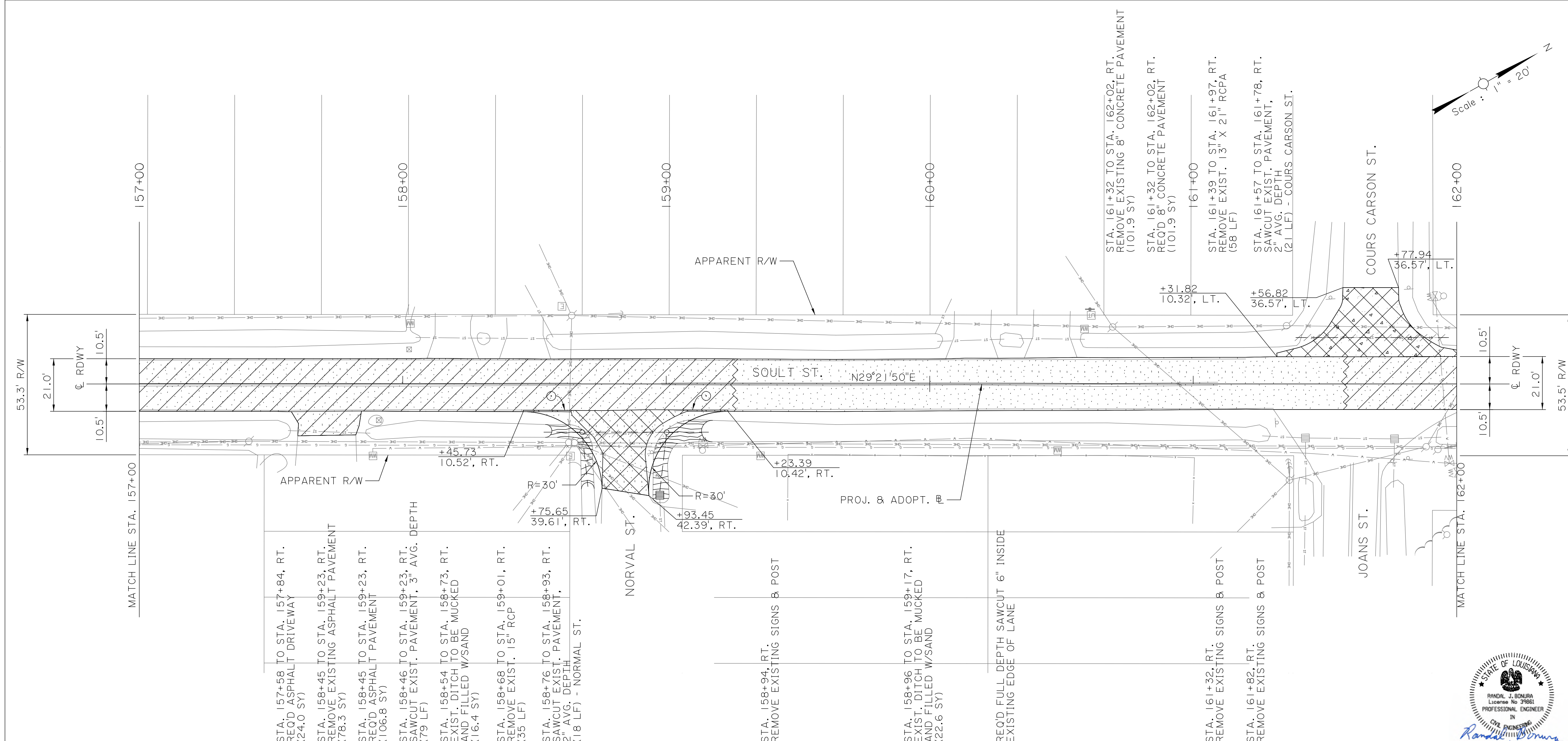
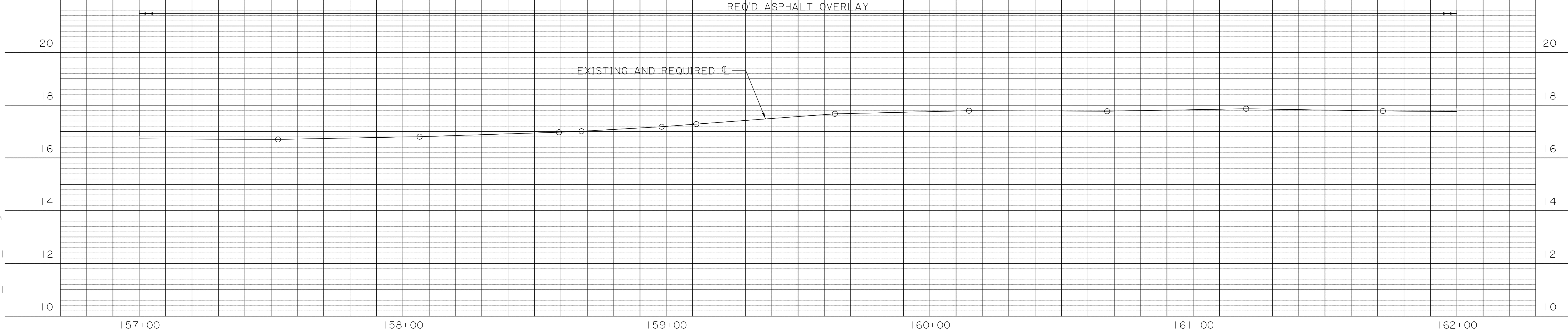


SCALE:
 HORIZ. 1" = 20'
 VERT. 0.5" = 1'

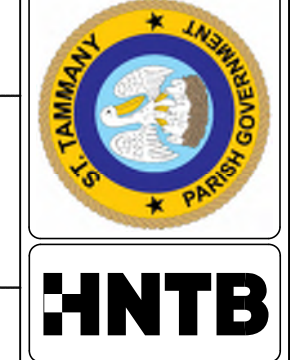


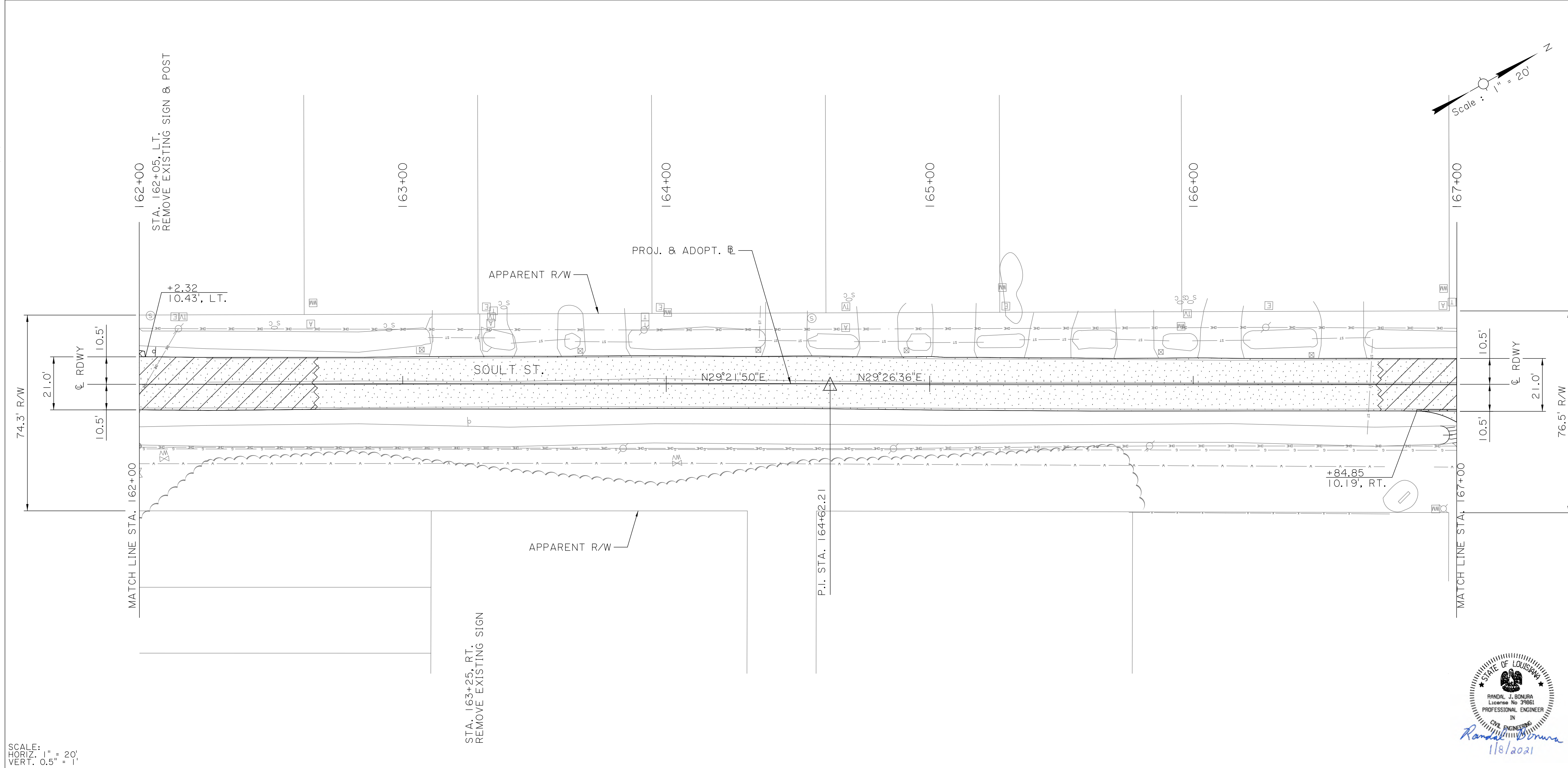
SHEET NUMBER		15	
DESIGNED	CRH	PARISH	ST. TAMMANY
CHECKED	RUB	CONTROL SECTION	000-52
DETAILED	BBS	PROJECT	EN18000011
CHECKED	CRH	SERIES NUMBER	12 OF 23
REVISION OR CHANGE ORDER DESCRIPTION		NO.	DATE
BY		NO.	DATE
PLAN AND PROFILE SHEET			
STA. 152+00 TO STA. 157+00			
SOULT ST. ROAD IMPROVEMENTS			

SCALE:
HORIZ. 1" = 20'
VERT. 0.5" = 1'

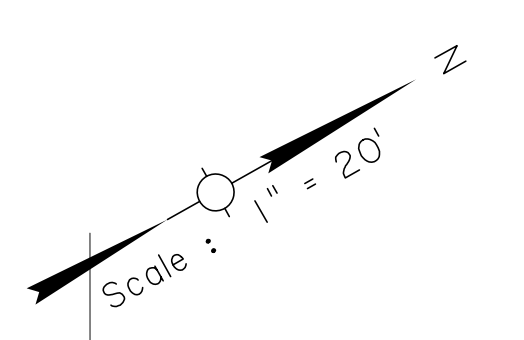
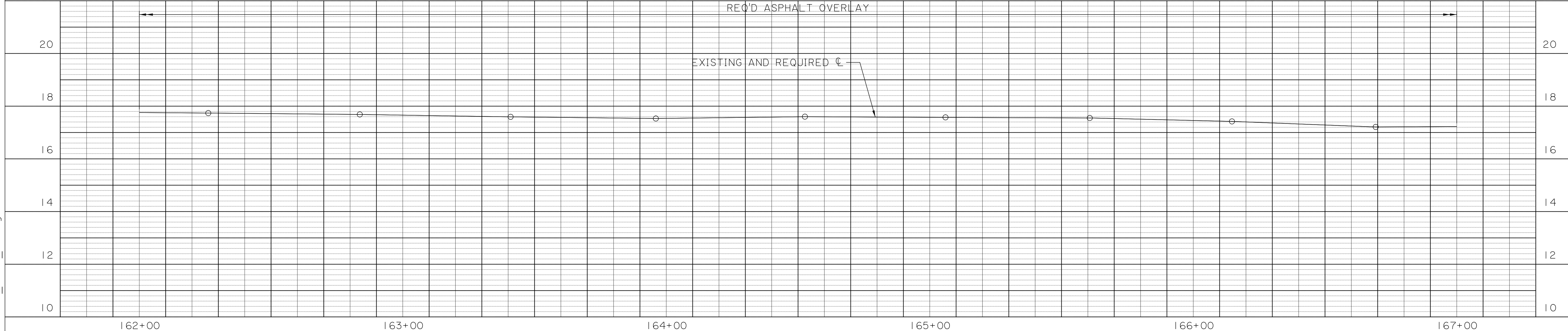


SHEET NUMBER		ST. TAMMANY	
NO.		000-52	
PROJECT		ENI 8000011	
DESIGNED	CRH	PARISH	ST. TAMMANY
CHECKED	RUB	CONTROL SECTION	000-52
DETAILED	BBS	PROJECT	ENI 8000011
CHECKED	CRH	NO.	DATE
SERIES NUMBER	13 OF 23	NO.	DATE
REVISION OR CHANGE ORDER DESCRIPTION		BY	
PLAN AND PROFILE SHEET			
SOULT ST. ROAD IMPROVEMENTS			
STA. 157+00 TO STA. 162+00			

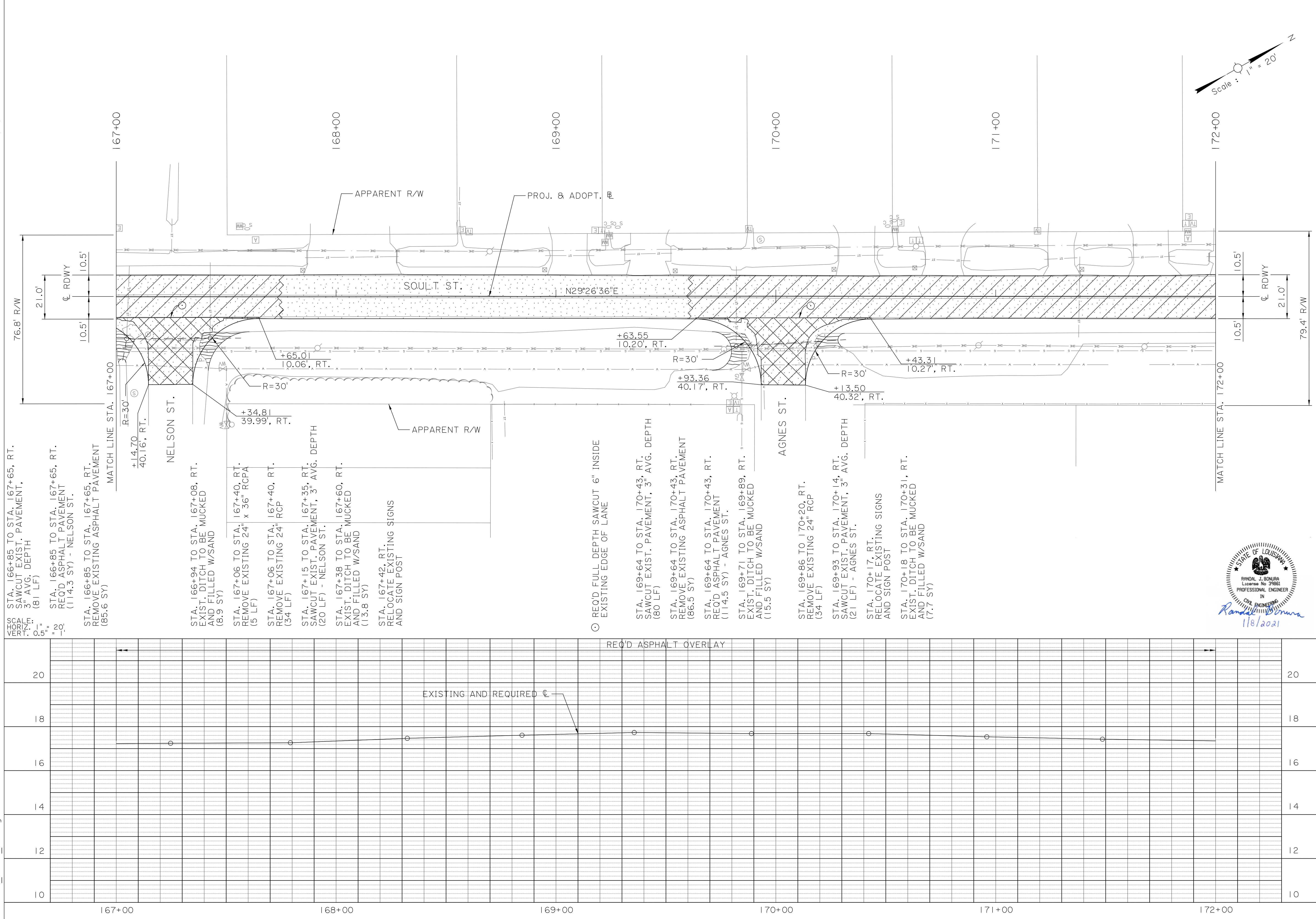




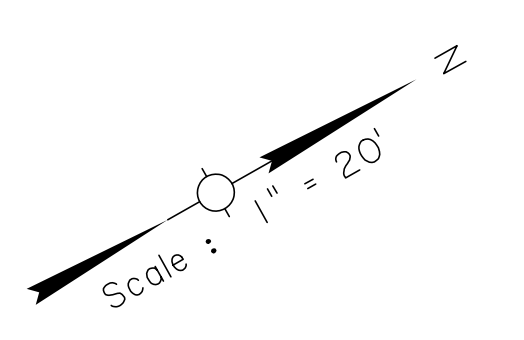
SCALE:
 HORIZ. 1" = 20'
 VERT. 0.5" = 1'



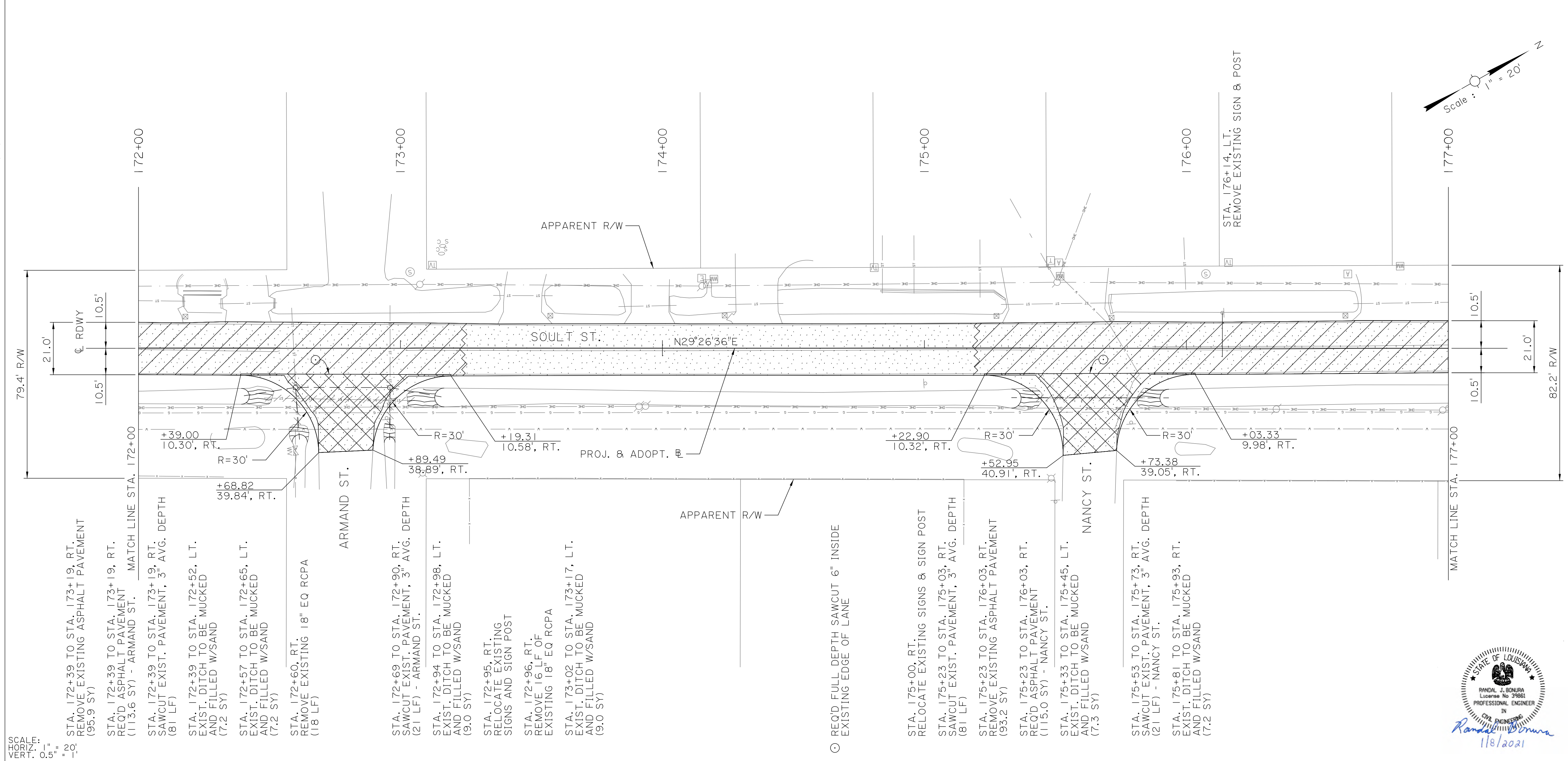
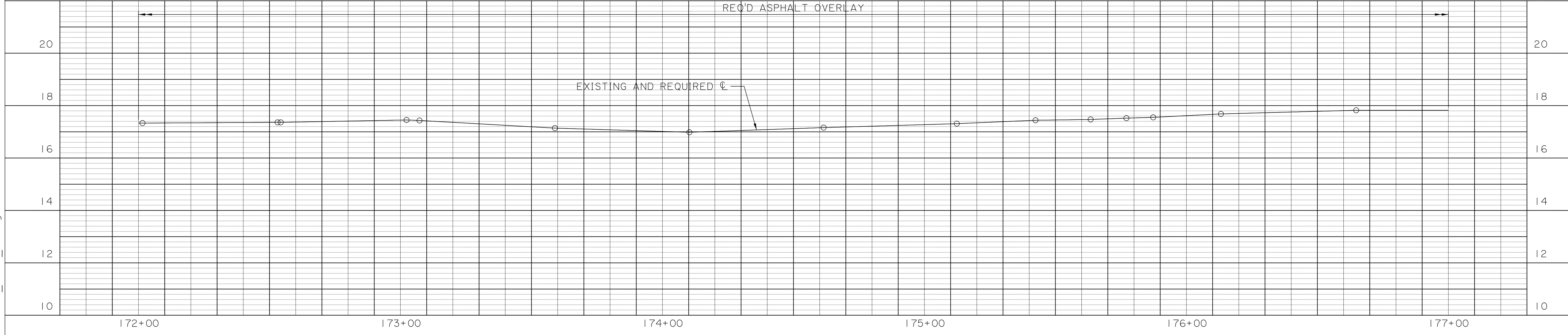
SHEET NUMBER		17	
DESIGNED	CRH	ST. TAMMANY	PROJECT
CHECKED	RUB	CONTROL SECTION	000-52
DETAILED	BBS	ENI 18000011	
CHECKED	CRH		
SERIES NUMBER	14 OF 23		
REVISION OR CHANGE ORDER DESCRIPTION	BY		
NO.	DATE		
PLAN AND PROFILE SHEET			
STA. 162+00 TO STA. 167+00			
SOULT ST. ROAD IMPROVEMENTS			



- STA. 166+85 TO STA. 167+65, RT. SAWCUT EXIST. PAVEMENT, 3" AVG. DEPTH (81 LF)
- STA. 166+85 TO STA. 167+65, RT. REQ'D ASPHALT PAVEMENT (114.3 SY) - NELSON ST.
- STA. 166+85 TO STA. 167+65, RT. REMOVE EXISTING ASPHALT PAVEMENT (85.6 SY)
- MATCH LINE STA. 167+00
- +14.70
40.16', RT.
- NELSON ST.
- STA. 166+94 TO STA. 167+08, RT. EXIST. DITCH TO BE MUCKED AND FILLED W/SAND (8.9 SY)
- STA. 167+06 TO STA. 167+40, RT. REMOVE EXISTING 24" x 36" RCPA (5 LF)
- STA. 167+06 TO STA. 167+40, RT. REMOVE EXISTING 24" RCP (34 LF)
- STA. 167+15 TO STA. 167+35, RT. SAWCUT EXIST. PAVEMENT, 3" AVG. DEPTH (20 LF) - NELSON ST.
- STA. 167+38 TO STA. 167+60, RT. EXIST. DITCH TO BE MUCKED AND FILLED W/SAND (13.8 SY)
- STA. 167+42, RT. RELOCATE EXISTING SIGNS AND SIGN POST
- REQ'D FULL DEPTH SAWCUT 6" INSIDE EXISTING EDGE OF LANE
- STA. 169+64 TO STA. 170+43, RT. SAWCUT EXIST. PAVEMENT, 3" AVG. DEPTH (80 LF)
- STA. 169+64 TO STA. 170+43, RT. REMOVE EXISTING ASPHALT PAVEMENT (86.5 SY)
- STA. 169+64 TO STA. 170+43, RT. REQ'D ASPHALT PAVEMENT (114.5 SY) - AGNES ST.
- STA. 169+71 TO STA. 169+89, RT. EXIST. DITCH TO BE MUCKED AND FILLED W/SAND (15.5 SY)
- STA. 169+86 TO 170+20, RT. REMOVE EXISTING 24" RCP (34 LF)
- STA. 169+93 TO STA. 170+14, RT. SAWCUT EXIST. PAVEMENT, 3" AVG. DEPTH (21 LF) - AGNES ST.
- STA. 170+17, RT. RELOCATE EXISTING SIGNS AND SIGN POST
- STA. 170+18 TO STA. 170+31, RT. EXIST. DITCH TO BE MUCKED AND FILLED W/SAND (7.7 SY)

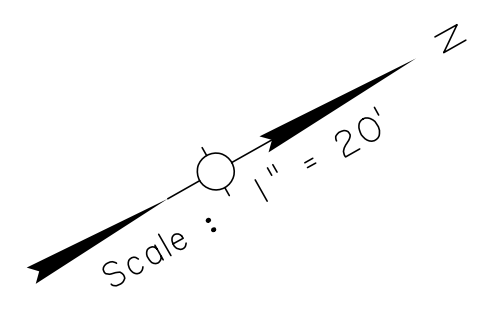


SHEET NUMBER		18	
DESIGNED	CRH	ST. TAMMANY	
CHECKED	RUB	PARISH	
DETAILED	BBS	CONTROL SECTION	000-52
CHECKED	CRH	PROJECT	EN18000011
SERIES NUMBER	15 OF 23		
REVISION OR CHANGE ORDER DESCRIPTION		BY	
NO.	DATE		
PLAN AND PROFILE SHEET			
STA. 167+00 TO STA. 172+00			
SOULT ST. ROAD IMPROVEMENTS			



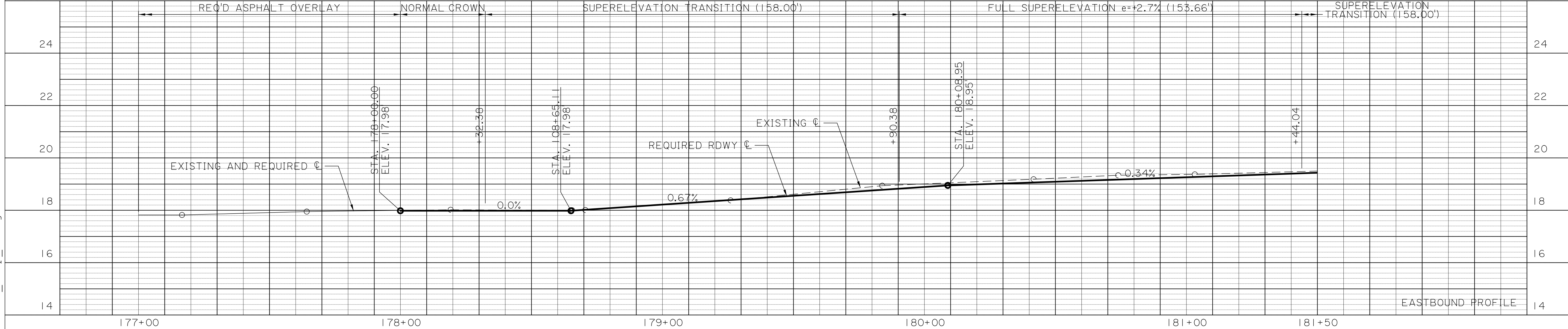
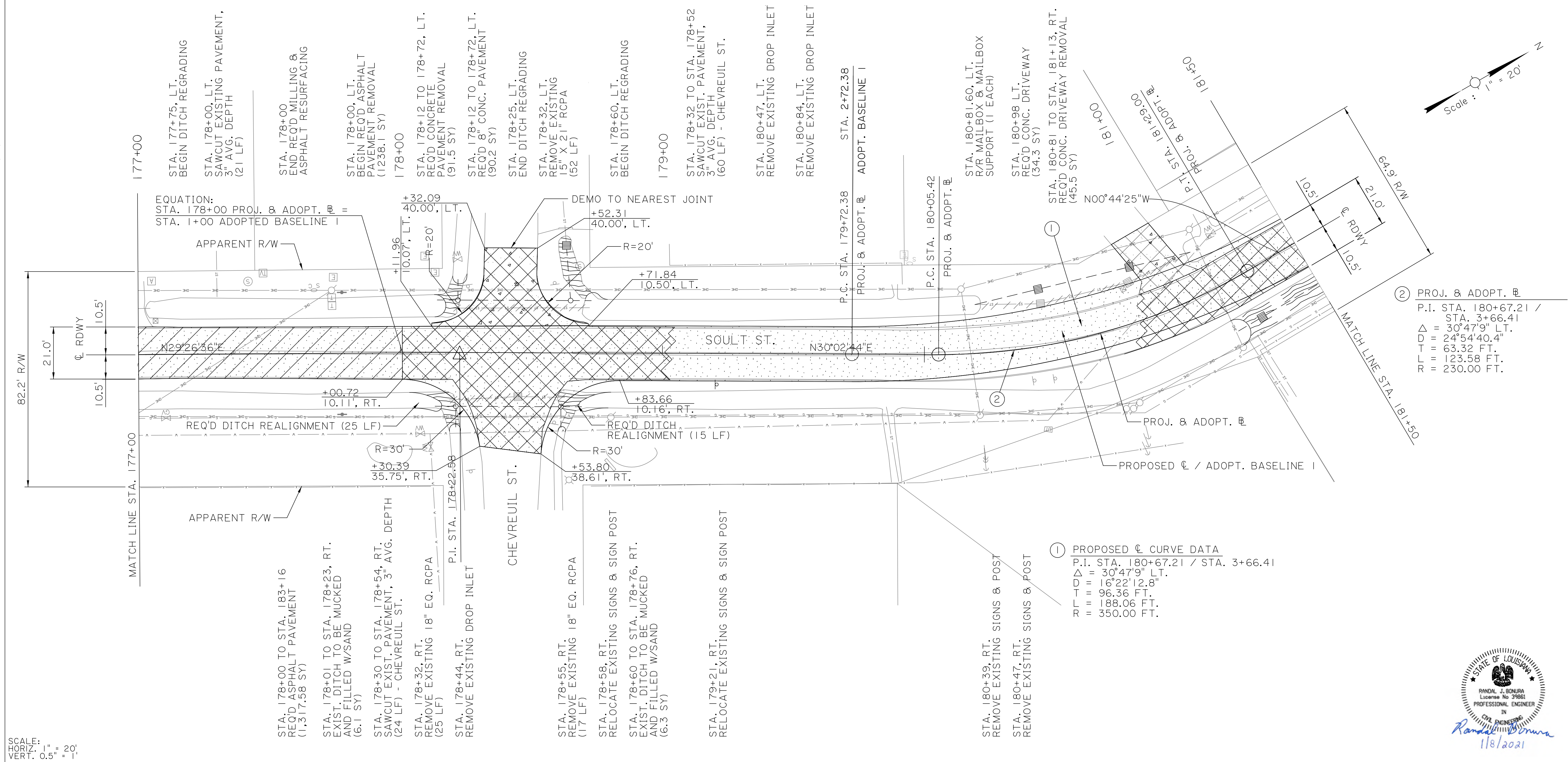
SCALE:
 HORIZ. 1" = 20'
 VERT. 0.5" = 1'

- STA. 172+39 TO STA. 173+19, RT.
REMOVE EXISTING ASPHALT PAVEMENT (95.9 SY)
- STA. 172+39 TO STA. 173+19, RT.
REQ'D ASPHALT PAVEMENT (113.6 SY) - ARMAND ST. MATCH LINE STA. 172+00 (81 LF)
- STA. 172+39 TO STA. 173+19, RT.
SAWCUT EXIST. PAVEMENT, 3" AVG. DEPTH (81 LF)
- STA. 172+39 TO STA. 172+52, LT.
EXIST. DITCH TO BE MUCKED AND FILLED W/SAND (7.2 SY)
- STA. 172+57 TO STA. 172+65, LT.
EXIST. DITCH TO BE MUCKED AND FILLED W/SAND (7.2 SY)
- STA. 172+60, RT.
REMOVE EXISTING 18" EQ RCPA (18 LF)
- STA. 172+69 TO STA. 172+90, RT.
SAWCUT EXIST. PAVEMENT, 3" AVG. DEPTH (21 LF) - ARMAND ST.
- STA. 172+94 TO STA. 172+98, LT.
EXIST. DITCH TO BE MUCKED AND FILLED W/SAND (9.0 SY)
- STA. 172+95, RT.
RELOCATE EXISTING SIGNS AND SIGN POST
- STA. 172+96, RT.
REMOVE 16 LF OF EXISTING 18" EQ RCPA
- STA. 173+02 TO STA. 173+17, LT.
EXIST. DITCH TO BE MUCKED AND FILLED W/SAND (9.0 SY)
- REQ'D FULL DEPTH SAWCUT 6" INSIDE EXISTING EDGE OF LANE
- STA. 175+00, RT.
RELOCATE EXISTING SIGNS & SIGN POST
- STA. 175+23 TO STA. 175+03, RT.
SAWCUT EXIST. PAVEMENT, 3" AVG. DEPTH (81 LF)
- STA. 175+23 TO STA. 176+03, RT.
REMOVE EXISTING ASPHALT PAVEMENT (93.2 SY)
- STA. 175+23 TO STA. 176+03, RT.
REQ'D ASPHALT PAVEMENT (115.0 SY) - NANCY ST.
- STA. 175+33 TO STA. 175+45, LT.
EXIST. DITCH TO BE MUCKED AND FILLED W/SAND (7.3 SY)
- STA. 175+53 TO STA. 175+73, RT.
SAWCUT EXIST. PAVEMENT, 3" AVG. DEPTH (21 LF) - NANCY ST.
- STA. 175+81 TO STA. 175+93, RT.
EXIST. DITCH TO BE MUCKED AND FILLED W/SAND (7.2 SY)



		ST. TAMMANY PARISH GOV.
PLAN AND PROFILE SHEET STA. 172+00 TO STA. 177+00		SOULT ST. ROAD IMPROVEMENTS
SHEET NUMBER 19	DESIGNED CRH	PARISH ST. TAMMANY
CHECKED RUB	DETAILED BBS	CONTROL SECTION 000-52
CHECKED CRH	SERIES NUMBER 16 OF 23	PROJECT ENI8000011
REVISION OR CHANGE ORDER DESCRIPTION NO. DATE BY		





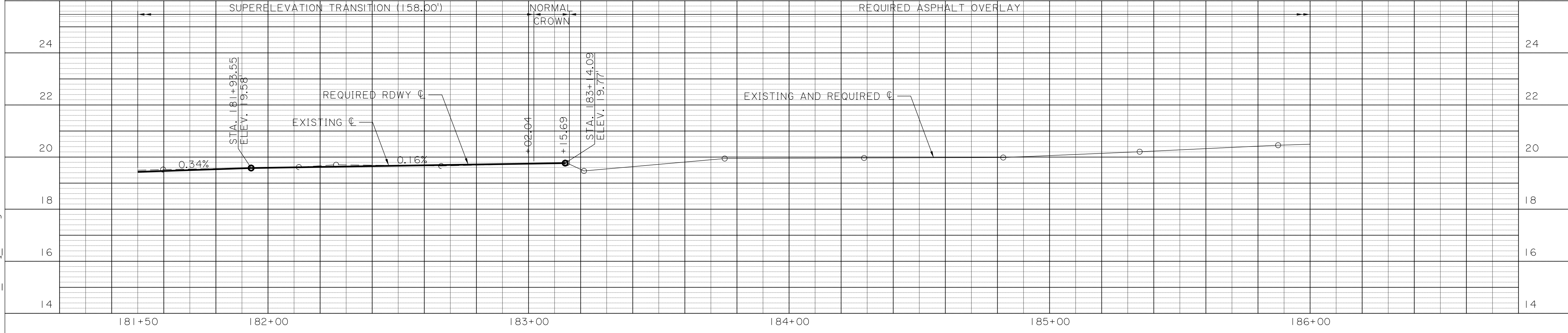
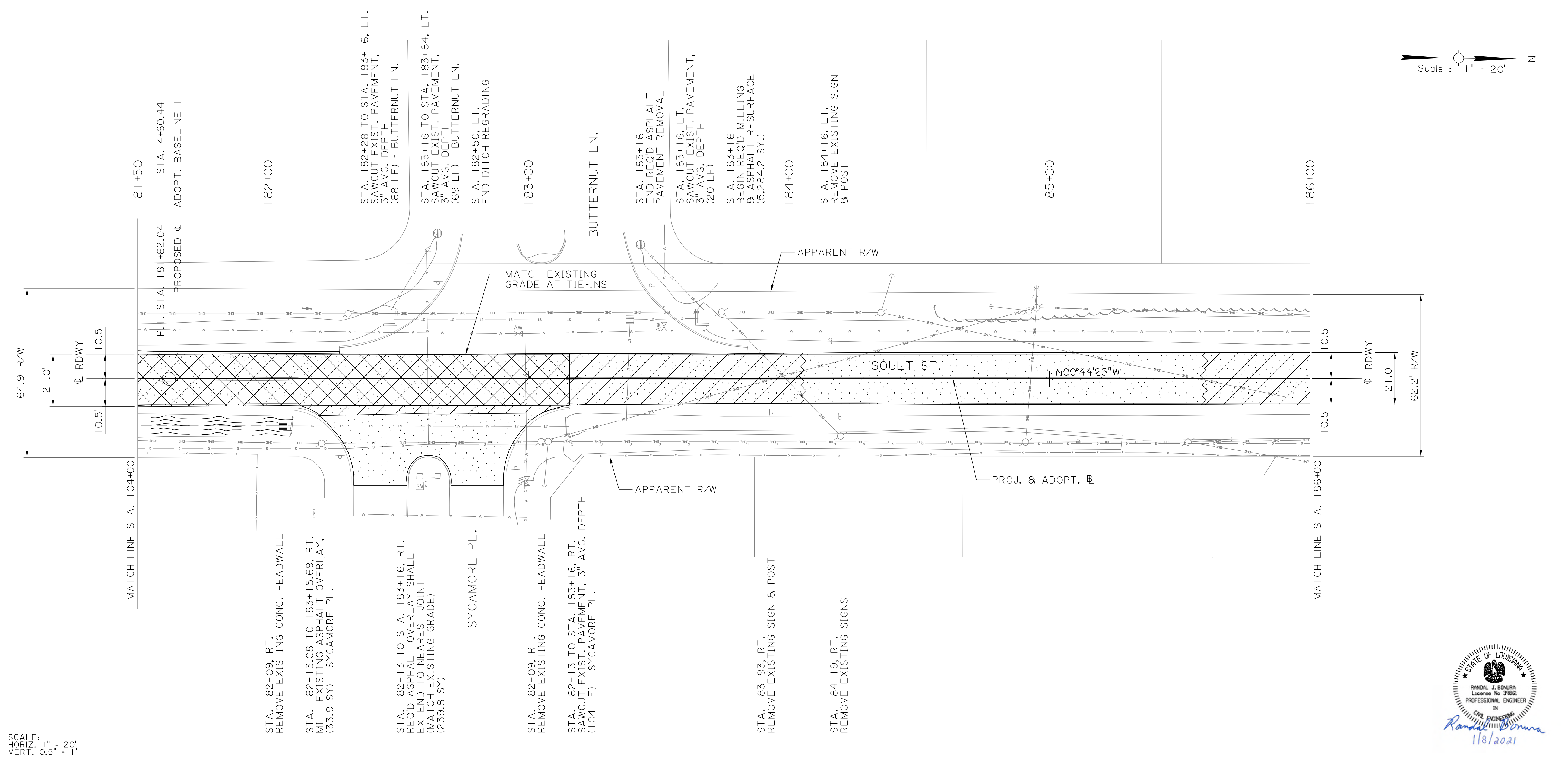
SHEET NUMBER		20	
DESIGNED	CRH	ST. TAMMANY	PROJECT
CHECKED	RUB	PARISH	ENI 18000011
DETAILED	BBS	CONTROL SECTION	000-52
CHECKED	CRH	SERIES NUMBER	17 OF 23
REVISION OR CHANGE ORDER DESCRIPTION		BY	
NO.		DATE	
PLAN AND PROFILE SHEET STA. 177+00 TO STA. 181+50 SOULT ST. ROAD IMPROVEMENTS			

100% FINAL PLANS

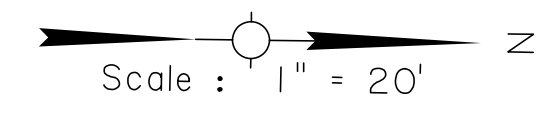
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1/8/2021

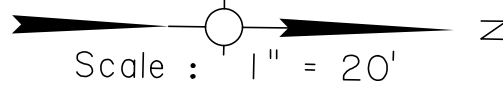
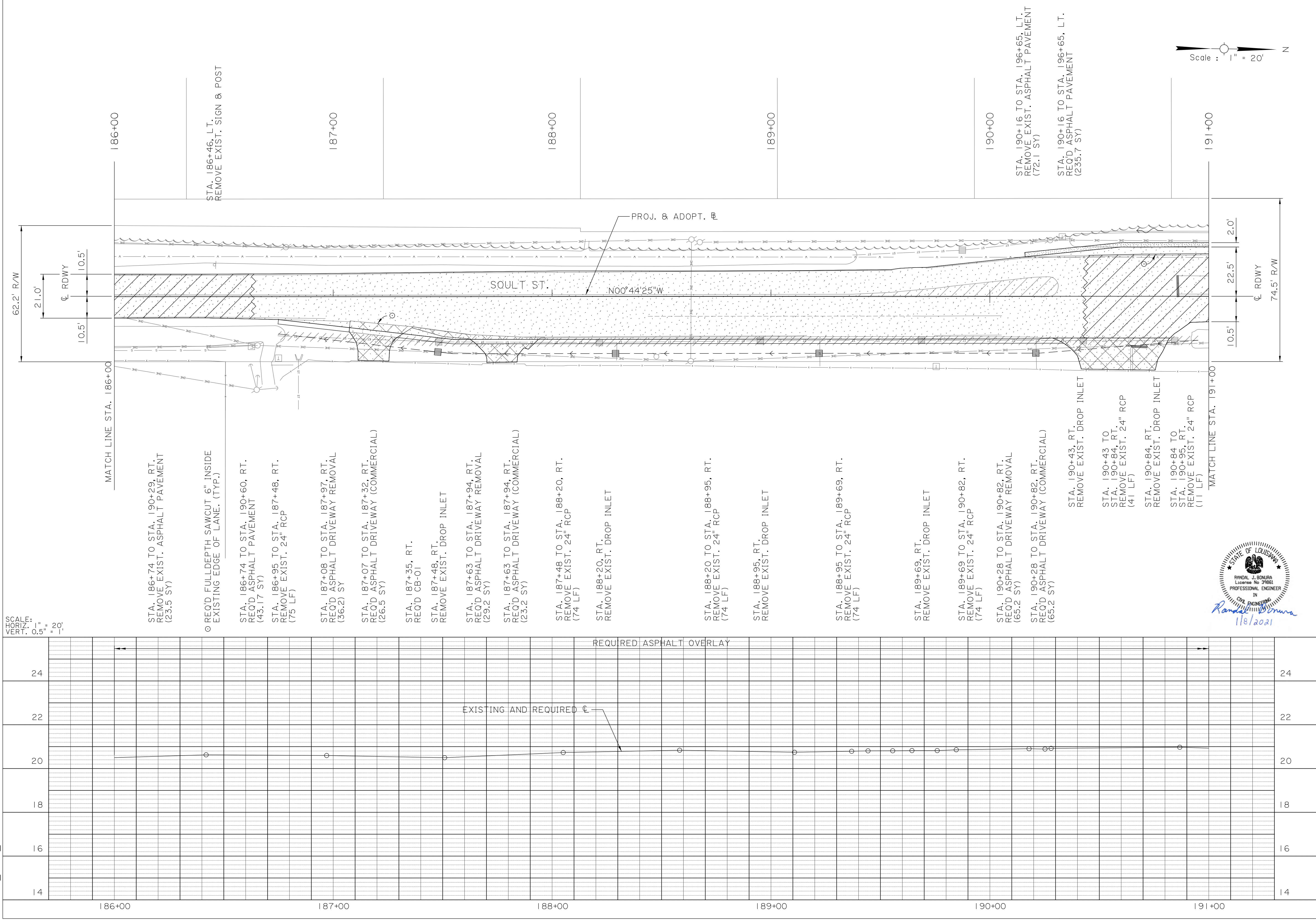
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SCALE:
HORIZ. 1" = 20'
VERT. 0.5" = 1'

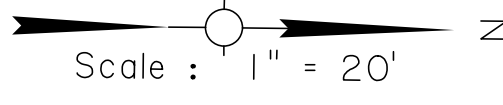
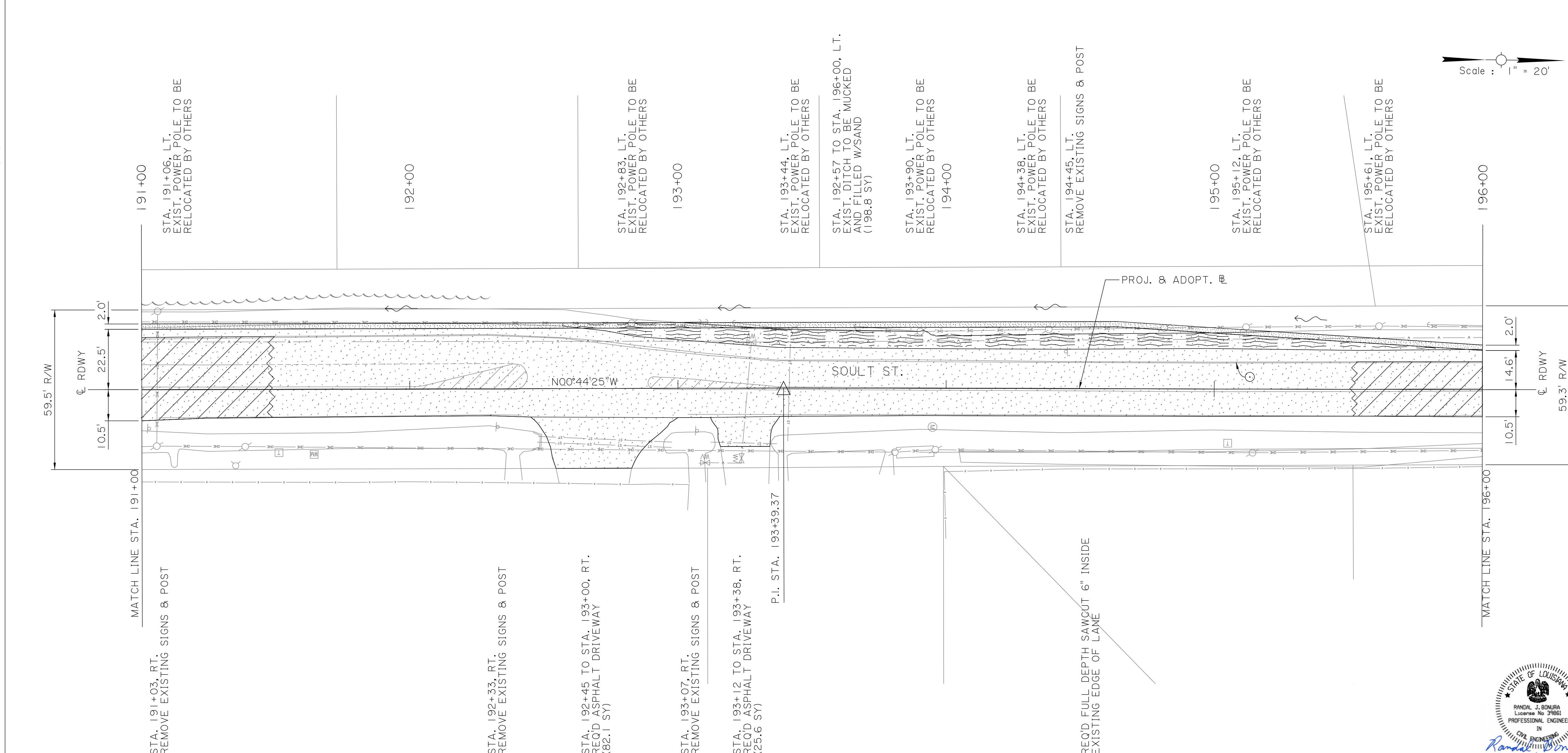
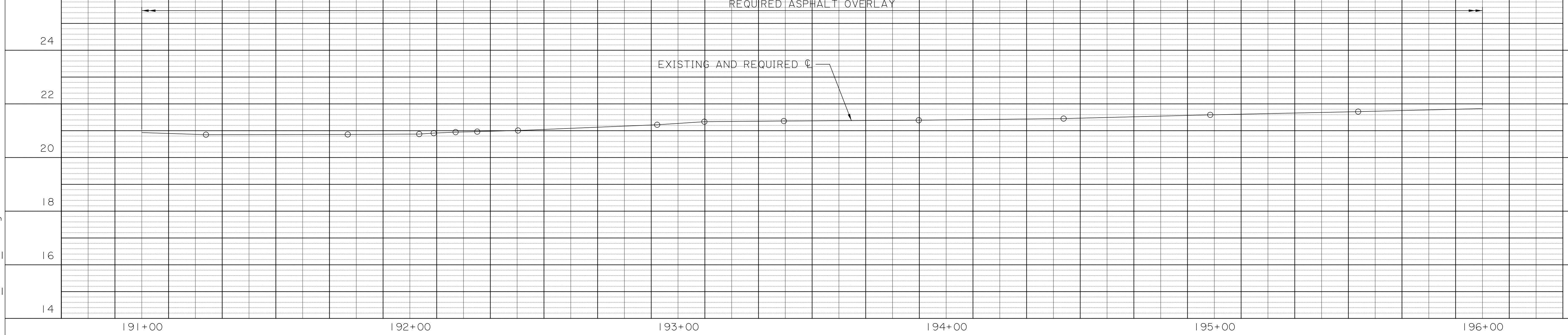


SHEET NUMBER		21	
DESIGNED	CRH	PARISH	ST. TAMMANY
CHECKED	RUB	CONTROL SECTION	000-52
DETAILED	BBS	PROJECT	EN18000011
CHECKED	CRH	SERIES NUMBER	18 OF 23
REVISION OR CHANGE ORDER DESCRIPTION		NO.	DATE
BY			
			
PLAN AND PROFILE SHEET STA. 181+50 TO STA. 186+00 SOULT ST. ROAD IMPROVEMENTS			
			



SHEET NUMBER		22	
DESIGNED	CRH	PARISH	ST. TAMMANY
CHECKED	RUB	CONTROL SECTION	000-52
DETAILED	BBS	PROJECT	ENI8000011
CHECKED	CRH	SERIES NUMBER	19 OF 23
REVISION OR CHANGE ORDER DESCRIPTION		BY	
NO.	DATE		
PLAN AND PROFILE SHEET			
STA. 186+00 TO STA. 191+00			
SOULT ST. ROAD IMPROVEMENTS			

SCALE:
HORIZ. 1" = 20'
VERT. 0.5" = 1'



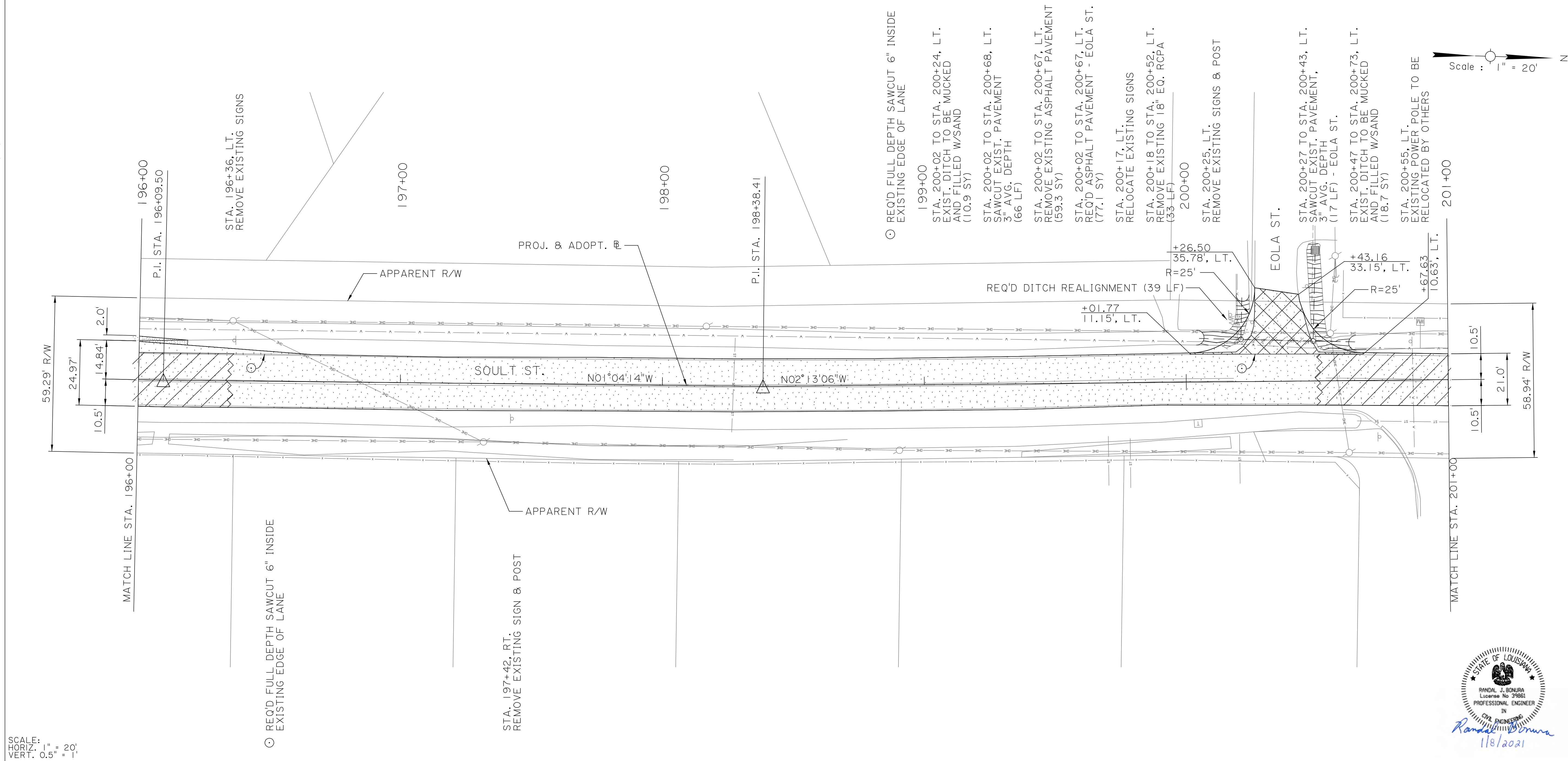
SHEET NUMBER		23	
DESIGNED		ST. TAMMANY	
CHECKED		CONTROL SECTION	
DETAILED		000-52	
CHECKED		PROJECT	
SERIES NUMBER		ENI8000011	
NO.		20 OF 23	
DATE		REVISION OR CHANGE ORDER DESCRIPTION	
BY			

PLAN AND PROFILE SHEET
STA. 191+00 TO STA. 196+00
SOULT ST. ROAD IMPROVEMENTS

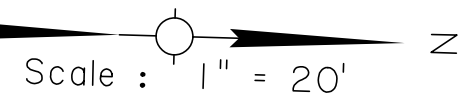
100% FINAL PLANS

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SCALE:
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VERT. 0.5" = 1'

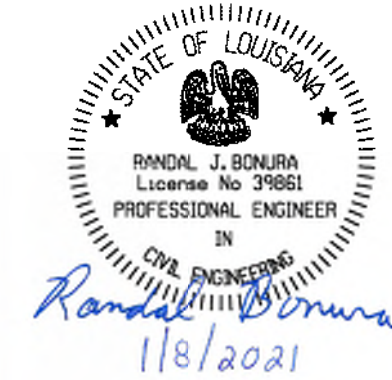
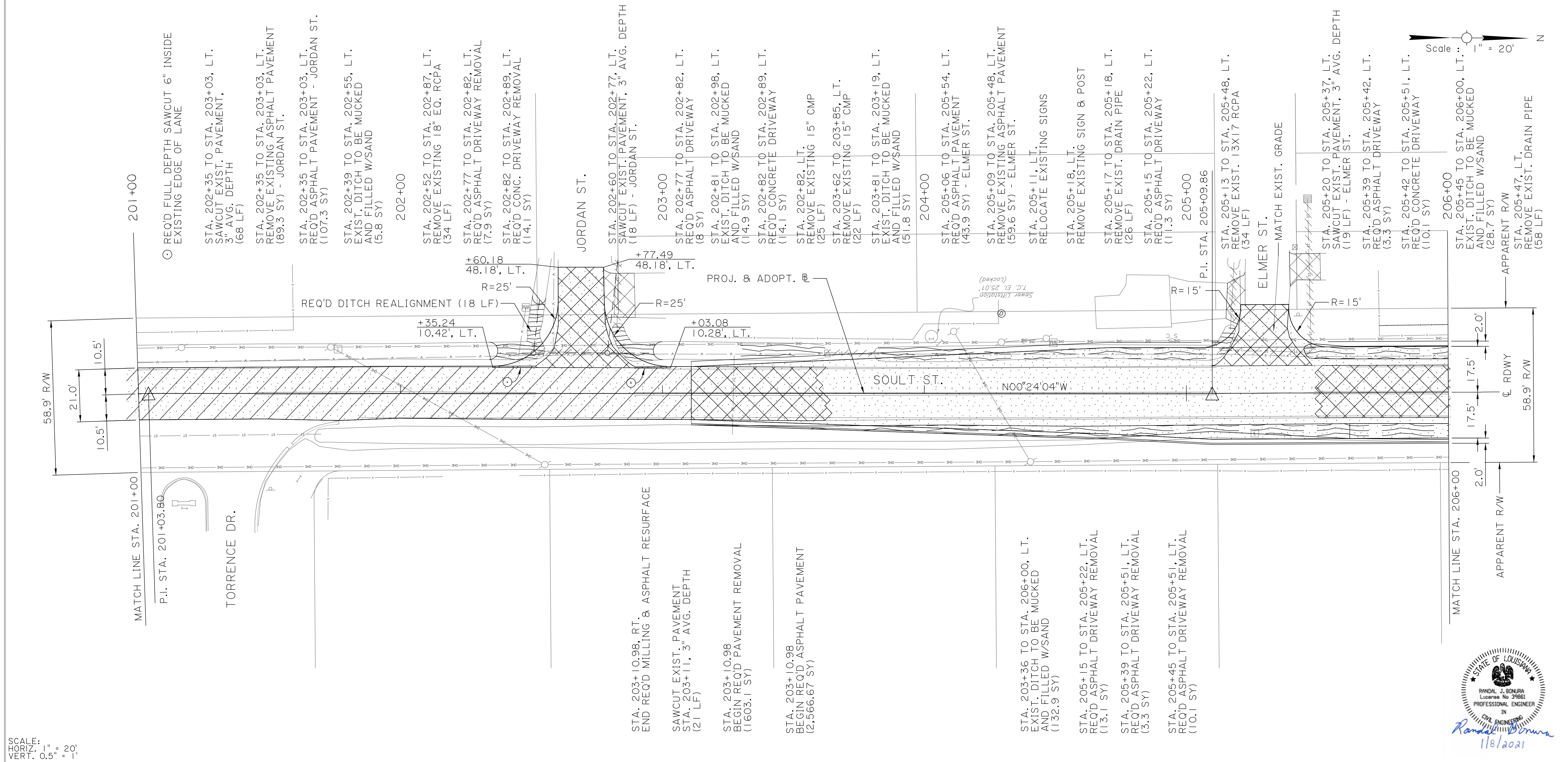




- REQ'D FULL DEPTH SAWCUT 6" INSIDE EXISTING EDGE OF LANE
- STA. 196+36, L.T. REMOVE EXISTING SIGNS
- STA. 197+42, RT. REMOVE EXISTING SIGN & POST
- STA. 199+00 EXIST. DITCH TO BE MUCKED AND FILLED W/SAND (10.9 SY)
- STA. 200+02 TO STA. 200+68, L.T. SAWCUT EXIST. PAVEMENT 3" AVG. DEPTH (66 LF)
- STA. 200+02 TO STA. 200+67, L.T. REMOVE EXISTING ASPHALT PAVEMENT (59.3 SY)
- STA. 200+02 TO STA. 200+67, L.T. REQ'D ASPHALT PAVEMENT - EOLA ST. (77.1 SY)
- STA. 200+17, L.T. RELOCATE EXISTING SIGNS
- STA. 200+18 TO STA. 200+52, L.T. REMOVE EXISTING 18" EQ. RCPPA (33-LF) 200+00
- STA. 200+25, L.T. REMOVE EXISTING SIGNS & POST
- STA. 200+27 TO STA. 200+43, L.T. SAWCUT EXIST. PAVEMENT, 3" AVG. DEPTH (17 LF) - EOLA ST.
- STA. 200+47 TO STA. 200+73, L.T. EXIST. DITCH TO BE MUCKED AND FILLED W/SAND (18.7 SY)
- STA. 200+55, L.T. EXISTING POWER POLE TO BE RELOCATED BY OTHERS

SHEET NUMBER	24	DESIGNED CRH	ST. TAMMANY	PARISH	ST. TAMMANY
CHECKED RJB		CONTROL SECTION	000-52		
DETAILED BBS		CHECKED CRH			
SERIES NUMBER	21 OF 23	PROJECT	EN18000011		
REVISION OR CHANGE ORDER DESCRIPTION		NO.		DATE	
BY					

PLAN AND PROFILE SHEET
STA. 196+00 TO STA. 201+00

SOULT ST. ROAD IMPROVEMENTS



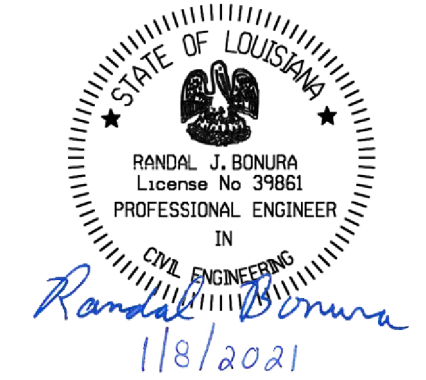
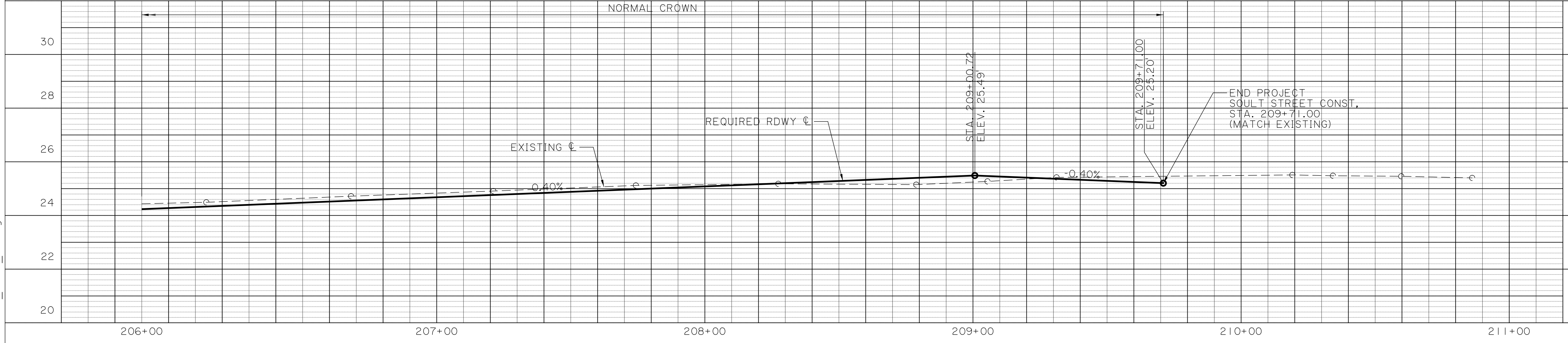
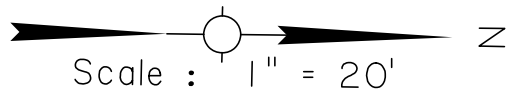
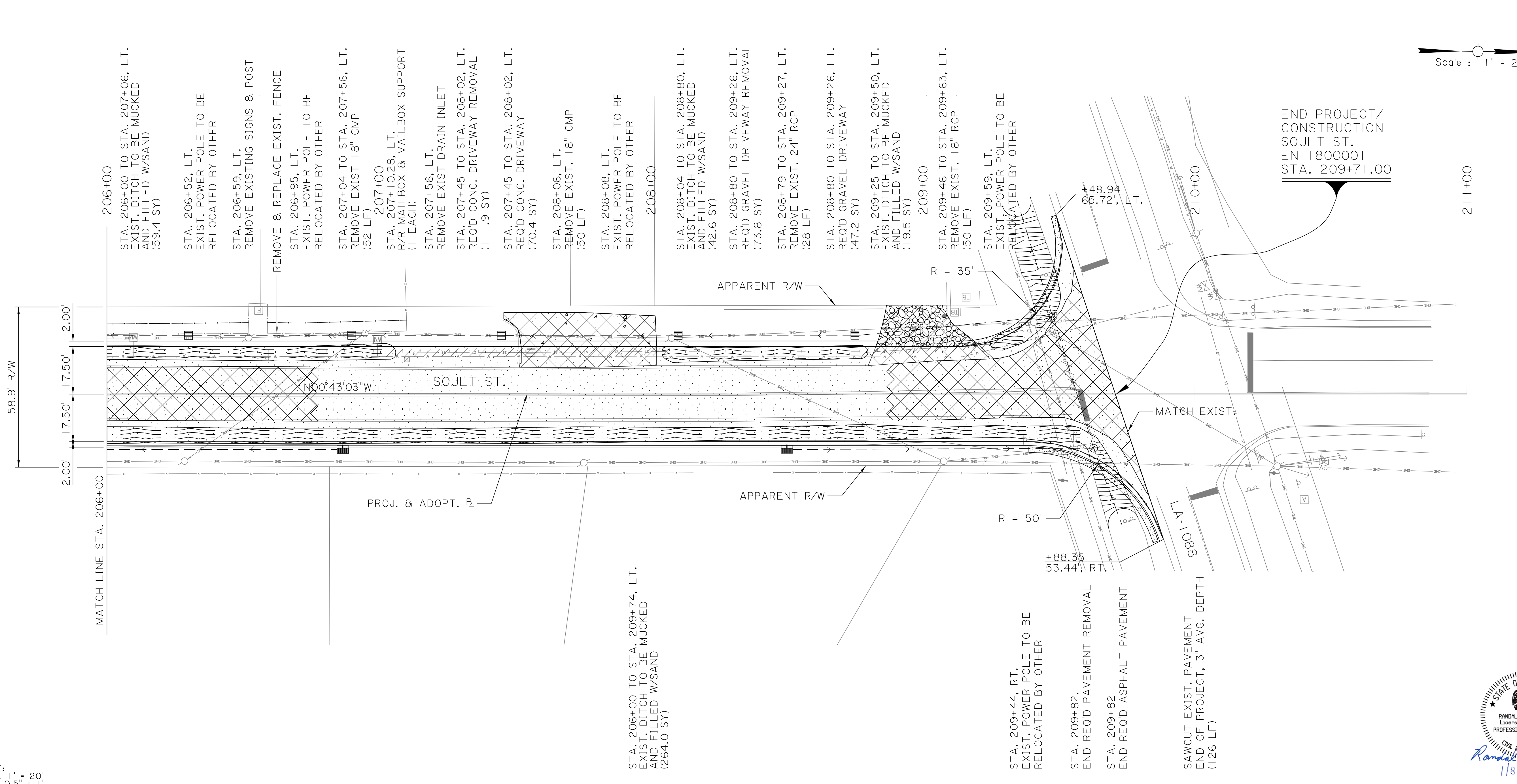
SHEET NUMBER		25	
DESIGNED	CRH	PARISH	ST. TAMMANY
CHECKED	RUB	CONTROL SECTION	000-52
DETAILED	BBS	PROJECT	EN18000011
CHECKED	CRH	22 OF 23	
SERIES NUMBER		BY	
REVISION OR CHANGE ORDER DESCRIPTION		DATE	
			
PLAN AND PROFILE SHEET STA. 201+00 TO STA. 206+00 SOULT ST. ROAD IMPROVEMENTS			
			

100% FINAL PLANS

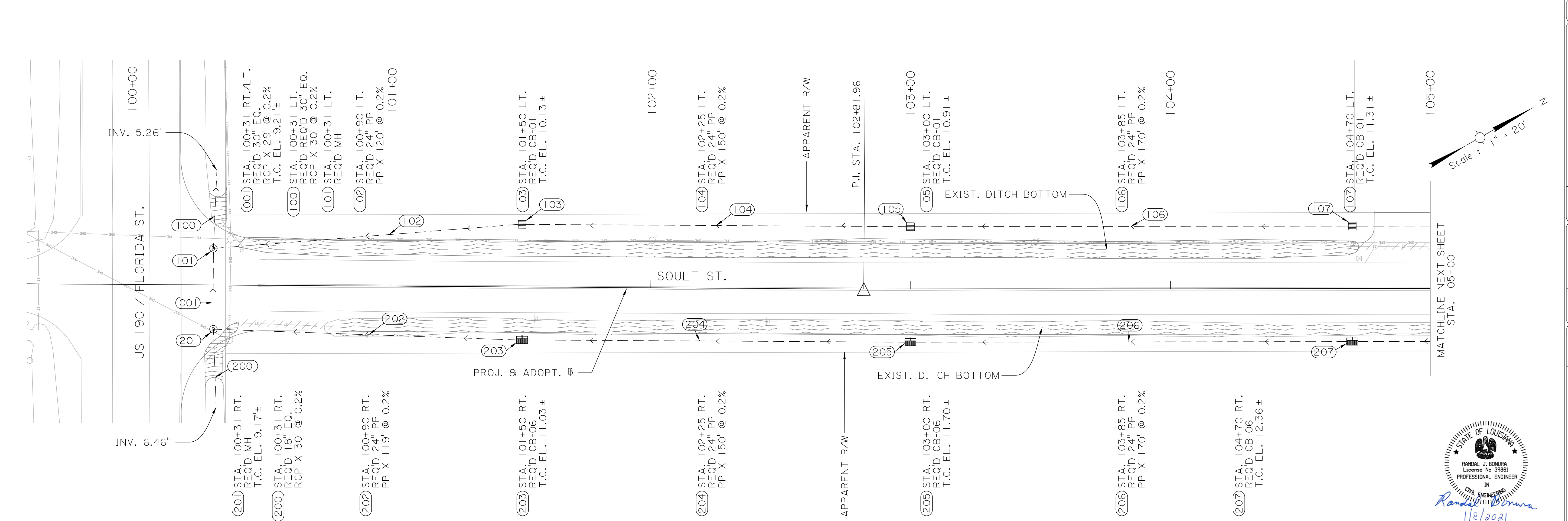
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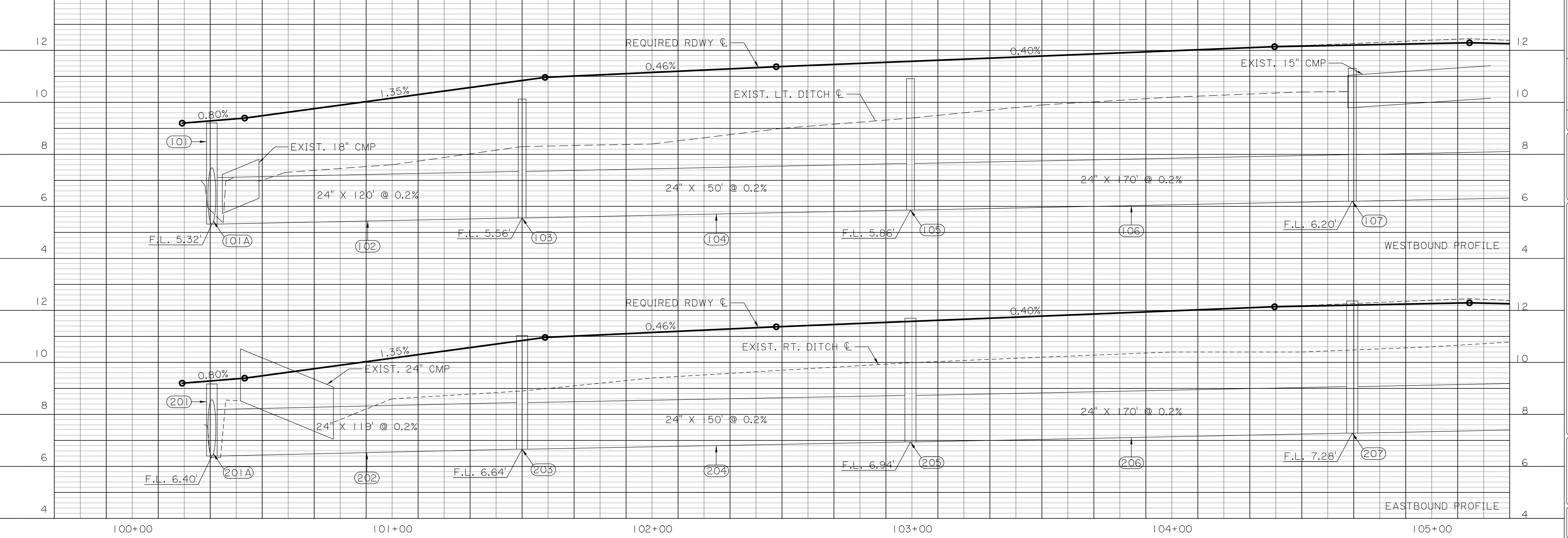
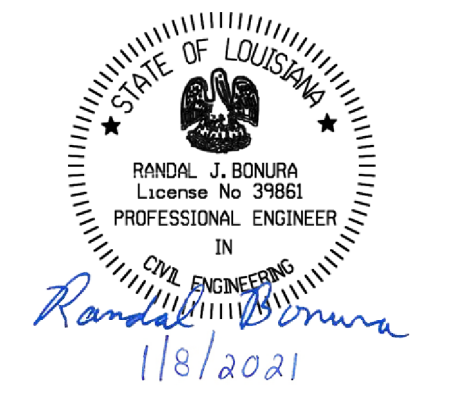
SCALE:
HORIZ. 1" = 20'
VERT. 0.5" = 1'



SHEET NUMBER		26	
DESIGNED	CRH	PARRISH	ST. TAMMANY
CHECKED	RUB	CONTROL SECTION	000-52
DETAILED	BBS	PROJECT	EN18000011
CHECKED	CRH	23 OF 23	
SERIES NUMBER		BY	
REVISION OR CHANGE ORDER DESCRIPTION			
NO. DATE			
PLAN AND PROFILE SHEET			
SOULT ST. ROAD IMPROVEMENTS			
STA. 206+00 TO END OF PROJECT			



SCALE: HORIZ. 1" = 20' VERT. 0.5" = 1'



SHEET NUMBER	27
DESIGNED	ST. TAMMANY
CHECKED	CONTROL SECTION
REVISION OR CHANGE ORDER DESCRIPTION	000-52
NO.	DATE
BY	PROJECT
	ENI8000011

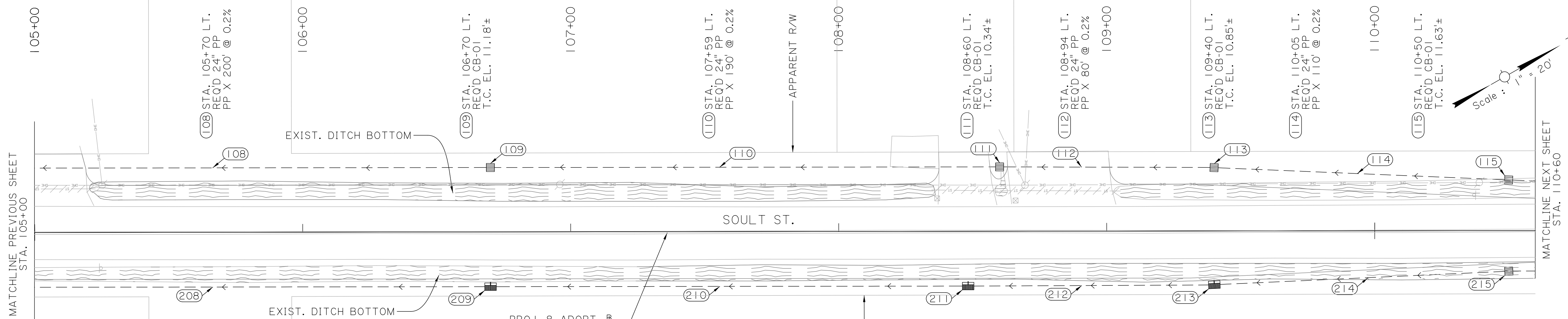


DRAINAGE PLAN
AND PROFILE SHEETS
STA. 100+00 TO STA. 105+00



100% FINAL PLANS

SCALE:
HORIZ. 1" = 20'
VERT. 0.5" = 1'



(208) STA. 105+70 RT.
REQD 24" PP
PP X 200' @ 0.2%

100% FINAL PLANS

PRELIMINARY

HNTB

NOT FOR CONSTRUCTION.

ENGINEER: RANDAL BONURA
LICENSE #: 39861
DATE: 1/8/2021

(209) STA. 106+70 RT.
REQD CB-06
T.C. EL. 11.99±

NOTE:
CONTRACTOR SHALL GRADE FINISHED GROUND TO DRAIN TO NEAREST CATCH BASIN WITHOUT THE PONDING OF WATER.

(210) STA. 107+59 RT.
REQD 24" PP
PP X 178' @ 0.2%

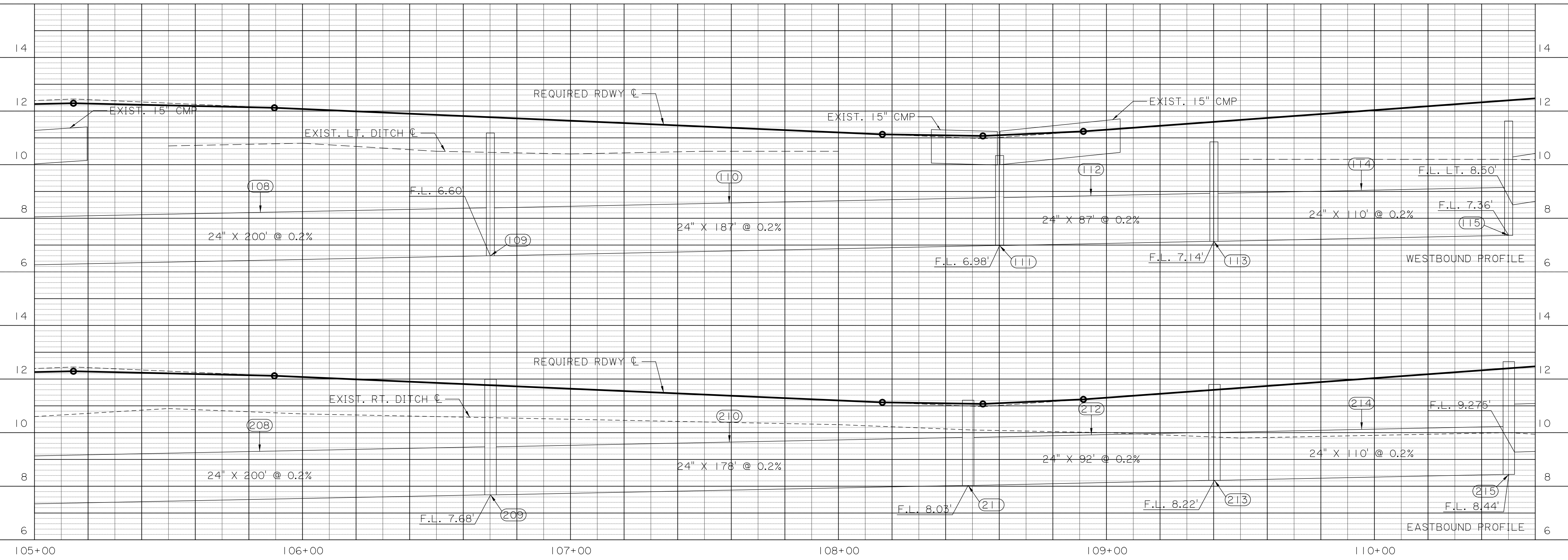
(211) STA. 108+48 RT.
REQD CB-07
T.C. EL. 11.21±

(212) STA. 108+94 RT.
REQD 24" PP
PP X 92' @ 0.2%

(213) STA. 109+40 RT.
REQD CB-06
T.C. EL. 11.80±

(214) STA. 110+05 RT.
REQD 24" PP
PP X 110' @ 0.2%

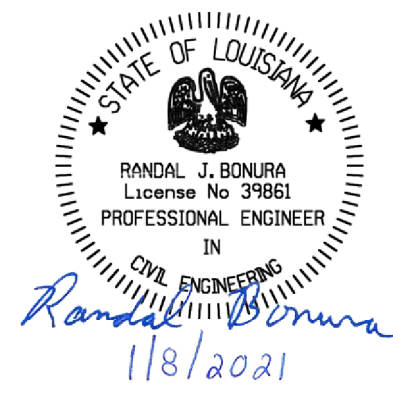
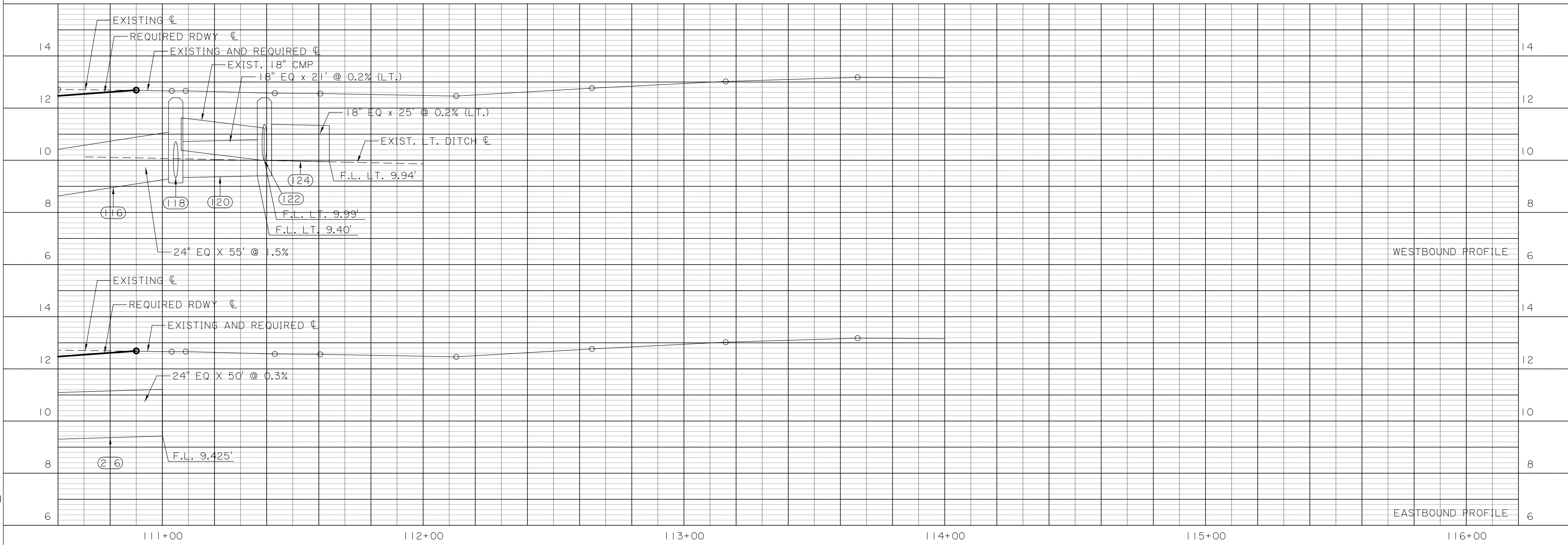
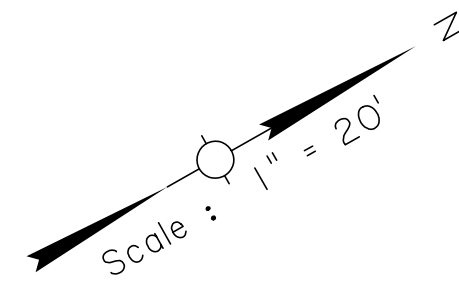
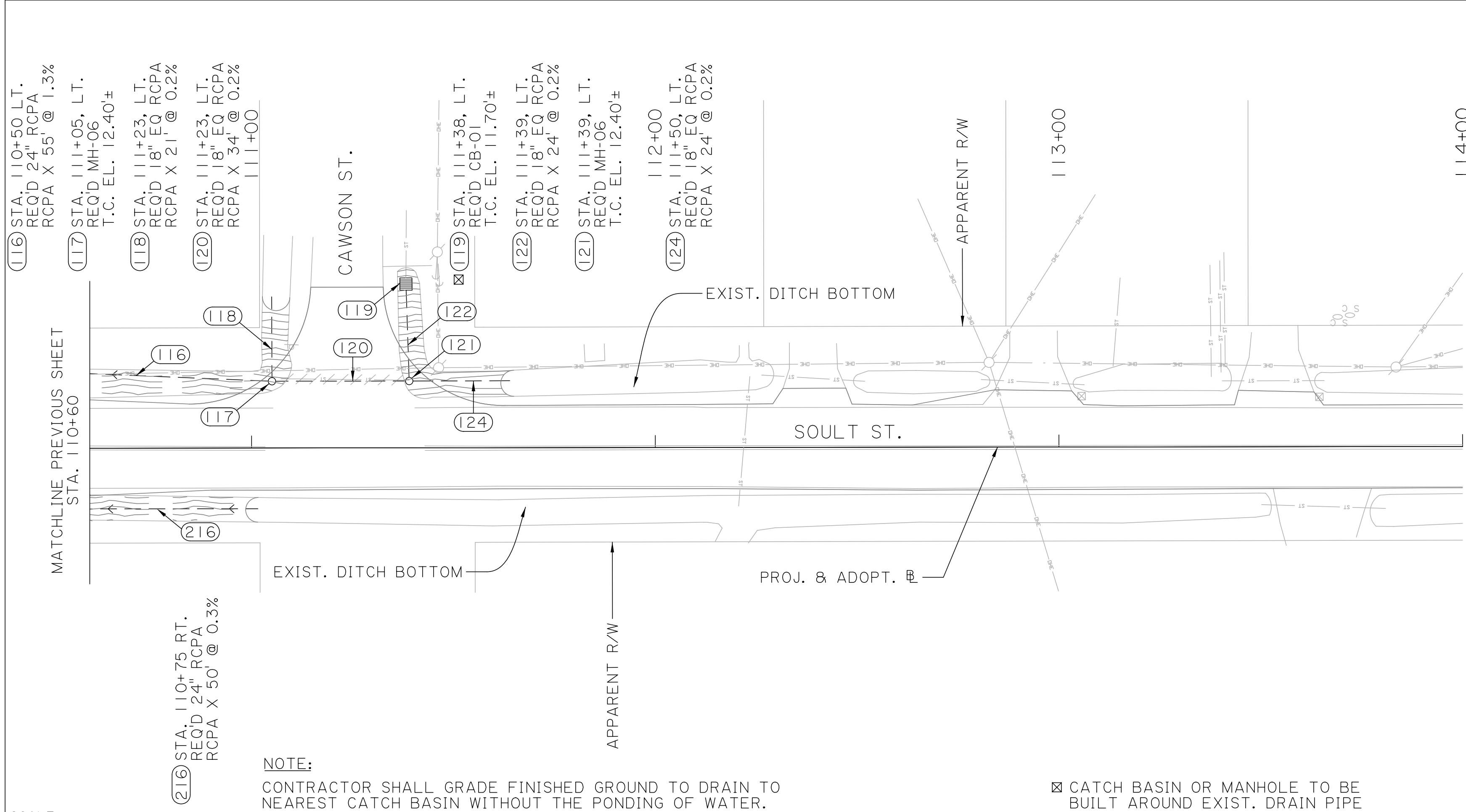
(215) STA. 110+50 RT.
REQD CB-01
T.C. EL. 12.65±



SHEET NUMBER	28	DESIGNED	CRH	ST. TAMMANY	PROJECT	ENI8000011
CHECKED	RUB	PARISH	CONTROL SECTION	000-52		
DETAILED	BBS	CHECKED	CRH			
SERIES NUMBER	2 OF 15					
REVISION OR CHANGE ORDER DESCRIPTION						
NO.	DATE	BY				
DRAINAGE PLAN AND PROFILE SHEETS STA. 105+00 TO STA. 110+00						
SOULT ST. ROAD IMPROVEMENTS						

100% FINAL PLANS

1/8/2021 1:56:01 PM



SHEET NUMBER		29	
DESIGNED	CRH	PARISH	ST. TAMMANY
CHECKED	RUB	CONTROL SECTION	000-52
DETAILED	BBS	PROJECT	EN18000011
CHECKED	CRH		
SERIES NUMBER	3 OF 15		
REVISION OR CHANGE ORDER DESCRIPTION		BY	
NO.		DATE	
DRAINAGE PLAN AND PROFILE SHEETS STA. 110+50 TO STA. 114+00			
SOULT ST. ROAD IMPROVEMENTS			

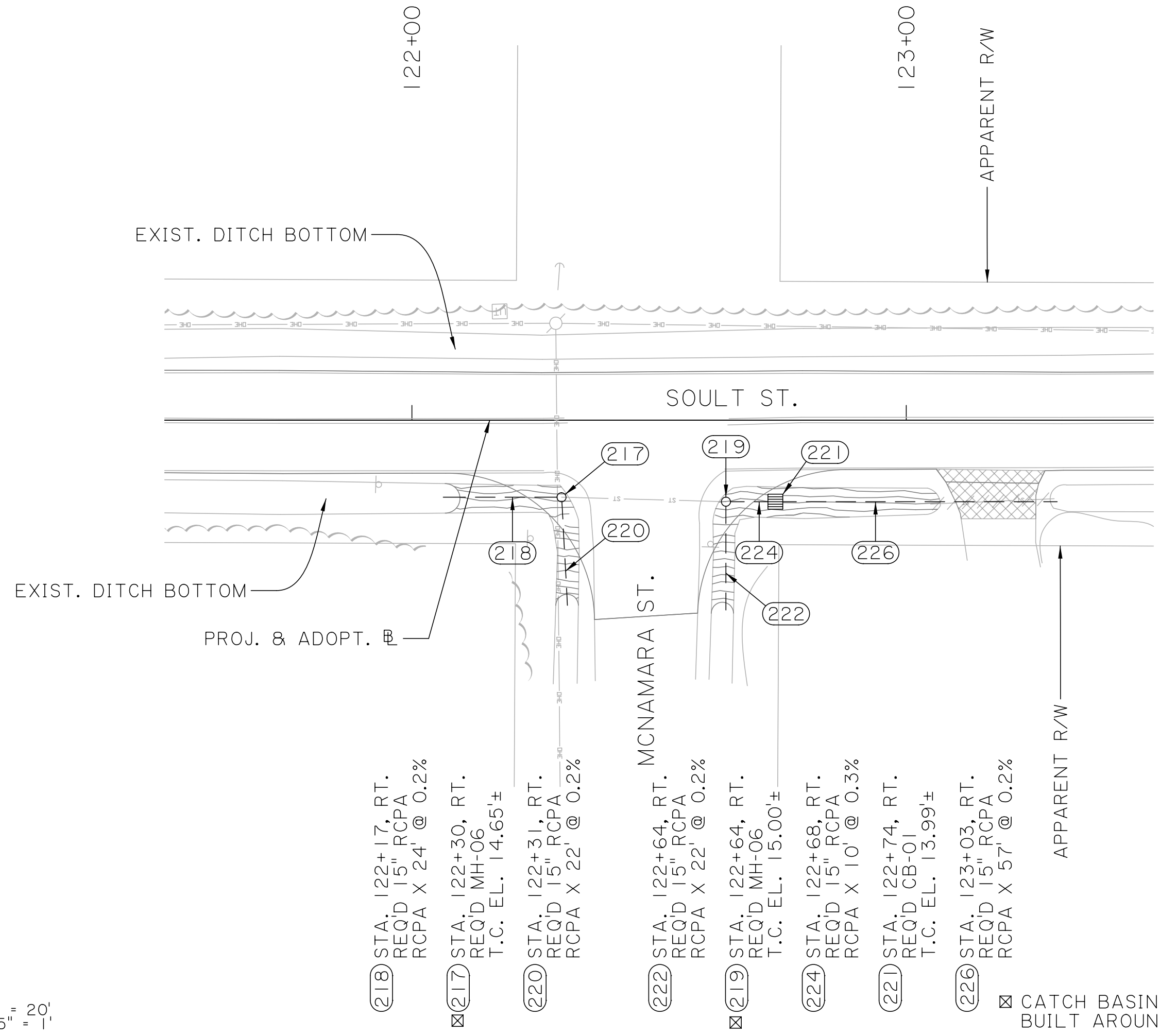
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100% FINAL PLANS

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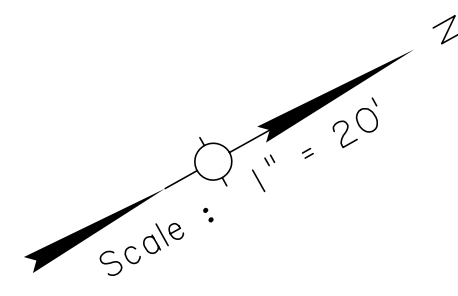
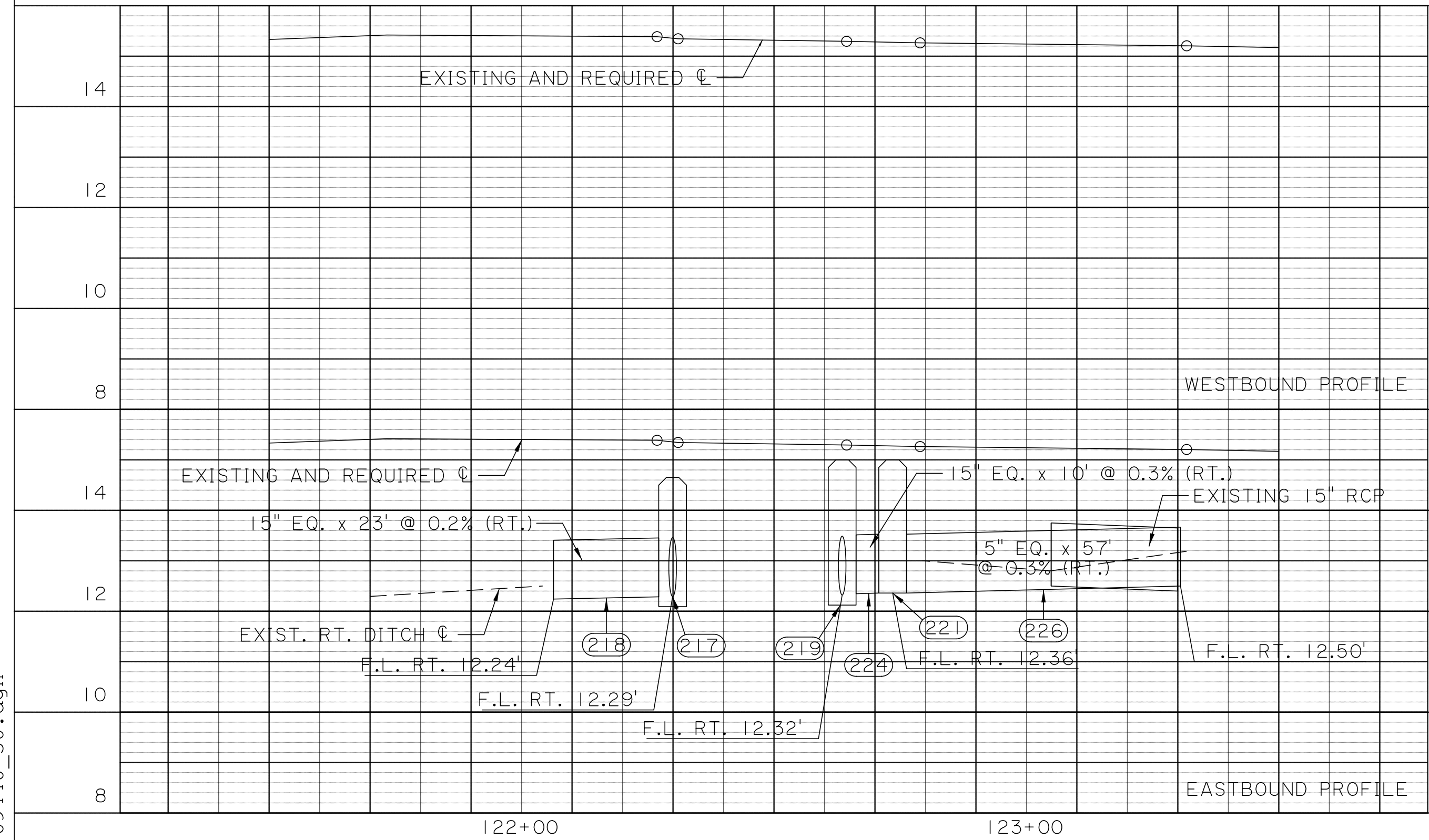
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SCALE:
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VERT. 0.5" = 1'

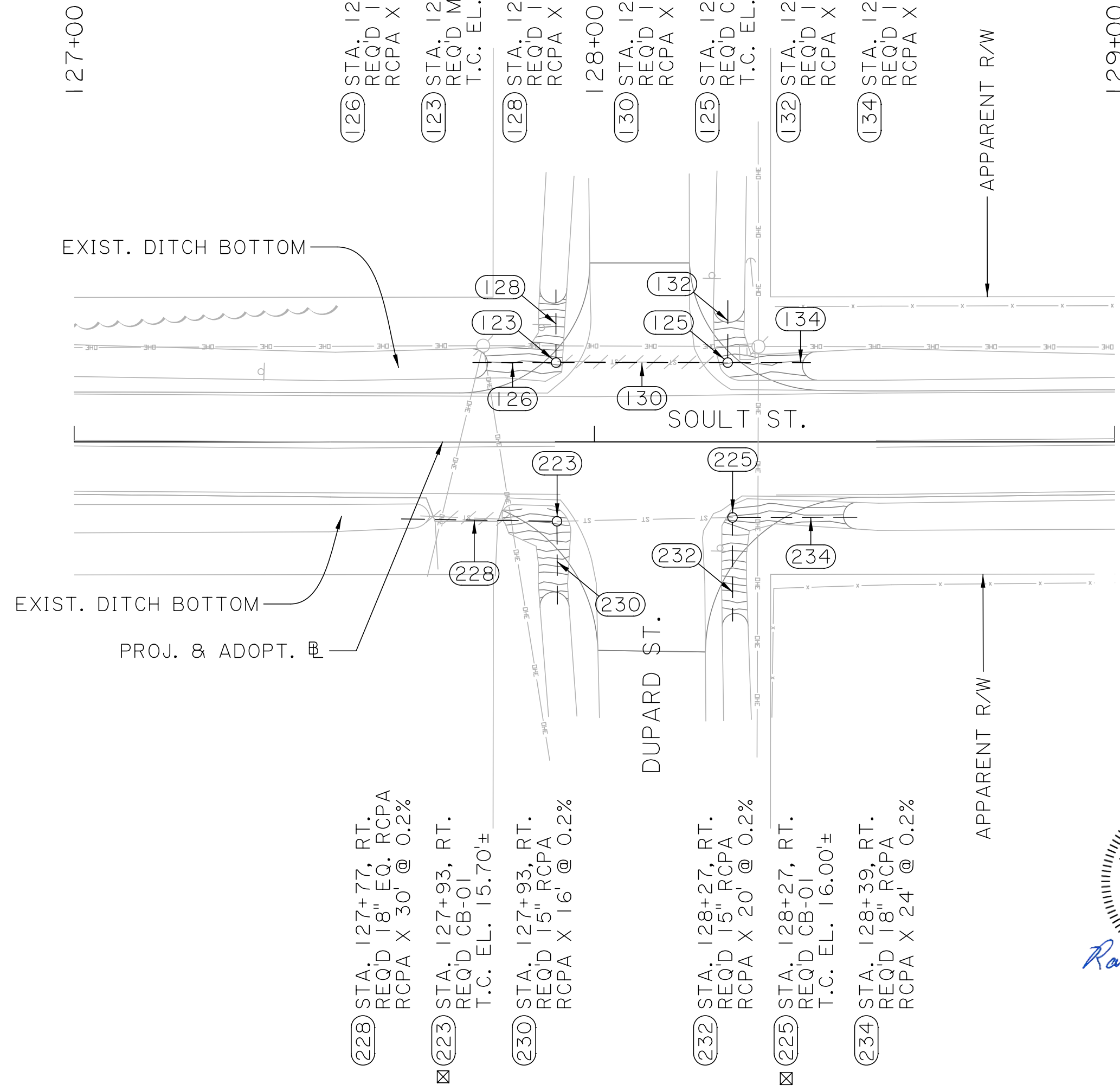


- (218) STA. 122+17, RT.
REQ'D 15" RCPA
RCPA X 24 @ 0.2%
- (217) STA. 122+30, RT.
REQ'D MH-06
T.C. EL. 14.65±
- (220) STA. 122+31, RT.
REQ'D 15" RCPA
RCPA X 22 @ 0.2%
- (222) STA. 122+64, RT.
REQ'D 15" RCPA
RCPA X 22 @ 0.2%
- (219) STA. 122+64, RT.
REQ'D MH-06
T.C. EL. 15.00±
- (224) STA. 122+68, RT.
REQ'D 15" RCPA
RCPA X 10 @ 0.3%
- (221) STA. 122+74, RT.
REQ'D CB-01
T.C. EL. 13.99±
- (226) STA. 123+03, RT.
REQ'D 15" RCPA
RCPA X 57 @ 0.2%

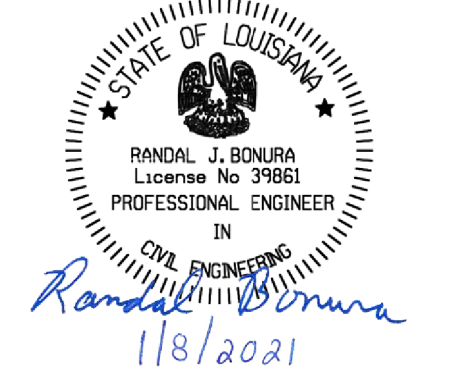
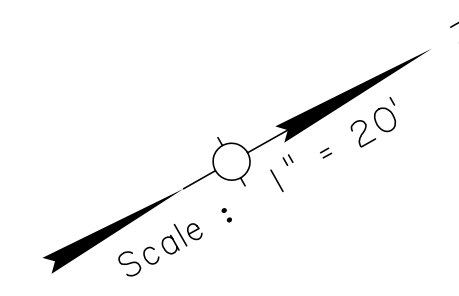
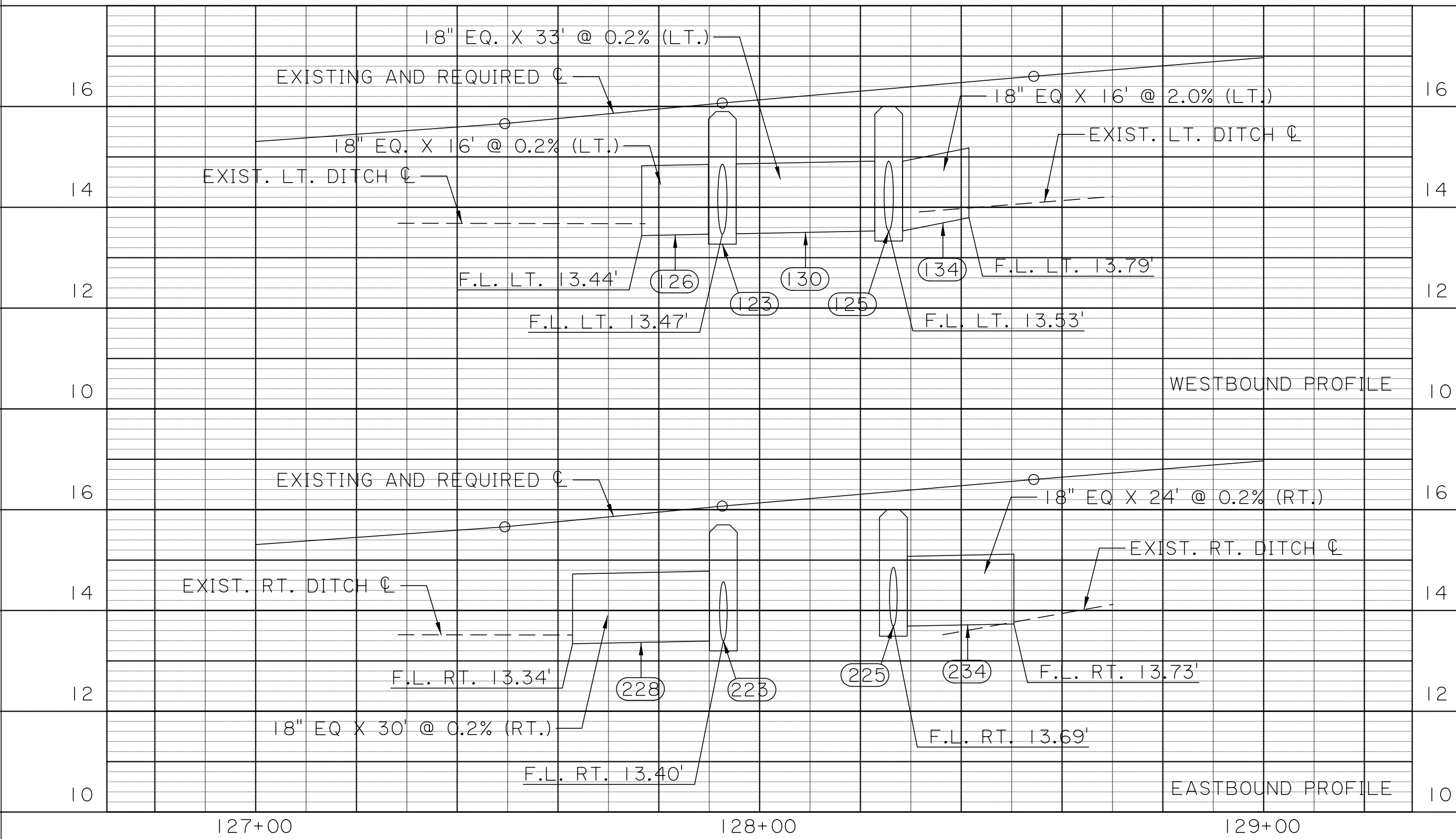
☒ CATCH BASIN OR MANHOLE TO BE BUILT AROUND EXIST. DRAIN PIPE



SCALE:
HORIZ. 1" = 20'
VERT. 0.5" = 1'



- (228) STA. 127+77, RT.
REQ'D 18" EQ. RCPA
RCPA X 30 @ 0.2%
- (223) STA. 127+93, RT.
REQ'D CB-01
T.C. EL. 15.70±
- (230) STA. 127+93, RT.
REQ'D 15" RCPA
RCPA X 16 @ 0.2%
- (232) STA. 128+27, RT.
REQ'D 15" RCPA
RCPA X 20 @ 0.2%
- (225) STA. 128+27, RT.
REQ'D CB-01
T.C. EL. 16.00±
- (234) STA. 128+39, RT.
REQ'D 18" RCPA
RCPA X 24 @ 0.2%
- (126) STA. 127+84, LT.
REQ'D 18" EQ. RCPA
RCPA X 16 @ 0.2%
- (123) STA. 127+93, LT.
REQ'D MH-06
T.C. EL. 15.90±
- (128) STA. 127+93, LT.
REQ'D 18" EQ. RCPA
RCPA X 14 @ 0.2%
- (130) STA. 128+09, LT.
REQ'D 18" EQ. RCPA
RCPA X 33 @ 0.2%
- (125) STA. 128+26, LT.
REQ'D CB-01
T.C. EL. 16.00±
- (132) STA. 128+26, LT.
REQ'D 18" EQ. RCPA
RCPA X 12 @ 0.2%
- (134) STA. 128+34, LT.
REQ'D 18" EQ. RCPA
RCPA X 16 @ 2.0%



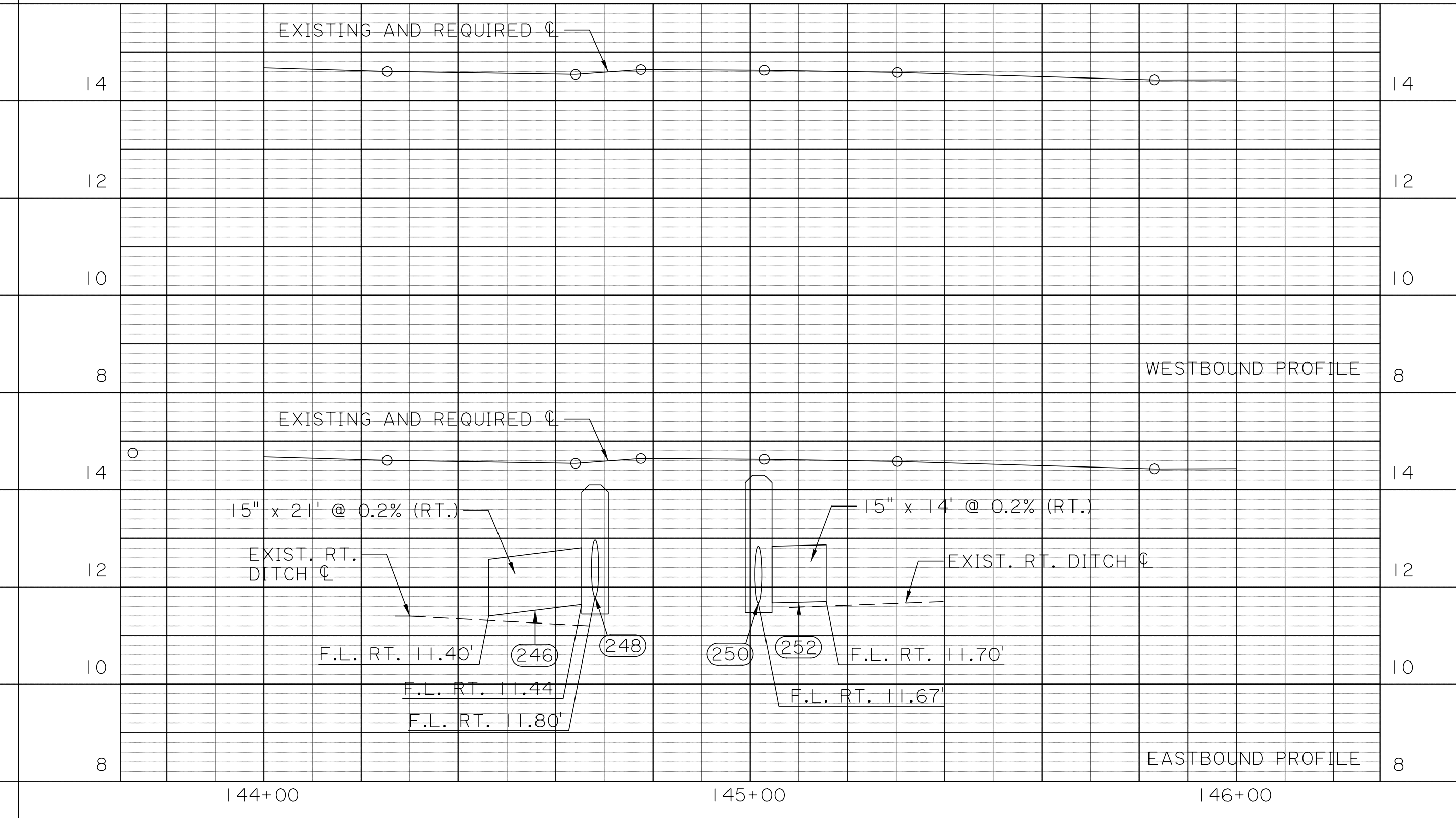
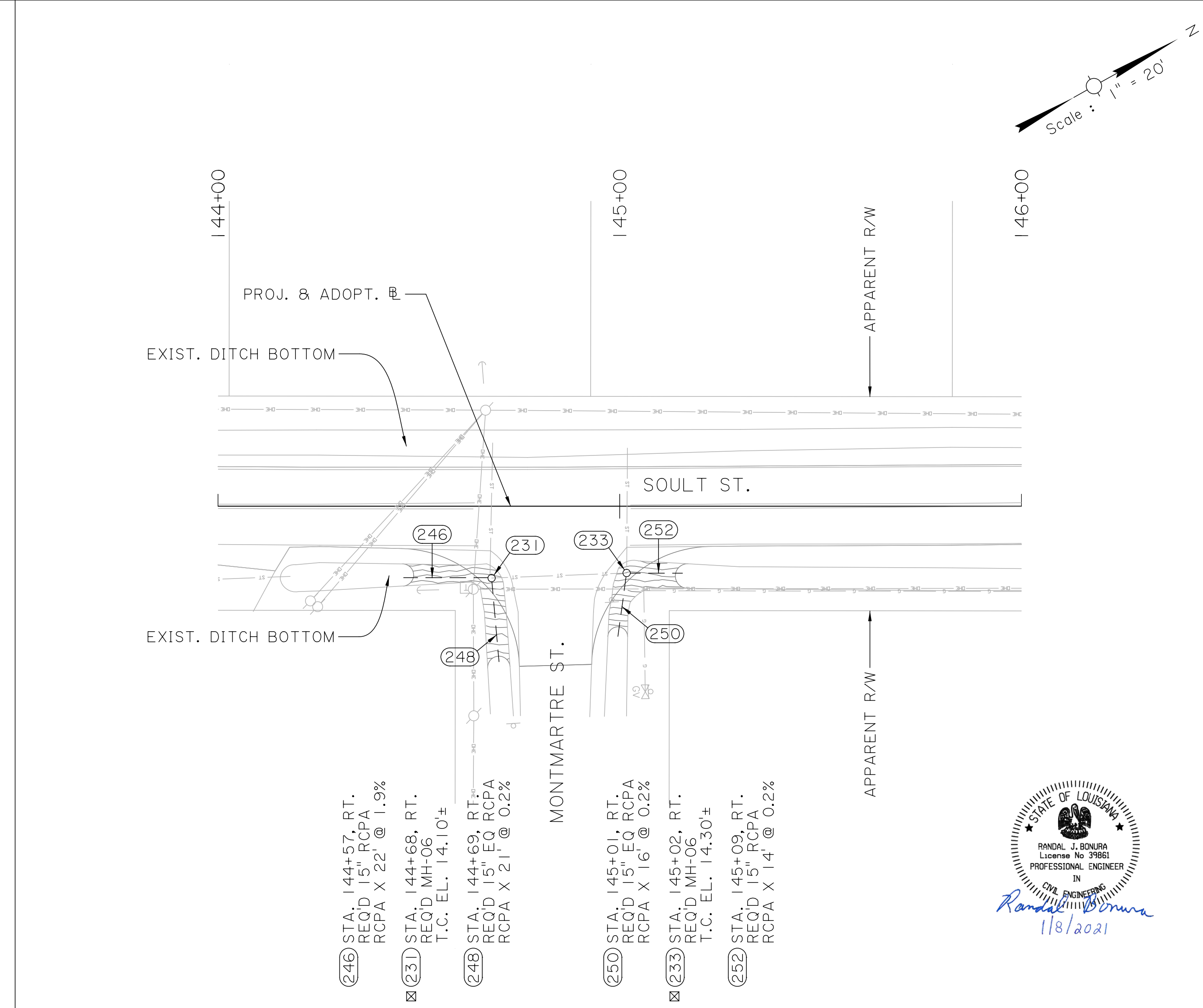
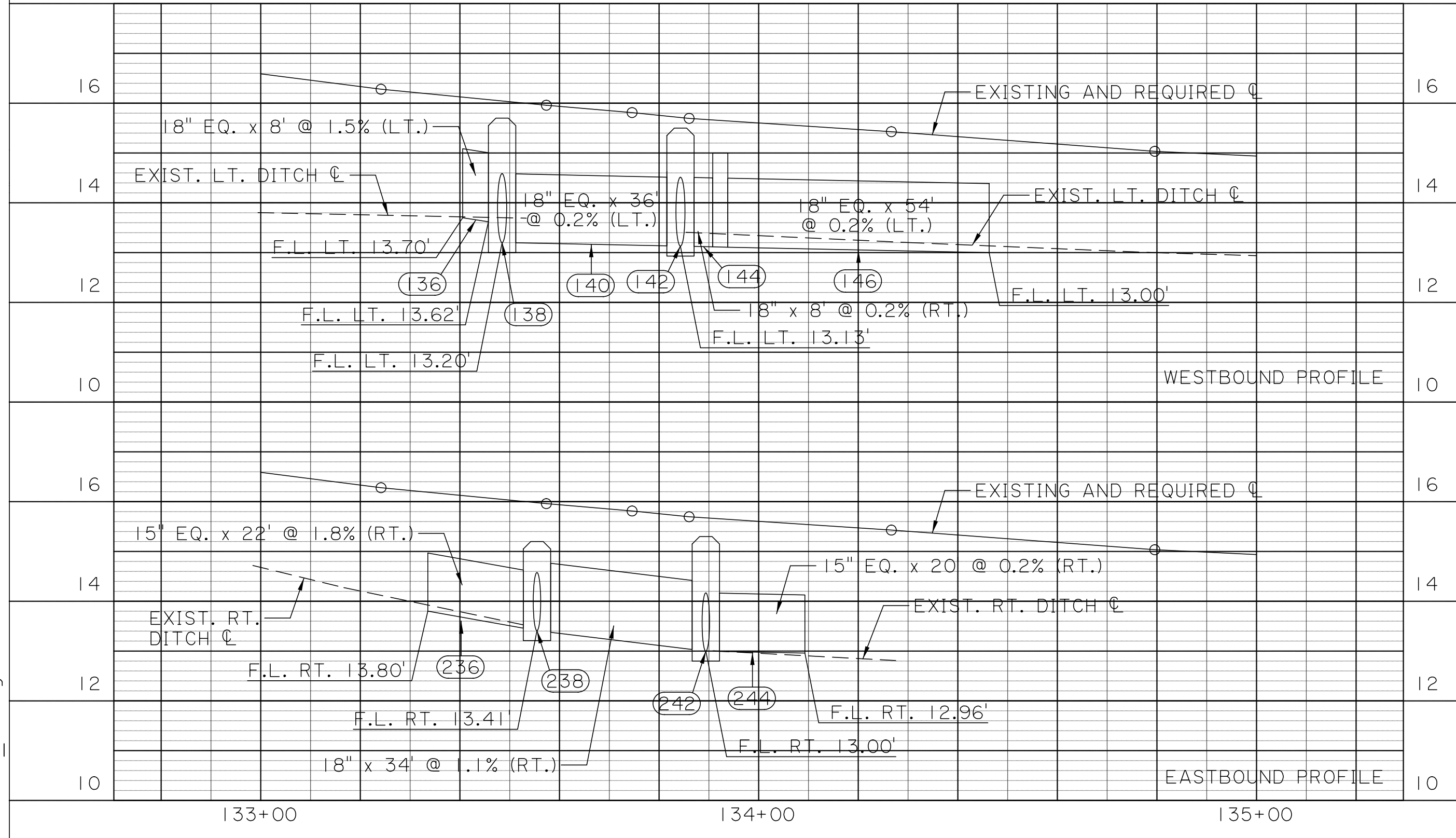
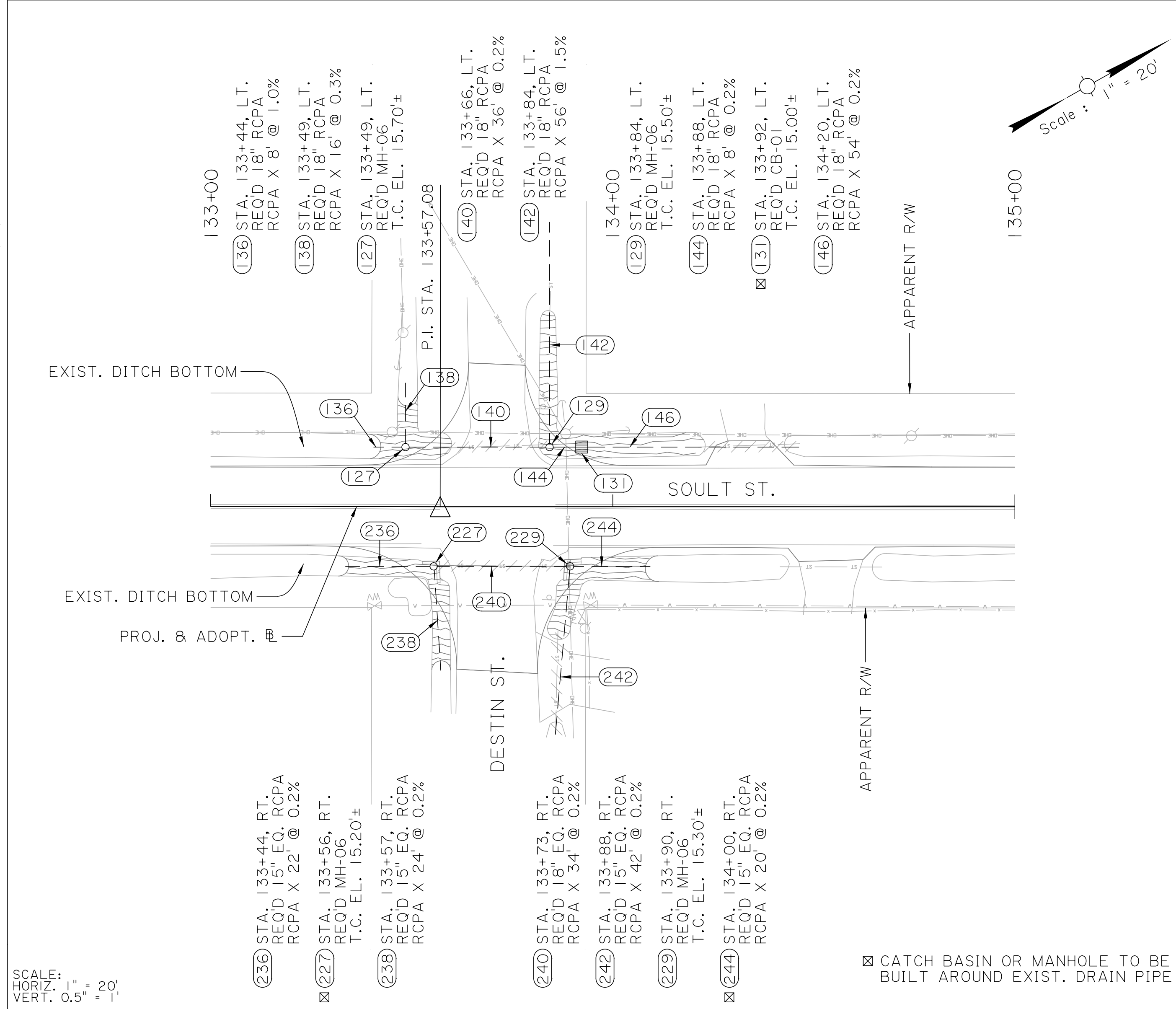
SHEET NUMBER	30	DESIGNED	ST. TAMMANY	PROJECT	ENI8000011
CRH CHECKED	RUB	DESIGNED	PARISH	CONTROL SECTION	000-52
DETAILED	BBS	CHECKED	CRH	SERIES NUMBER	4 OF 15
REVISION OR CHANGE ORDER DESCRIPTION			BY		
NO.			DATE		

DRAINAGE PLAN
AND PROFILE SHEETS
STA. 121+50 TO STA. 123+50
STA. 127+00 TO STA. 129+00

100% FINAL PLANS

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STATE OF LOUISIANA
 RANDAL J. BONURA
 License No. 93881
 PROFESSIONAL ENGINEER
 IN
 CIVIL ENGINEERING
Randal J. Bonura
 1/8/2021

SHEET NUMBER	31
DESIGNED	ST. TAMMANY
CHECKED	PARISH
REVISION OR CHANGE ORDER DESCRIPTION	CONTROL SECTION 000-52
NO.	DATE
BY	PROJECT EN18000011

DRAINAGE PLAN AND PROFILE SHEETS
 STA. 133+00 TO STA. 135+00
 STA. 144+00 TO STA. 146+00

SOULT ST. ROAD IMPROVEMENTS

DESIGNED CRH CHECKED RJB DETAILED BBS CHECKED CRH SERIES NUMBER 5 OF 15

REVISION OR CHANGE ORDER DESCRIPTION

NO. DATE BY

STATE OF LOUISIANA
 RANDAL J. BONURA
 License No. 93881
 PROFESSIONAL ENGINEER
 IN
 CIVIL ENGINEERING
Randal J. Bonura
 1/8/2021

ST. TAMMANY PARISH GOV.

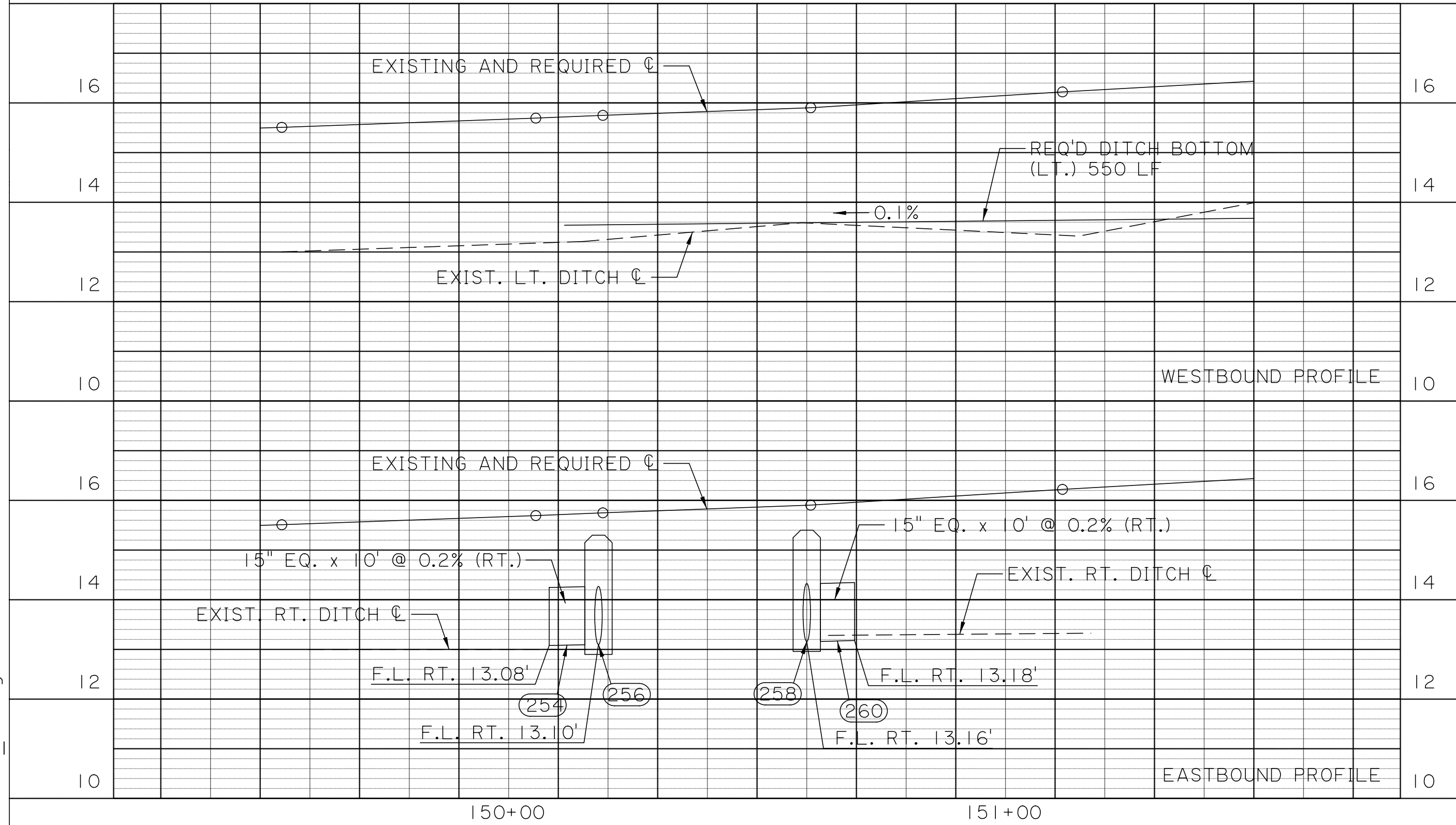
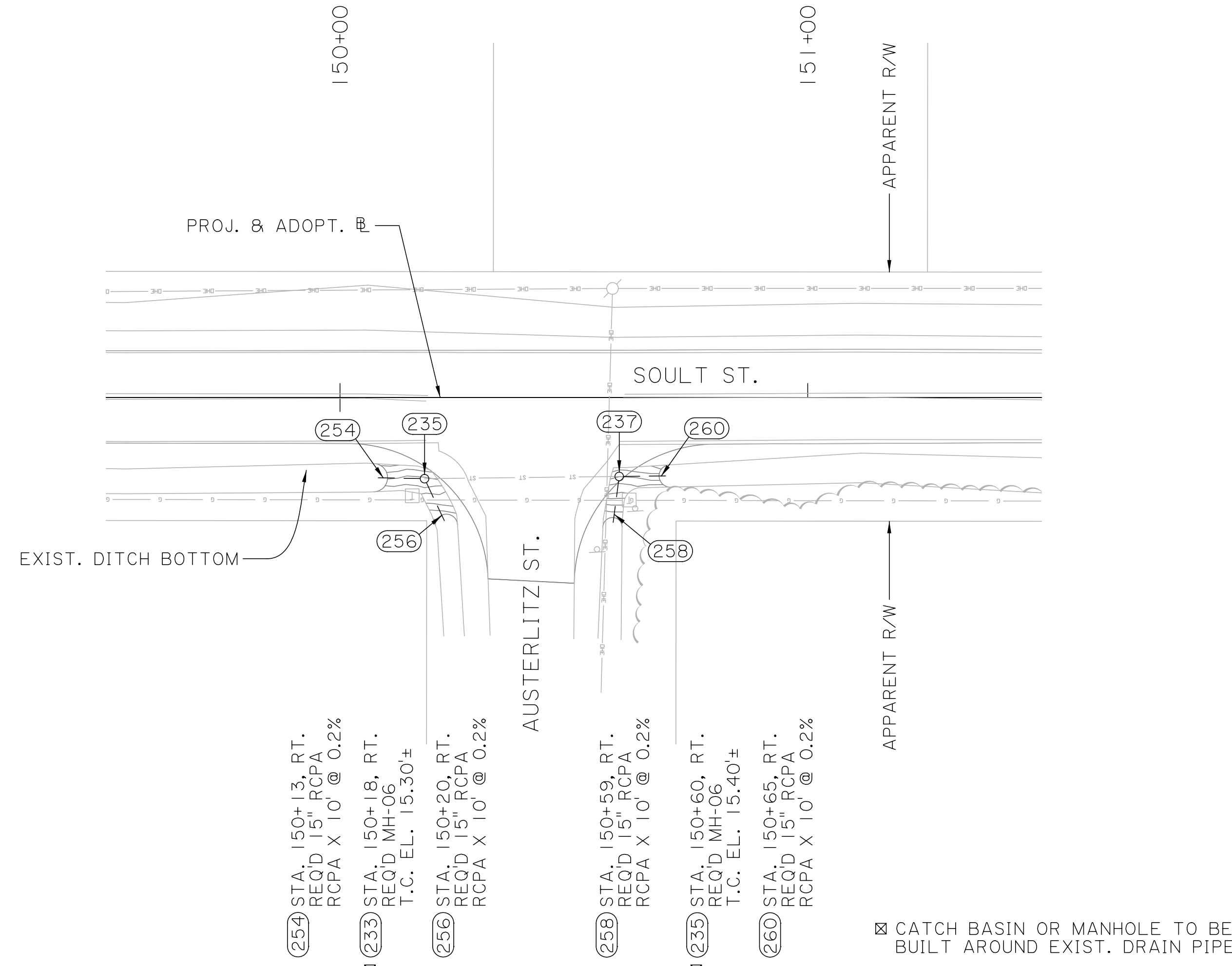
HNTB

100% FINAL PLANS

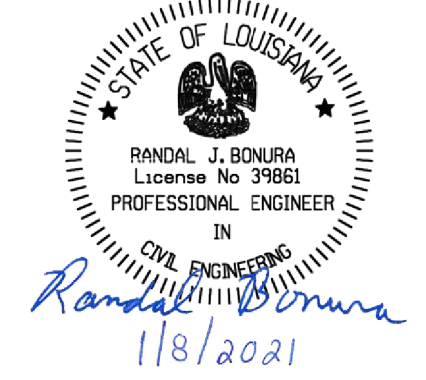
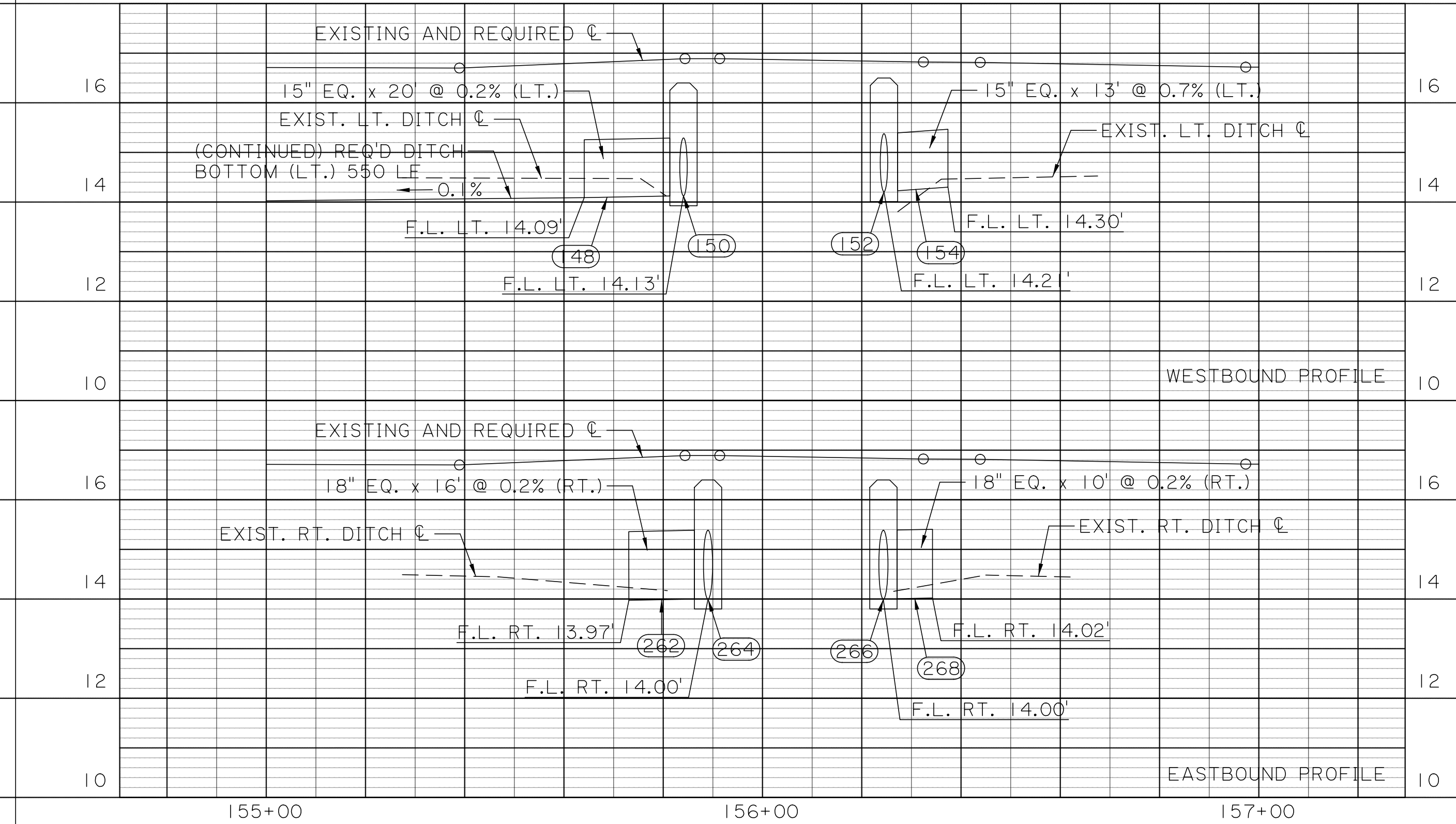
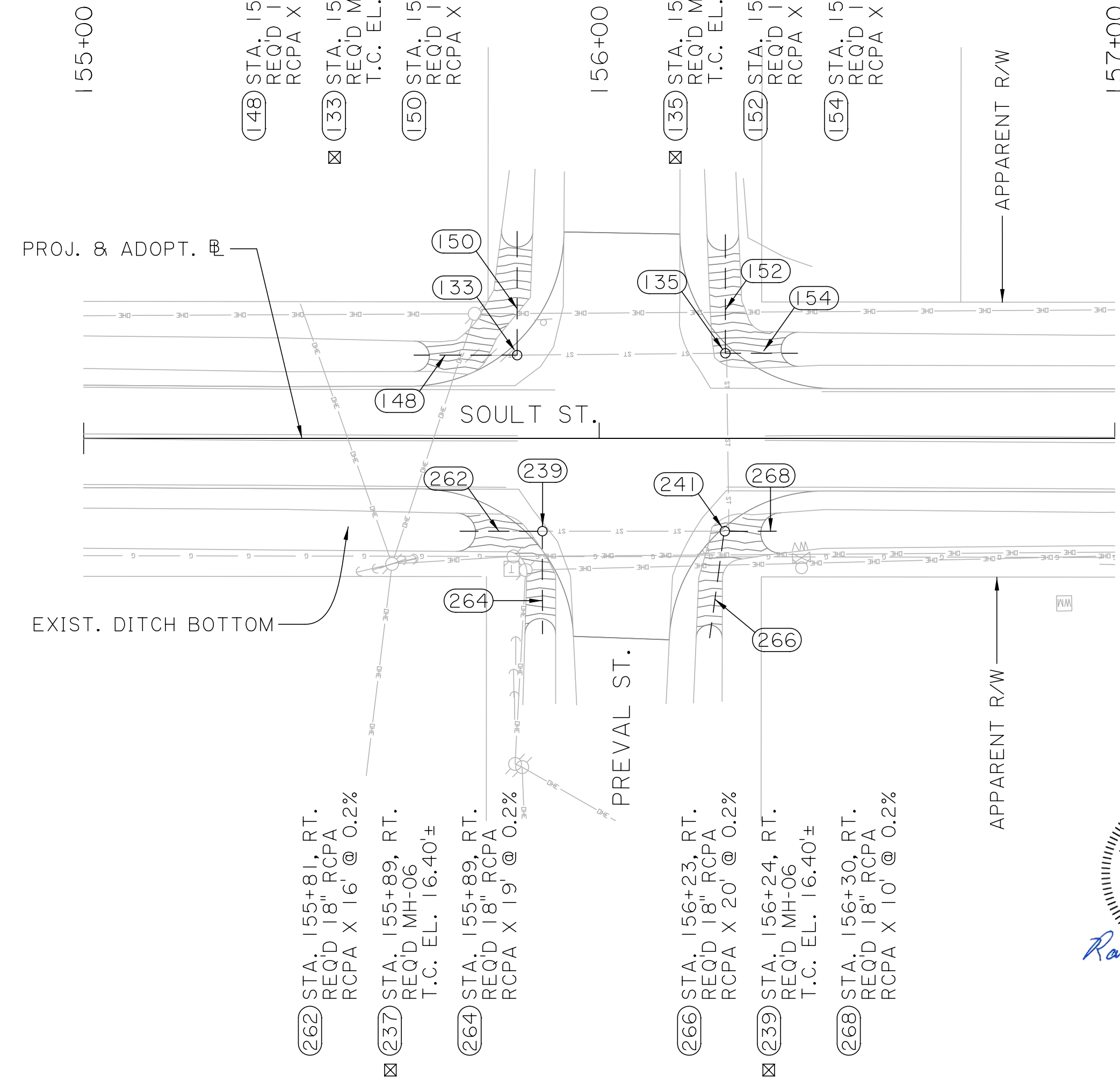
1/8/2021 1:57:26 PM

69440_32.dgn

SCALE:
HORIZ. 1" = 20'
VERT. 0.5" = 1'



SCALE:
HORIZ. 1" = 20'
VERT. 0.5" = 1'



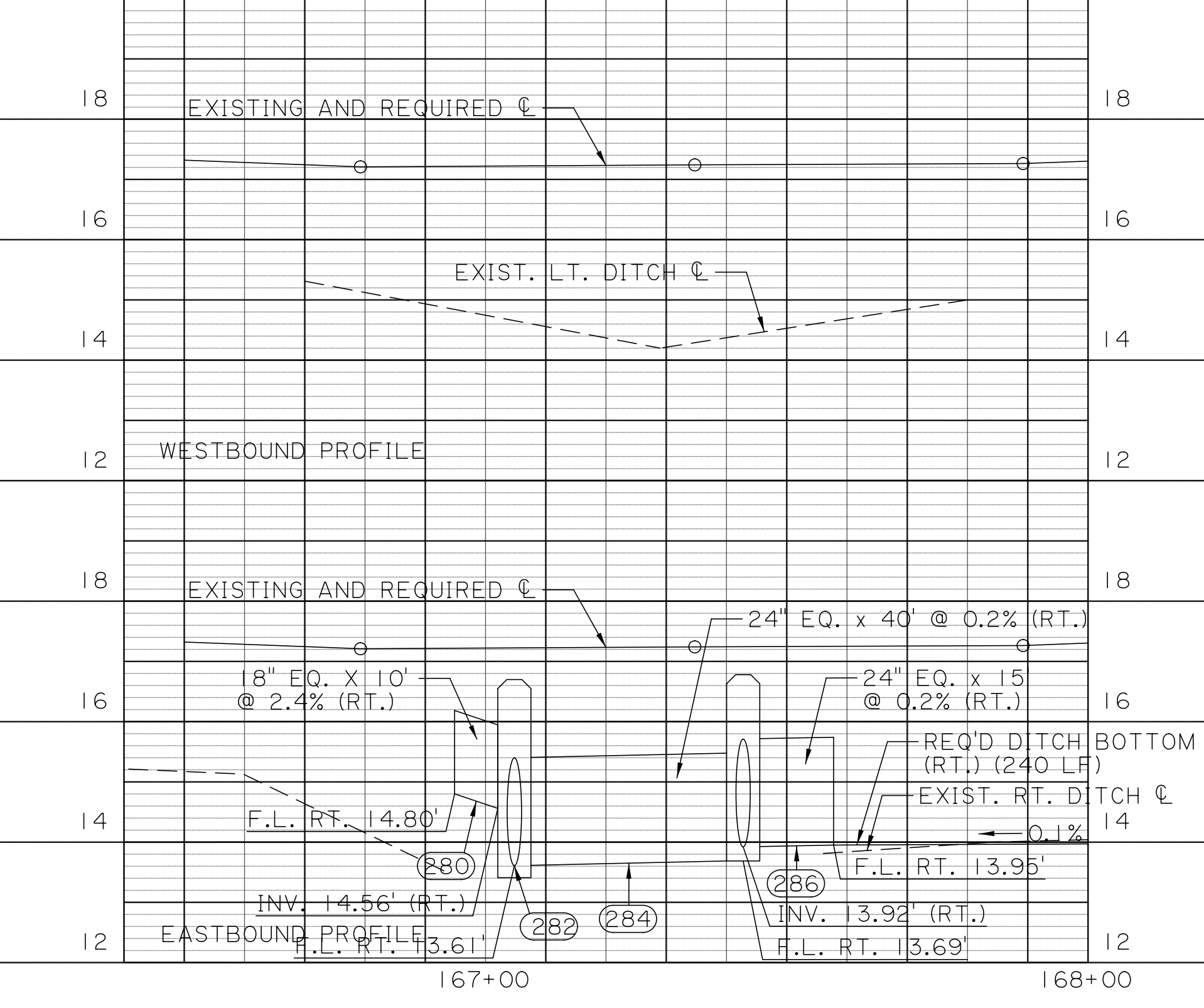
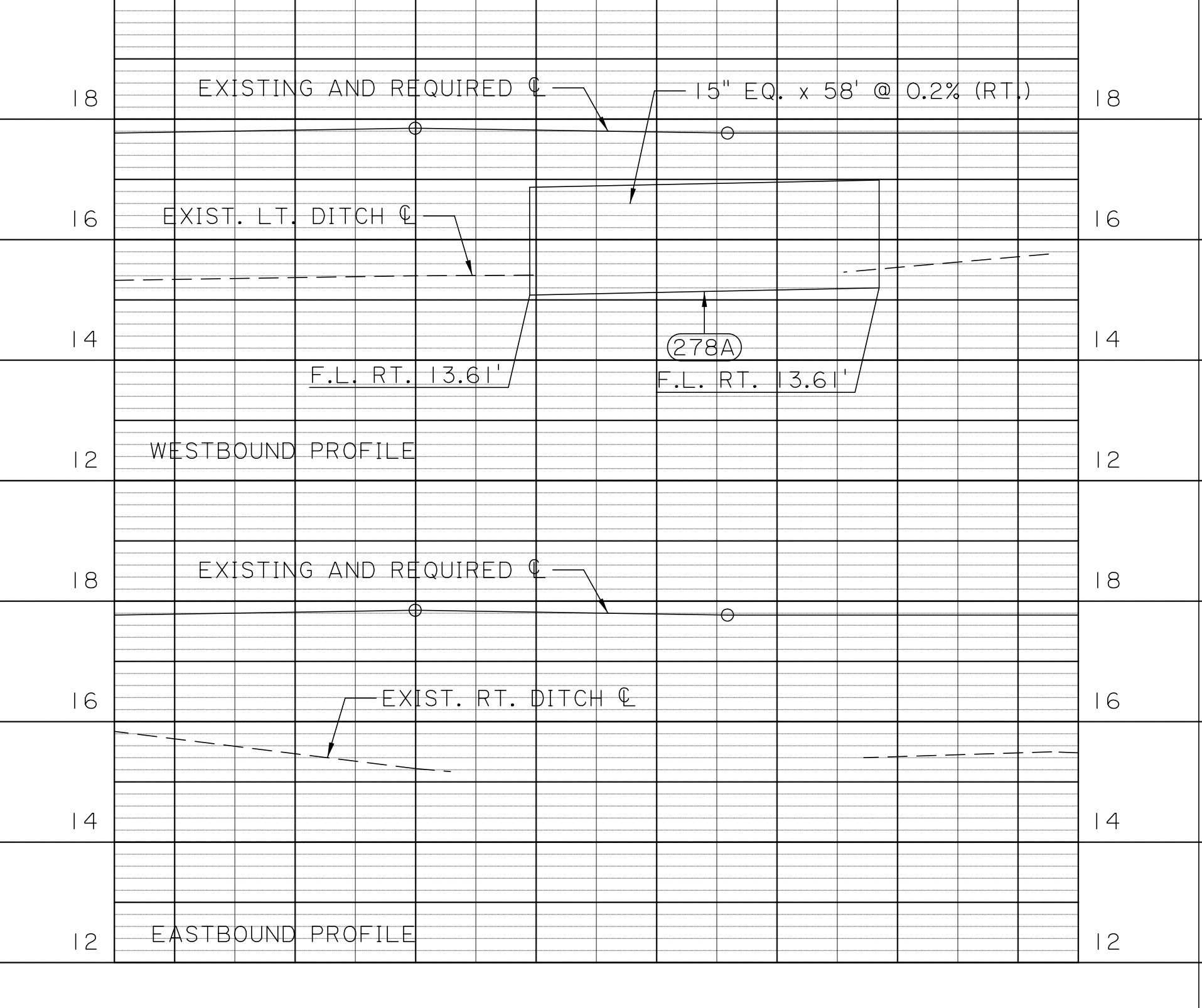
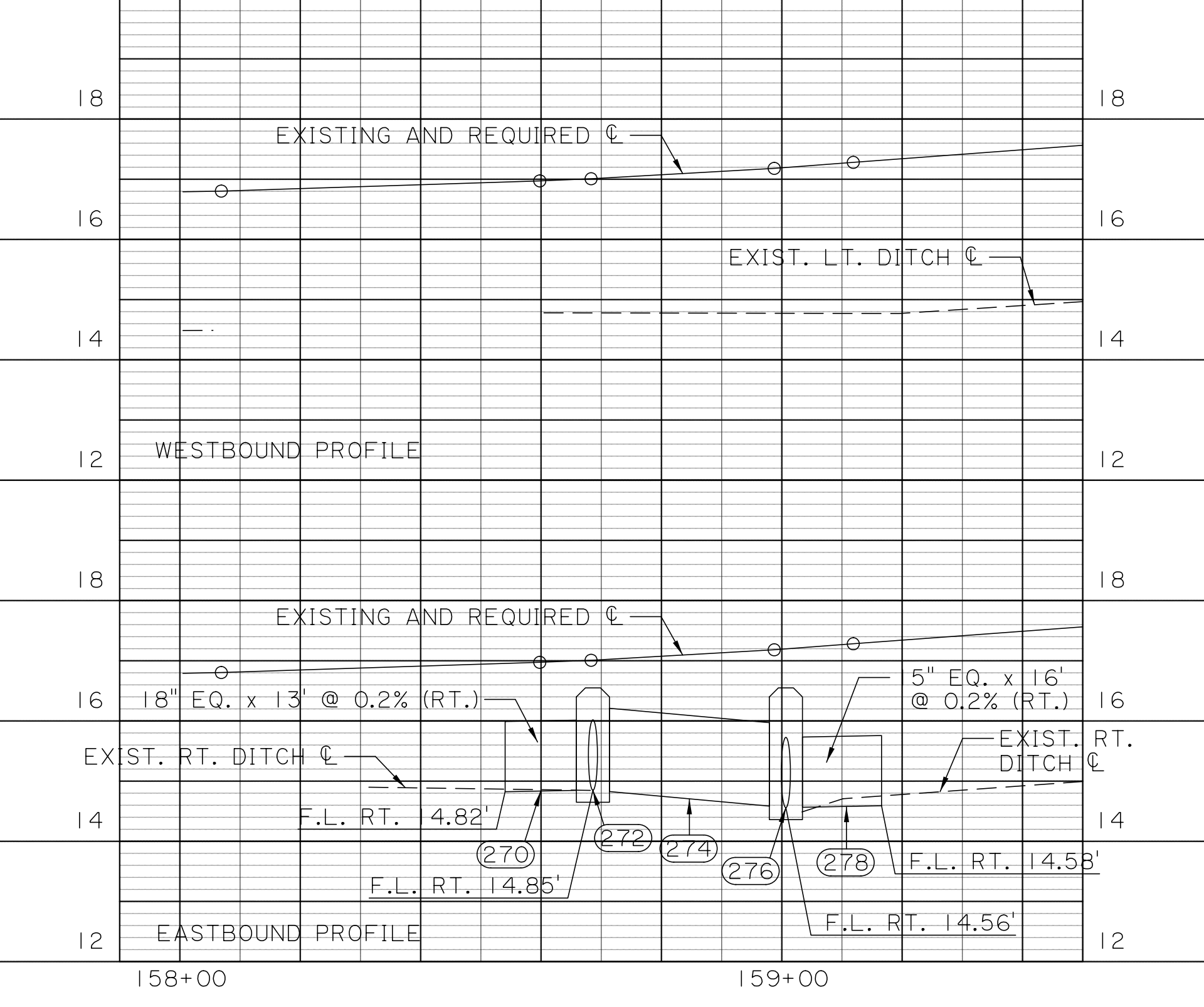
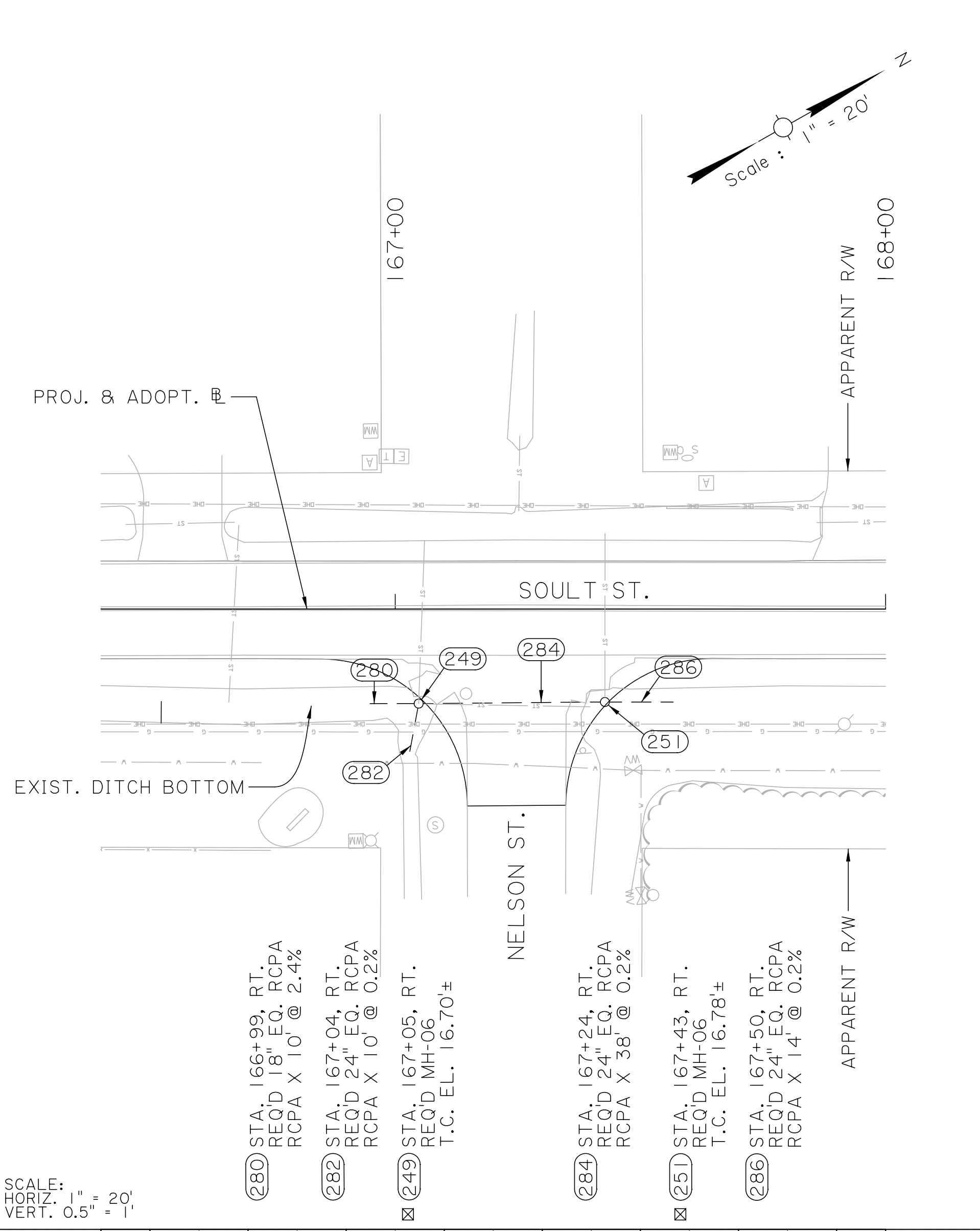
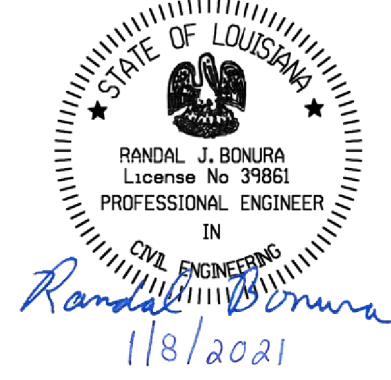
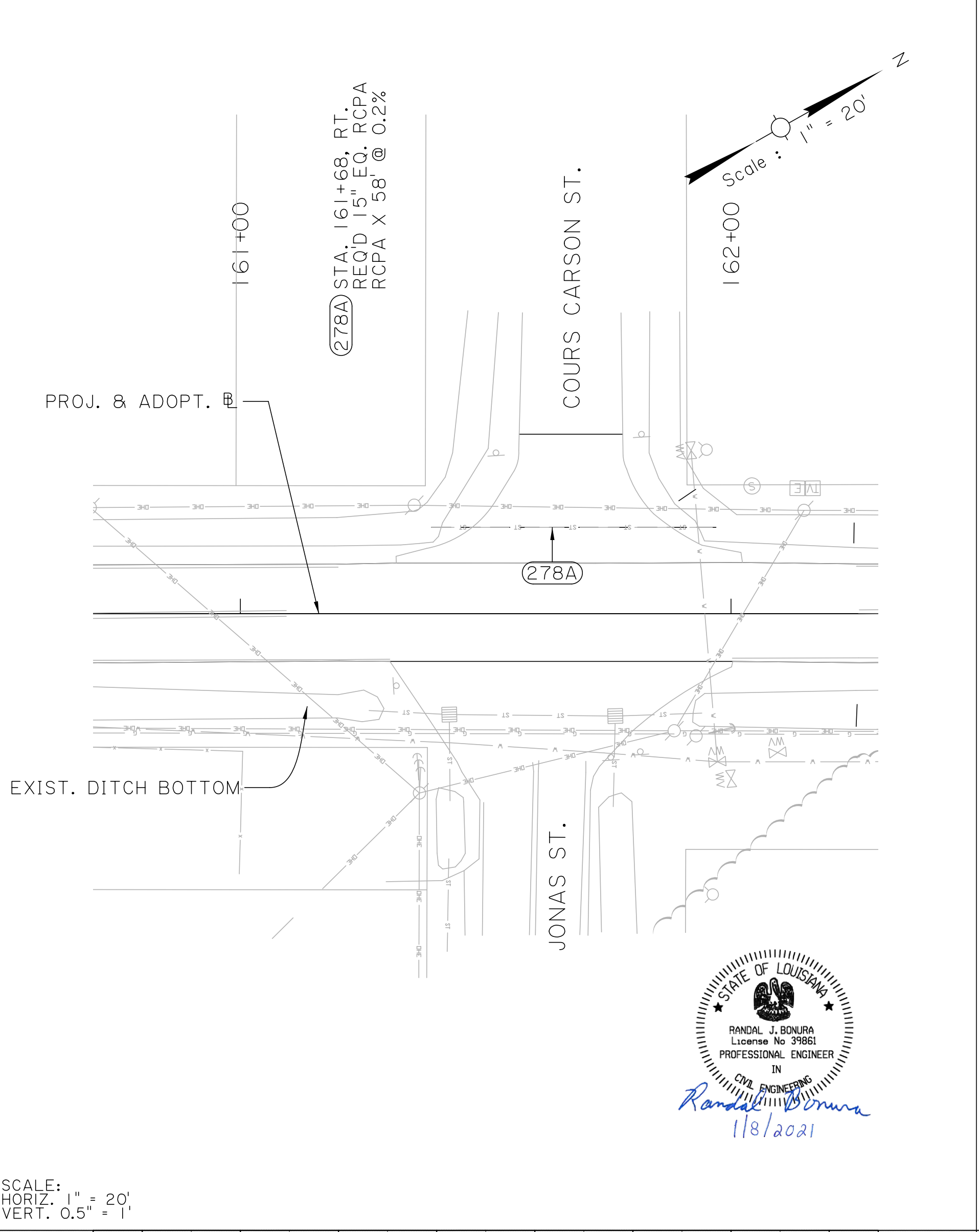
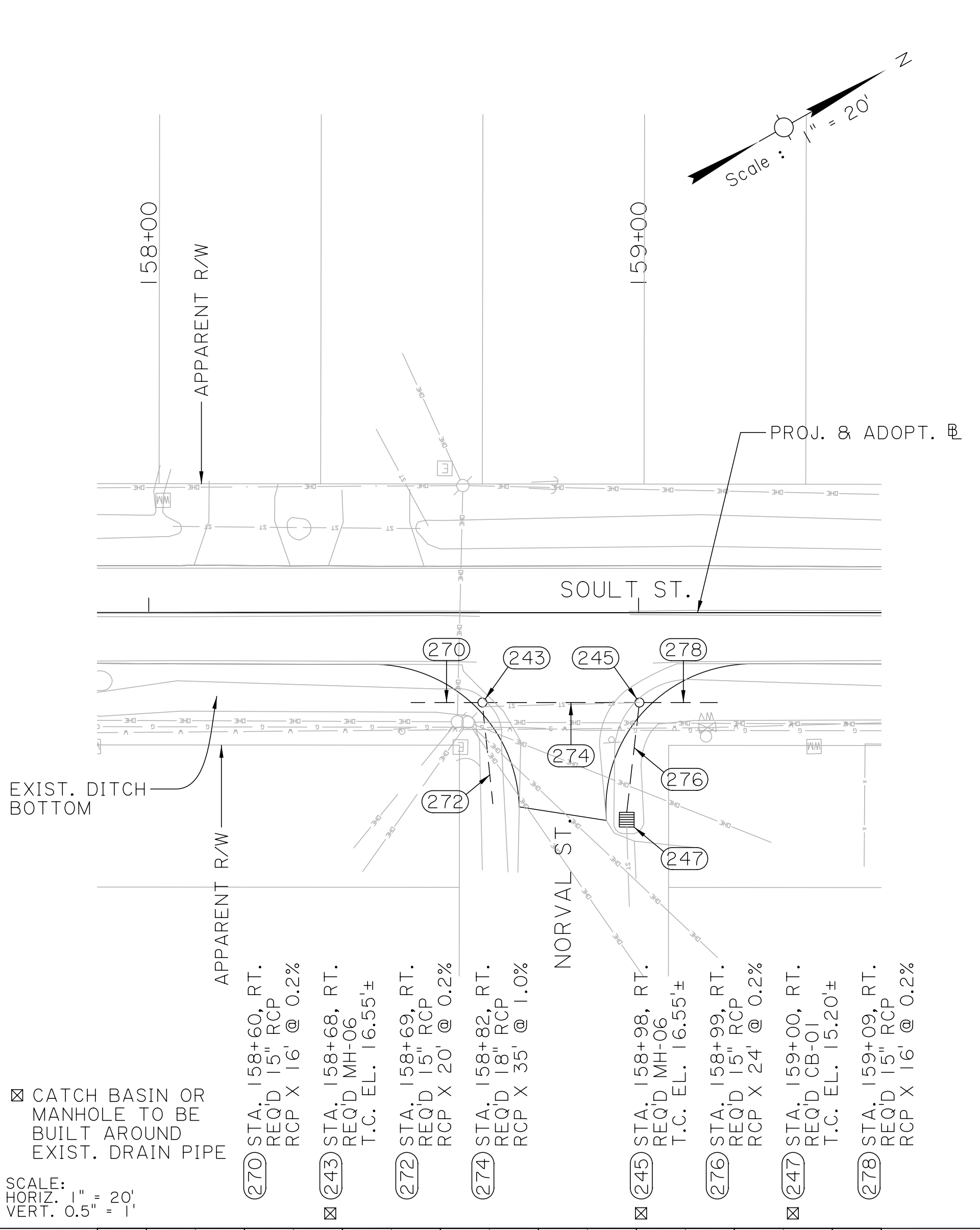
SHEET NUMBER	32
DESIGNED	ST. TAMMANY
CHECKED	CONTROL SECTION
REVISION OR CHANGE ORDER DESCRIPTION	000-52
NO.	DATE
BY	PROJECT
CRH	6 OF 15
RUB	ENI8000011
BBS	
CRH	



DRAINAGE PLAN
AND PROFILE SHEETS
STA. 149+50 TO STA. 151+50
STA. 155+00 TO STA. 157+00



100% FINAL PLANS



SHEET NUMBER	33
DESIGNED	ST. TAMMANY
CHECKED	CRH
REVISION OR CHANGE ORDER DESCRIPTION	
NO.	DATE
BY	
PROJECT	ENI 8000011
CONTROL SECTION	000-52
CRH	7 OF 15
DESIGNED	CRH
CHECKED	RUB
REVISION OR CHANGE ORDER DESCRIPTION	
NO.	DATE
BY	
PROJECT	ENI 8000011
CONTROL SECTION	000-52
CRH	7 OF 15
DESIGNED	CRH
CHECKED	RUB

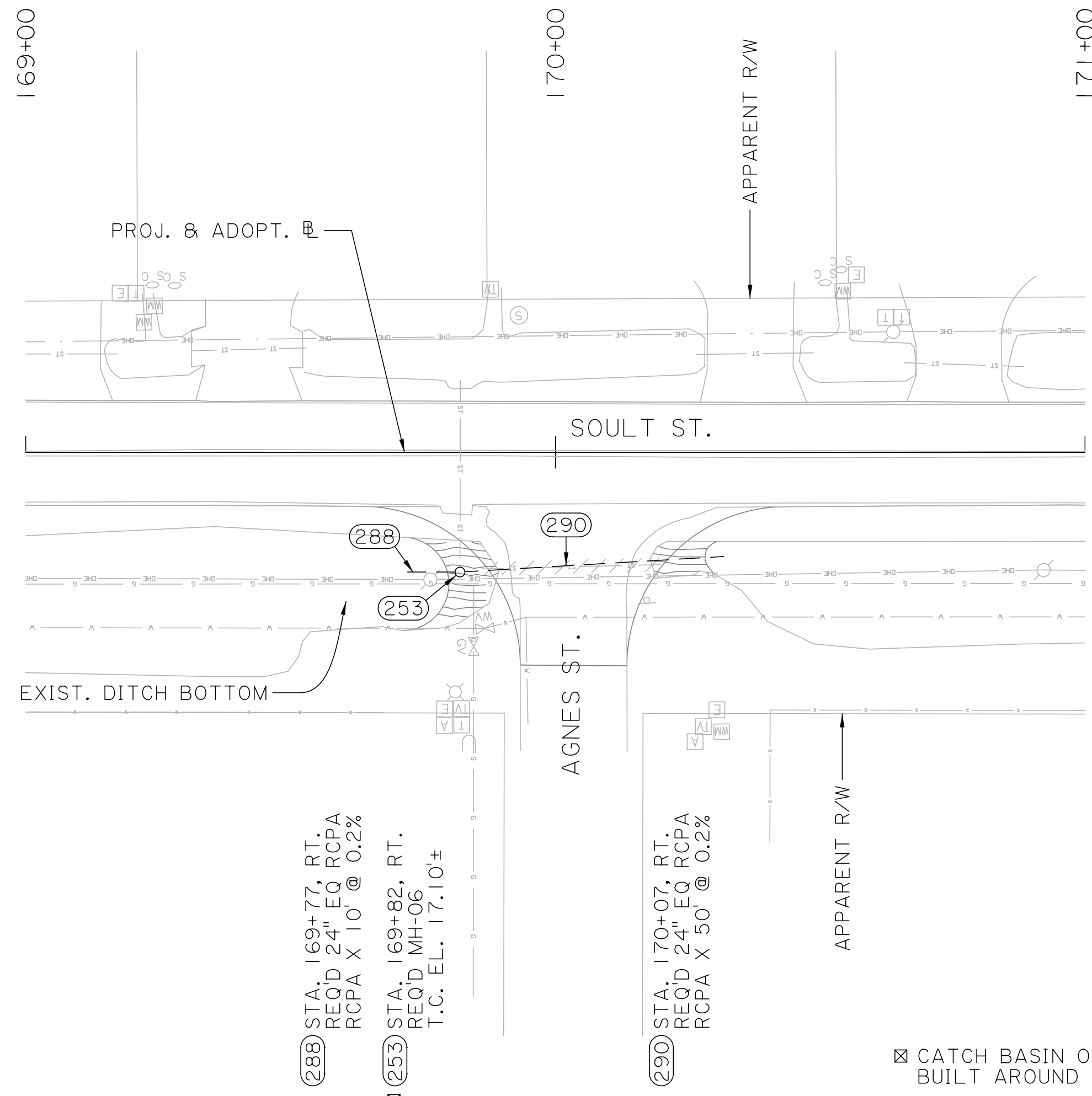
DRAINAGE PLAN AND PROFILE SHEETS
 STA. 158+00 TO STA. 160+00
 STA. 166+50 TO STA. 168+50
 SOULT ST. ROAD IMPROVEMENTS

100% FINAL PLANS

1/8/2021 1:58:15 PM

69440_34.dgn

SCALE:
HORIZ. 1" = 20'
VERT. 0.5" = 1'



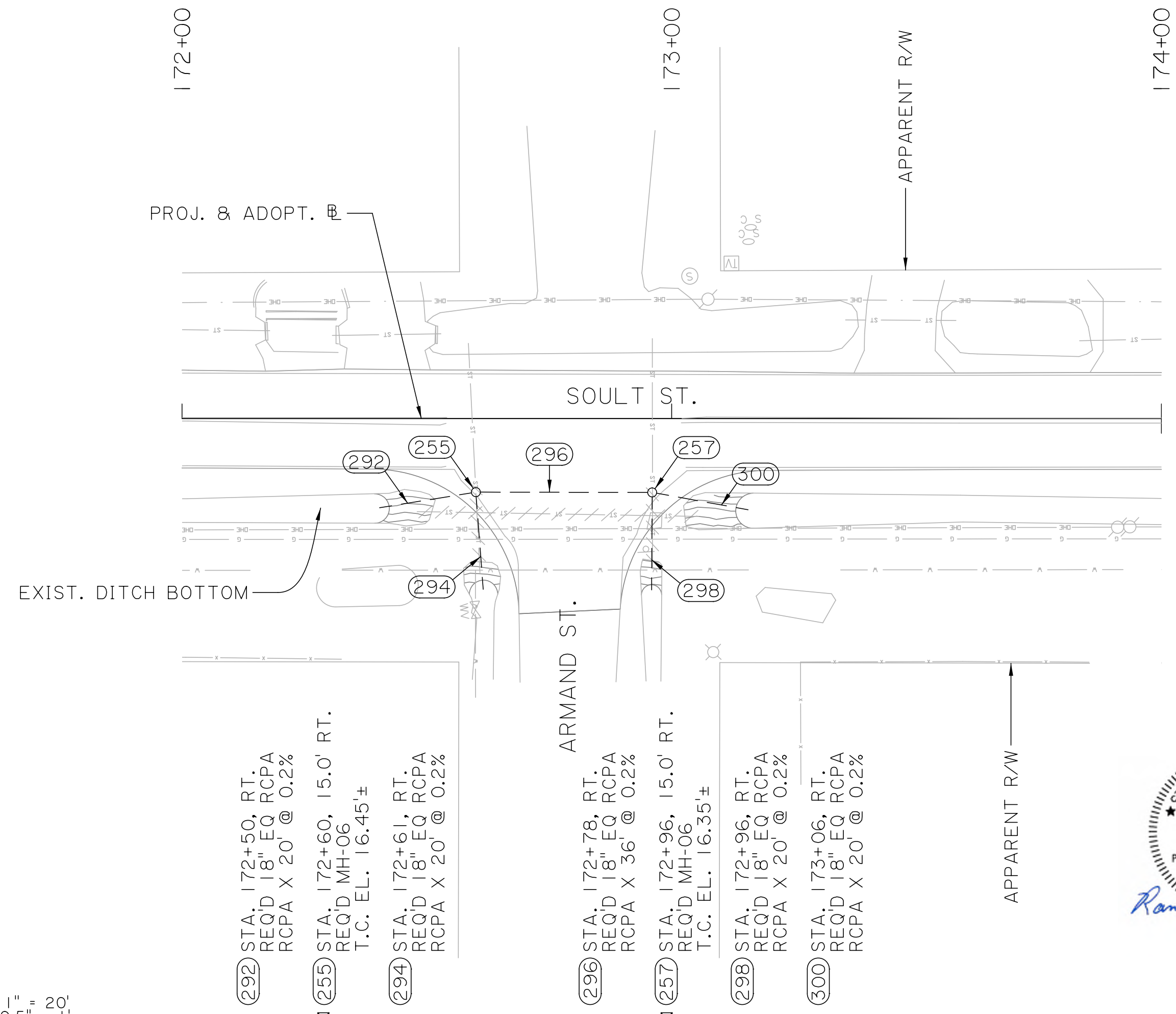
(288) STA. 169+77, RT.
REQ'D 24" EQ RCPA
RCPA X 10' @ 0.2%

(253) STA. 169+82, RT.
REQ'D MH-06
T.C. EL. 17.10±

(290) STA. 170+07, RT.
REQ'D 24" EQ RCPA
RCPA X 50' @ 0.2%

☒ CATCH BASIN OR MANHOLE TO BE BUILT AROUND EXIST. DRAIN PIPE

SCALE:
HORIZ. 1" = 20'
VERT. 0.5" = 1'



(292) STA. 172+50, RT.
REQ'D 18" EQ RCPA
RCPA X 20' @ 0.2%

☒ (255) STA. 172+60, 15.0' RT.
REQ'D MH-06
T.C. EL. 16.45±

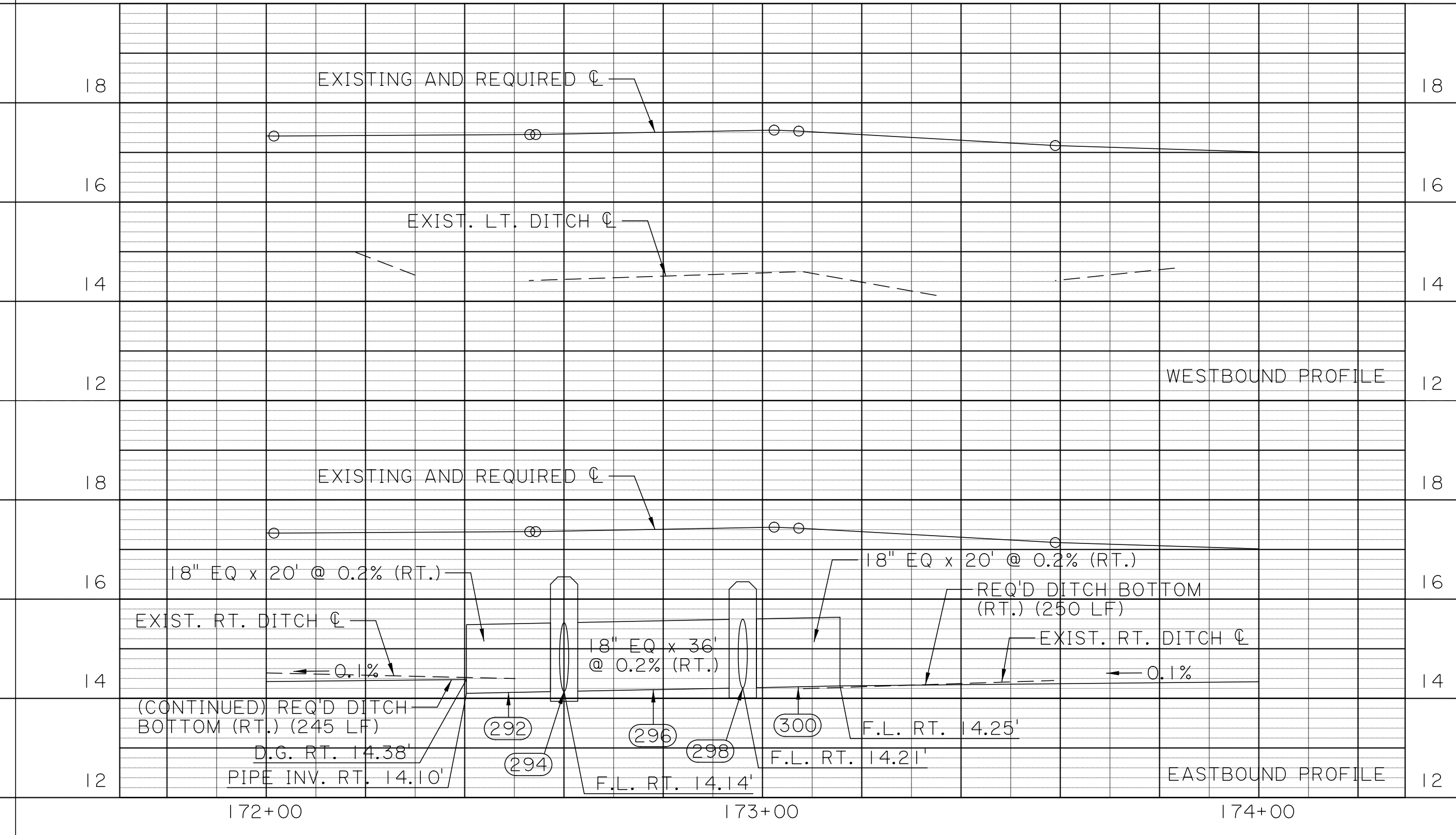
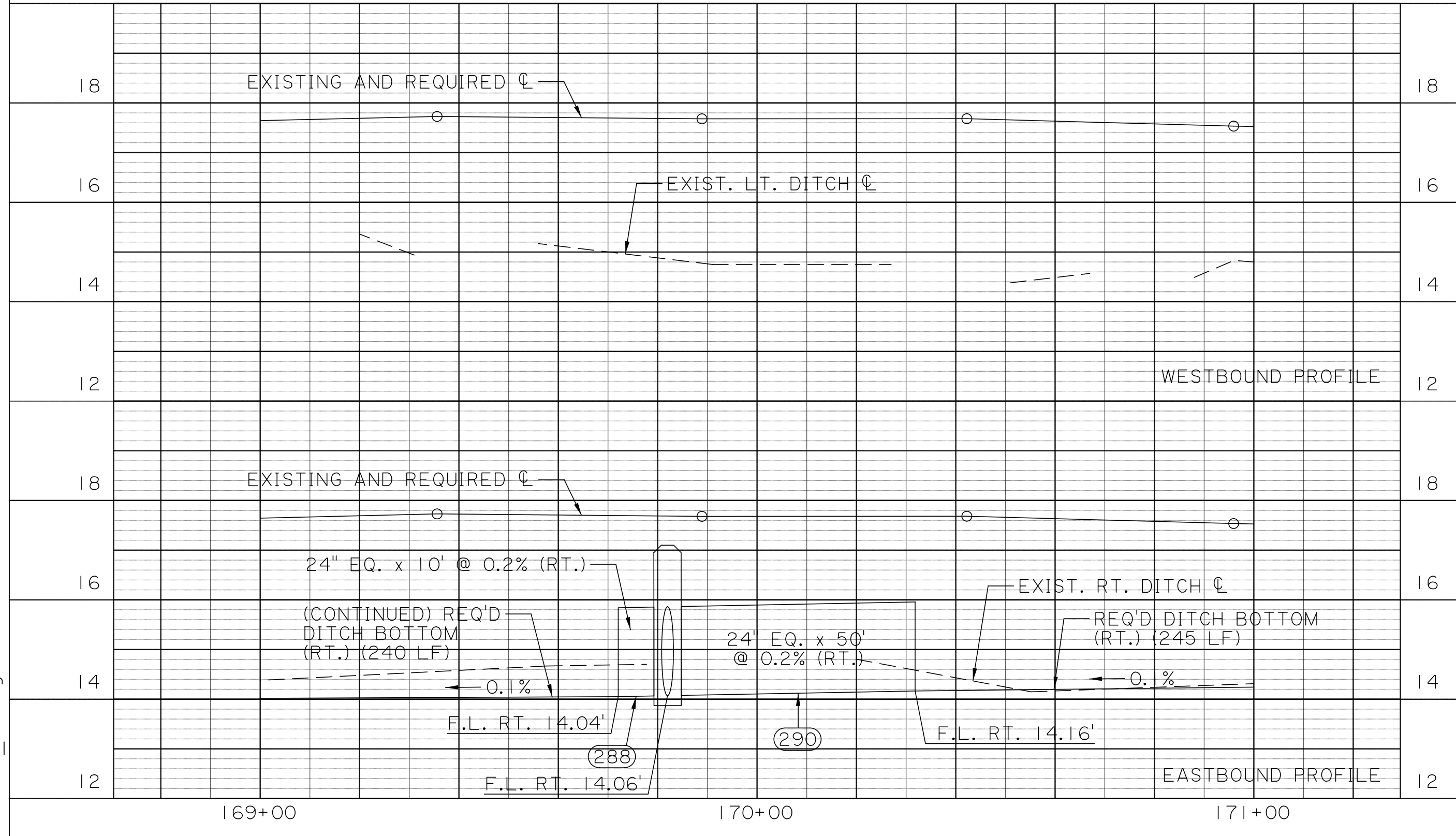
(294) STA. 172+61, RT.
REQ'D 18" EQ RCPA
RCPA X 20' @ 0.2%

(296) STA. 172+78, RT.
REQ'D 18" EQ RCPA
RCPA X 36' @ 0.2%

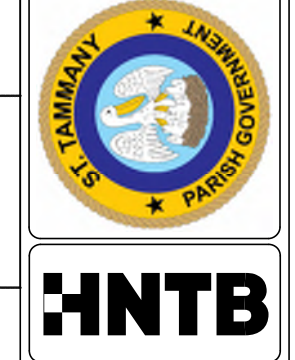
☒ (257) STA. 172+96, 15.0' RT.
REQ'D MH-06
T.C. EL. 16.35±

(298) STA. 172+96, RT.
REQ'D 18" EQ RCPA
RCPA X 20' @ 0.2%

(300) STA. 173+06, RT.
REQ'D 18" EQ RCPA
RCPA X 20' @ 0.2%



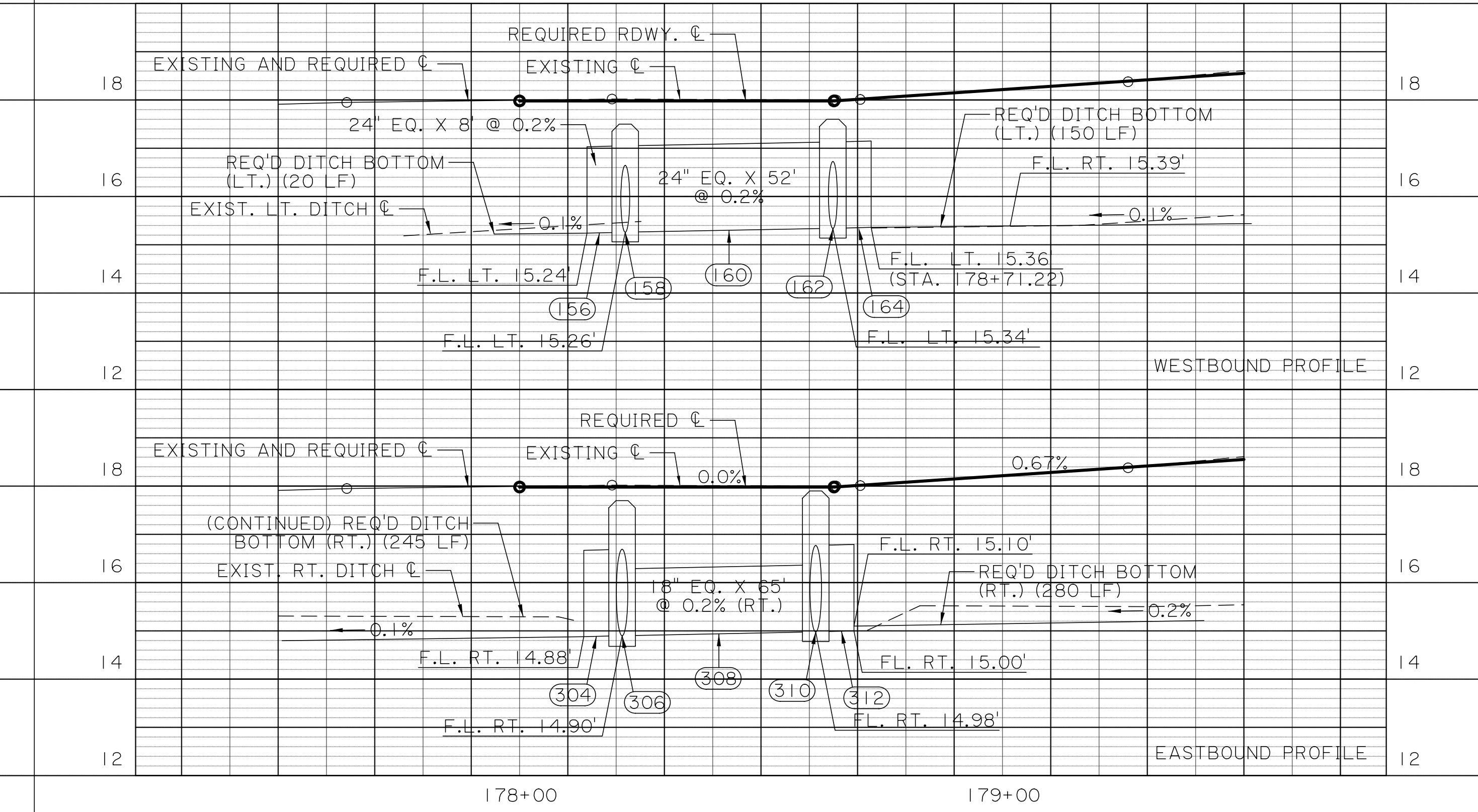
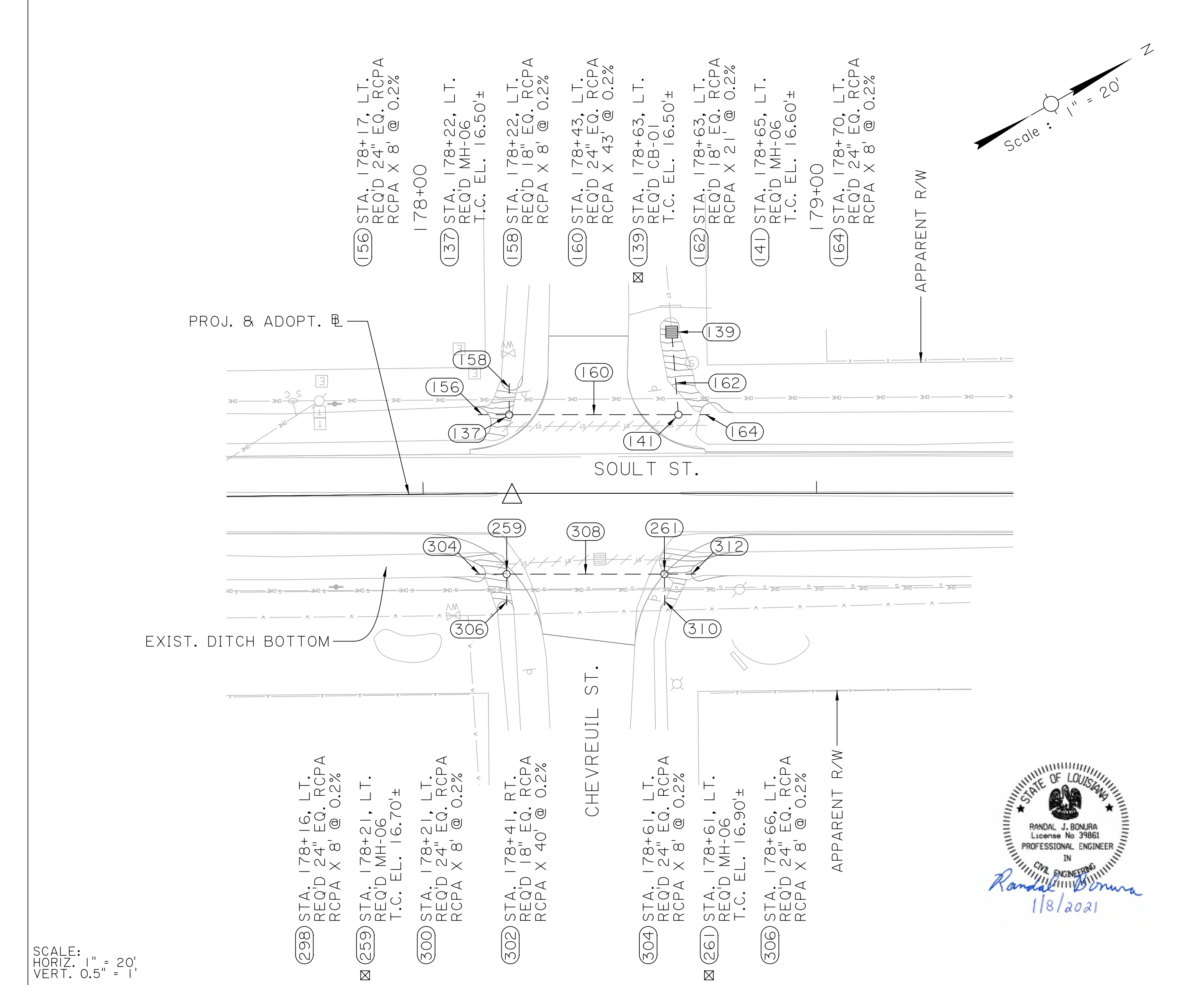
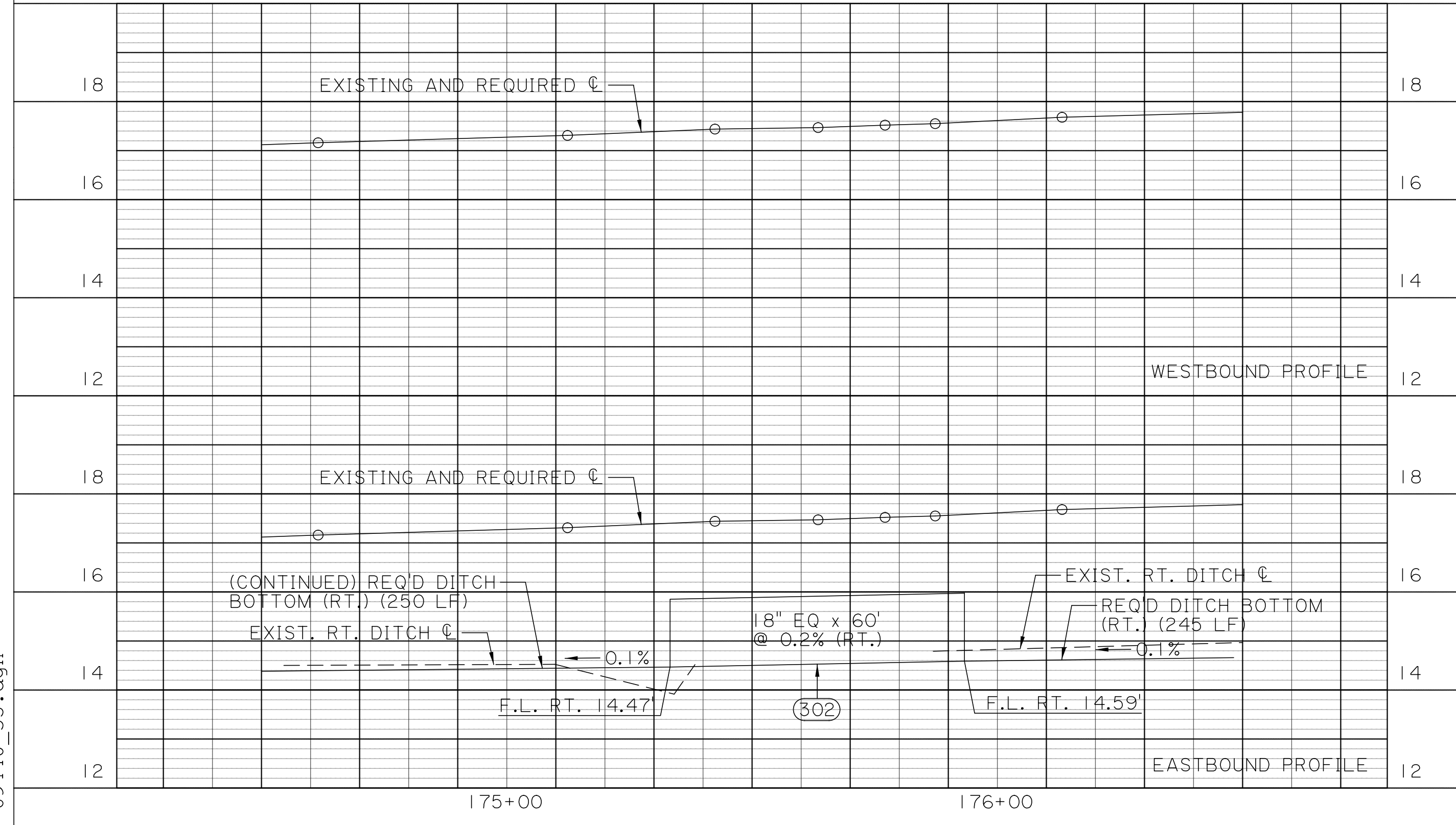
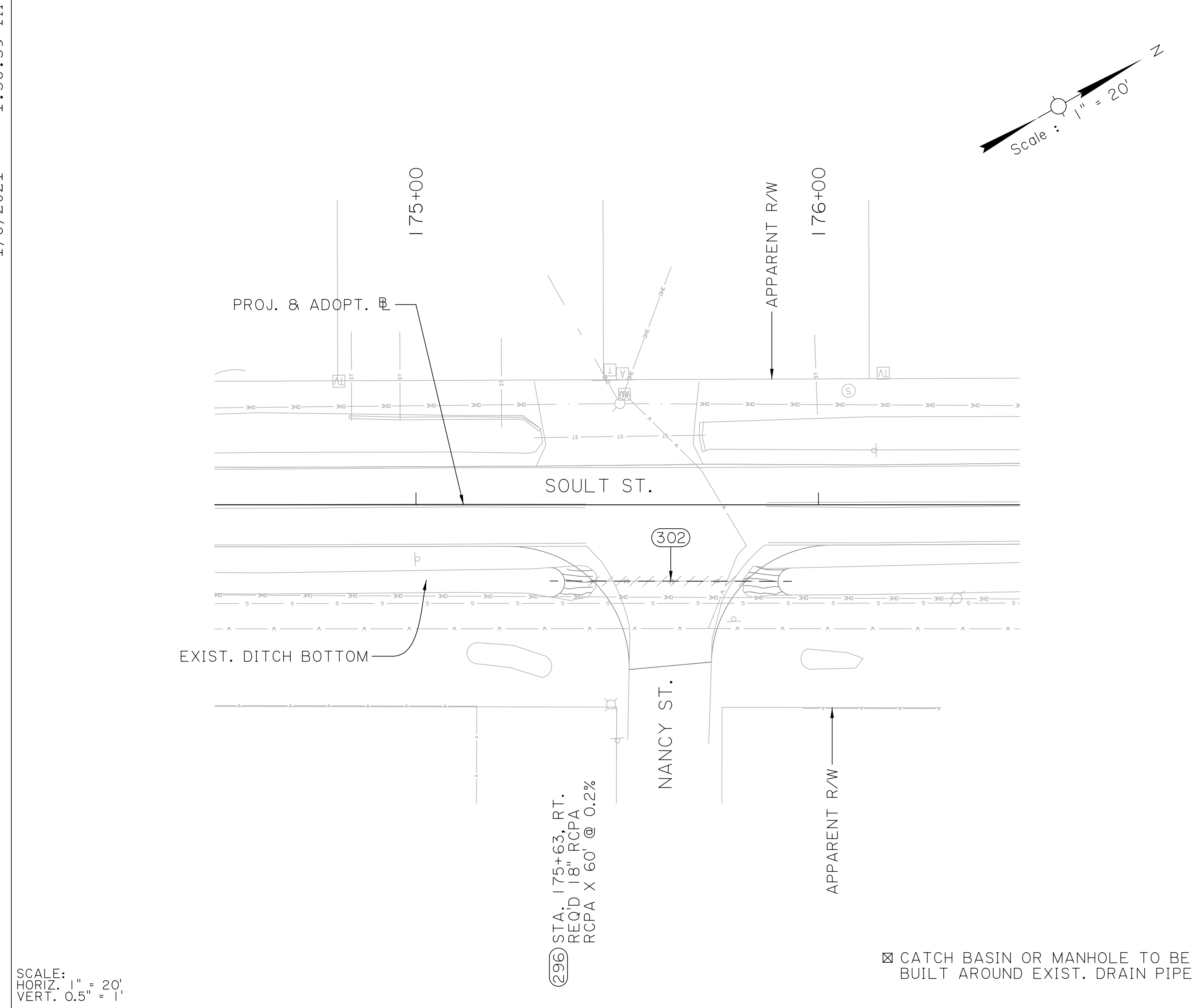
SHEET NUMBER	34	
DESIGNED	CRH	
CHECKED	RJB	
DETAILED	BBS	
CHECKED	CRH	
SERIES NUMBER	8 OF 15	
PARISH	ST. TAMMANY	
CONTROL SECTION	000-52	
PROJECT	EN18000011	
NO.	DATE	BY
REVISION OR CHANGE ORDER DESCRIPTION		
DRAINAGE PLAN AND PROFILE SHEETS		
STA. 169+00 TO STA. 171+00		
STA. 172+00 TO STA. 174+00		
SOULT ST. ROAD IMPROVEMENTS		



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1/8/2021 1:58:39 PM

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SHEET NUMBER	35
DESIGNED	ST. TAMMANY
CHECKED	PARISH
DETAILED	CONTROL SECTION
CHECKED	000-52
SERIES NUMBER	9 OF 15
REVISION OR CHANGE ORDER DESCRIPTION	PROJECT EN18000011
NO.	DATE
BY	

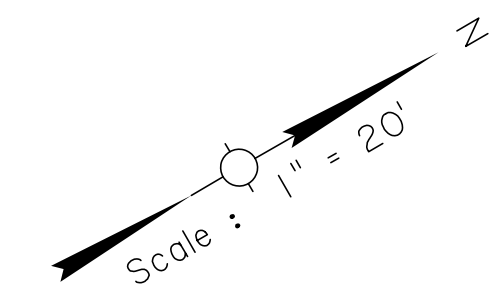
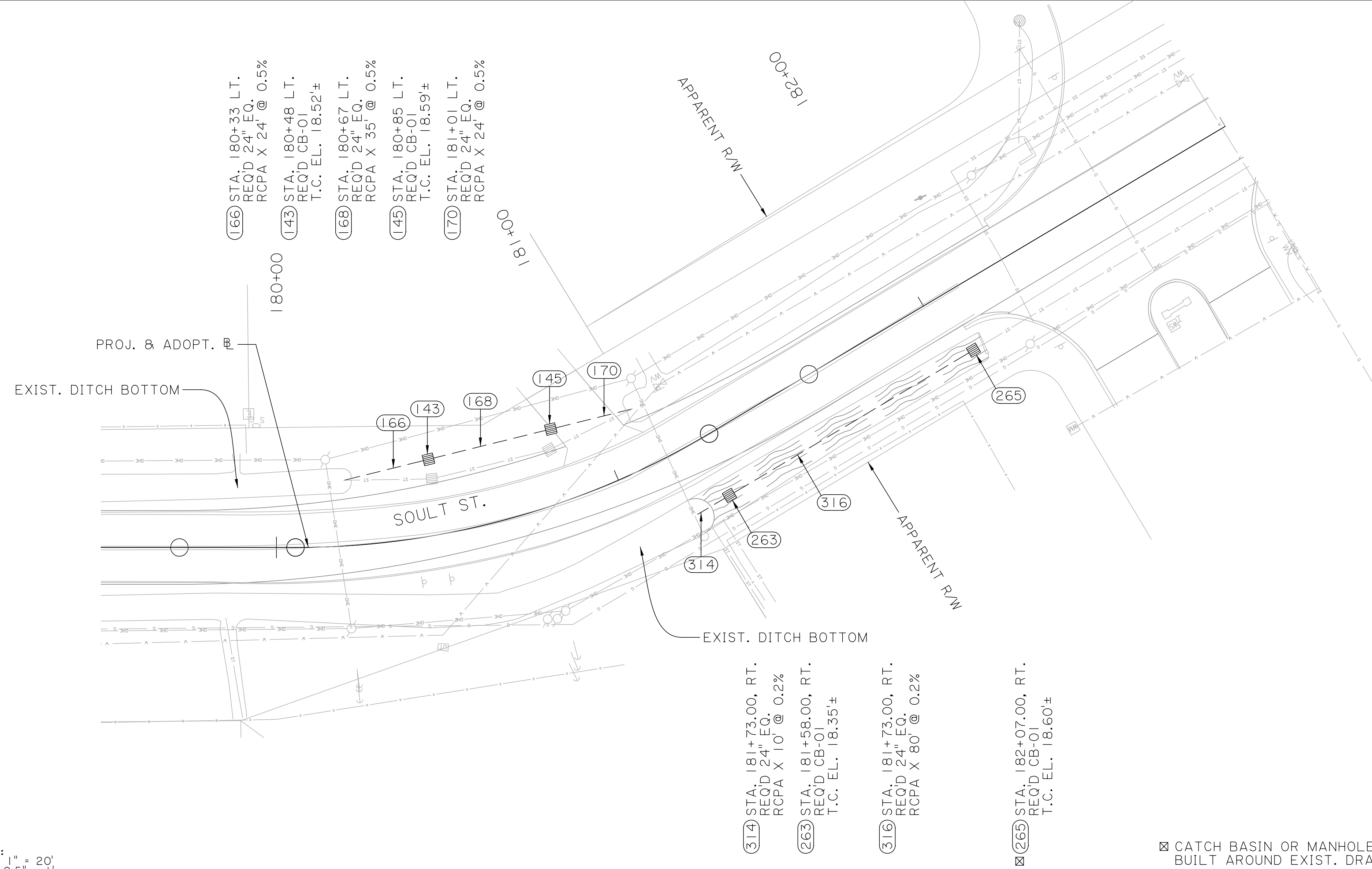
DRAINAGE PLAN AND PROFILE SHEETS
STA. 174+50 TO STA. 176+50
STA. 177+50 TO STA. 179+50

100% FINAL PLANS

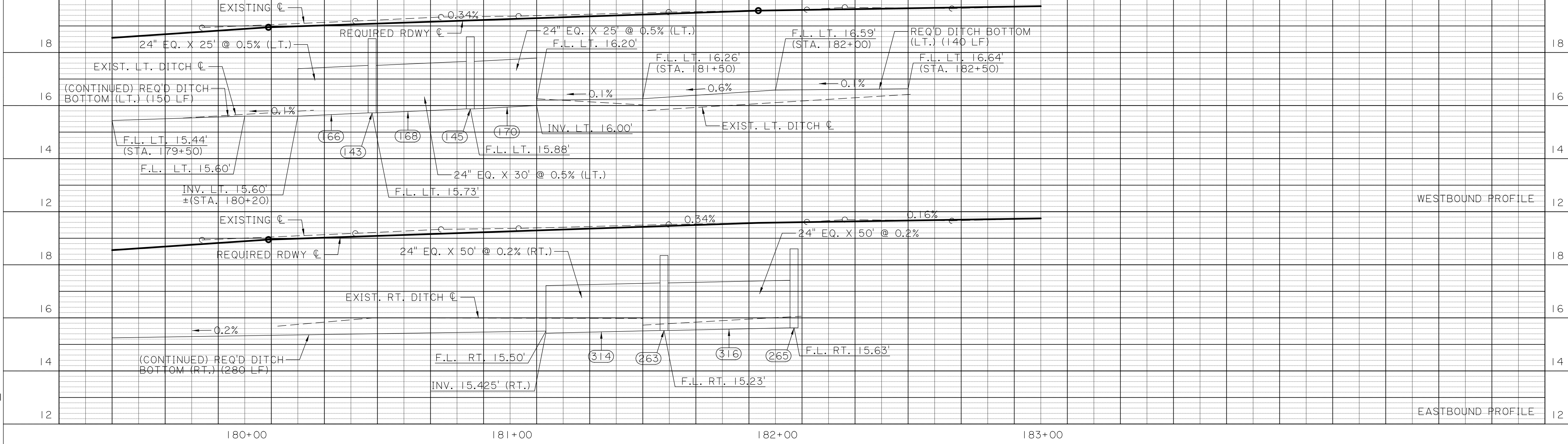
1/8/2021 1:59:04 PM

SCALE:
HORIZ. 1" = 20'
VERT. 0.5" = 1'

69440_36.dgn






☒ CATCH BASIN OR MANHOLE TO BE BUILT AROUND EXIST. DRAIN PIPE



SHEET NUMBER	36
DESIGNED	ST. TAMMANY
CHECKED	PARISH
DETAILED	CONTROL SECTION
CHECKED	000-52
SERIES NUMBER	10 OF 15
PROJECT	EN18000011
NO.	DATE
BY	REVISION OR CHANGE ORDER DESCRIPTION

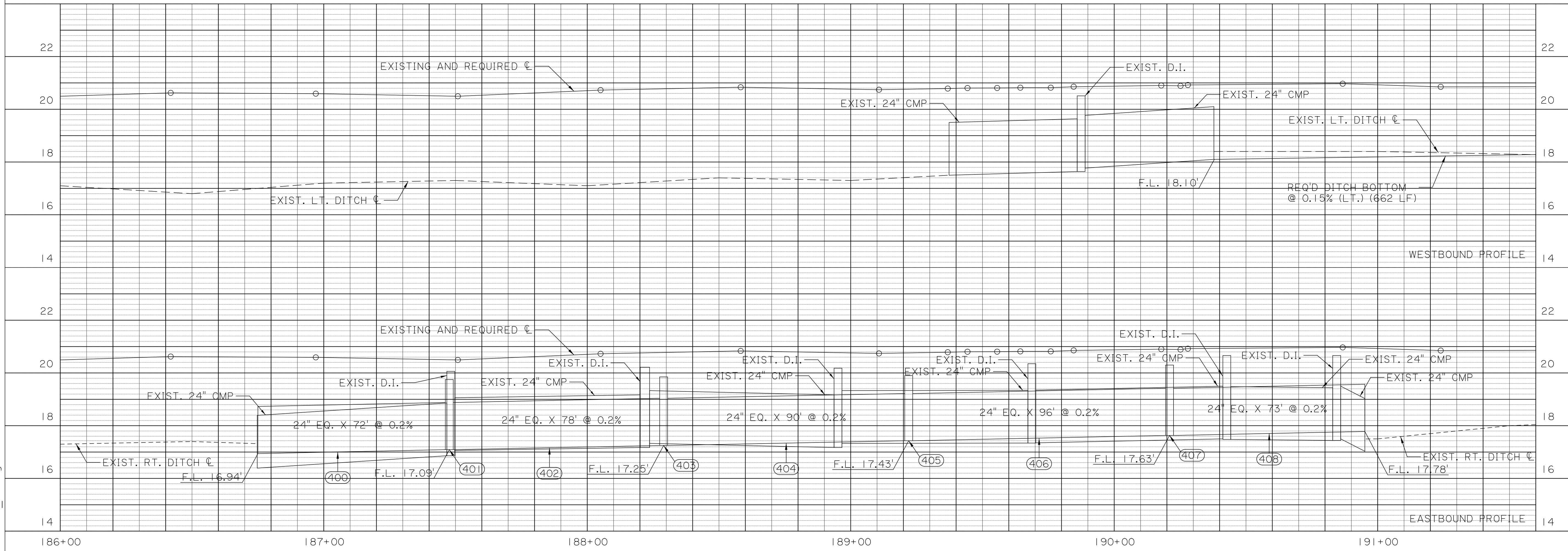
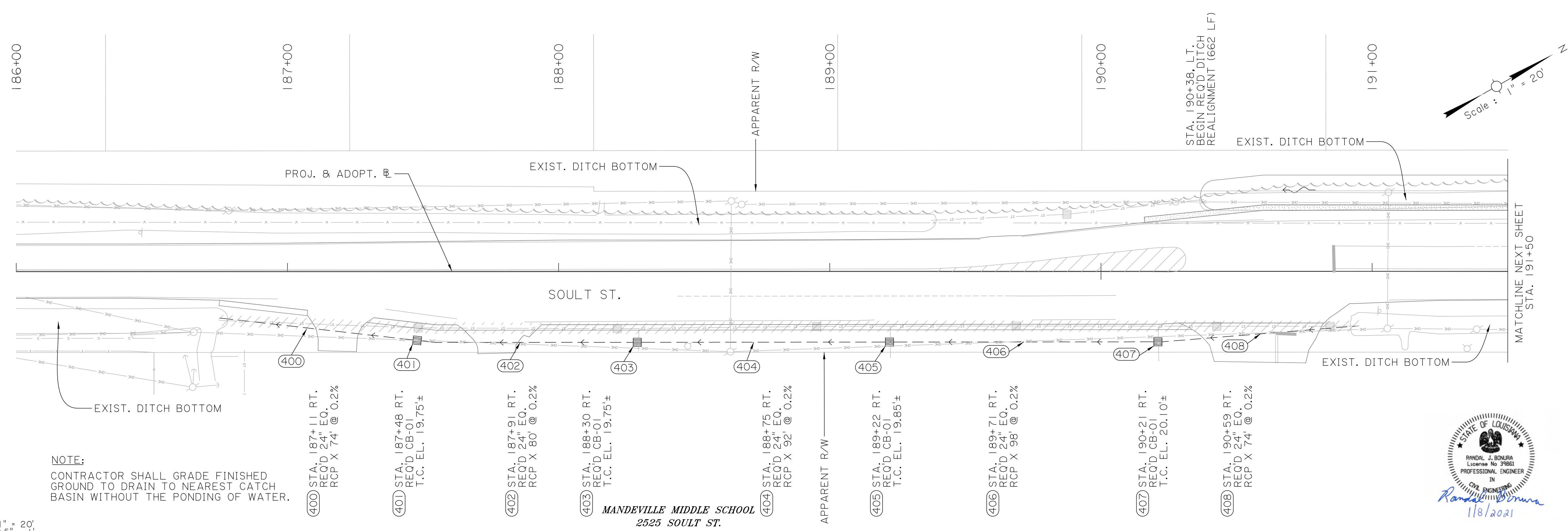
DRAINAGE PLAN AND PROFILE SHEETS
STA. 179+50 TO STA. 183+00
SOULT ST. ROAD IMPROVEMENTS

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100% FINAL PLANS

69440_37.dgn

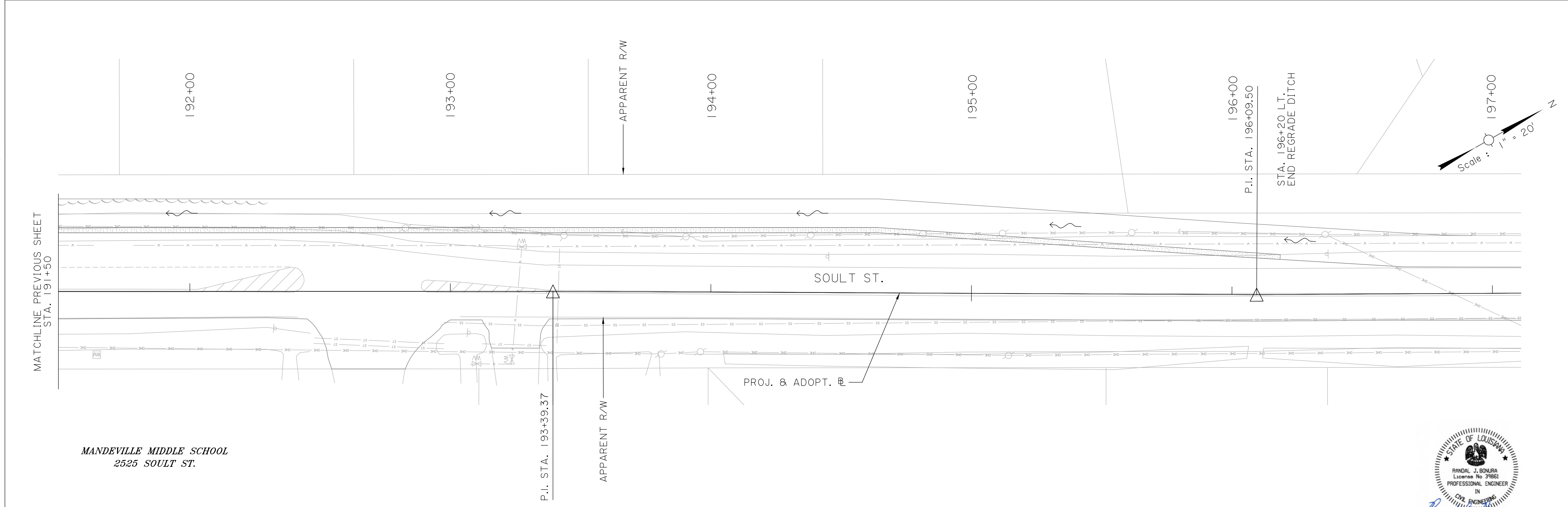


SHEET NUMBER	37
DESIGNED CRH	ST. TAMMANY
CHECKED RJB	CONTROL SECTION
DETAILED BBS	000-52
CHECKED CRH	PROJECT
SERIES NUMBER	ENI 18000011
11 OF 15	
BY	
REVISION OR CHANGE ORDER DESCRIPTION	
NO.	DATE
DRAINAGE PLAN AND PROFILE SHEETS STA. 186+00 TO STA. 191+50	
SOULT ST. ROAD IMPROVEMENTS	

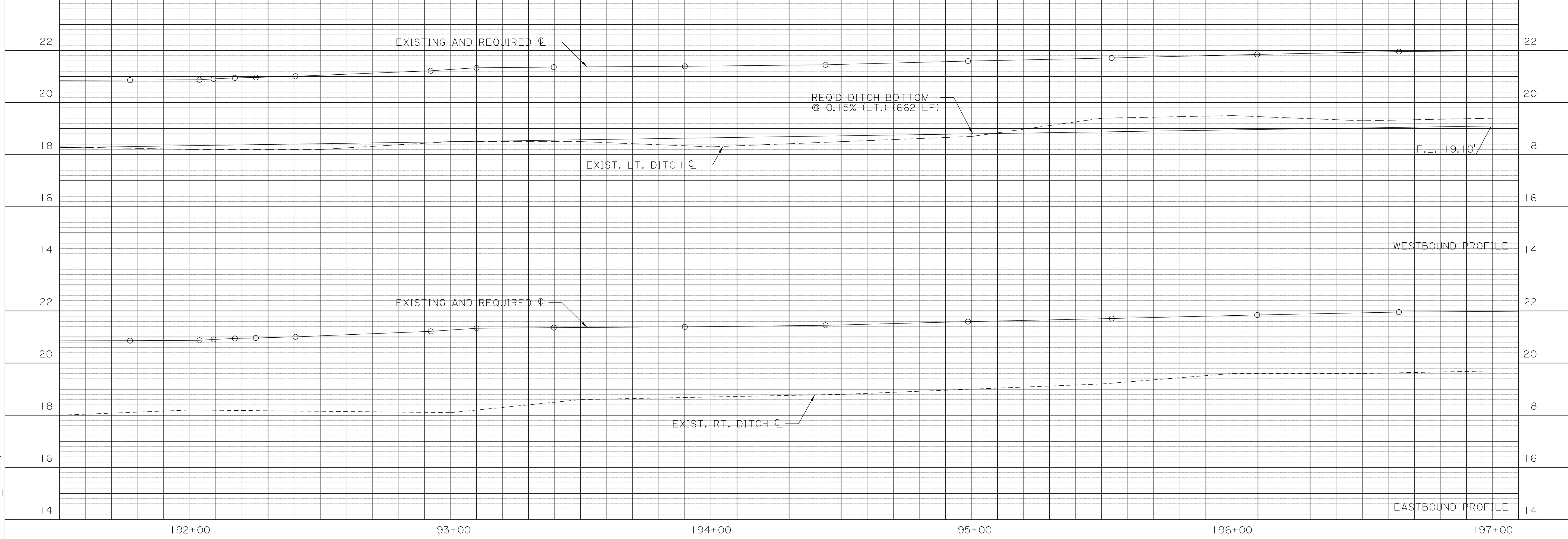
1/8/2021 2:00:00 PM




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69440_38.dgn



SCALE:
 HORIZ. 1" = 20'
 VERT. 0.5" = 1'



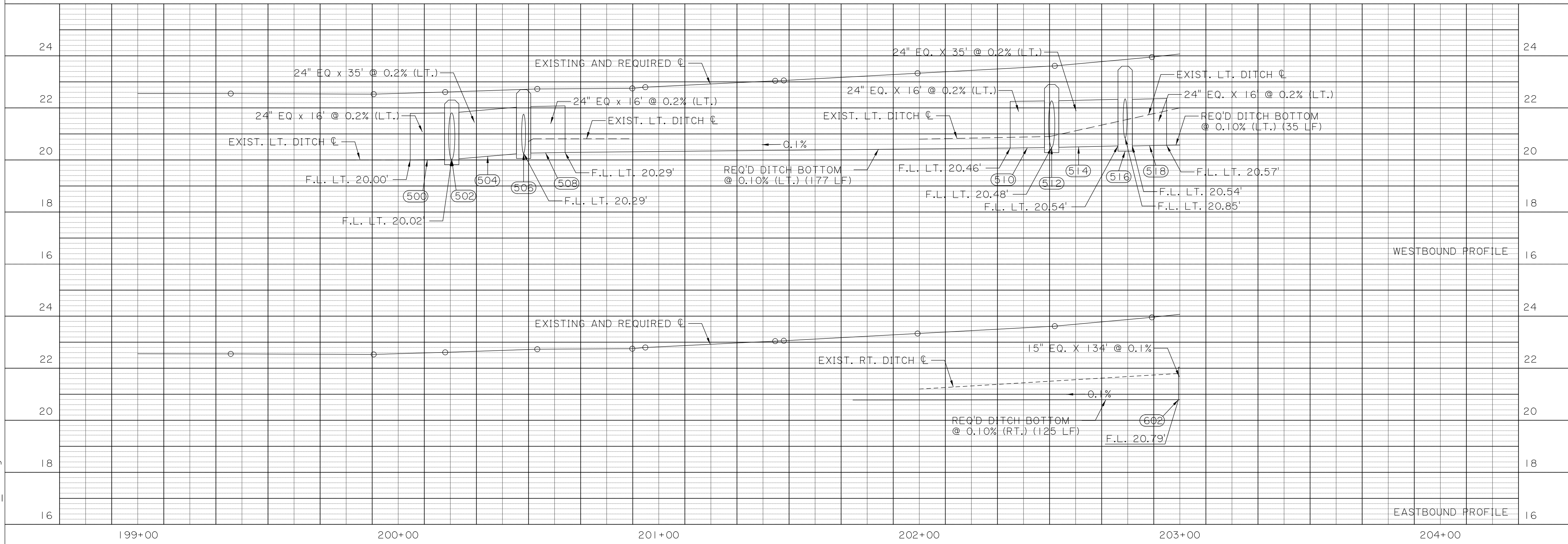
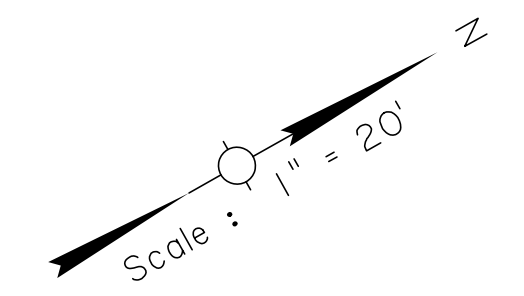
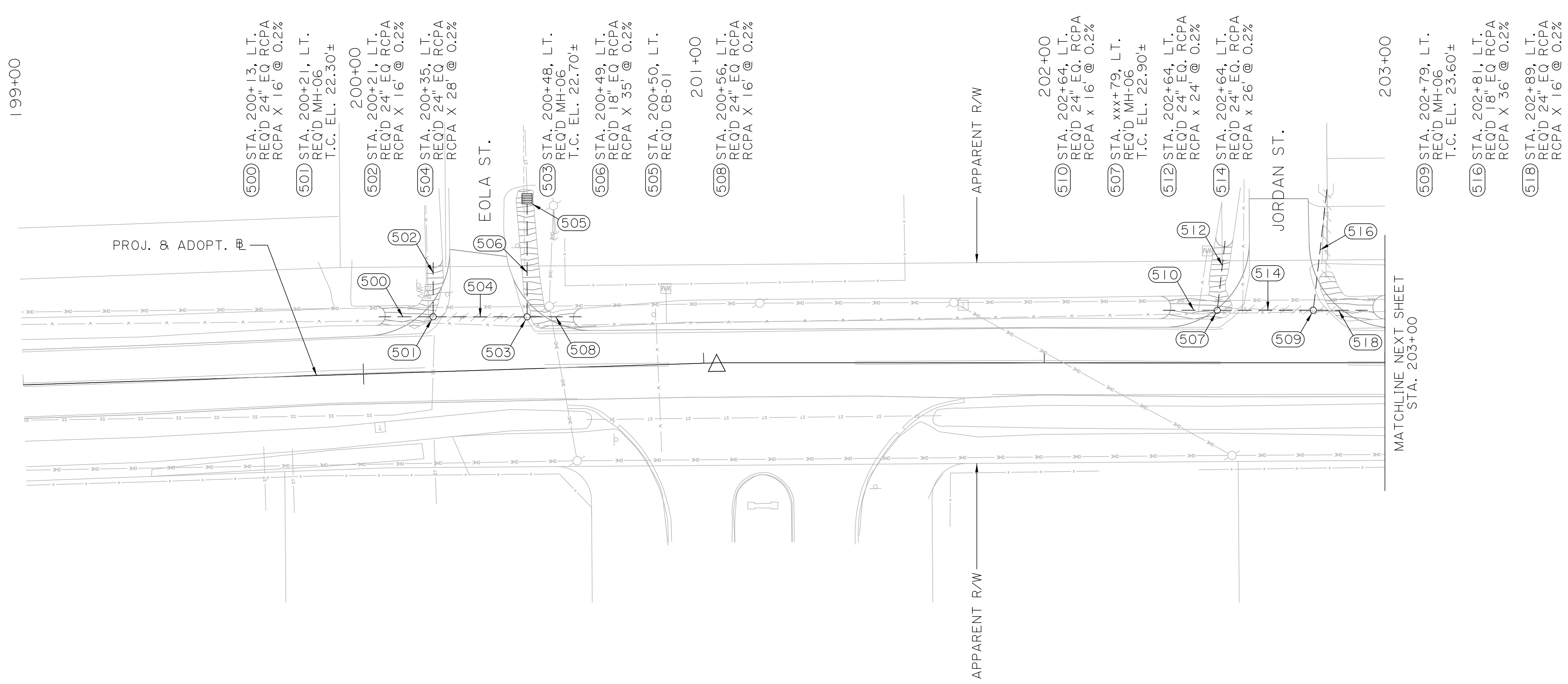
SHEET NUMBER	38
DESIGNED CRH	ST. TAMMANY
CHECKED RJB	PARISH
DETAILED BBS	CONTROL SECTION
CHECKED CRH	000-52
SERIES NUMBER	12 OF 15
REVISION OR CHANGE ORDER DESCRIPTION	PROJECT EN18000011
NO.	DATE
	
DRAINAGE PLAN AND PROFILE SHEETS STA. 191+50 TO STA. 197+10 SOULT ST. ROAD IMPROVEMENTS	
	
	

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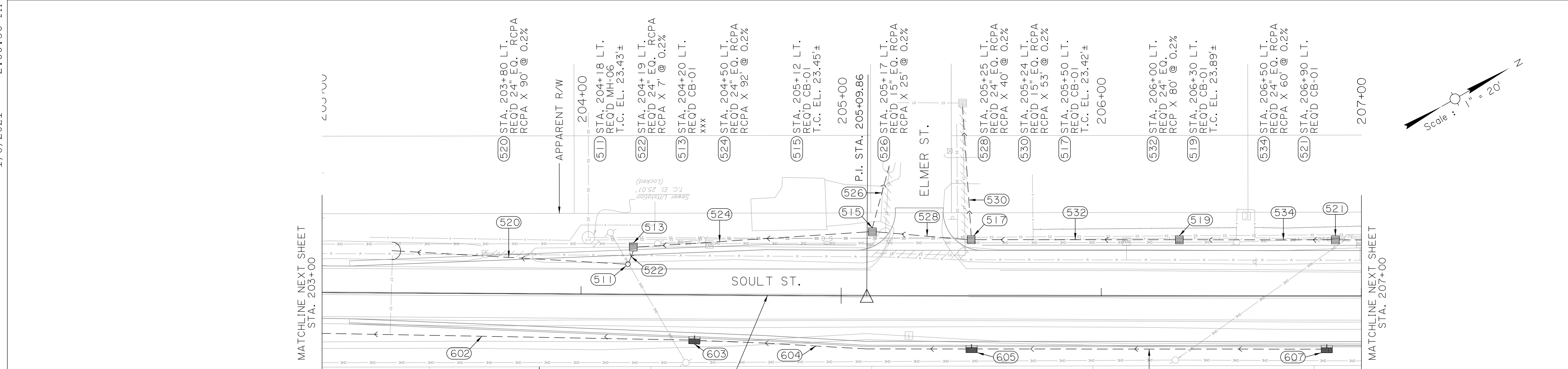
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69440_39.dgn

SCALE:
HORIZ. 1" = 20'
VERT. 0.5" = 1'

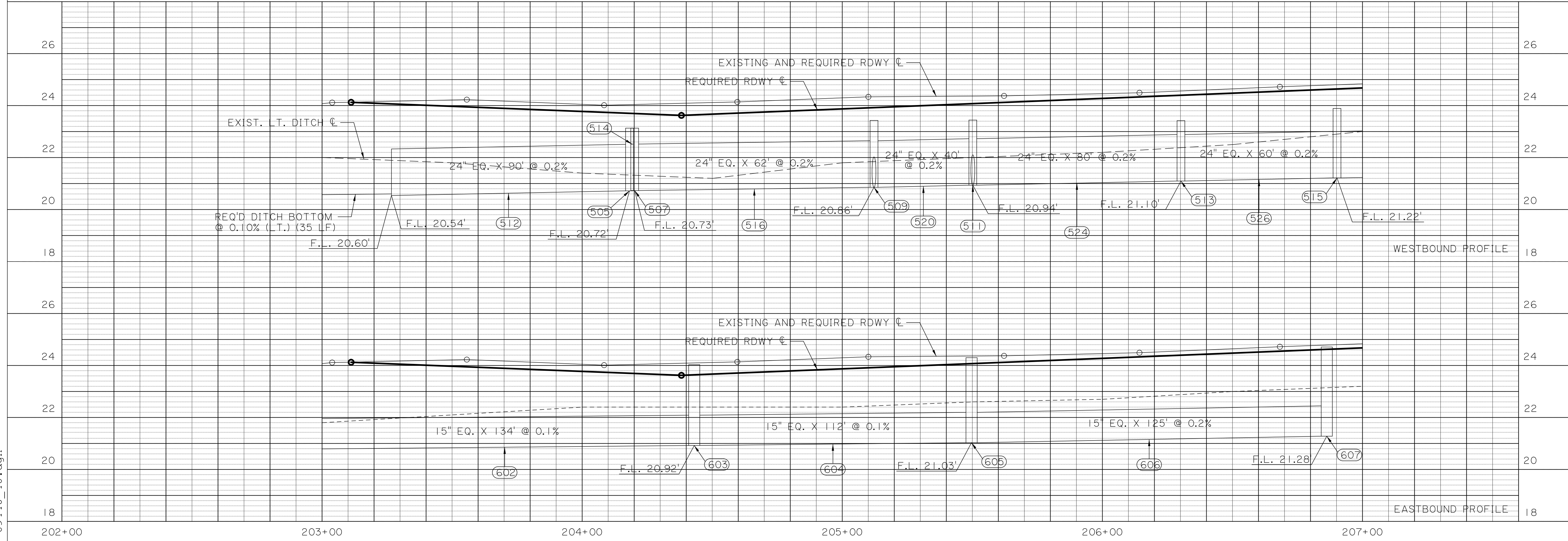
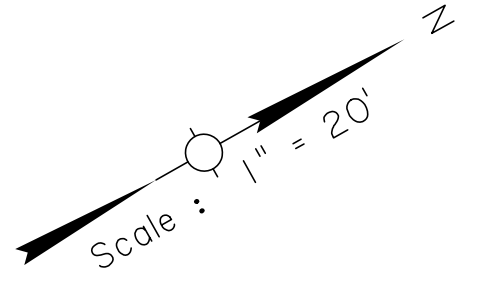


SHEET NUMBER		39
PARISH		ST. TAMMANY
CONTROL SECTION		000-52
PROJECT		ENI8000011
DESIGNED	CRH	
CHECKED	RJB	
DETAILED	BBS	
CHECKED	CRH	
SERIES NUMBER	13 OF 15	
REVISION OR CHANGE ORDER DESCRIPTION		BY
NO.	DATE	
DRAINAGE PLAN AND PROFILE SHEETS STA. 199+00 TO STA. 203+00 SOULT ST. ROAD IMPROVEMENTS		

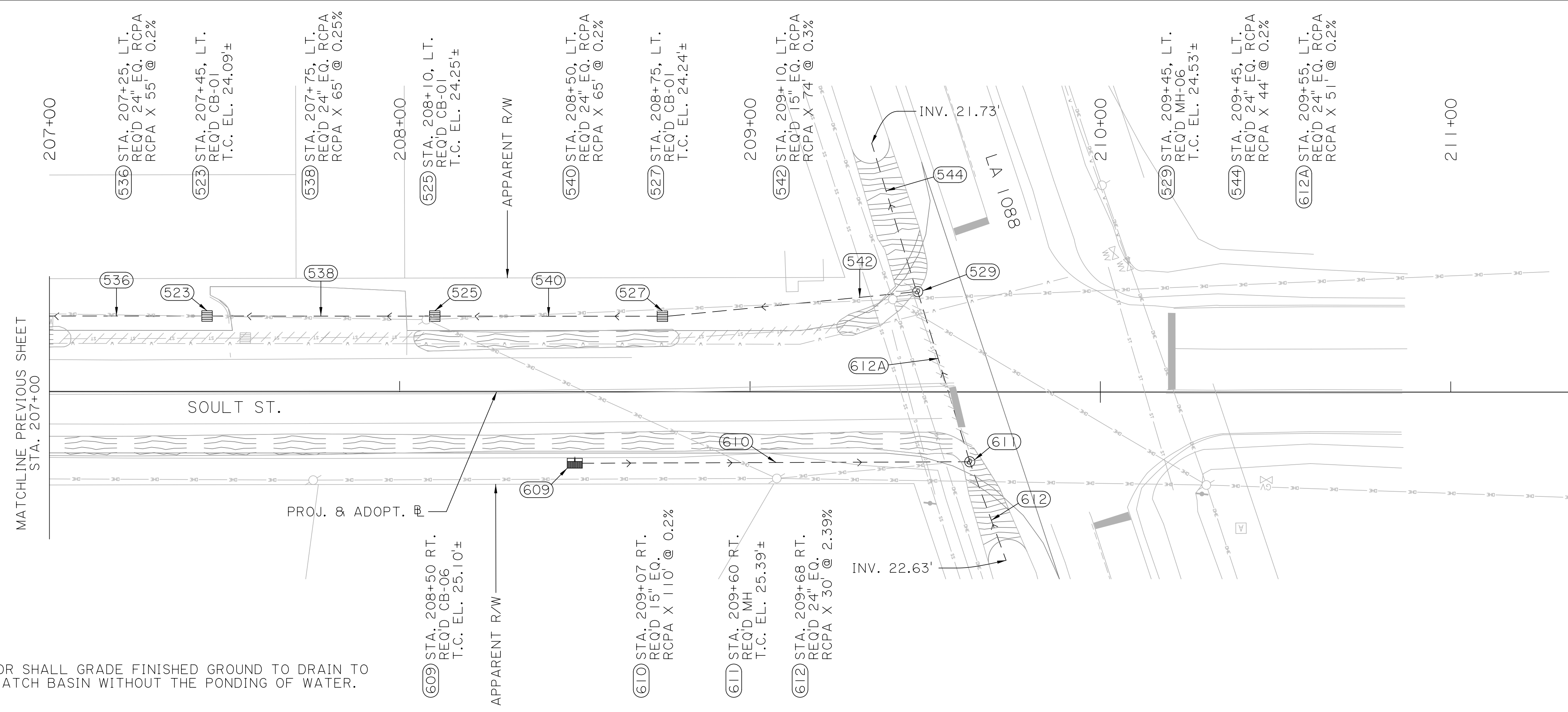


- NOTES:
- CONTRACTOR TO IDENTIFY LOCATION AND DEPTH OF EXISTING SEWER FORCE MAIN AND EXISTING WATER LINE PRIOR TO START OF CONSTRUCTION. CONFLICTS BETWEEN THE EXISTING SEWER FORCE MAIN OR WATER LINE AND THE PROPOSED DRAINAGE SHALL BE BROUGHT TO THE PROJECT ENGINEER'S ATTENTION IMMEDIATELY. THE CONTRACTOR SHALL NOT PERFORM ANY UTILITY OFFSET WITHOUT PRIOR APPROVAL OF THE ENGINEER.
 - CONTRACTOR SHALL GRADE FINISHED GROUND TO DRAIN TO NEAREST CATCH BASIN WITHOUT THE PONDING OF WATER.

SCALE:
HORIZ. 1" = 20'
VERT. 0.5" = 1'

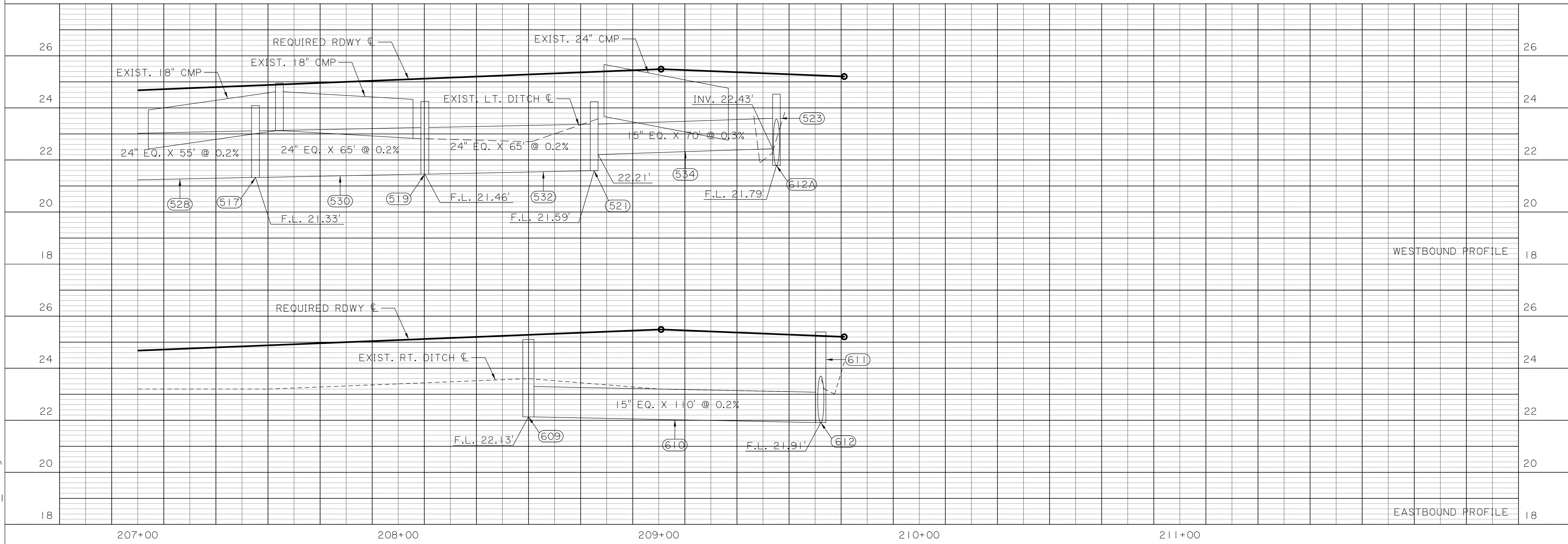




SHEET NUMBER	40
PROJECT	ST. TAMMANY
CONTROL SECTION	000-52
DESIGNED	CRH
CHECKED	RUB
DETAILED	BBS
CHECKED	CRH
SERIES NUMBER	14 OF 15
REVISION OR CHANGE ORDER DESCRIPTION	BY
NO.	DATE
DRAINAGE PLAN AND PROFILE SHEETS STA. 202+95 TO STA. 207+00	
SOULT ST. ROAD IMPROVEMENTS	



NOTE:
 CONTRACTOR SHALL GRADE FINISHED GROUND TO DRAIN TO NEAREST CATCH BASIN WITHOUT THE PONDING OF WATER.

SCALE:
 HORIZ. 1" = 20'
 VERT. 0.5" = 1'



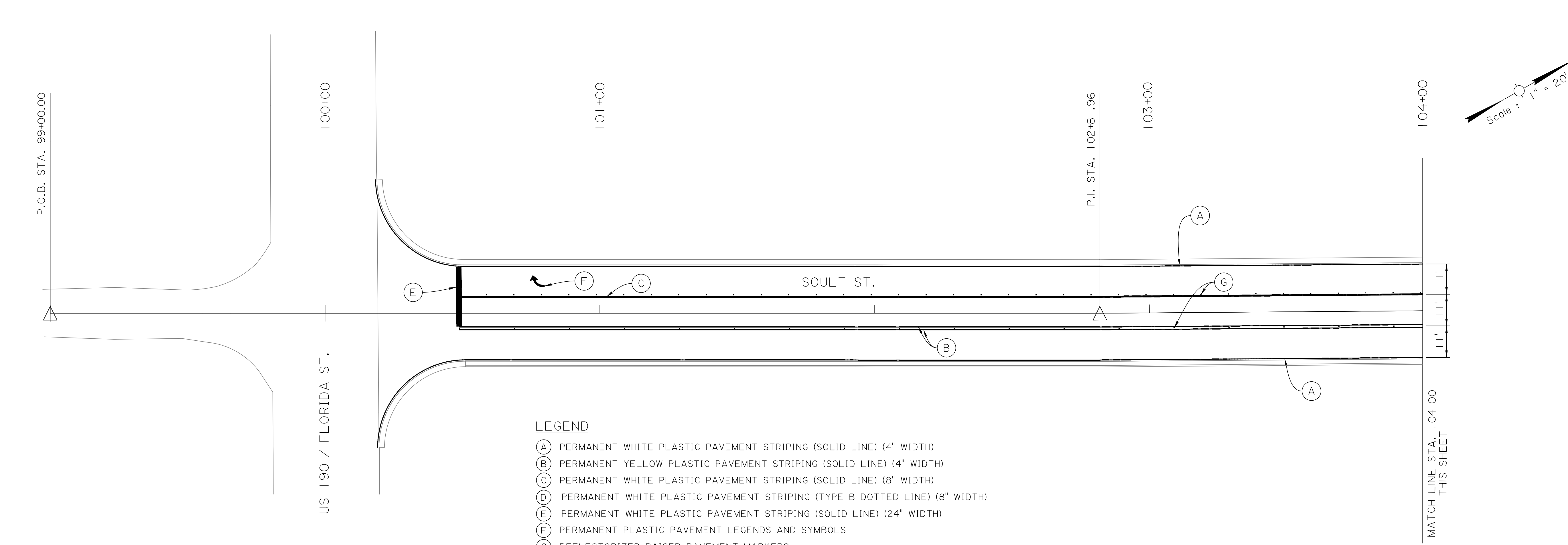
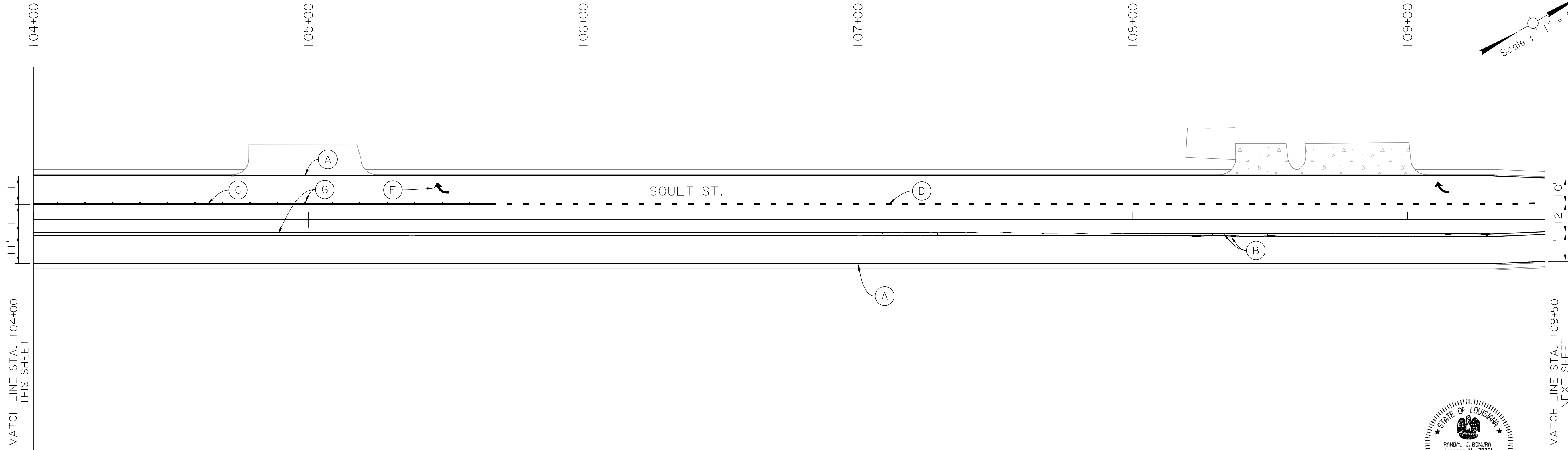
SHEET NUMBER	41
DESIGNED	CRH
CHECKED	RJB
DETAILED	BBS
CHECKED	CRH
SERIES NUMBER	15 OF 15
PARISH	ST. TAMMANY
CONTROL SECTION	000-52
PROJECT	ENI8000011
REVISION OR CHANGE ORDER DESCRIPTION	BY
NO.	DATE
 DRAINAGE PLAN AND PROFILE SHEETS STA. 207+00 TO STA. 211+00 SOULT ST. ROAD IMPROVEMENTS	
 HNTB	

100% FINAL PLANS

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1/8/2021

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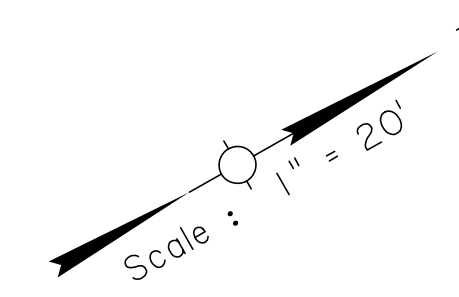
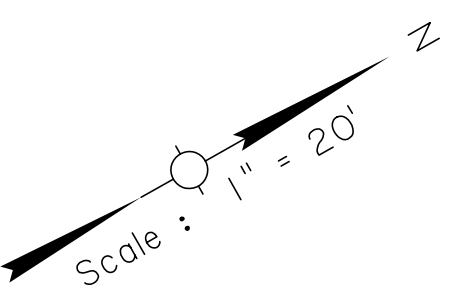


LEGEND

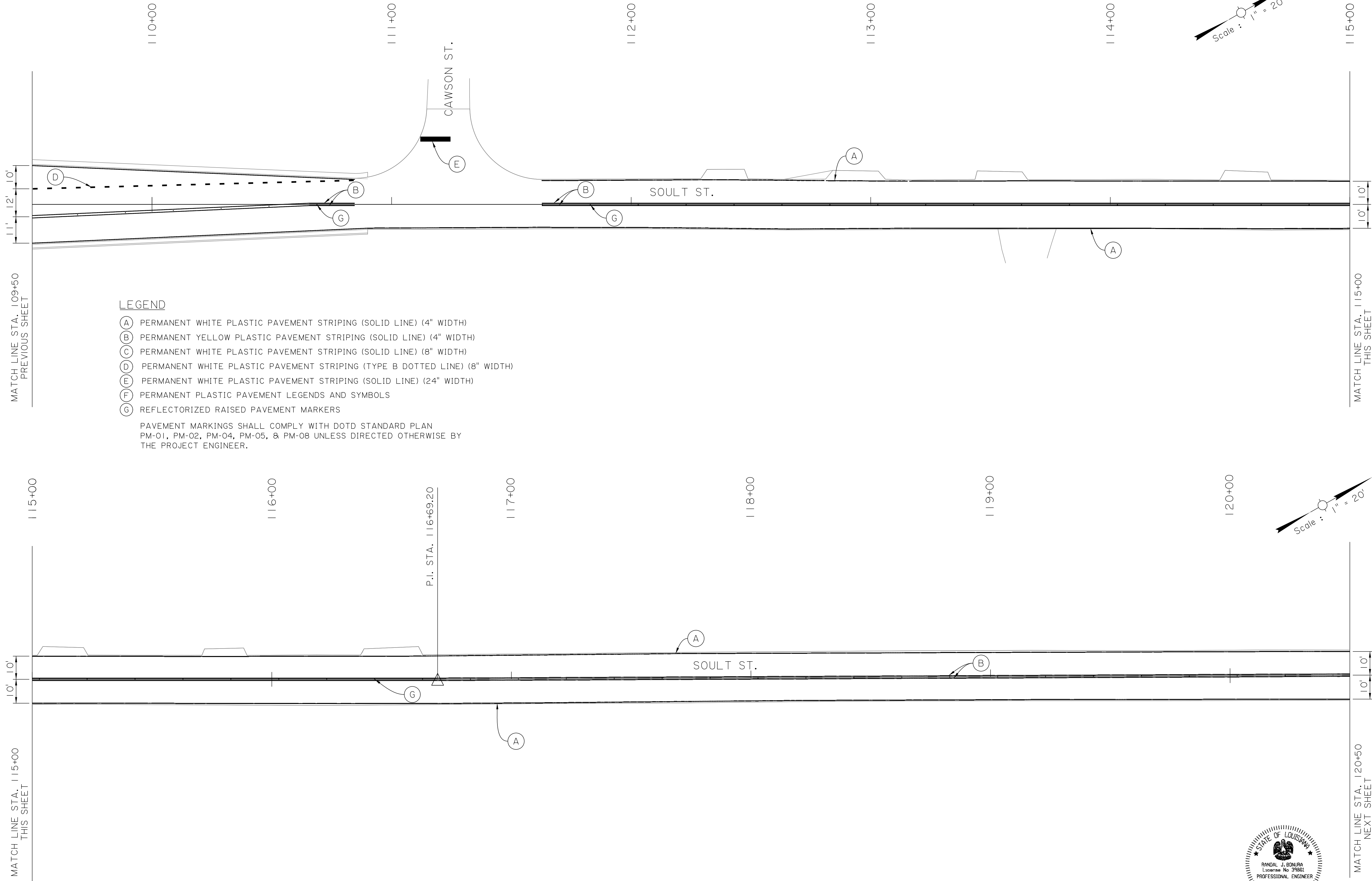
- (A) PERMANENT WHITE PLASTIC PAVEMENT STRIPING (SOLID LINE) (4" WIDTH)
- (B) PERMANENT YELLOW PLASTIC PAVEMENT STRIPING (SOLID LINE) (4" WIDTH)
- (C) PERMANENT WHITE PLASTIC PAVEMENT STRIPING (SOLID LINE) (8" WIDTH)
- (D) PERMANENT WHITE PLASTIC PAVEMENT STRIPING (TYPE B DOTTED LINE) (8" WIDTH)
- (E) PERMANENT WHITE PLASTIC PAVEMENT STRIPING (SOLID LINE) (24" WIDTH)
- (F) PERMANENT PLASTIC PAVEMENT LEGENDS AND SYMBOLS
- (G) REFLECTORIZED RAISED PAVEMENT MARKERS

PAVEMENT MARKINGS SHALL COMPLY WITH DOTD STANDARD PLAN PM-01, PM-02, PM-04, PM-05, & PM-08 UNLESS DIRECTED OTHERWISE BY THE PROJECT ENGINEER.

STATE OF LOUISIANA
 RANDAL J. BONURA
 License No. 39881
 PROFESSIONAL ENGINEER
 IN
 CIVIL ENGINEERING
Randal J. Bonura
 1/8/2021



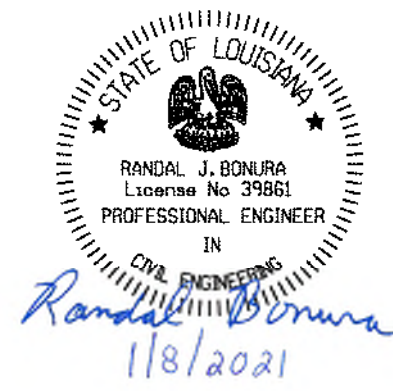
SHEET NUMBER		42	
DESIGNED	CRH	PARISH	ST. TAMMANY
CHECKED	RJB	CONTROL SECTION	000-52
DETAILED	BBS	PROJECT	EN18000011
CHECKED	RJB		
SERIES NUMBER	1 OF 11		
NO.	DATE	REVISION OR CHANGE ORDER DESCRIPTION	BY
PAVEMENT MARKING LAYOUT			
SOULT ST. ROAD IMPROVEMENTS			



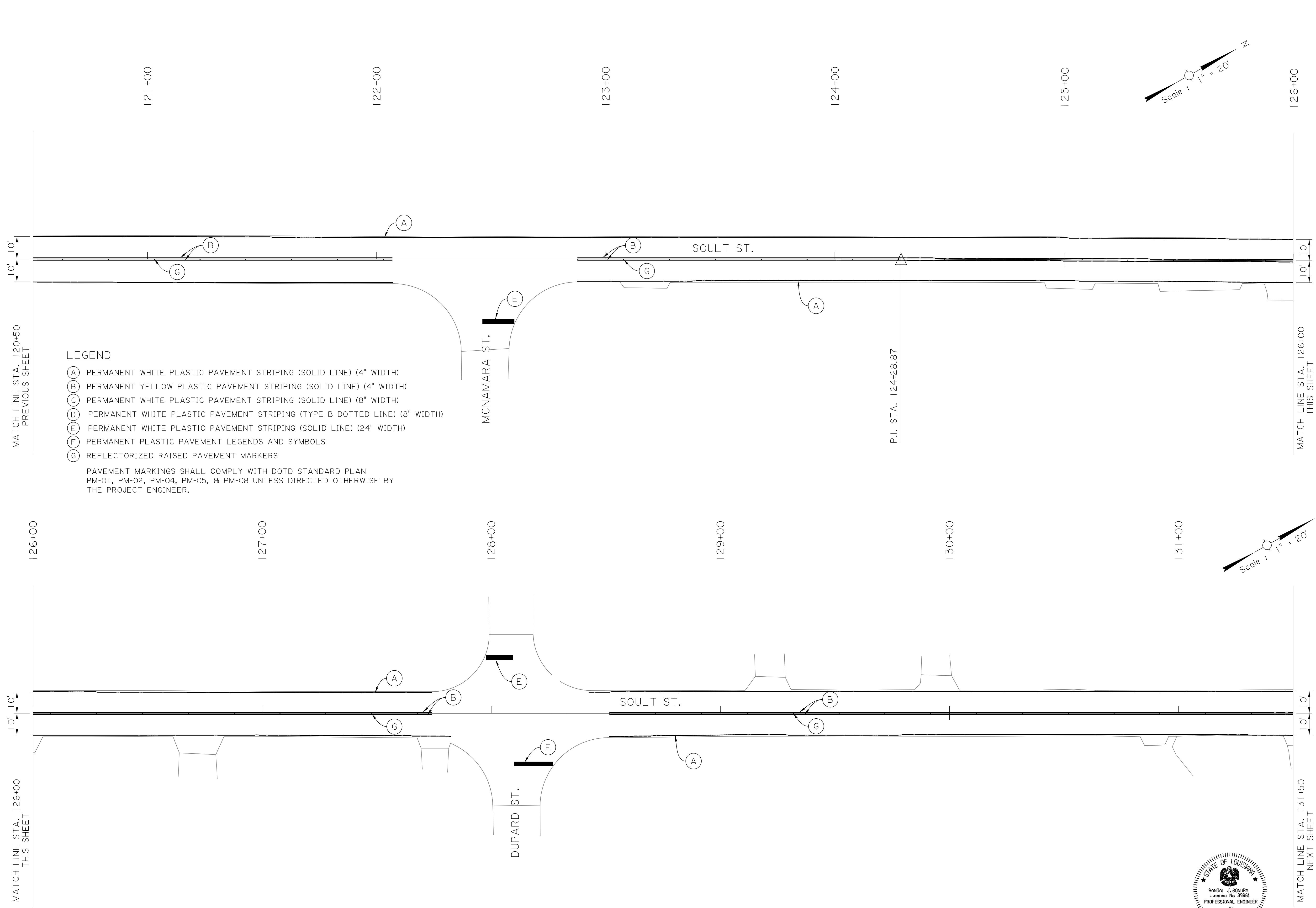
LEGEND

- (A) PERMANENT WHITE PLASTIC PAVEMENT STRIPING (SOLID LINE) (4" WIDTH)
- (B) PERMANENT YELLOW PLASTIC PAVEMENT STRIPING (SOLID LINE) (4" WIDTH)
- (C) PERMANENT WHITE PLASTIC PAVEMENT STRIPING (SOLID LINE) (8" WIDTH)
- (D) PERMANENT WHITE PLASTIC PAVEMENT STRIPING (TYPE B DOTTED LINE) (8" WIDTH)
- (E) PERMANENT WHITE PLASTIC PAVEMENT STRIPING (SOLID LINE) (24" WIDTH)
- (F) PERMANENT PLASTIC PAVEMENT LEGENDS AND SYMBOLS
- (G) REFLECTORIZED RAISED PAVEMENT MARKERS

PAVEMENT MARKINGS SHALL COMPLY WITH DOTD STANDARD PLAN PM-01, PM-02, PM-04, PM-05, & PM-08 UNLESS DIRECTED OTHERWISE BY THE PROJECT ENGINEER.



SHEET NUMBER		43	
DESIGNED	CRH	PARISH	ST. TAMMANY
CHECKED	RJB	CONTROL SECTION	000-52
DESIGNED	BBS	PROJECT	EN18000011
CHECKED	RJB		
NO.	DATE	REVISION OR CHANGE ORDER DESCRIPTION	BY
PAVEMENT MARKING LAYOUT		SOULT ST. ROAD IMPROVEMENTS	



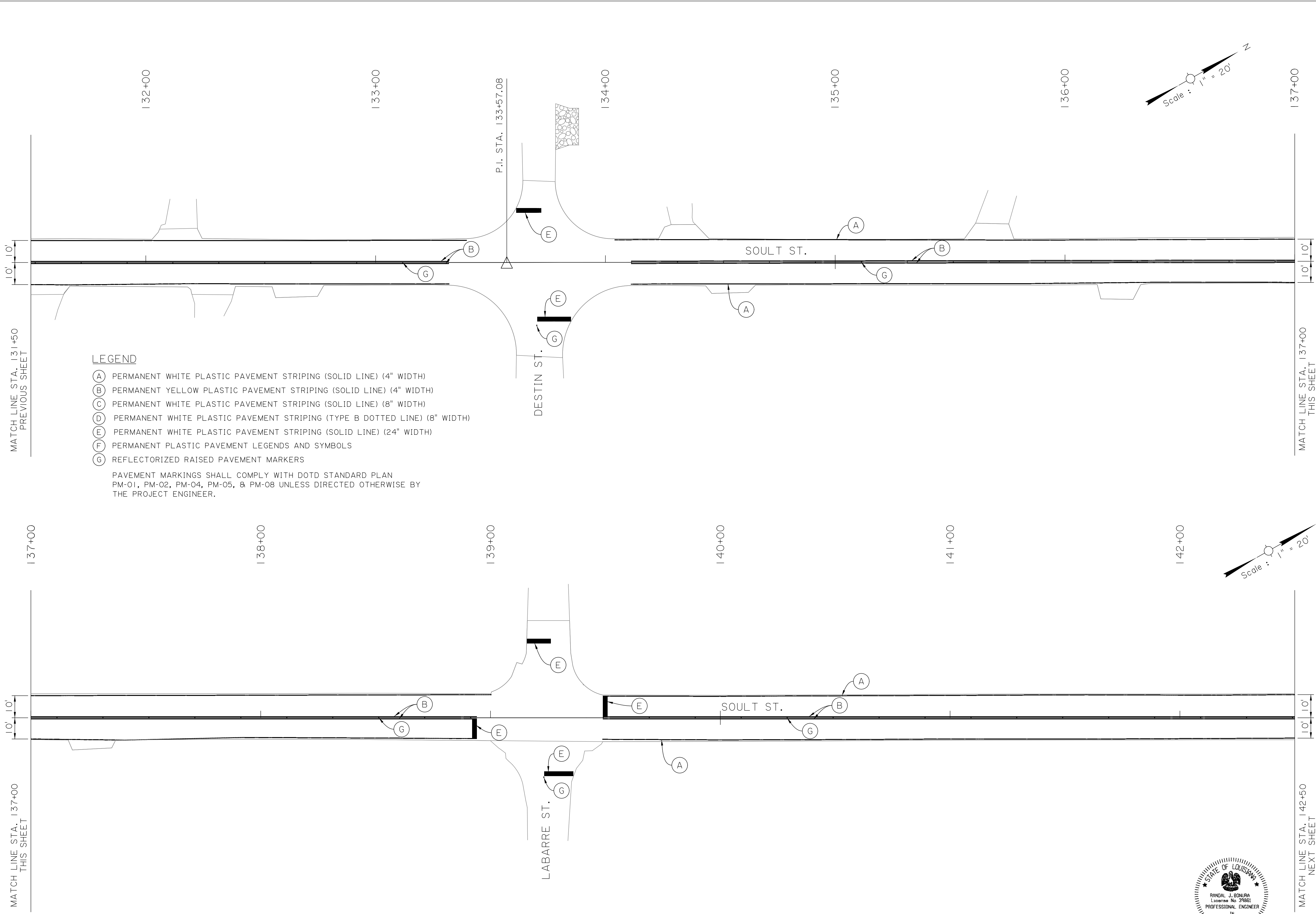
LEGEND

- (A) PERMANENT WHITE PLASTIC PAVEMENT STRIPING (SOLID LINE) (4" WIDTH)
- (B) PERMANENT YELLOW PLASTIC PAVEMENT STRIPING (SOLID LINE) (4" WIDTH)
- (C) PERMANENT WHITE PLASTIC PAVEMENT STRIPING (SOLID LINE) (8" WIDTH)
- (D) PERMANENT WHITE PLASTIC PAVEMENT STRIPING (TYPE B DOTTED LINE) (8" WIDTH)
- (E) PERMANENT WHITE PLASTIC PAVEMENT STRIPING (SOLID LINE) (24" WIDTH)
- (F) PERMANENT PLASTIC PAVEMENT LEGENDS AND SYMBOLS
- (G) REFLECTORIZED RAISED PAVEMENT MARKERS

PAVEMENT MARKINGS SHALL COMPLY WITH DOTD STANDARD PLAN PM-01, PM-02, PM-04, PM-05, & PM-08 UNLESS DIRECTED OTHERWISE BY THE PROJECT ENGINEER.

STATE OF LOUISIANA
 RANDAL J. BONURA
 License No. 39881
 PROFESSIONAL ENGINEER
 IN
 CIVIL ENGINEERING
Randal J. Bonura
 1/8/2021

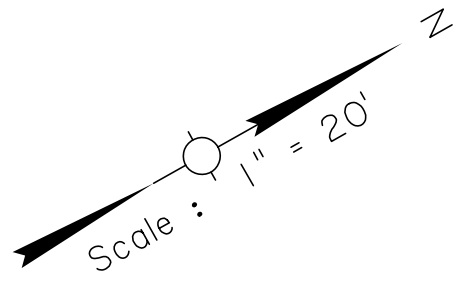
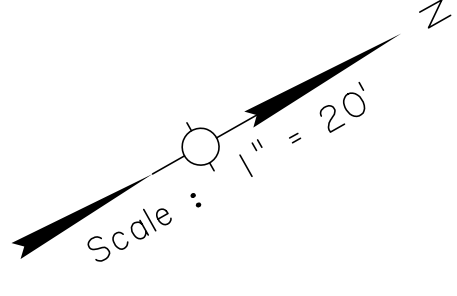
SHEET NUMBER		44
DESIGNED	CRH	ST. TAMMANY
CHECKED	RJB	PARISH
DETAILED	BBS	CONTROL SECTION
CHECKED	RJB	000-52
SERIES NUMBER	3 OF 11	PROJECT
REVISION OR CHANGE ORDER DESCRIPTION		EN18000011
NO.	DATE	BY
PAVEMENT MARKING LAYOUT		
SOULT ST. ROAD IMPROVEMENTS		



LEGEND

- (A) PERMANENT WHITE PLASTIC PAVEMENT STRIPING (SOLID LINE) (4" WIDTH)
- (B) PERMANENT YELLOW PLASTIC PAVEMENT STRIPING (SOLID LINE) (4" WIDTH)
- (C) PERMANENT WHITE PLASTIC PAVEMENT STRIPING (SOLID LINE) (8" WIDTH)
- (D) PERMANENT WHITE PLASTIC PAVEMENT STRIPING (TYPE B DOTTED LINE) (8" WIDTH)
- (E) PERMANENT WHITE PLASTIC PAVEMENT STRIPING (SOLID LINE) (24" WIDTH)
- (F) PERMANENT PLASTIC PAVEMENT LEGENDS AND SYMBOLS
- (G) REFLECTORIZED RAISED PAVEMENT MARKERS

PAVEMENT MARKINGS SHALL COMPLY WITH DOTD STANDARD PLAN PM-01, PM-02, PM-04, PM-05, & PM-08 UNLESS DIRECTED OTHERWISE BY THE PROJECT ENGINEER.



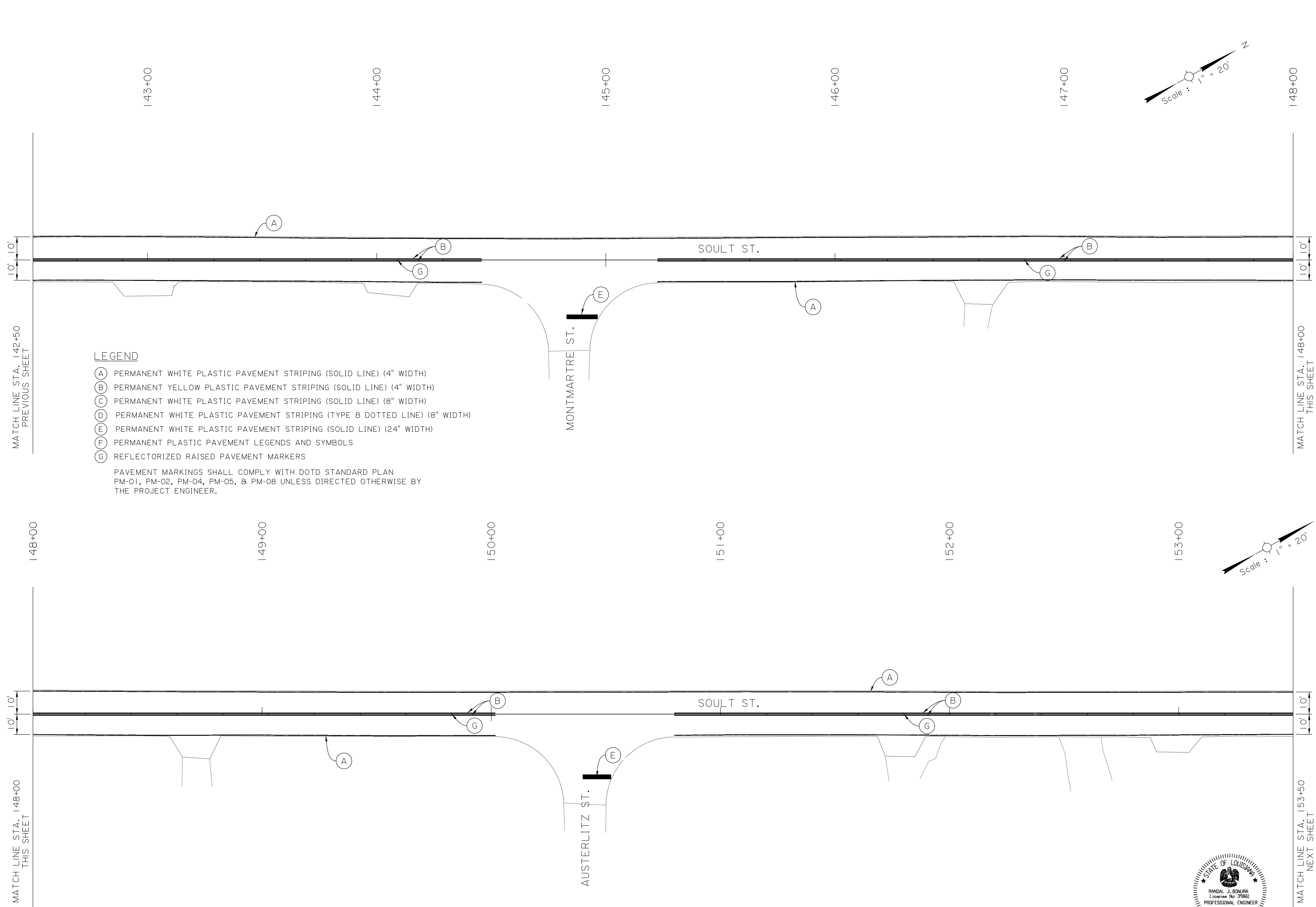
MATCH LINE STA. 131+50
PREVIOUS SHEET

MATCH LINE STA. 137+00
THIS SHEET

MATCH LINE STA. 137+00
THIS SHEET

MATCH LINE STA. 142+50
NEXT SHEET

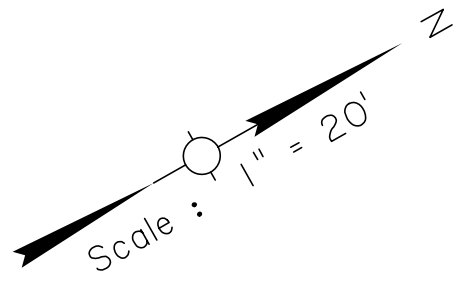
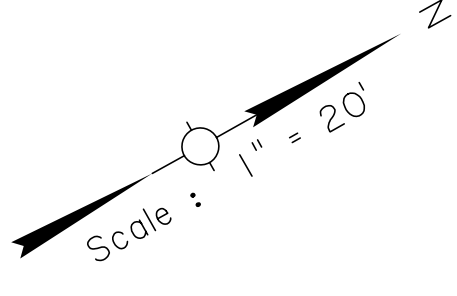
SHEET NUMBER		45	
DESIGNED	CRH	PARISH	ST. TAMMANY
CHECKED	RJB	CONTROL SECTION	000-52
DETAILED	BBS	PROJECT	EN18000011
CHECKED	RJB		
SERIES NUMBER	4 OF 11		
REVISION OR CHANGE ORDER DESCRIPTION		BY	
NO.	DATE		
PAVEMENT MARKING LAYOUT		SOULT ST. ROAD IMPROVEMENTS	



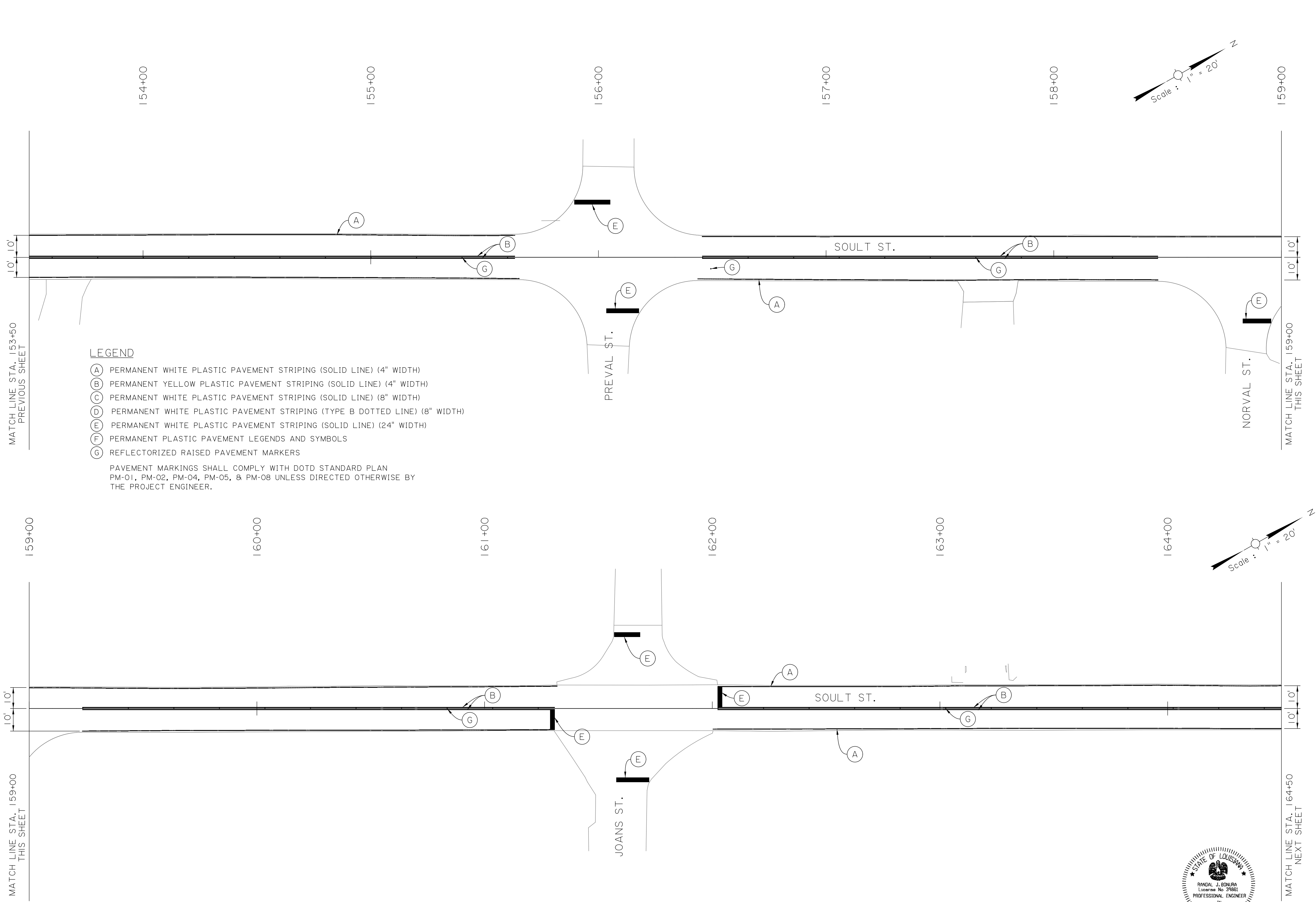
LEGEND

- (A) PERMANENT WHITE PLASTIC PAVEMENT STRIPING (SOLID LINE) (4" WIDTH)
- (B) PERMANENT YELLOW PLASTIC PAVEMENT STRIPING (SOLID LINE) (4" WIDTH)
- (C) PERMANENT WHITE PLASTIC PAVEMENT STRIPING (SOLID LINE) (8" WIDTH)
- (D) PERMANENT WHITE PLASTIC PAVEMENT STRIPING (TYPE B DOTTED LINE) (8" WIDTH)
- (E) PERMANENT WHITE PLASTIC PAVEMENT STRIPING (SOLID LINE) (24" WIDTH)
- (F) PERMANENT PLASTIC PAVEMENT LEGENDS AND SYMBOLS
- (G) REFLECTORIZED RAISED PAVEMENT MARKERS

PAVEMENT MARKINGS SHALL COMPLY WITH DOTD STANDARD PLAN PM-01, PM-02, PM-04, PM-05, & PM-08 UNLESS DIRECTED OTHERWISE BY THE PROJECT ENGINEER.



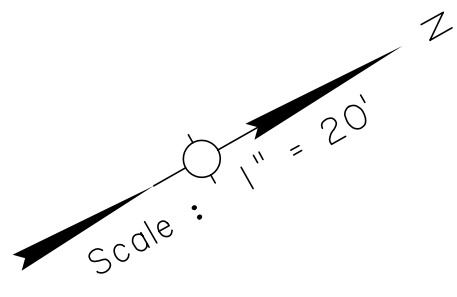
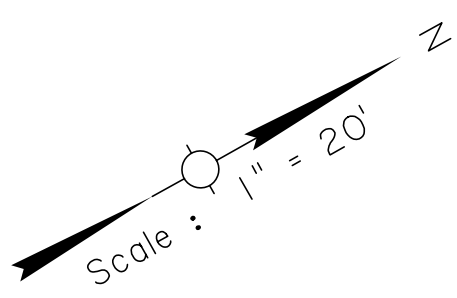
SHEET NUMBER		46	
DESIGNED	CRH	PARISH	ST. TAMMANY
CHECKED	RJB	CONTROL SECTION	000-52
DETAILED	BBS	PROJECT	EN18000011
CHECKED	RJB		
SERIES NUMBER	5 OF 11		
NO.	DATE	REVISION OR CHANGE ORDER DESCRIPTION	BY
PAVEMENT MARKING LAYOUT			
SOULT ST. ROAD IMPROVEMENTS			



LEGEND

- (A) PERMANENT WHITE PLASTIC PAVEMENT STRIPING (SOLID LINE) (4" WIDTH)
- (B) PERMANENT YELLOW PLASTIC PAVEMENT STRIPING (SOLID LINE) (4" WIDTH)
- (C) PERMANENT WHITE PLASTIC PAVEMENT STRIPING (SOLID LINE) (8" WIDTH)
- (D) PERMANENT WHITE PLASTIC PAVEMENT STRIPING (TYPE B DOTTED LINE) (8" WIDTH)
- (E) PERMANENT WHITE PLASTIC PAVEMENT STRIPING (SOLID LINE) (24" WIDTH)
- (F) PERMANENT PLASTIC PAVEMENT LEGENDS AND SYMBOLS
- (G) REFLECTORIZED RAISED PAVEMENT MARKERS

PAVEMENT MARKINGS SHALL COMPLY WITH DOTD STANDARD PLAN PM-01, PM-02, PM-04, PM-05, & PM-08 UNLESS DIRECTED OTHERWISE BY THE PROJECT ENGINEER.



MATCH LINE STA. 153+50
PREVIOUS SHEET

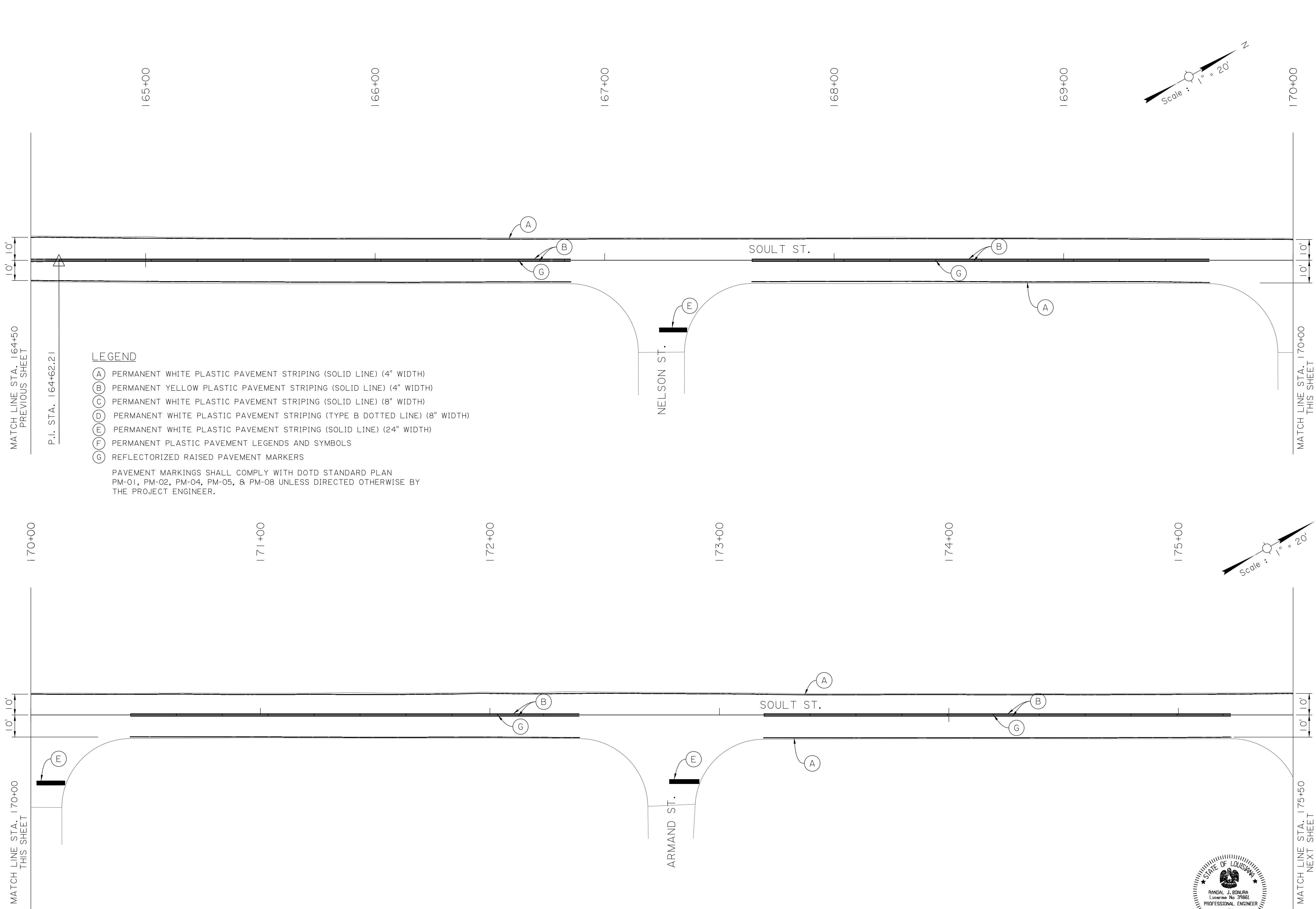
MATCH LINE STA. 159+00
THIS SHEET

MATCH LINE STA. 159+00
THIS SHEET

MATCH LINE STA. 164+50
NEXT SHEET



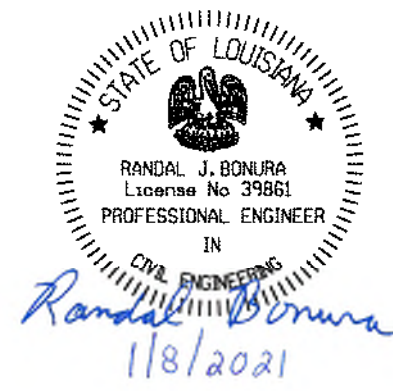
SHEET NUMBER		47	
DESIGNED	CRH	PARISH	ST. TAMMANY
CHECKED	RJB	CONTROL SECTION	000-52
DETAILED	BBS	PROJECT	EN18000011
CHECKED	RJB		
SERIES NUMBER	6 OF 11		
REVISION OR CHANGE ORDER DESCRIPTION	BY		
NO.	DATE		
PAVEMENT MARKING LAYOUT		SOULT ST. ROAD IMPROVEMENTS	



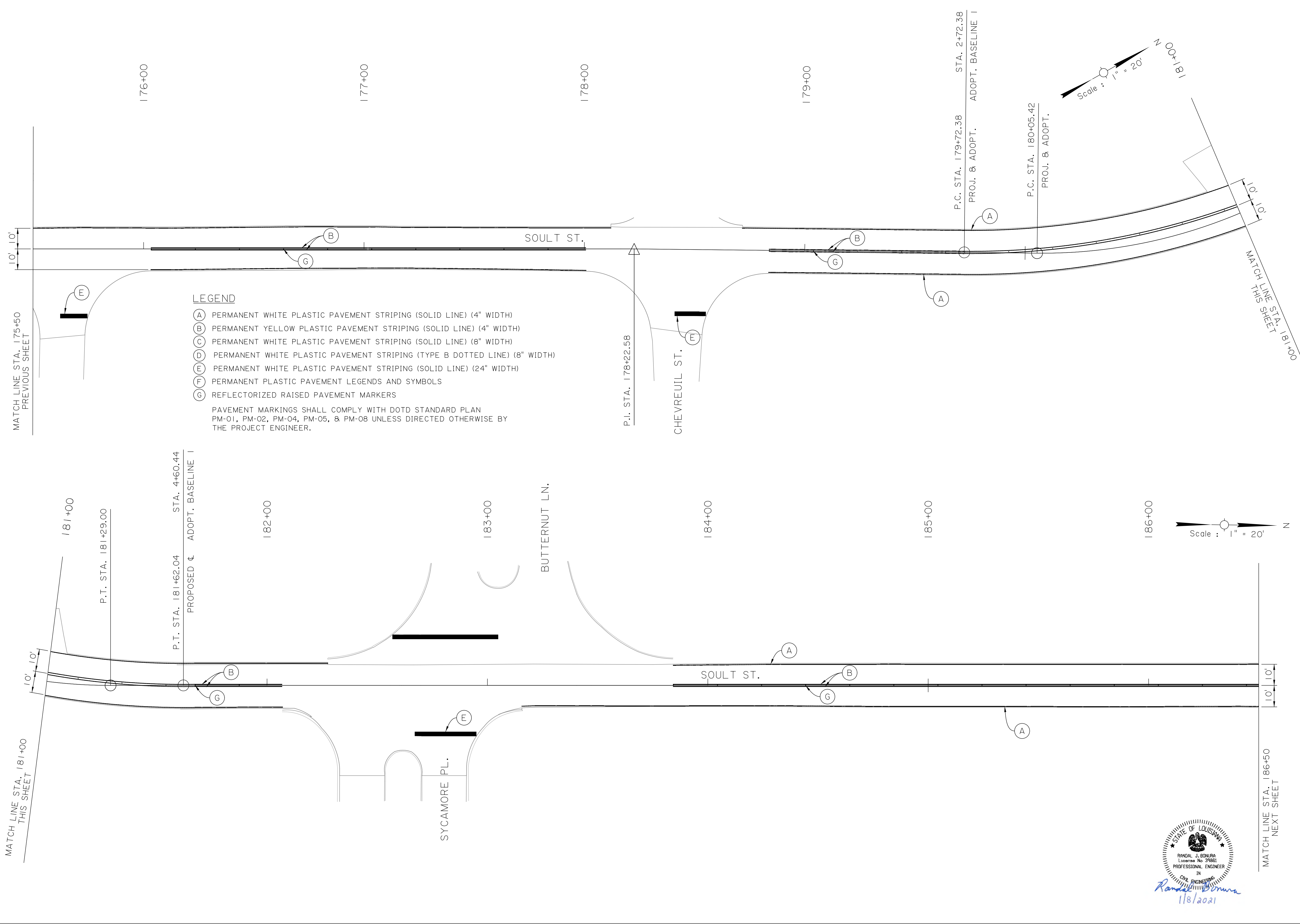
LEGEND

- (A) PERMANENT WHITE PLASTIC PAVEMENT STRIPING (SOLID LINE) (4" WIDTH)
- (B) PERMANENT YELLOW PLASTIC PAVEMENT STRIPING (SOLID LINE) (4" WIDTH)
- (C) PERMANENT WHITE PLASTIC PAVEMENT STRIPING (SOLID LINE) (8" WIDTH)
- (D) PERMANENT WHITE PLASTIC PAVEMENT STRIPING (TYPE B DOTTED LINE) (8" WIDTH)
- (E) PERMANENT WHITE PLASTIC PAVEMENT STRIPING (SOLID LINE) (24" WIDTH)
- (F) PERMANENT PLASTIC PAVEMENT LEGENDS AND SYMBOLS
- (G) REFLECTORIZED RAISED PAVEMENT MARKERS

PAVEMENT MARKINGS SHALL COMPLY WITH DOTD STANDARD PLAN PM-01, PM-02, PM-04, PM-05, & PM-08 UNLESS DIRECTED OTHERWISE BY THE PROJECT ENGINEER.



SHEET NUMBER		48	
DESIGNED	CRH	PARISH	ST. TAMMANY
CHECKED	RJB	CONTROL SECTION	000-52
DETAILED	BBS	PROJECT	EN18000011
CHECKED	RJB		
SERIES NUMBER	7 OF 11		
NO.	DATE	REVISION OR CHANGE ORDER DESCRIPTION	BY
PAVEMENT MARKING LAYOUT			
SOULT ST. ROAD IMPROVEMENTS			
 RANDAL J. BONURA License No. 39861 PROFESSIONAL ENGINEER IN CIVIL ENGINEERING <i>Randal J. Bonura</i> 1/8/2021			

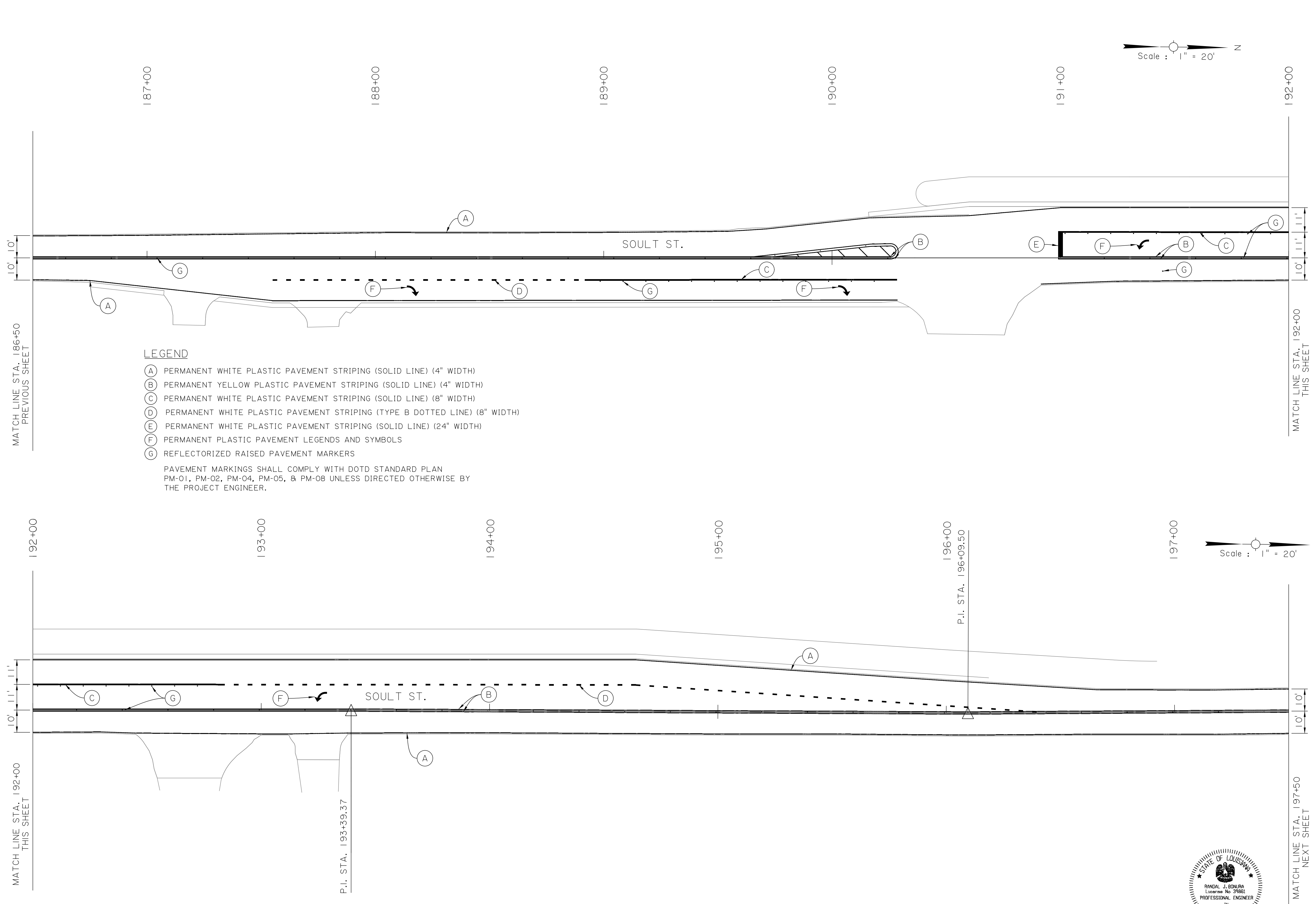


LEGEND

- (A) PERMANENT WHITE PLASTIC PAVEMENT STRIPING (SOLID LINE) (4" WIDTH)
 - (B) PERMANENT YELLOW PLASTIC PAVEMENT STRIPING (SOLID LINE) (4" WIDTH)
 - (C) PERMANENT WHITE PLASTIC PAVEMENT STRIPING (SOLID LINE) (8" WIDTH)
 - (D) PERMANENT WHITE PLASTIC PAVEMENT STRIPING (TYPE B DOTTED LINE) (8" WIDTH)
 - (E) PERMANENT WHITE PLASTIC PAVEMENT STRIPING (SOLID LINE) (24" WIDTH)
 - (F) PERMANENT PLASTIC PAVEMENT LEGENDS AND SYMBOLS
 - (G) REFLECTORIZED RAISED PAVEMENT MARKERS
- PAVEMENT MARKINGS SHALL COMPLY WITH DOTD STANDARD PLAN PM-01, PM-02, PM-04, PM-05, & PM-08 UNLESS DIRECTED OTHERWISE BY THE PROJECT ENGINEER.

STATE OF LOUISIANA
 RANDAL J. BONURA
 License No. 39821
 PROFESSIONAL ENGINEER
 IN
 CIVIL ENGINEERING
Randal J. Bonura
 1/8/2021

SHEET NUMBER		49	
DESIGNED	CRH	PARISH	ST. TAMMANY
CHECKED	RJB	CONTROL SECTION	000-52
DETAILED	BBS	PROJECT	EN18000011
CHECKED	RJB		
SERIES NUMBER	8 OF 11		
REVISION OR CHANGE ORDER DESCRIPTION	BY	DATE	
PAVEMENT MARKING LAYOUT			
SOULT ST. ROAD IMPROVEMENTS			



LEGEND

- (A) PERMANENT WHITE PLASTIC PAVEMENT STRIPING (SOLID LINE) (4" WIDTH)
- (B) PERMANENT YELLOW PLASTIC PAVEMENT STRIPING (SOLID LINE) (4" WIDTH)
- (C) PERMANENT WHITE PLASTIC PAVEMENT STRIPING (SOLID LINE) (8" WIDTH)
- (D) PERMANENT WHITE PLASTIC PAVEMENT STRIPING (TYPE B DOTTED LINE) (8" WIDTH)
- (E) PERMANENT WHITE PLASTIC PAVEMENT STRIPING (SOLID LINE) (24" WIDTH)
- (F) PERMANENT PLASTIC PAVEMENT LEGENDS AND SYMBOLS
- (G) REFLECTORIZED RAISED PAVEMENT MARKERS

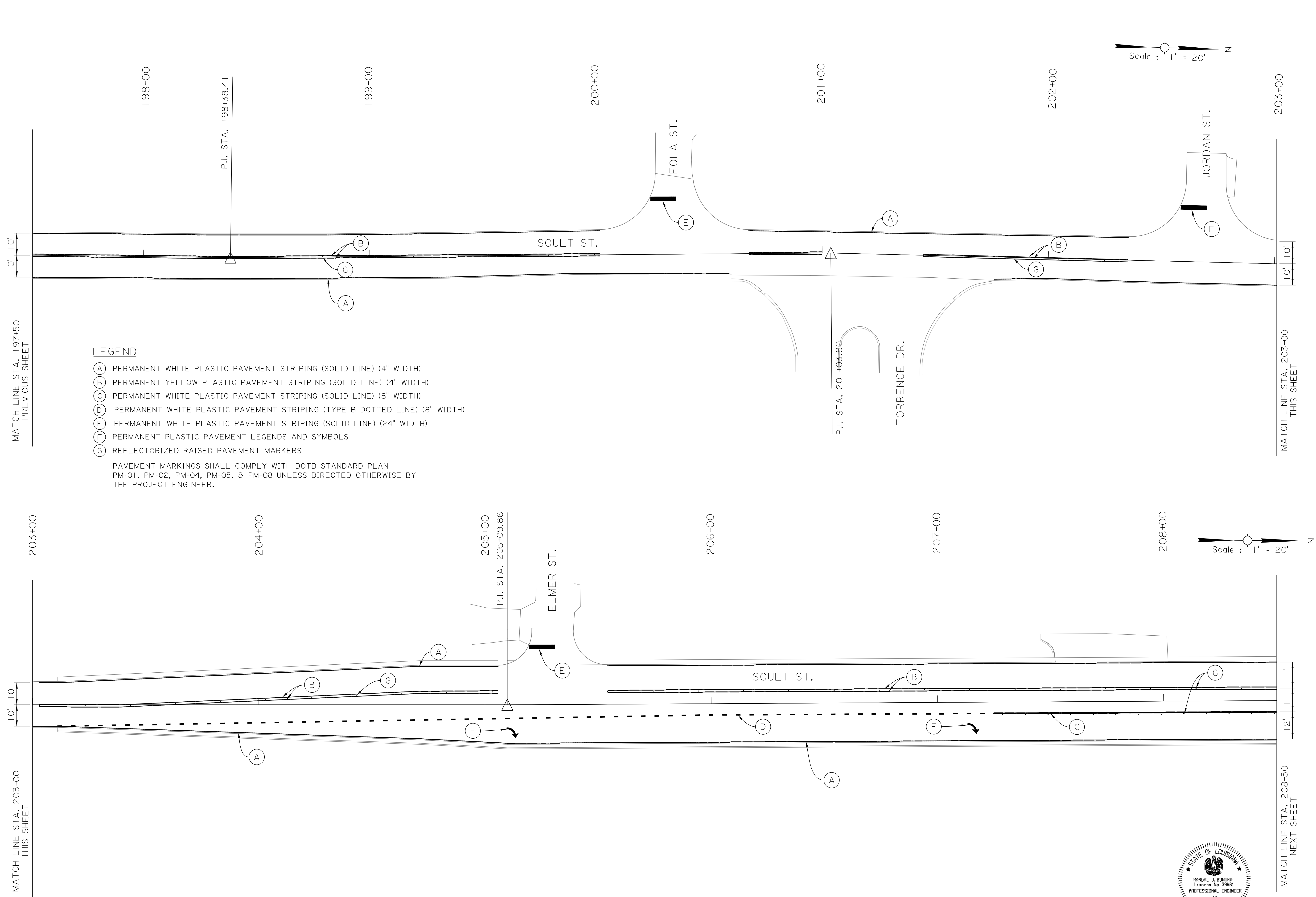
PAVEMENT MARKINGS SHALL COMPLY WITH DOTD STANDARD PLAN PM-01, PM-02, PM-04, PM-05, & PM-08 UNLESS DIRECTED OTHERWISE BY THE PROJECT ENGINEER.

Scale : 1" = 20'

Scale : 1" = 20'



SHEET NUMBER		50	
DESIGNED	CRH	PARISH	ST. TAMMANY
CHECKED	RJB	CONTROL SECTION	000-52
DETAILED	BBS	PROJECT	EN18000011
CHECKED	RJB		
SERIES NUMBER	9 OF 11		
REVISION OR CHANGE ORDER DESCRIPTION	BY	DATE	
PAVEMENT MARKING LAYOUT			
SOULT ST. ROAD IMPROVEMENTS			



LEGEND




- (A) PERMANENT WHITE PLASTIC PAVEMENT STRIPING (SOLID LINE) (4" WIDTH)
- (B) PERMANENT YELLOW PLASTIC PAVEMENT STRIPING (SOLID LINE) (4" WIDTH)
- (C) PERMANENT WHITE PLASTIC PAVEMENT STRIPING (SOLID LINE) (8" WIDTH)
- (D) PERMANENT WHITE PLASTIC PAVEMENT STRIPING (TYPE B DOTTED LINE) (8" WIDTH)
- (E) PERMANENT WHITE PLASTIC PAVEMENT STRIPING (SOLID LINE) (24" WIDTH)
- (F) PERMANENT PLASTIC PAVEMENT LEGENDS AND SYMBOLS
- (G) REFLECTORIZED RAISED PAVEMENT MARKERS

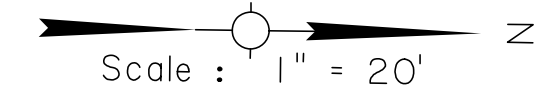
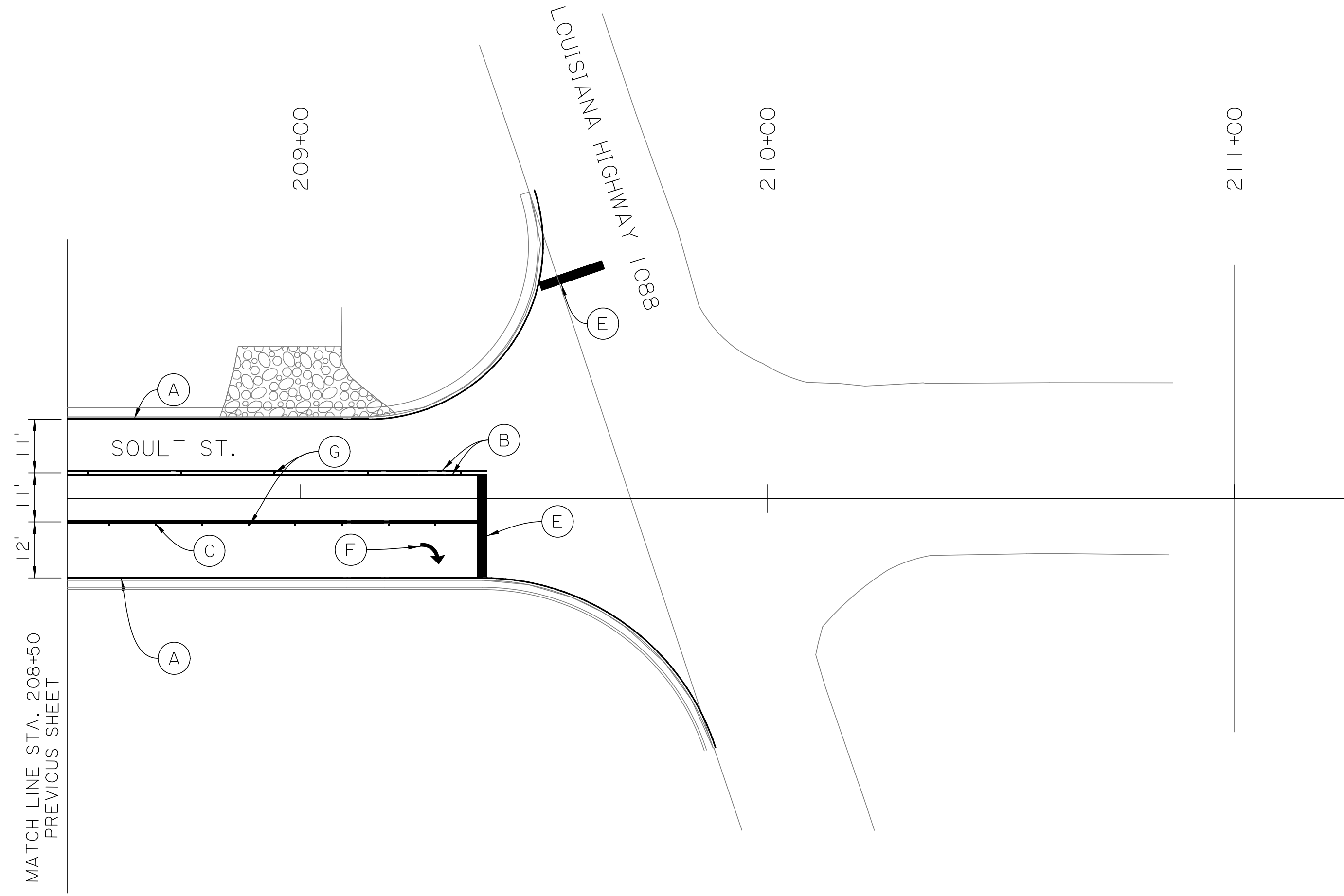
PAVEMENT MARKINGS SHALL COMPLY WITH DOTD STANDARD PLAN PM-01, PM-02, PM-04, PM-05, & PM-08 UNLESS DIRECTED OTHERWISE BY THE PROJECT ENGINEER.

Scale : 1" = 20'

Scale : 1" = 20'



SHEET NUMBER		51	
DESIGNED	CRH	PARISH	ST. TAMMANY
CHECKED	RJB	CONTROL SECTION	000-52
DETAILED	BBS	PROJECT	EN18000011
CHECKED	RJB		
SERIES NUMBER	10 OF 11		
REVISION OR CHANGE ORDER DESCRIPTION	BY		
NO.	DATE		
			
PAVEMENT MARKING LAYOUT			
SOULT ST. ROAD IMPROVEMENTS			
			
			



LEGEND

- (A) PERMANENT WHITE PLASTIC PAVEMENT STRIPING (SOLID LINE) (4" WIDTH)
- (B) PERMANENT YELLOW PLASTIC PAVEMENT STRIPING (SOLID LINE) (4" WIDTH)
- (C) PERMANENT WHITE PLASTIC PAVEMENT STRIPING (SOLID LINE) (8" WIDTH)
- (D) PERMANENT WHITE PLASTIC PAVEMENT STRIPING (TYPE B DOTTED LINE) (8" WIDTH)
- (E) PERMANENT WHITE PLASTIC PAVEMENT STRIPING (SOLID LINE) (24" WIDTH)
- (F) PERMANENT PLASTIC PAVEMENT LEGENDS AND SYMBOLS
- (G) REFLECTORIZED RAISED PAVEMENT MARKERS

PAVEMENT MARKINGS SHALL COMPLY WITH DOTD STANDARD PLAN PM-01, PM-02, PM-04, PM-05, & PM-08 UNLESS DIRECTED OTHERWISE BY THE PROJECT ENGINEER.

STATE OF LOUISIANA
 RANDAL J. BONURA
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 PROFESSIONAL ENGINEER
 IN
 CIVIL ENGINEERING
Randal J. Bonura
 1/8/2021

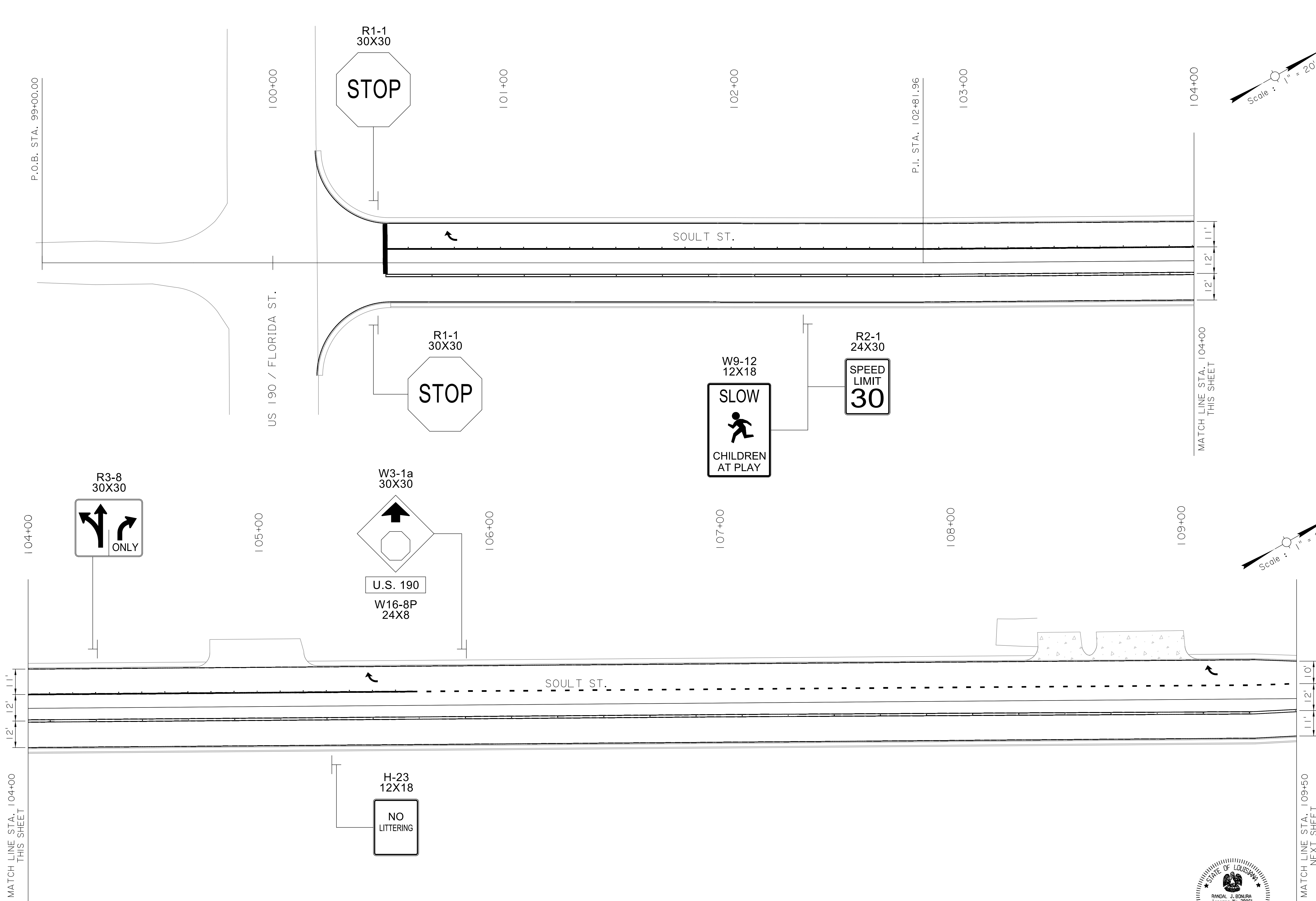
SHEET NUMBER		52	
DESIGNED	CRH	PARISH	ST. TAMMANY
CHECKED	RJB	CONTROL SECTION	000-52
DESIGNED	RJB	PROJECT	EN18000011
DETAILED	BBS		
CHECKED	RJB		
SERIES NUMBER	11 OF 11		
NO.	DATE	REVISION OR CHANGE ORDER DESCRIPTION	BY
PAVEMENT MARKING LAYOUT		SOULT ST. ROAD IMPROVEMENTS	

100% FINAL PLANS

69440_Signs.dgn

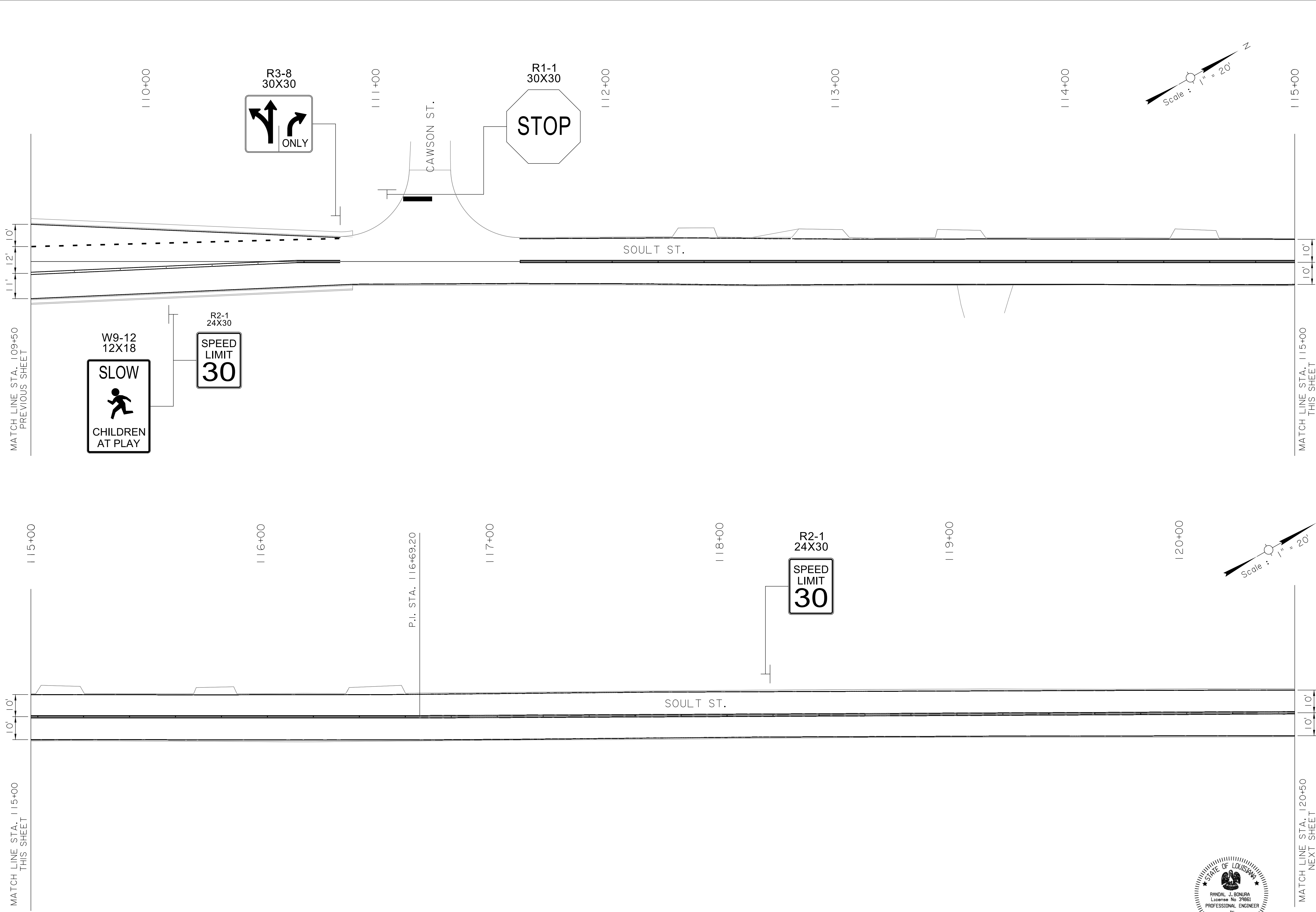
1/8/2021

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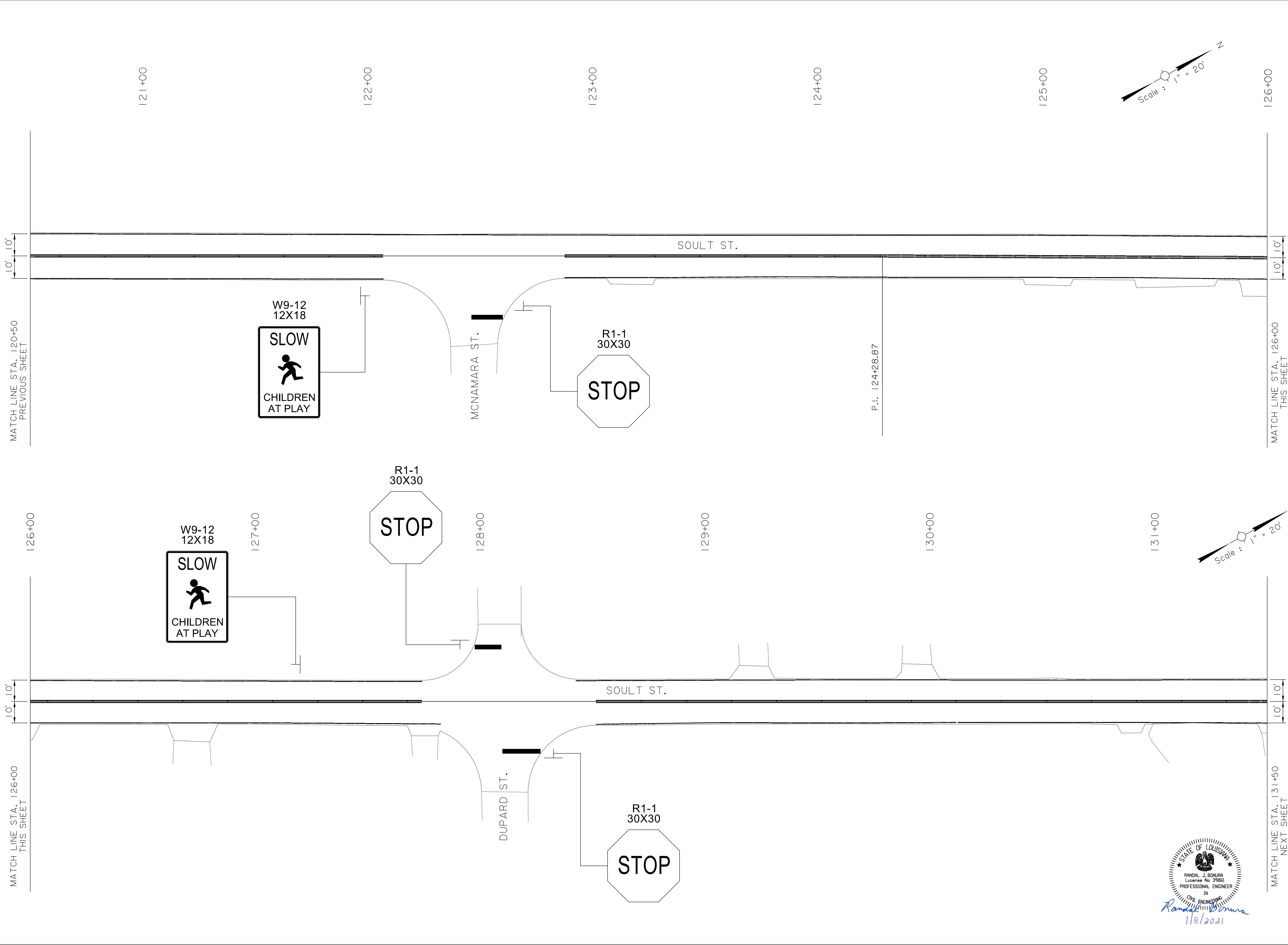
STATE OF LOUISIANA
 RANDAL J. BONURA
 License No. 39821
 PROFESSIONAL ENGINEER
 IN
 CIVIL ENGINEERING
Randal J. Bonura
 1/8/2021

SHEET NUMBER		53	
DESIGNED	CRH	PARISH	ST. TAMMANY
CHECKED	RJB	CONTROL SECTION	000-52
DETAILED	RJB	PROJECT	EN18000011
CHECKED	RJB		
SERIES NUMBER	1 OF 11		
NO.	DATE	REVISION OR CHANGE ORDER DESCRIPTION	BY
PAVEMENT MARKING LAYOUT		SOULT ST. ROAD IMPROVEMENTS	



STATE OF LOUISIANA
 RANDAL J. BONURA
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 1/8/2021

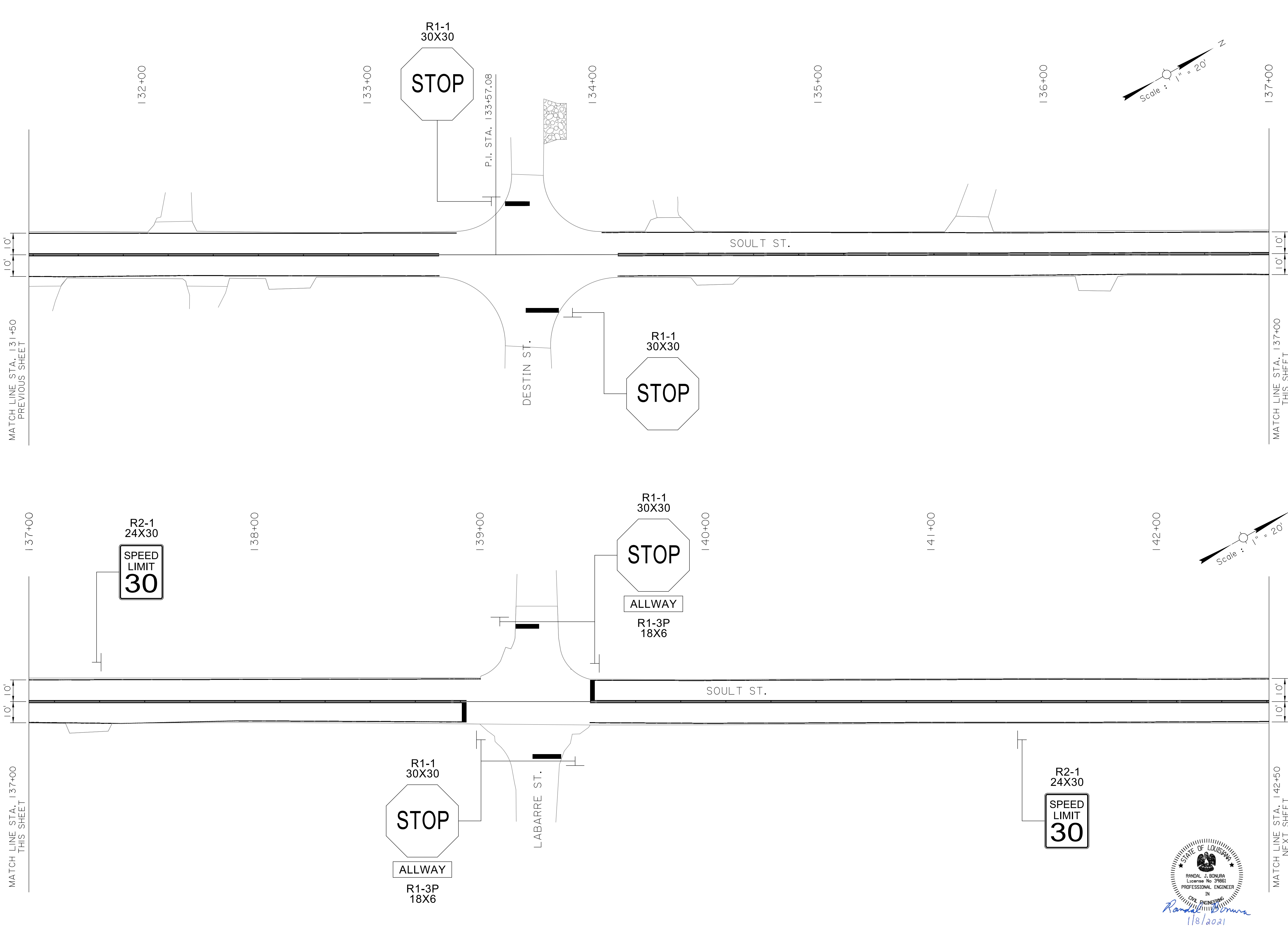
SHEET NUMBER		54	
DESIGNED	CRH	PARISH	ST. TAMMANY
CHECKED	RJB	CONTROL SECTION	000-52
DETAILED	BBS	PROJECT	EN18000011
CHECKED	RJB		
SERIES NUMBER	2 OF 11		
NO.	DATE	REVISION OR CHANGE ORDER DESCRIPTION	BY
PAVEMENT MARKING LAYOUT		SOULT ST. ROAD IMPROVEMENTS	



Randal J. Bonura

 1/8/2021

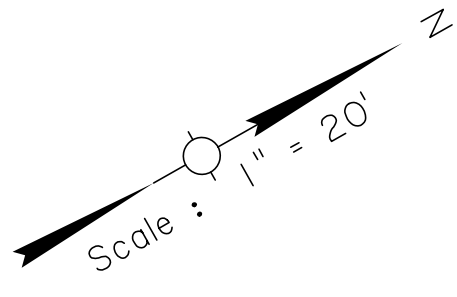
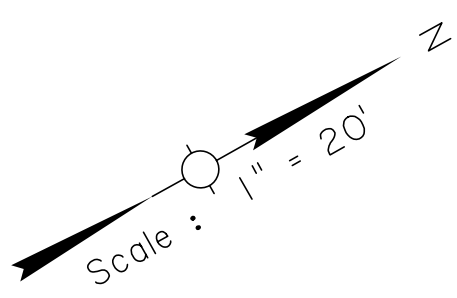
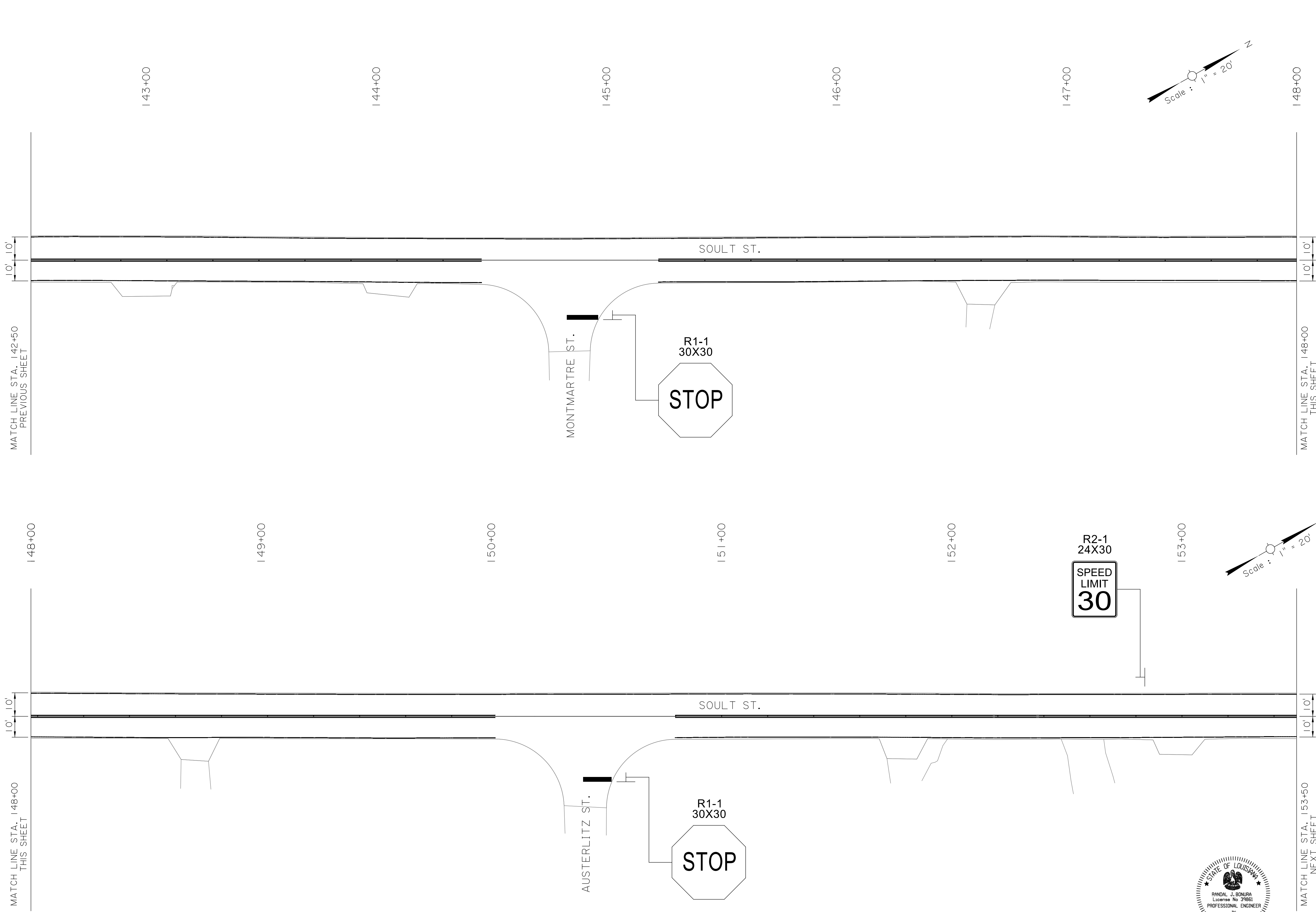
SHEET NUMBER		5
DESIGNED	CRH	
CHECKED	RJB	
DETAILED	BBS	
CHECKED	RJB	
SERIES NUMBER	3	OF 11
NO.	DATE	BY
REVISION OR CHANGE ORDER DESCRIPTION		
PAVEMENT MARKING LAYOUT		
SOULT ST. ROAD IMPROVEMENTS		
PARISH	ST. TAMMANY	
CONTROL SECTION	000-52	
PROJECT	EN18000011	






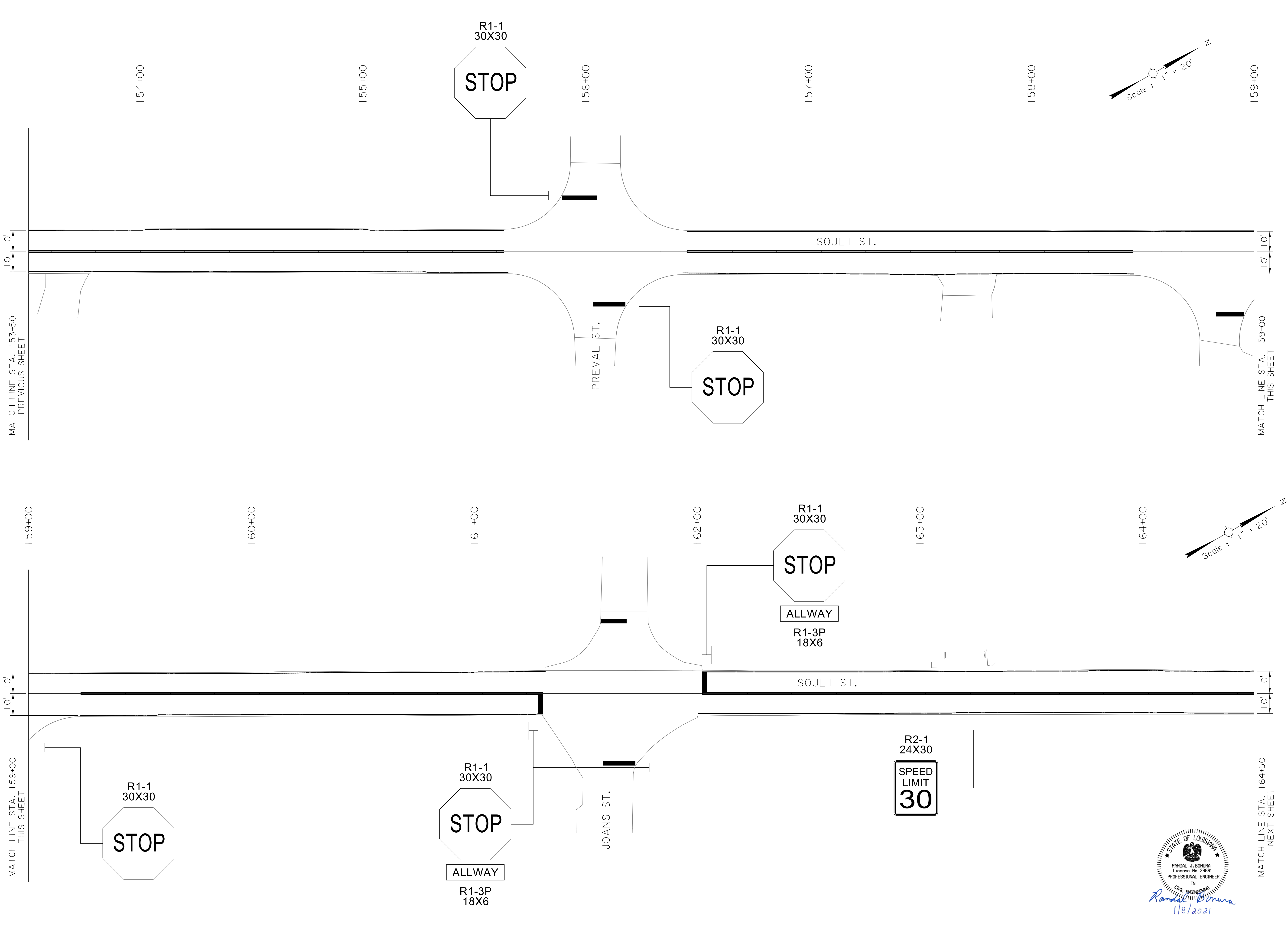
Randal J. Bonura

 1/8/2021

SHEET NUMBER		56	
DESIGNED	CRH	PARISH	ST. TAMMANY
CHECKED	RJB	CONTROL SECTION	000-52
DETAILED	BBS	PROJECT	EN18000011
CHECKED	RJB		
SERIES NUMBER	4 OF 11		
REVISION OR CHANGE ORDER DESCRIPTION			
NO.	DATE	BY	
SOULT ST. ROAD IMPROVEMENTS			
PAVEMENT MARKING LAYOUT			

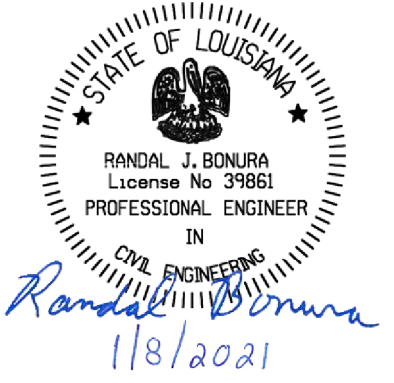
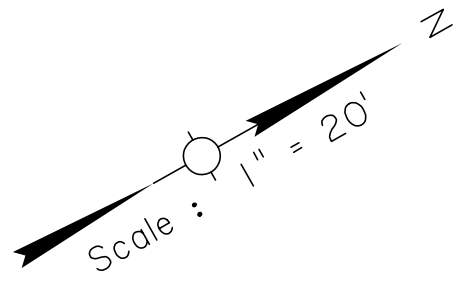
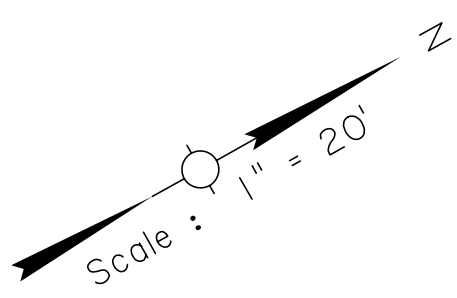
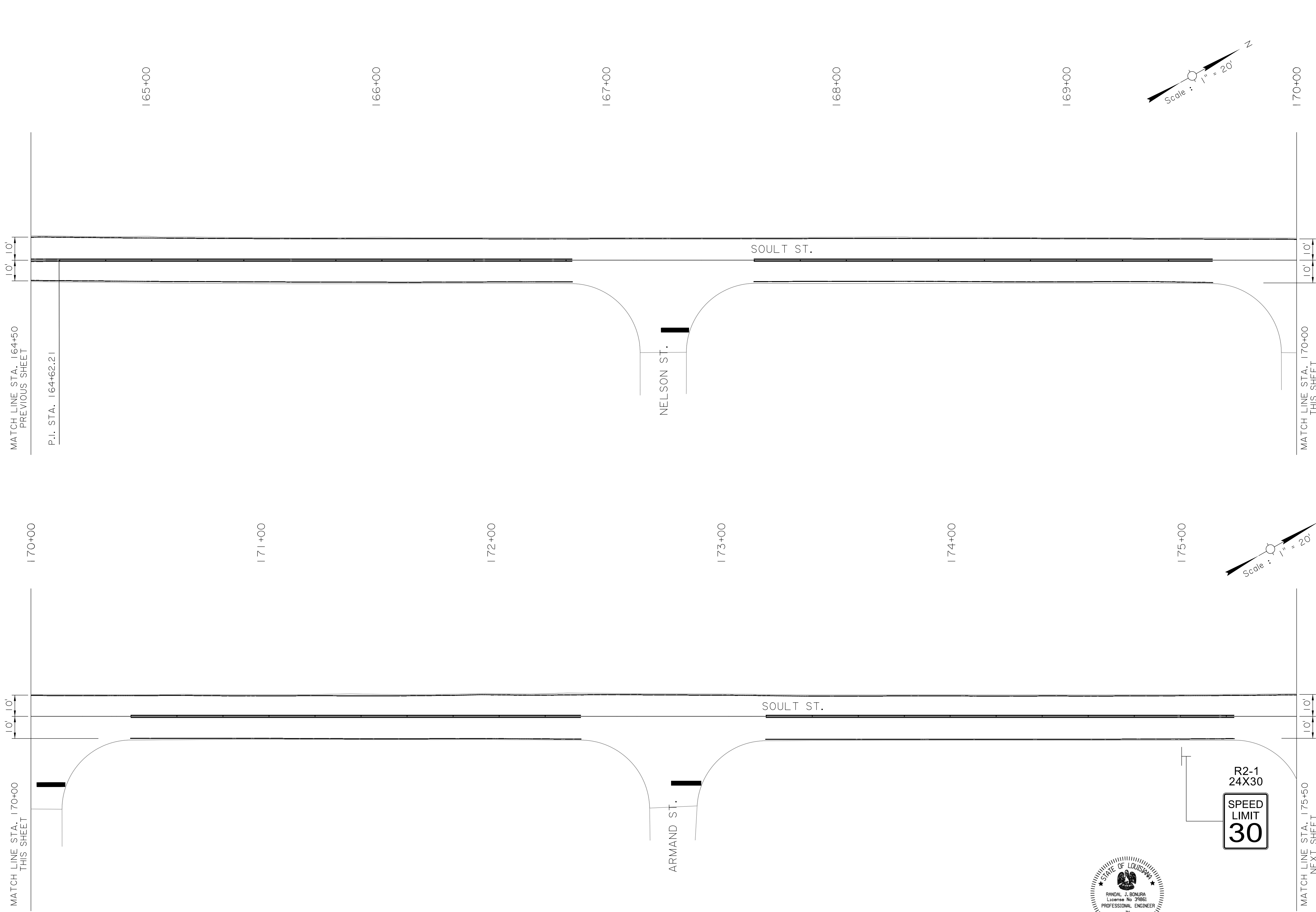


SHEET NUMBER		57	
DESIGNED	CRH	PARISH	ST. TAMMANY
CHECKED	RJB	CONTROL SECTION	000-52
DETAILED	BBS	PROJECT	EN18000011
CHECKED	RJB		
SERIES NUMBER	5 OF 11		
NO.	DATE	REVISION OR CHANGE ORDER DESCRIPTION	BY
			
PAVEMENT MARKING LAYOUT			
SOULT ST. ROAD IMPROVEMENTS			
			

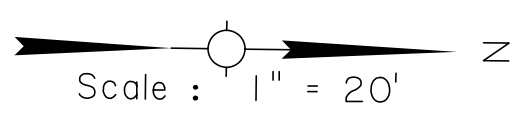
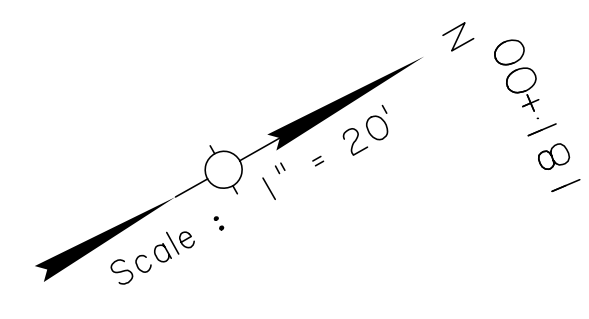
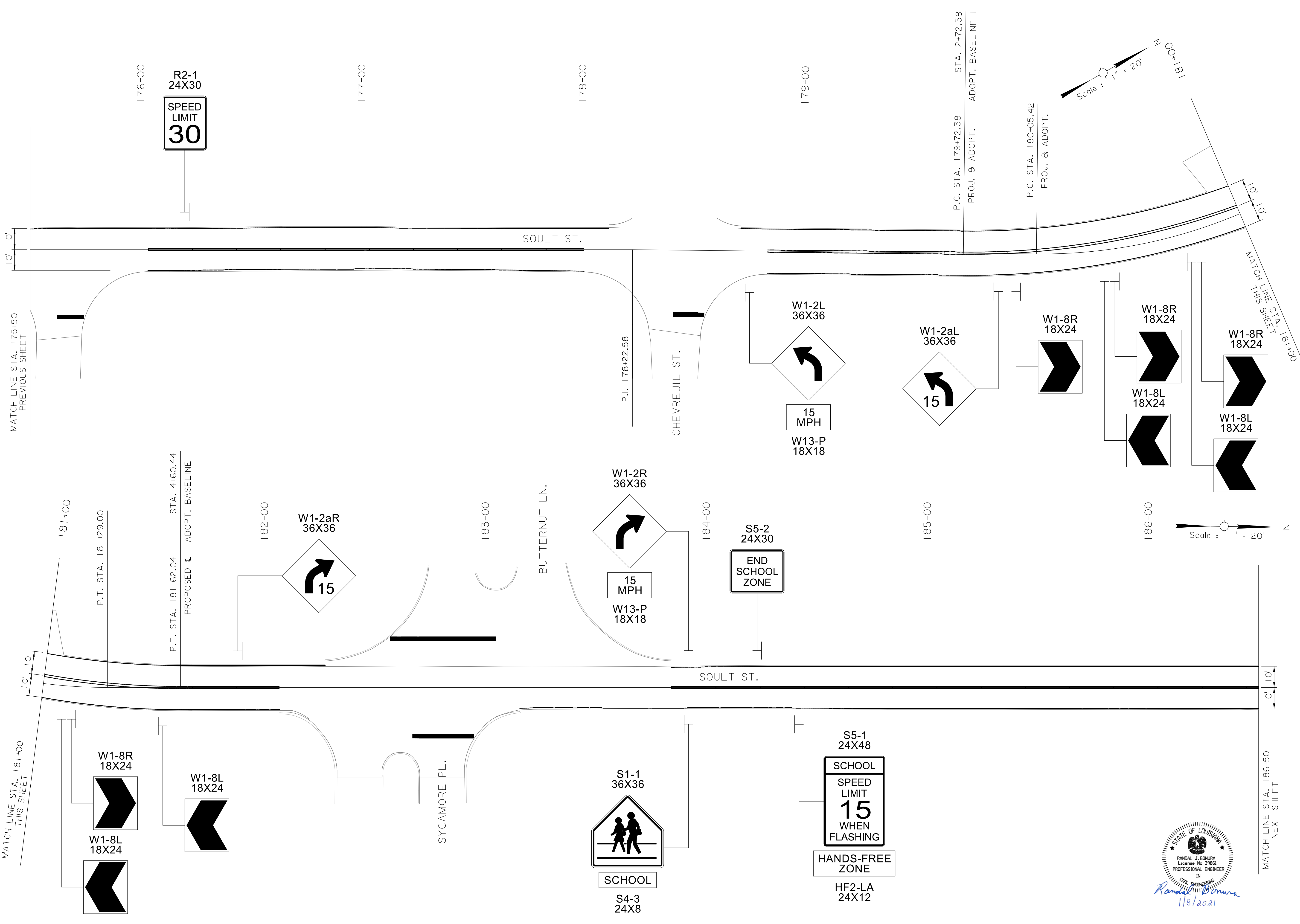


STATE OF LOUISIANA
 RANDAL J. BONURA
 License No. 39851
 PROFESSIONAL ENGINEER
 IN
 CIVIL ENGINEERING
Randal J. Bonura
 1/8/2021

SHEET NUMBER		58	
DESIGNED	CRH	PARISH	ST. TAMMANY
CHECKED	RJB	CONTROL SECTION	000-52
DETAILED	BBS	PROJECT	EN18000011
CHECKED	RJB	SERIES NUMBER	6 OF 11
REVISION OR CHANGE ORDER DESCRIPTION		NO.	DATE
SOULT ST. ROAD IMPROVEMENTS		BY	
PAVEMENT MARKING LAYOUT			



SHEET NUMBER		59	
DESIGNED	CRH	PARISH	ST. TAMMANY
CHECKED	RJB	CONTROL SECTION	000-52
DETAILED	BBS	PROJECT	EN18000011
CHECKED	RJB		
SERIES NUMBER	7 OF 11		
NO.	DATE	REVISION OR CHANGE ORDER DESCRIPTION	BY
PAVEMENT MARKING LAYOUT		SOULT ST. ROAD IMPROVEMENTS	
HNTB		LEWIS & CLARK	



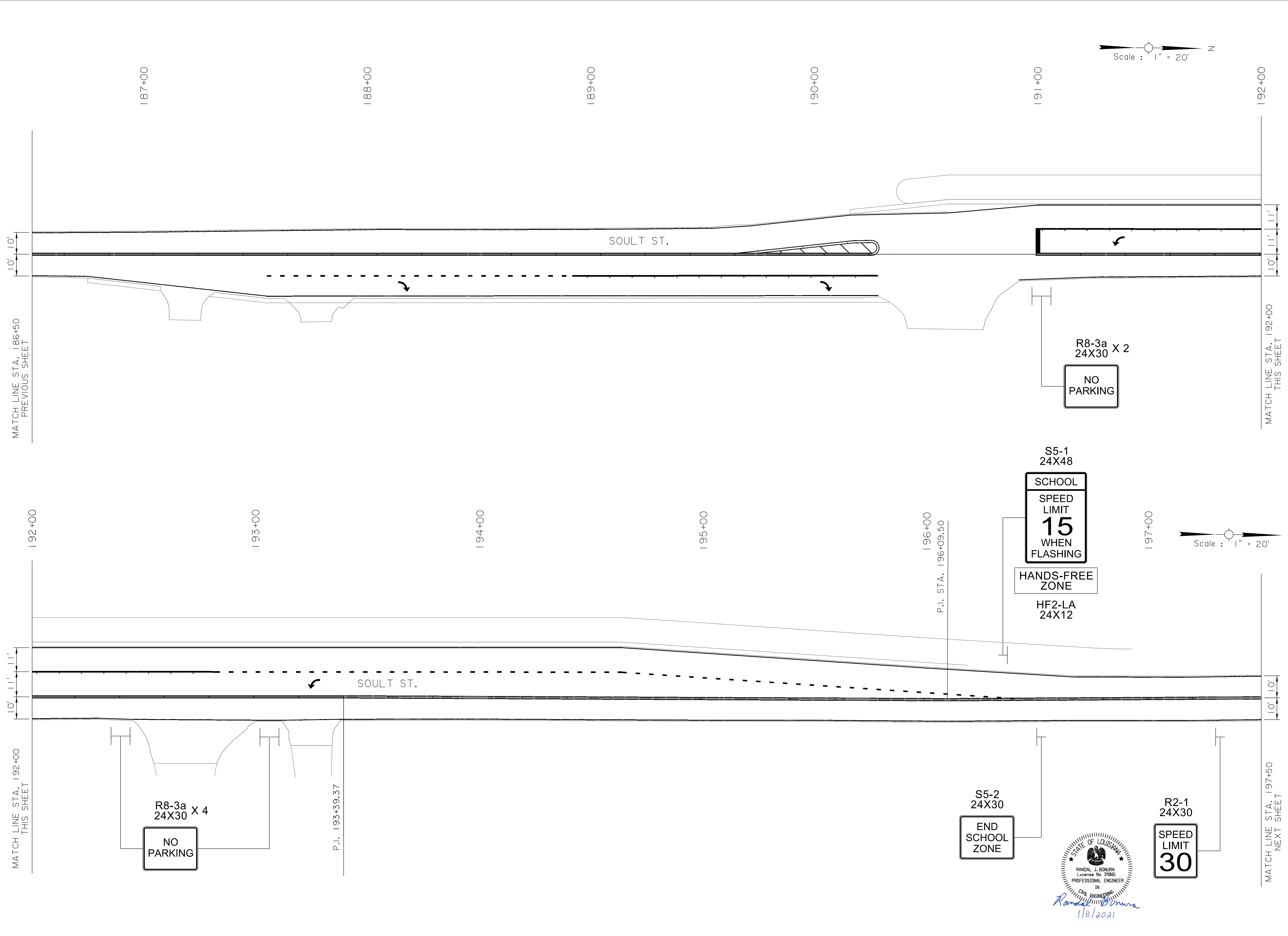
MATCH LINE STA. 175+50 PREVIOUS SHEET




MATCH LINE STA. 181+00 THIS SHEET

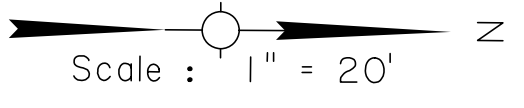
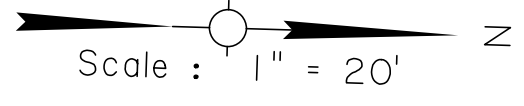
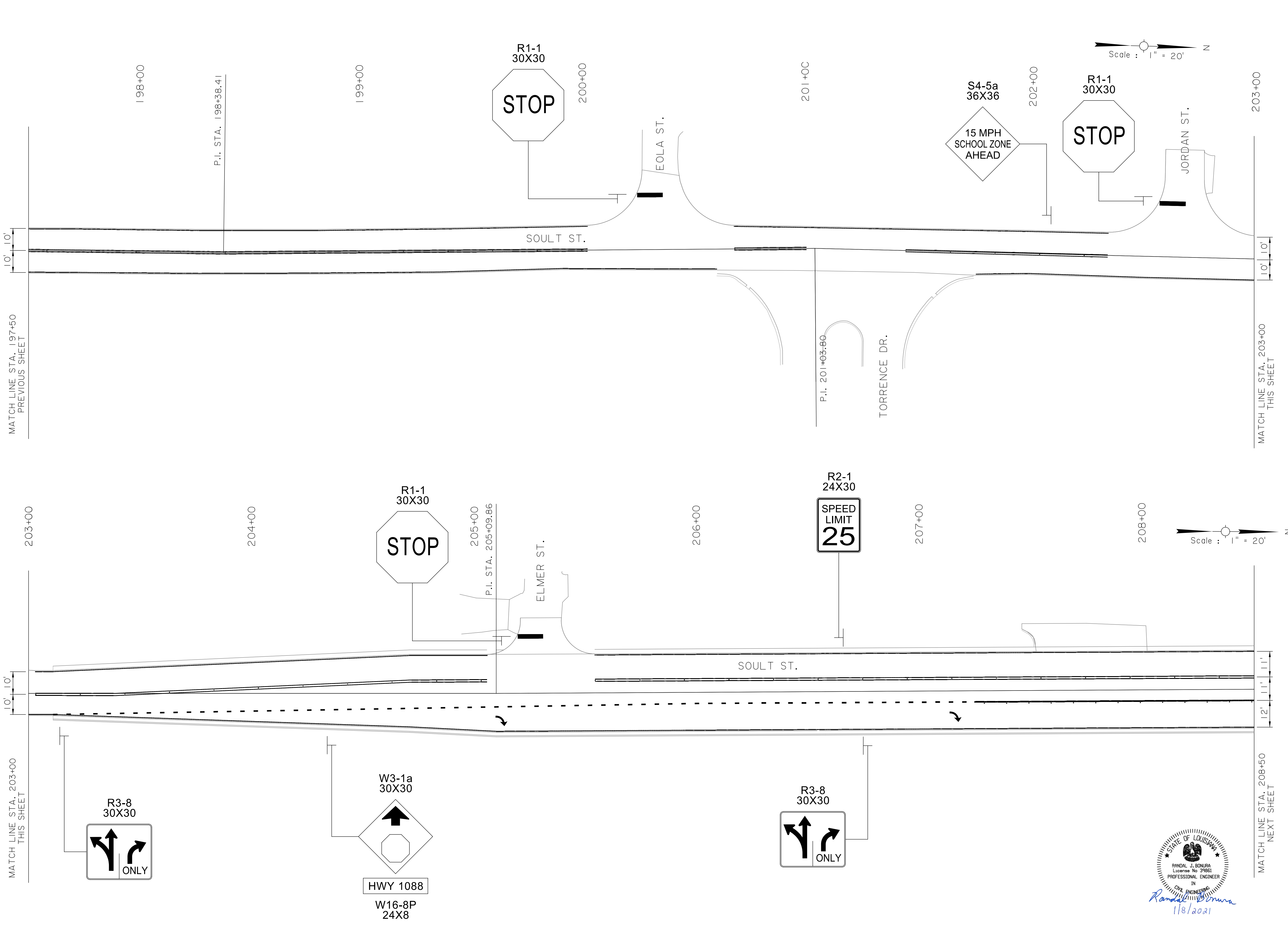
MATCH LINE STA. 186+50 NEXT SHEET

MATCH LINE STA. 181+00 THIS SHEET

SHEET NUMBER		60	
DESIGNED	CRH	PARISH	ST. TAMMANY
CHECKED	RJB	CONTROL SECTION	000-52
DETAILED	BBS	CHECKED	RJB
SERIES NUMBER	8 OF 11	PROJECT	EN18000011
REVISION OR CHANGE ORDER DESCRIPTION			
NO.	DATE	BY	
SOULT ST. ROAD IMPROVEMENTS			
PAVEMENT MARKING LAYOUT			



SHEET NUMBER		61	
DESIGNED	CRH	PARISH	ST. TAMMANY
CHECKED	RJB	CONTROL SECTION	000-52
DETAILED	BBS	PROJECT	EN18000011
CHECKED	RJB	SERIES NUMBER	9 OF 11
REVISION OR CHANGE ORDER DESCRIPTION		NO.	DATE
		BY	
PAVEMENT MARKING LAYOUT			
SOULT ST. ROAD IMPROVEMENTS			
			
			
			



MATCH LINE STA. 197+50
PREVIOUS SHEET

MATCH LINE STA. 203+00
THIS SHEET

MATCH LINE STA. 203+00
THIS SHEET

MATCH LINE STA. 208+50
NEXT SHEET

SHEET NUMBER		62	
DESIGNED	CRH	PARISH	ST. TAMMANY
CHECKED	RJB	CONTROL SECTION	000-52
DETAILED	BBS	CHECKED	RJB
SERIES NUMBER	10 OF 11	PROJECT	EN18000011
REVISION OR CHANGE ORDER DESCRIPTION		NO.	DATE
SOULT ST. ROAD IMPROVEMENTS			
PAVEMENT MARKING LAYOUT		BY	

Randal J. Bonura

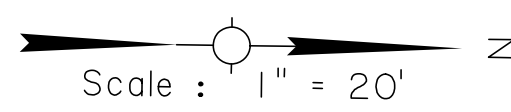
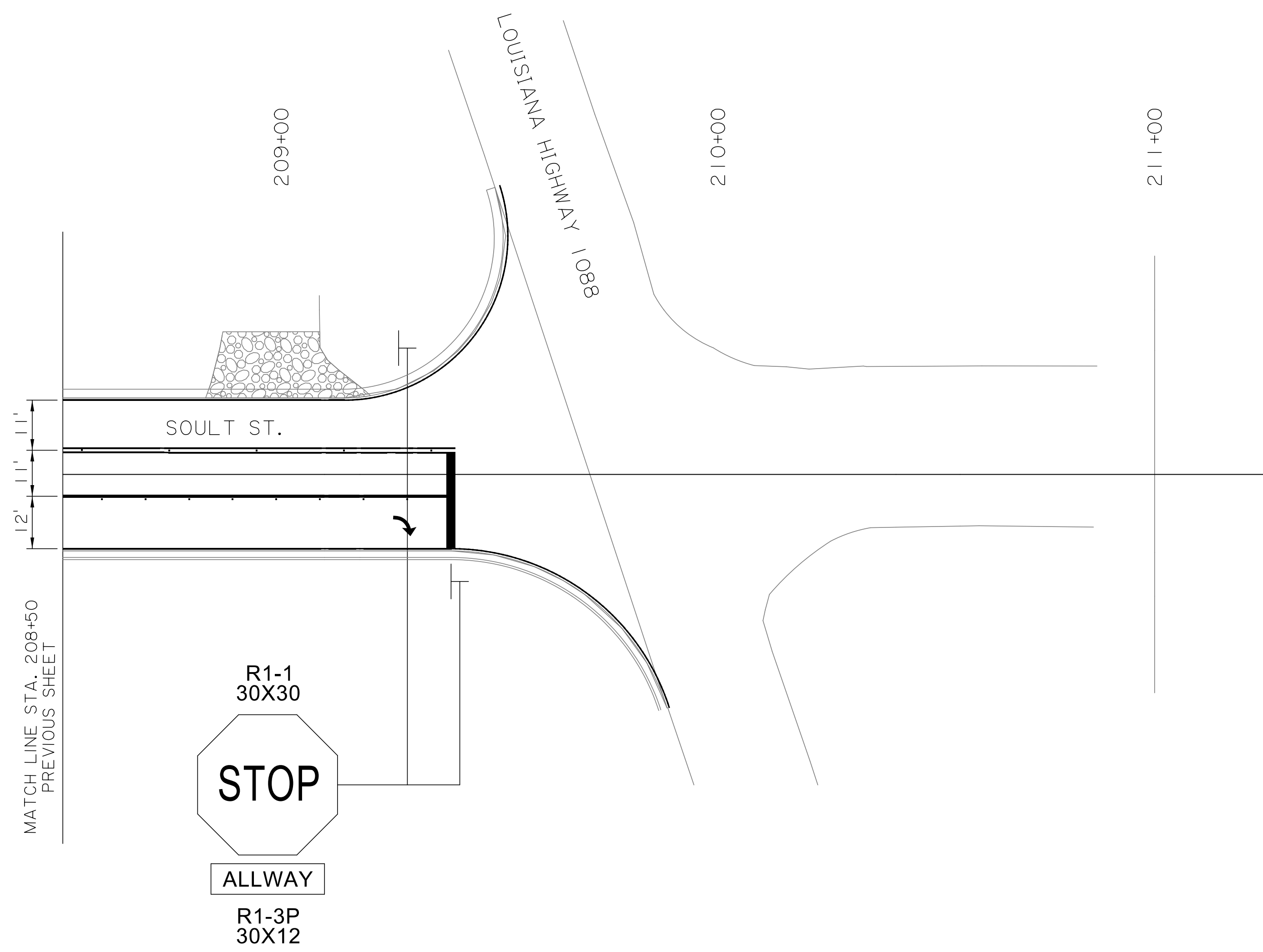
 1/8/2021

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1/8/2021

2:02:41 PM






STATE OF LOUISIANA
 RANDAL J. BONURA
 License No. 93851
 PROFESSIONAL ENGINEER
 IN
 CIVIL ENGINEERING
Randal J. Bonura
 1/8/2021

SHEET NUMBER		63	
DESIGNED	CRH	PARISH	ST. TAMMANY
CHECKED	RJB	CONTROL SECTION	000-52
DETAILED	BBS	PROJECT	EN18000011
CHECKED	RJB		
SERIES NUMBER	11 OF 11		
NO.	DATE	REVISION OR CHANGE ORDER DESCRIPTION	BY
PAVEMENT MARKING LAYOUT		SOULT ST. ROAD IMPROVEMENTS	
HNTB			

SUGGESTED SEQUENCE OF CONSTRUCTION

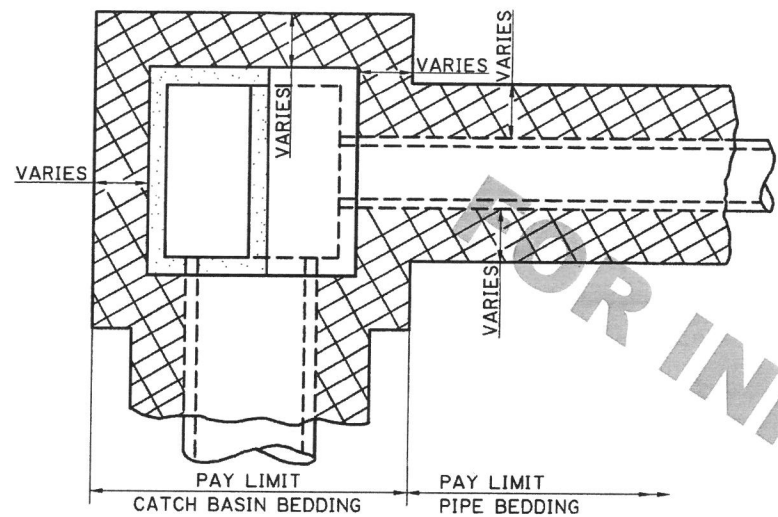
1. THE SUGGESTED SEQUENCE OF CONSTRUCTION SHOULD GENERALLY CONSIST OF THE FOLLOWING:
 - a. SOULT STREET: WHILE MAINTAINING A MINIMUM OF ONE LANE, ONE WAY TRAFFIC ADJACENT TO HIS WORK, THE CONTRACTOR SHALL COMPLETE FULL DEPTH PAVEMENT REPLACEMENT, MILL AND OVERLAY, ASPHALT PAVEMENT PATCHING AND REPAIRS AS SHOWN IN THE PLANS OR AS DIRECTED BY THE PROJECT ENGINEER. THE CONTRACTOR SHALL USE A MOVING OPERATION WITH FLAGGERS WHILE PERFORMING THE WORK.
 - b. MINOR STREETS INTERSECTING SOULT STREET: WHILE MAINTAINING ONE LANE OF TRAFFIC ADJACENT TO HIS WORK, THE CONTRACTOR SHALL COMPLETE FULL DEPTH PAVEMENT REPLACEMENT, MILL AND OVERLAY EXISTING ASPHALT CONCRETE AND REPAIRS AS SHOWN IN THE PLANS OR AS DIRECTED BY THE PROJECT ENGINEER. THE CONTRACTOR SHALL UTILIZE FLAGGERS TO SAFELY MAINTAIN TRAFFIC PAST THE WORK AREA.
 - c. AFTER THE CONTRACTOR MILLS THE EXISTING SURFACE, THE PROJECT ENGINEER SHALL INSPECT THE REMAINING ASPHALT CONCRETE THICKNESS. SHOULD AREAS EXIST WITH ONE INCH OR LESS OF ASPHALT CONCRETE, THE PROJECT ENGINEER SHALL INSTRUCT THE CONTRACTOR AS TO WHICH AREAS SHALL BE MILLED TO REMOVE ADDITIONAL ASPHALT CONCRETE. THE CONTRACTOR SHALL REMOVE THE REMAINING ASPHALT CONCRETE AS INSTRUCTED AT THE CONTRACT UNIT PRICE FOR MILLING ASPHALT PAVEMENT ITEM 509-01-00100.
 - d. AFTER COMPLETION OF THE MILLING OPERATIONS, PROOF ROLLING OF THE ROADWAY SURFACE MAY BE REQUIRED AT THE DISCRETION OF THE ENGINEER TO LOCATE UNSTABLE AREAS.
 - e. THE PROJECT ENGINEER OR HIS DESIGNEE SHALL INSPECT, IDENTIFY AND ADEQUATELY MARK PAVEMENT AREAS TO BE REPAIRED BY PAVEMENT PATCHING. THE PAVEMENT PATCHING REPAIRS WILL CONSIST OF PAVEMENT REPAIR AS PRESENTED IN THE PLANS AND SPECIFICATIONS OR AS DIRECTED BY THE PROJECT ENGINEER.
 - f. AFTER MILLING AND PATCHING OPERATIONS ARE COMPLETE, THE PROJECT ENGINEER SHALL IDENTIFY ANY AREAS THAT REQUIRE LEVELING TO ADJUST THE CROSS SLOPE OR LONGITUDINAL GRADE OF THE PAVEMENT SURFACE. DURING THIS PHASE, ADJUSTMENTS OF ALL UTILITY STRUCTURES (IF REQUIRED) OR AS DIRECTED BY THE PROJECT ENGINEER SHALL BE DONE.
 - g. THE ROADWAYS DESIGNATED FOR ASPHALT PAVEMENT OR OVERLAYS SHALL BE OVERLAID WITH TWO INCHES (AVG. DEPTH) OF ASPHALT CONCRETE. ONE LANE SHALL REMAIN OPEN ON ALL STREETS WITH MOVING OPERATING AND FLAGGERS TO SAFELY MAINTAIN TRAFFIC PAST THE WORK AREA.
2. THE CONTRACTOR SHALL SUBMIT A SEQUENCE OF CONSTRUCTION AND TRAFFIC CONTROL PLAN TO THE PROJECT ENGINEER FOR REVIEW, COORDINATION, AND APPROVAL BY THE DEPARTMENT OF PUBLIC WORKS PRIOR TO THE START OF CONSTRUCTION. TRAFFIC CONTROL PLAN SHALL INCLUDE DETOUR SIGNS AND ADVANCED WARNING SIGNAGE FOR ALL SIDEROADS.
3. THE CONTRACTOR MAY CHOOSE TO CLOSE A PORTION OF THE ROADWAY AS WITH MOVING OPERATIONS AND IN ACCORDANCE WITH HIS APPROVED WORK PLAN, CONSTRUCTING THE REQUIRED REPAIRS, AND PROGRESSING ALONG THE PROJECT WHILE MAINTAINING TRAFFIC IN AT LEAST ONE LANE ADJACENT TO HIS WORK.
4. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL RESIDENTIAL STREETS FOR THE DURATION OF THE PROJECT. WHEN A CLOSURE IS REQUIRED, THE CONTRACTOR SHALL COORDINATE WITH THE PROJECT ENGINEER TO SCHEDULE CLOSURE TIME AND DURATION.

STATE OF LOUISIANA
 RANDAL J. BONURA
 License No. 39851
 PROFESSIONAL ENGINEER
 IN
 CIVIL ENGINEERING
Randal J. Bonura
 1/8/2021

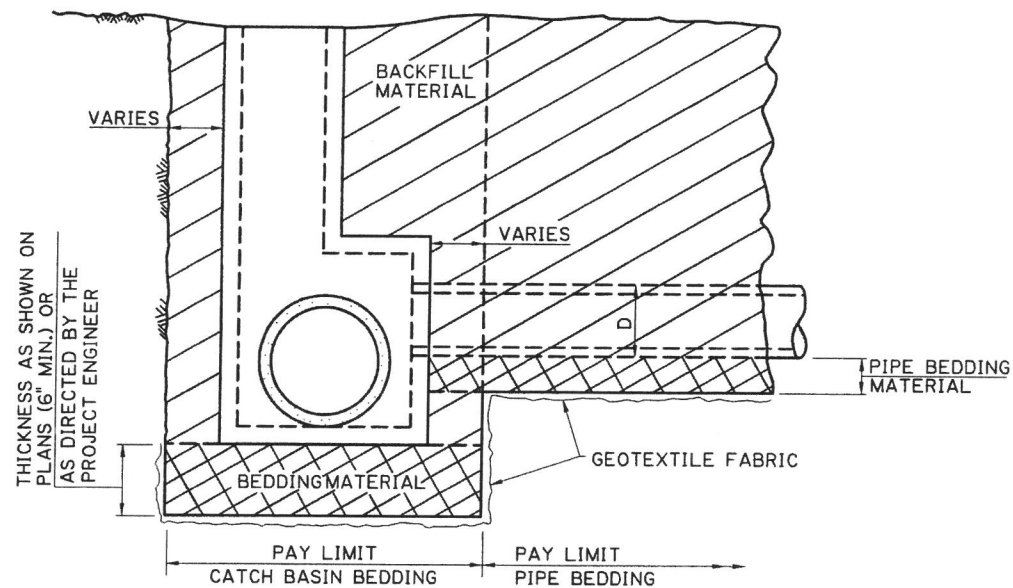
SHEET NUMBER		64	
DESIGNED	CRH	PARISH	ST. TAMMANY
CHECKED	RJB	CONTROL SECTION	000-52
DETAILED	BBS	PROJECT	EN18000011
CHECKED	RJB		
SERIES NUMBER	1 OF 1		
NO.		REVISION OR CHANGE ORDER DESCRIPTION	
DATE		BY	
SUGGESTED SEQUENCE OF CONSTRUCTION		SOULT ST. ROAD IMPROVEMENTS	
			
			

R:\Standard Plans\English\New sheets\BM-01 (SHEET 1).dgn 28-NOV-2007 09:29

TYPICAL CATCH BASIN AND STORM SEWER PIPE INSTALLATION WITH BEDDING MATERIAL

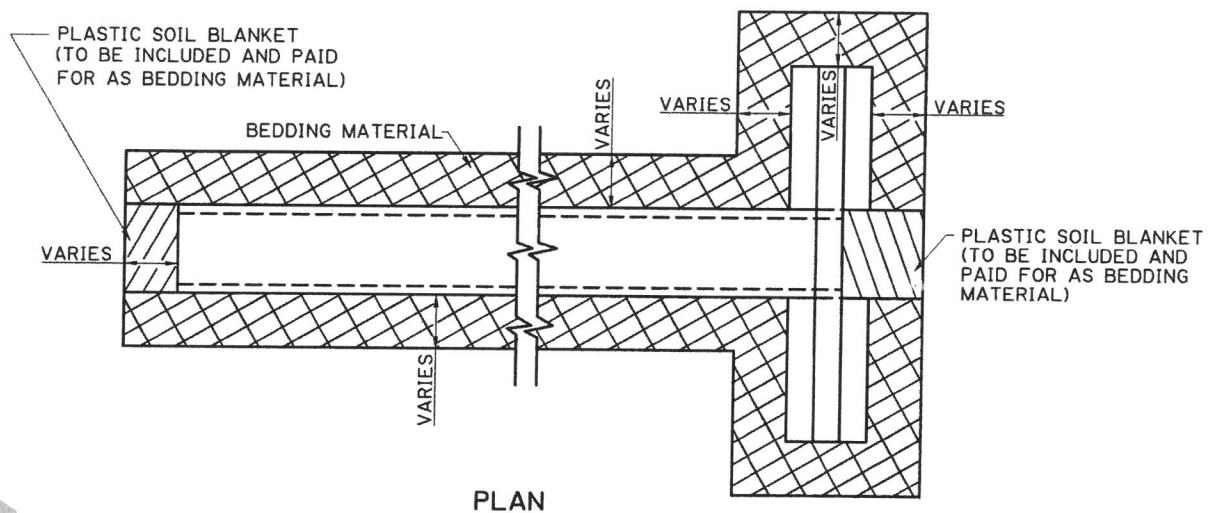


PLAN OF TYPICAL CATCH BASIN (MANHOLE OR JUNCTION BOX) AND PIPE

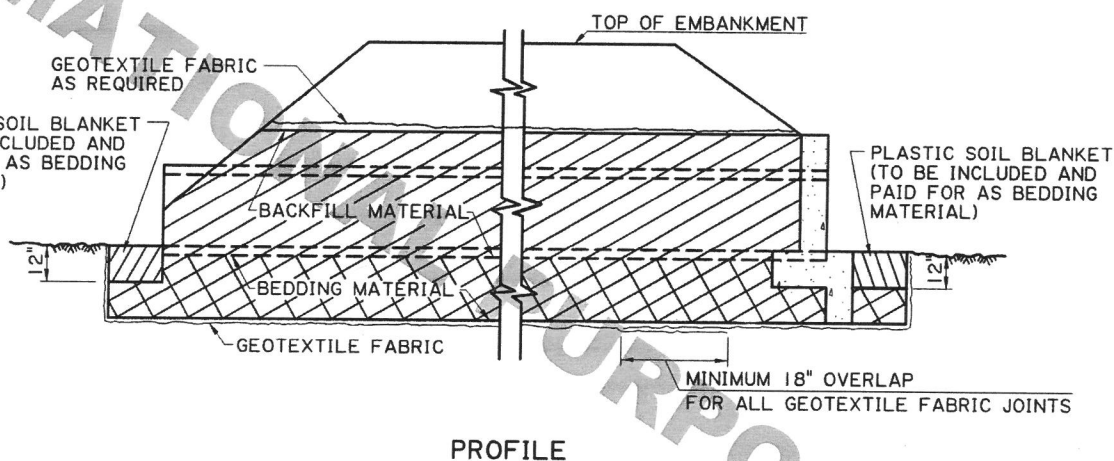


PROFILE OF TYPICAL CATCH BASIN (MANHOLE OR JUNCTION BOX) AND PIPE

TYPICAL CROSS DRAIN INSTALLATION WITH BEDDING MATERIAL

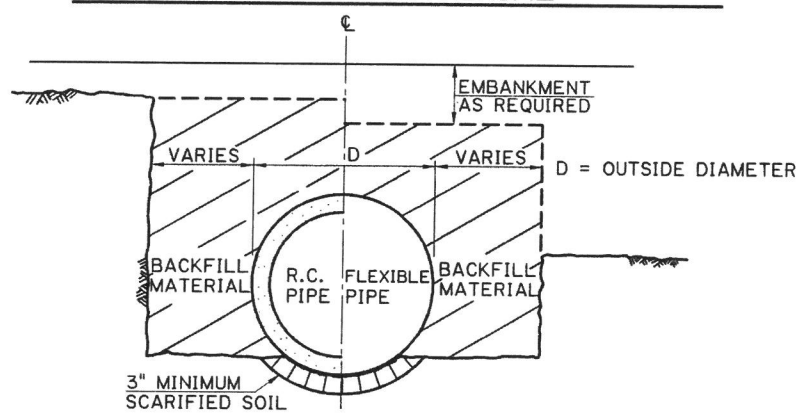


PLAN



PROFILE

TYPICAL PIPE INSTALLATION WITHOUT BEDDING MATERIAL





SECTION THRU TRENCH/EMBANKMENT

HALF-SECTION SHOWING TOP OF PIPE GREATER THAN 12" BELOW ORIGINAL GROUND (TRENCH INSTALLATION) | HALF-SECTION SHOWING TOP OF PIPE ABOVE ORIGINAL GROUND (EMBANKMENT INSTALLATION)

GENERAL NOTES

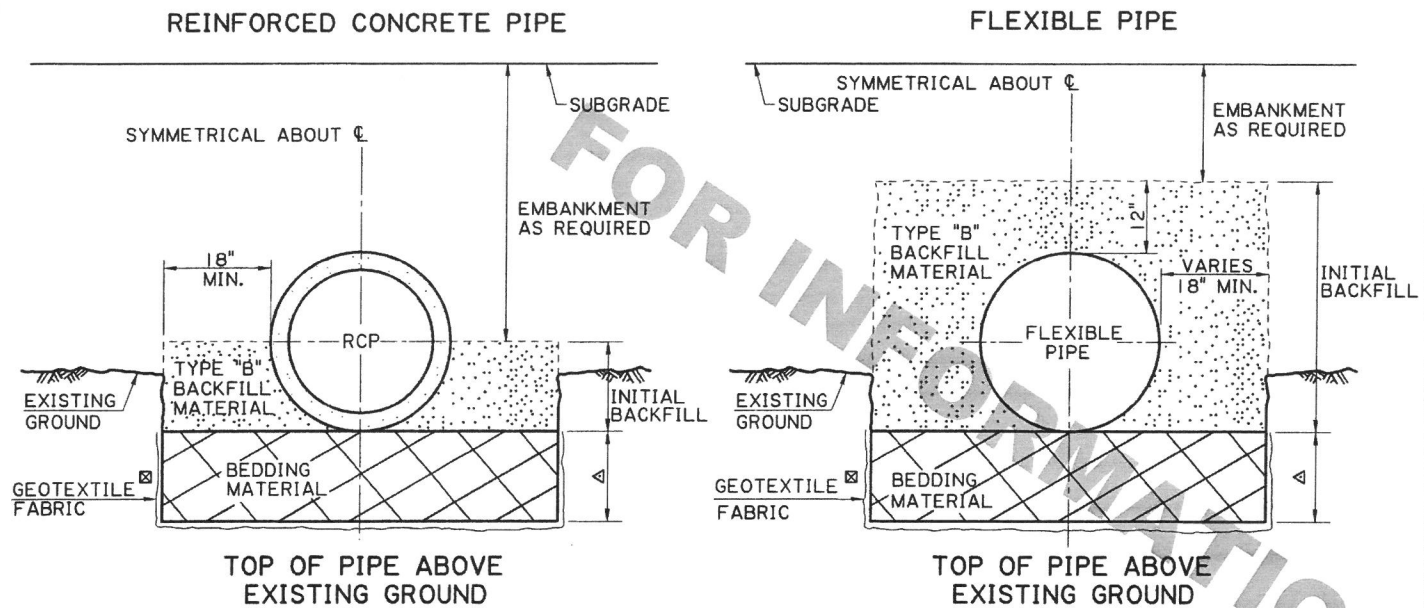
1. CONSTRUCTION SPECIFICATIONS; LATEST APPROVED LA DOTD STANDARD SPECIFICATIONS
2. STANDARD DOTD PIPE INSTALLATION, BEDDING, BACKFILL (TYPE "A" OR "B") AND TRENCH WIDTH ARE DEFINED IN SECTIONS 701 AND 726 OF THE LA DOTD STANDARD SPECIFICATIONS.
3. THE NEED AND/OR THE THICKNESS OF BEDDING MATERIAL WILL BE DETERMINED BY THE GEOTECHNICAL SECTION AND WILL BE SHOWN ON THE PLANS. ADDITIONAL BEDDING MATERIAL MAY BE REQUIRED BY THE PROJECT ENGINEER AT NO COST TO THE CONTRACTOR.
4. THE DETAILS ON THIS SHEET DEPICT PAY LIMITS FOR BEDDING MATERIALS. THE BEDDING MATERIAL PAY QUANTITIES ARE TO BE BASED ON THE THEORETICAL NET SECTION WITH NO PIPE DEDUCTIONS.
5. THE BACKFILL IS TO BE MEASURED AND PAID IN ACCORDANCE WITH SECTION 701 OF LA DOTD STANDARD SPECIFICATIONS.
6. BEDDING SHOWN ON THIS STANDARD PLAN CONFORMS TO THE CURRENT AASHTO SPECIFICATIONS.
7. FLEXIBLE PIPE CONSISTS OF ALL CORRUGATED METAL AND PLASTIC PIPE.
8. REINFORCED CONCRETE PIPE AND FLEXIBLE PIPE ARE SHOWN AS TYPICAL STRUCTURES. DETAILS FOR REINFORCED CONCRETE BOX, REINFORCED CONCRETE PIPE ARCH, CORRUGATED METAL PIPE ARCH AND CORRUGATED STRUCTURAL PLATE STRUCTURES ARE SIMILAR.
9. MINIMUM COVER IS 12" FOR ALL PIPE. THERE IS NO MINIMUM COVER REQUIREMENT FOR RCB.

SHEET NUMBER		201	
DESIGNED	CHECKED	DATE	BY
JDK	JDK	8-22-07	W. D. Temple
REVISION TO COMPLY WITH CURRENT SPECIFICATIONS	ADDED FINAL AND INITIAL BACKFILL	REVISION DESCRIPTION	DATE
8-22-07	1-8-07	REVISOR	DATE
7-11-05		W. D. Temple	8-22-07
APPROVED BY		DATE	
CHIEF ENGINEER		8-22-07	
			
BEDDING AND BACKFILL FOR DRAINAGE STRUCTURES			
STANDARD UNIT		BM-01	
			
HYDRAULICS SECTION			

TYPICAL PIPE INSTALLATION WITH BEDDING MATERIAL

EMBANKMENT INSTALLATION

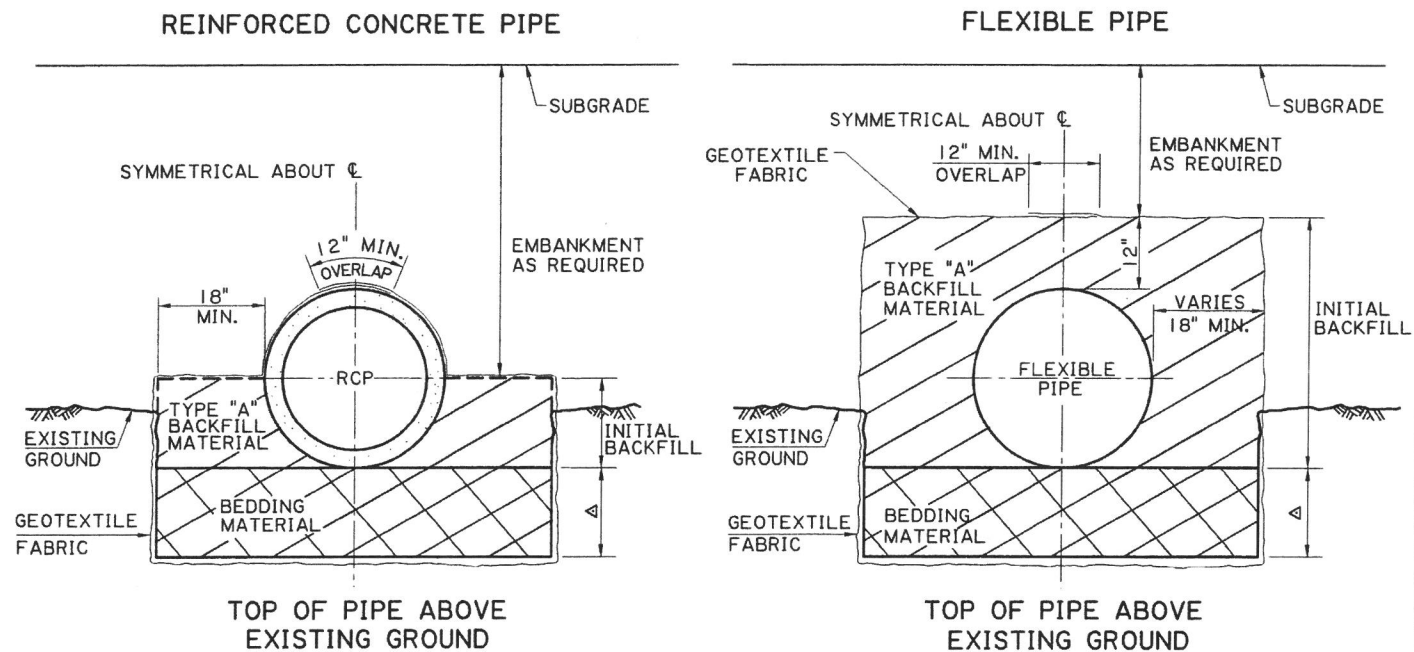
① FOR RIGID PAVEMENTS, FLEXIBLE PAVEMENTS OR OTHER AREAS



① FOR RIGID PAVEMENTS: APPLIES TO ALL PIPE UNDER RIGID PAVEMENT, EXCEPT AS NOTED FOR FLEXIBLE PAVEMENT NOTE ③ BELOW.
 FOR FLEXIBLE PAVEMENTS: APPLIES TO PIPES THAT DO NOT CROSS THE CENTERLINE OF NEW OR EXISTING ROADWAY
 FOR OTHER AREAS: APPLIES TO PIPES IN NONPAVED AREAS OR PAVED AREAS THAT SERVE AS DRIVEWAYS OR SHOULDERS

⊠ IF DIRECTED BY THE PROJECT ENGINEER, GEOTEXTILE FABRIC WILL BE INSTALLED AROUND THE TYPE "B" BACKFILL AND PAID UNDER THE PAY ITEM FOR GEOTEXTILE FABRIC, SECTION 711 OR 203 OF LA DOTD STANDARD SPECIFICATIONS OR BY CHANGE ORDER.

FOR FLEXIBLE PAVEMENTS ② ③

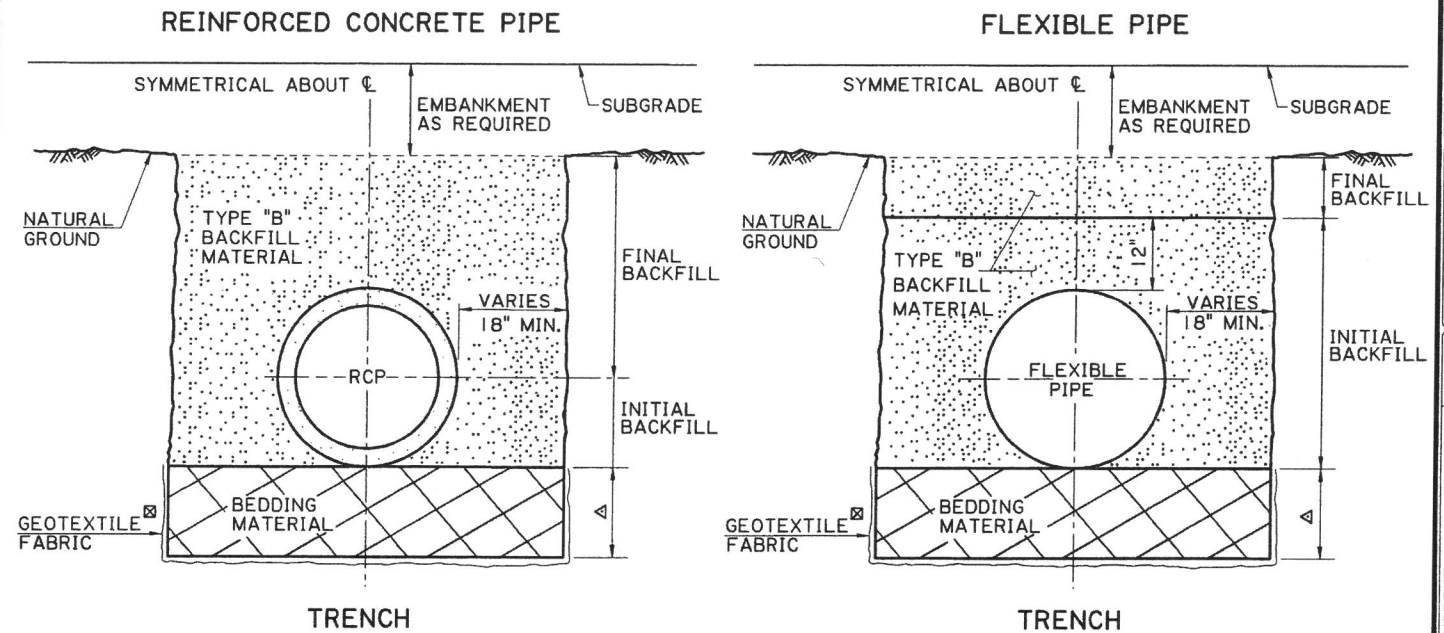


② APPLIES TO PIPE CROSSING THE CENTERLINE OF NEW OR EXISTING ROADWAYS
 ③ ALSO APPLIES UNDER RIGID PAVEMENTS FOR PIPES CROSSING THE CENTERLINE OF NEW OR EXISTING PAVEMENTS WHEN THE PROJECT IS BID USING A RIGID VS FLEXIBLE ALTERNATE (A + B + C) BID MODEL.

⊠ THICKNESS AS SHOWN ON PLANS (6" MIN.) OR AS DIRECTED BY THE PROJECT ENGINEER

TRENCH INSTALLATION

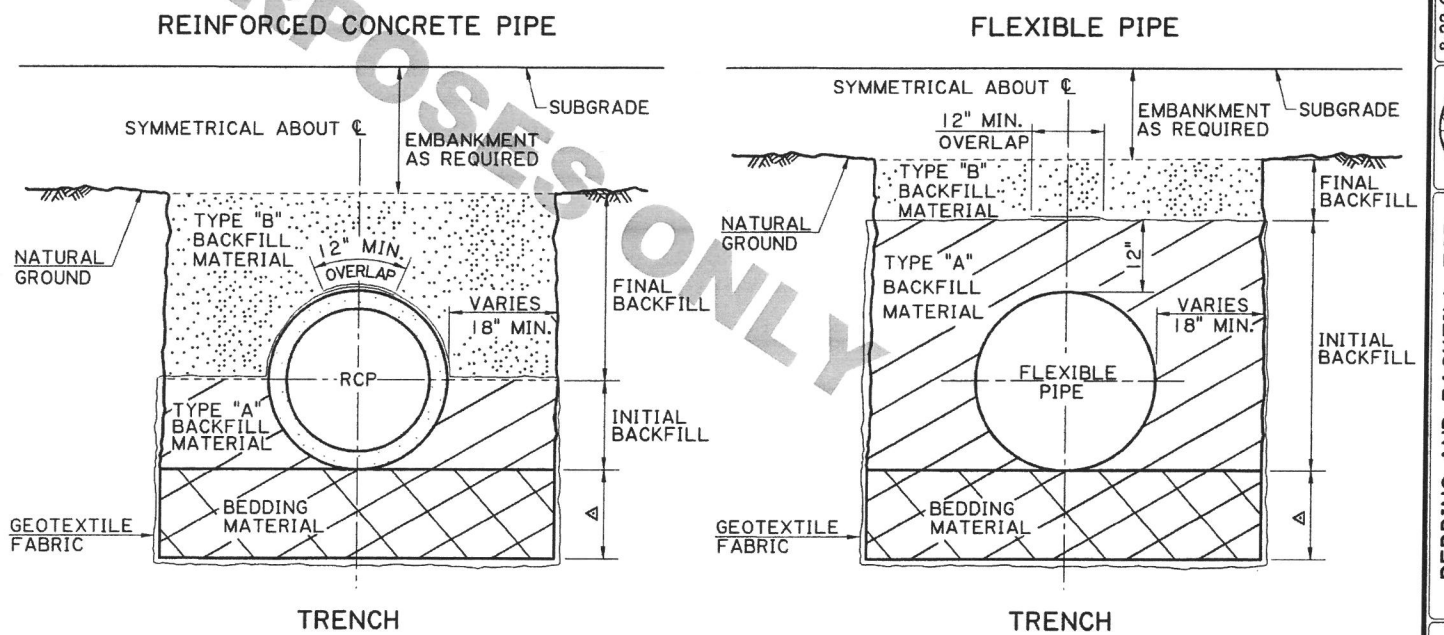
① FOR RIGID PAVEMENTS, FLEXIBLE PAVEMENTS OR OTHER AREAS



① FOR RIGID PAVEMENTS: APPLIES TO ALL PIPE UNDER RIGID PAVEMENT, EXCEPT AS NOTED FOR FLEXIBLE PAVEMENT NOTE ③ BELOW.
 FOR FLEXIBLE PAVEMENTS: APPLIES TO PIPES THAT DO NOT CROSS THE CENTERLINE OF NEW OR EXISTING ROADWAY
 FOR OTHER AREAS: APPLIES TO PIPES IN NONPAVED AREAS OR PAVED AREAS THAT SERVE AS DRIVEWAYS OR SHOULDERS

⊠ IF DIRECTED BY THE PROJECT ENGINEER, GEOTEXTILE FABRIC WILL BE INSTALLED AROUND THE TYPE "B" BACKFILL AND PAID UNDER THE PAY ITEM FOR GEOTEXTILE FABRIC, SECTION 711 OR 203 OF LA DOTD STANDARD SPECIFICATIONS OR BY CHANGE ORDER.

FOR FLEXIBLE PAVEMENTS ② ③



② APPLIES TO PIPE CROSSING THE CENTERLINE OF NEW OR EXISTING ROADWAYS
 ③ ALSO APPLIES UNDER RIGID PAVEMENTS FOR PIPES CROSSING THE CENTERLINE OF NEW OR EXISTING PAVEMENTS WHEN THE PROJECT IS BID USING A RIGID VS FLEXIBLE ALTERNATE (A + B + C) BID MODEL.

⊠ THICKNESS AS SHOWN ON PLANS (6" MIN.) OR AS DIRECTED BY THE PROJECT ENGINEER

SHEET NUMBER	202
DESIGNED	JDK
CHECKED	JDK
DATE	6-8-71
REVISION DESCRIPTION	2 OF 2
APPROVED BY	DATE: 8-22-07
CHIEF ENGINEER	W. H. T. T. T.
REVISION TO COMPLY WITH CURRENT SPECIFICATIONS	8-22-07
ADDED FINAL AND INITIAL BACKFILL	1-8-07
REDARAFTED, REVISED FOR TYPE A & B BACKFILL	7-11-05
DATE	DATE
BY	BY
CHECKED	CHECKED
PAJ	PAJ
JCM	JCM
STATE PROJECT	STATE PROJECT
FEDERAL PROJECT	FEDERAL PROJECT
PARISH PROJECT	PARISH PROJECT
BEDDING AND BACKFILL FOR DRAINAGE STRUCTURES	
STANDARD PLAN	BM-01
HYDRAULICS SECTION	

DESIGNED	PAA	PARISH	
CHECKED	NAJ	FEDERAL PROJECT	
DATE	1-31-97	STATE	
SHEET	1 OF 1	PROJECT	

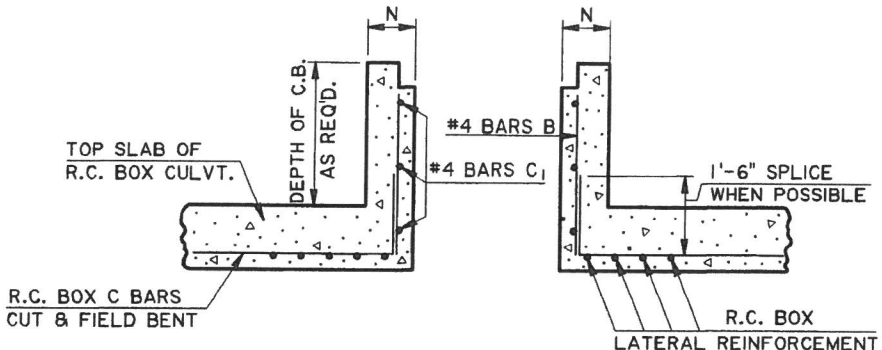
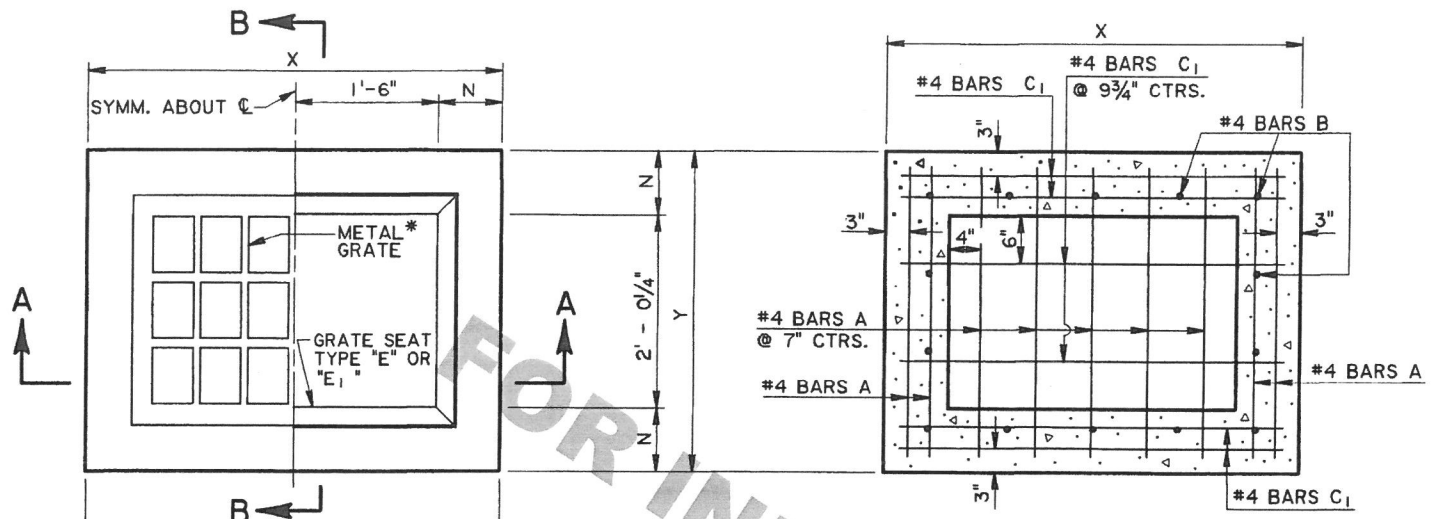
DESIGNED BY	JCM	REVISION DESCRIPTION	DATE	11-2-00
CHECKED BY	NAJ	Converted Metric CB-01M to English CB-01	DATE	
APPROVED BY			DATE	
CHIEF ENGINEER			DATE	11-2-00



CONCRETE OPEN TOP CATCH BASIN
 Max. Pipe: 36" x 24"
 Max. Depth: 12'
 To Be Used in Conjunction With Std. Plan MC-01

CLASSIFIED PLAN CB-01
 HYDRAULICS SECTION

DIMENSIONS			
DEPTH OF BASIN	N	X	Y
FT.	IN.	FT.- IN.	FT.- IN.
0 - 8	7	4-2	3-2 1/4
8.1 - 12	8	4-4	3-4 1/4



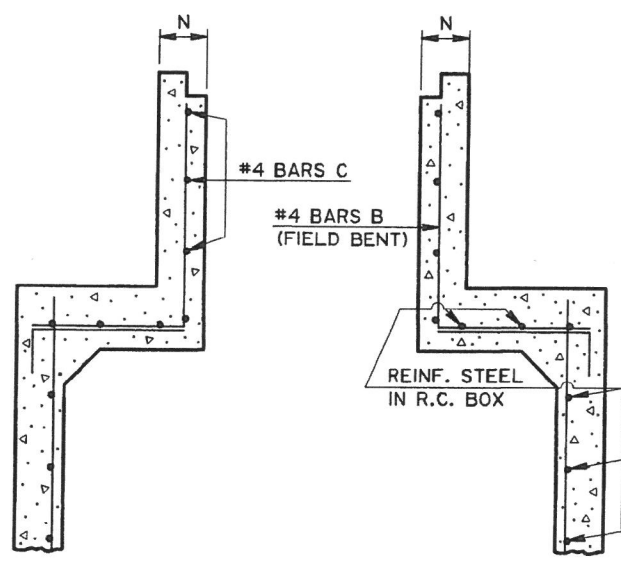
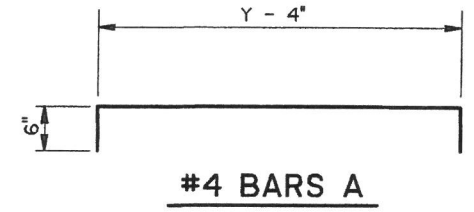
PLAN
 * GRATE TO BE TYPE "B" OR "C"
 TYPE "B" SHOWN.

HORIZONTAL SECTION
 SHOWING BOTTOM SLAB REINFORCING STEEL

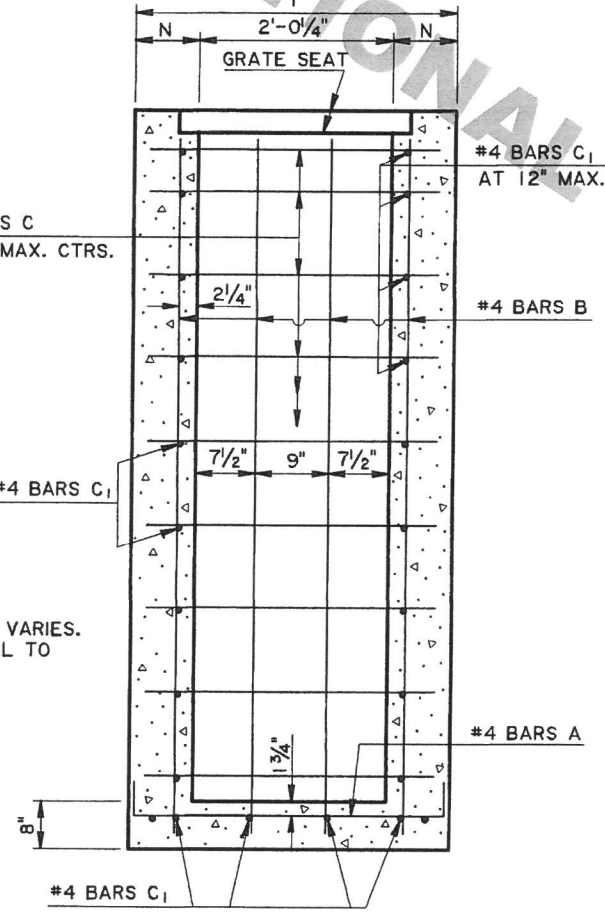
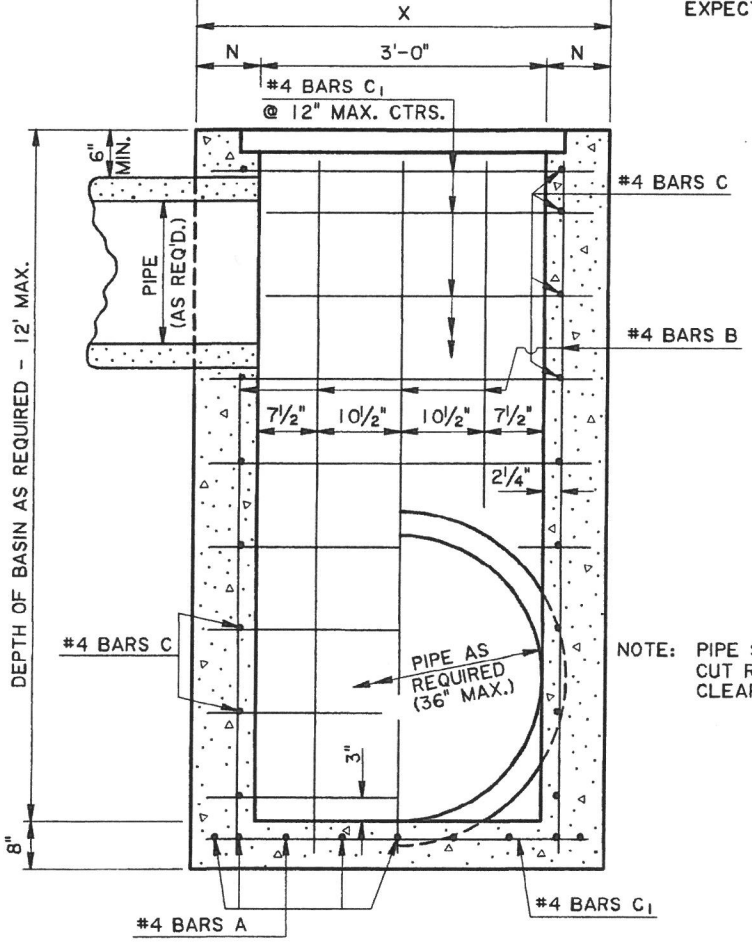
LONGITUDINAL SECTION
 SHOWING CATCH BASIN
 USED WITH R.C. BOX CULVERT.

NOTE: TYPE "B" GRATE TO BE USED
 WHERE NO PEDESTRIAN TRAFFIC
 IS EXPECTED.

 TYPE "C" GRATE TO BE USED
 WHERE PEDESTRIAN TRAFFIC IS
 EXPECTED.



TRANSVERSE SECTION
 SHOWING CATCH BASIN
 USED WITH R.C. BOX CULVERT.



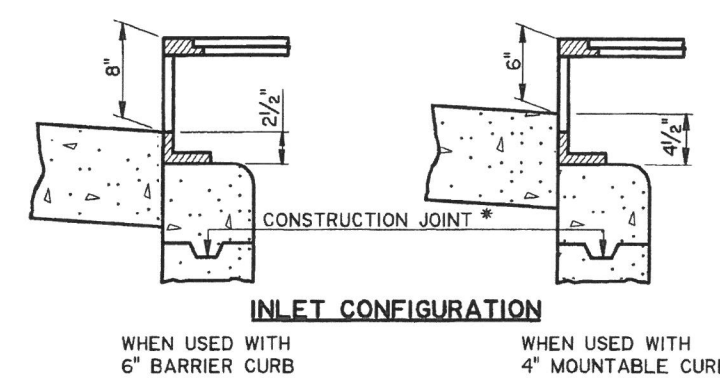
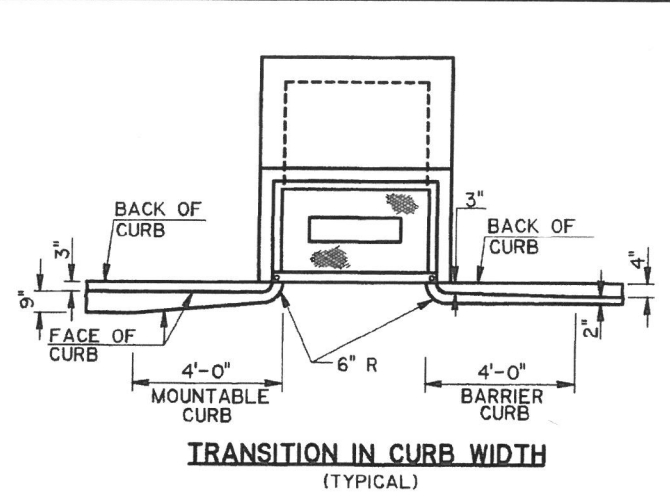
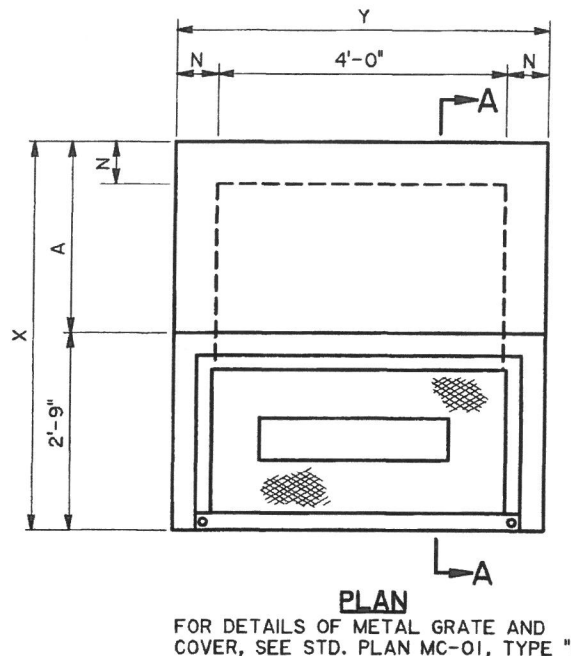
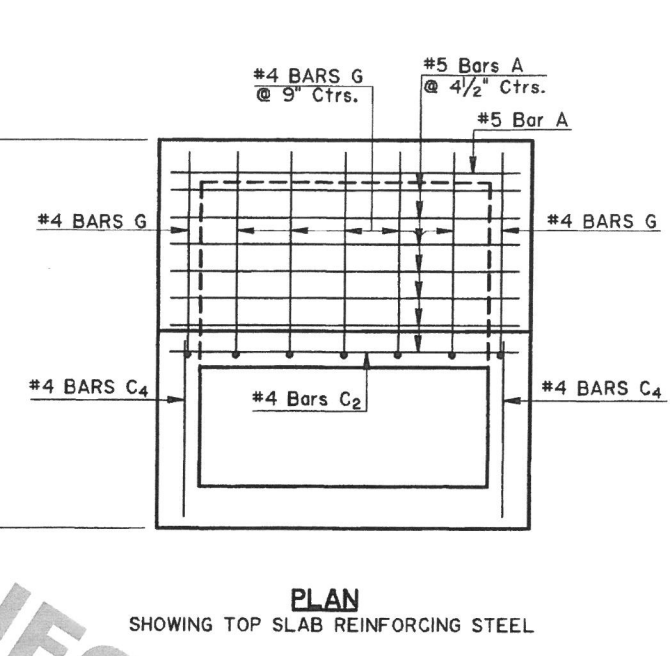
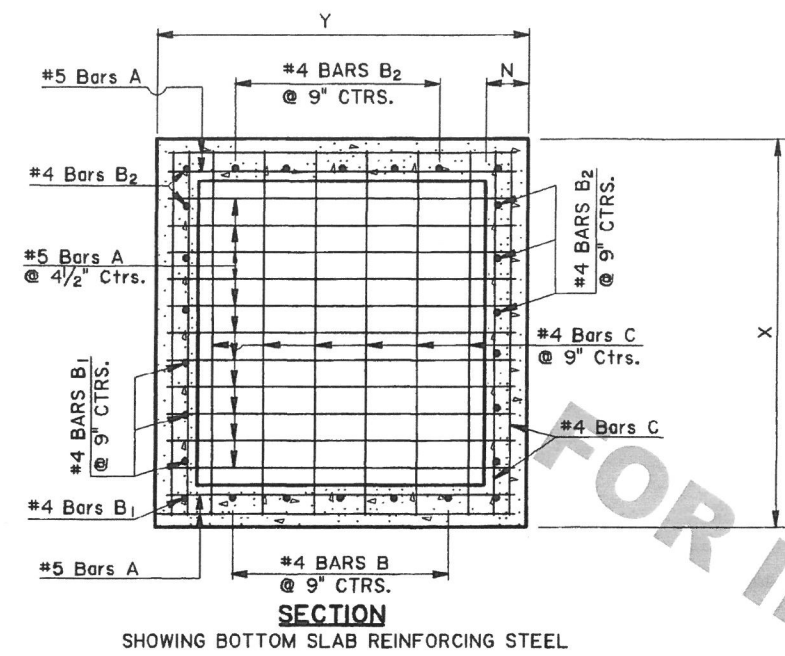
SECTION A-A

SECTION B-B

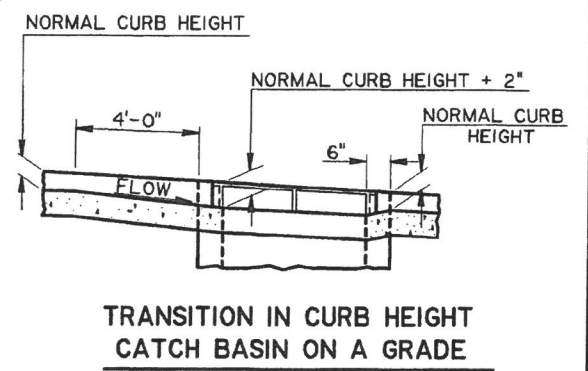
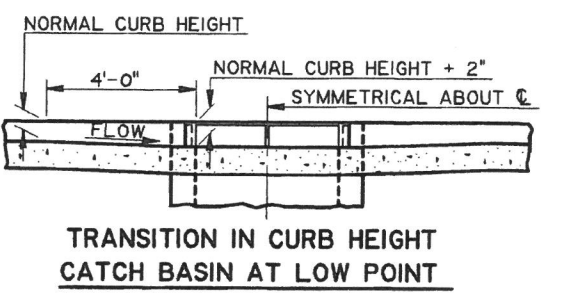
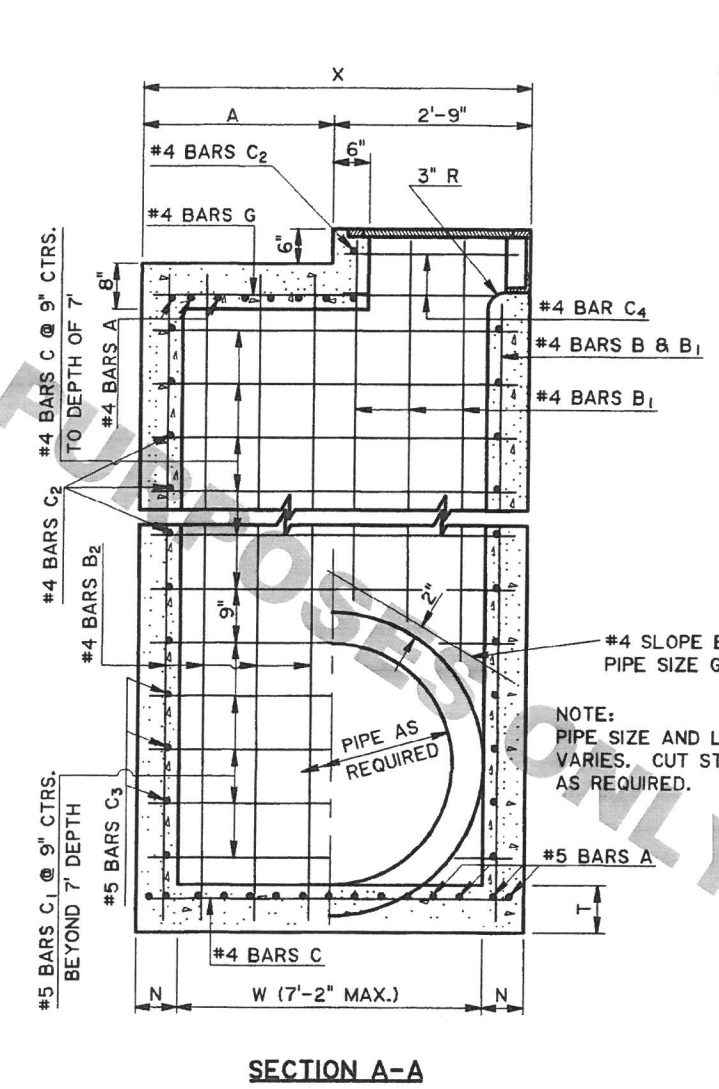
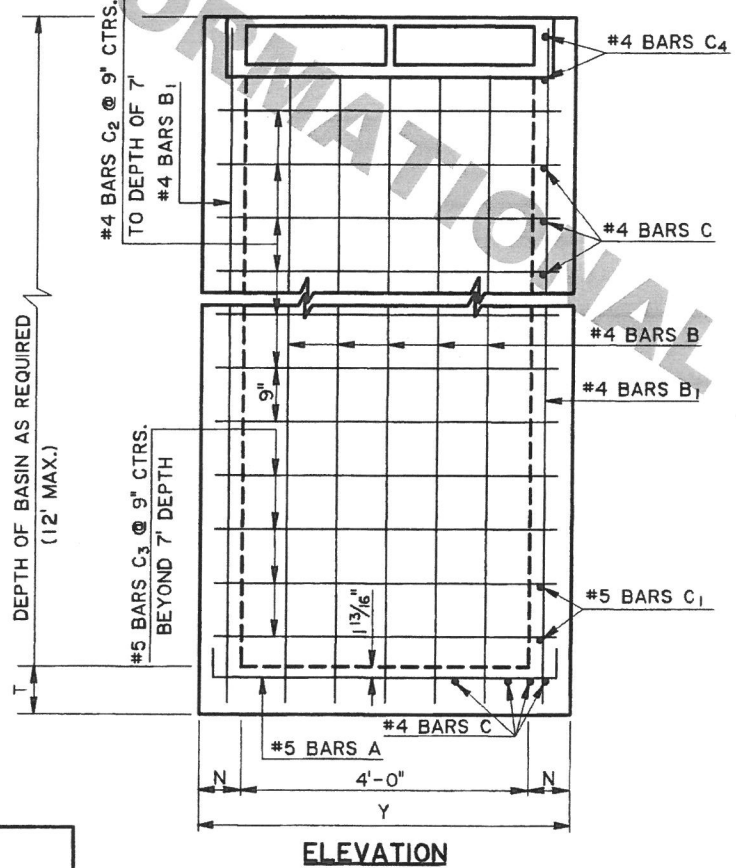
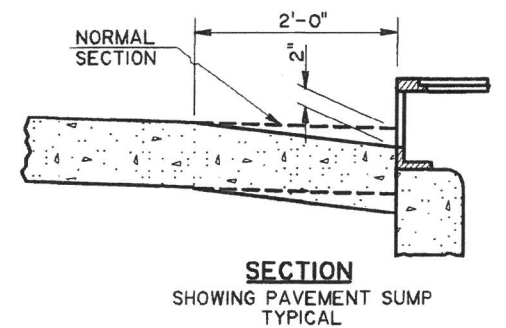
NOTE: PIPE SIZE & LOCATION VARIES.
 CUT REINFORCING STEEL TO
 CLEAR, AS REQUIRED.

GENERAL NOTES:

- SECTION 702 OF THE CURRENT DOTD STANDARD SPECIFICATIONS SHALL APPLY.
- DIMENSIONS RELATING TO REINFORCING STEEL ARE TO BAR CENTERS.
- VERTICAL REINFORCING STEEL MAY BE SPLICED. SPLICE LENGTH IS 35 DIAMETERS.
- FOR DETAILS OF GRATE AND SEAT, SEE STD. PLAN MC-01 (TYPE B OR C).
- SEE PLANS FOR TYPE OF GRATE TO BE USED FOR EACH CATCH BASIN.



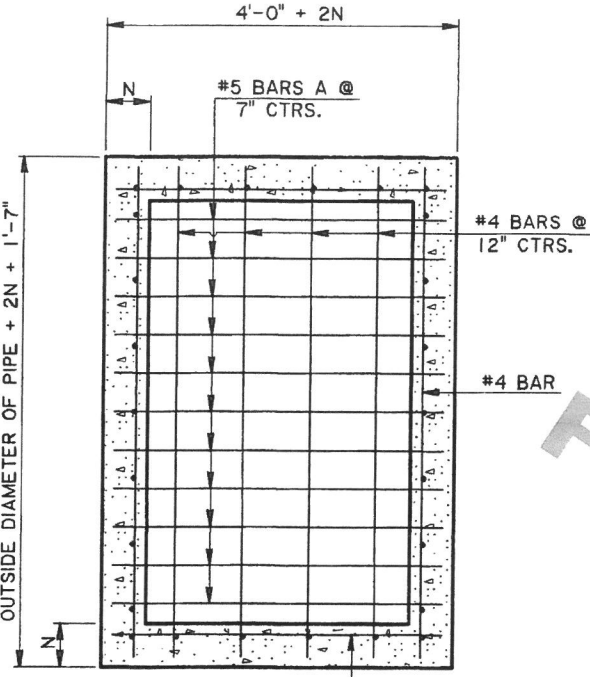
* NOTE:
THE BASIN SHALL NOT BE CONSTRUCTED ABOVE BOTTOM OF PAVEMENT ELEVATION UNTIL THE PAVING ADJACENT TO THE BASIN IS IN PLACE.



CONCRETE CATCH BASIN											
PIPE DIA. ①	W ②	T	DEPTH LESS THAN 8'				DEPTH FROM 8' TO 12'				
			X	Y	N	A	X	Y	N	A	
15 to 24	2-6	8	3-8	5-2	7	0-11	3-10	5-4	8	1-1	
30	3-1	8	4-3	5-2	7	1-6	4-5	5-4	8	1-8	
36	3-8	8	4-10	5-2	7	2-1	5-0	5-4	8	2-3	
42	4-3	8	5-5	5-2	7	2-8	5-7	5-4	8	2-10	
48	4-10	8	6-0	5-2	7	3-3	6-2	5-4	8	3-5	
54	5-5	9	6-7	5-2	7	3-10	6-9	5-4	8	4-0	
60	6-0	9	7-2	5-2	7	4-5	7-4	5-4	8	4-7	
72	7-2	9	8-4	5-2	7	5-7	8-6	5-4	8	5-9	

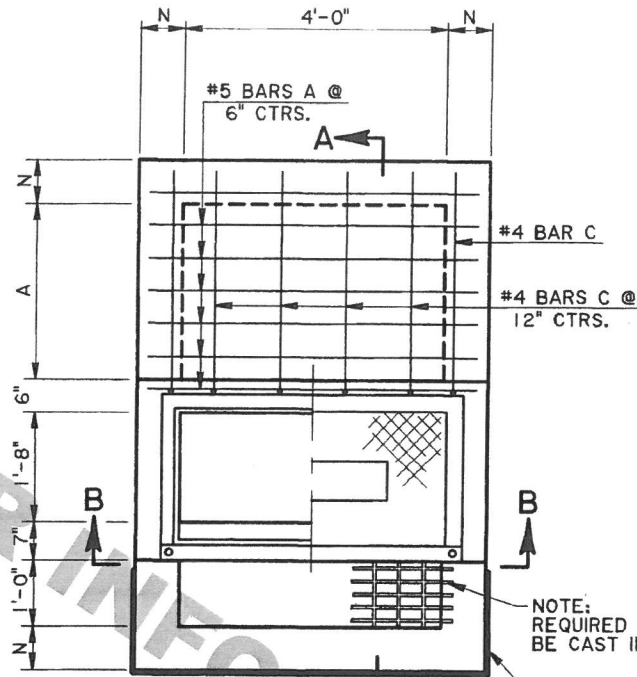
① REFERS TO SIDEWALL PIPE OR "TRUNKLINE". FRONTWALL OR "CROSSING PIPE" MAY NOT EXCEED 42".

② W AND X DIMENSIONS MAY BE VARIED FOR SKEWED PIPE, BUT W SHALL NOT EXCEED 7'-2".



SECTION
SHOWING BOTTOM SLAB REINFORCING STEEL

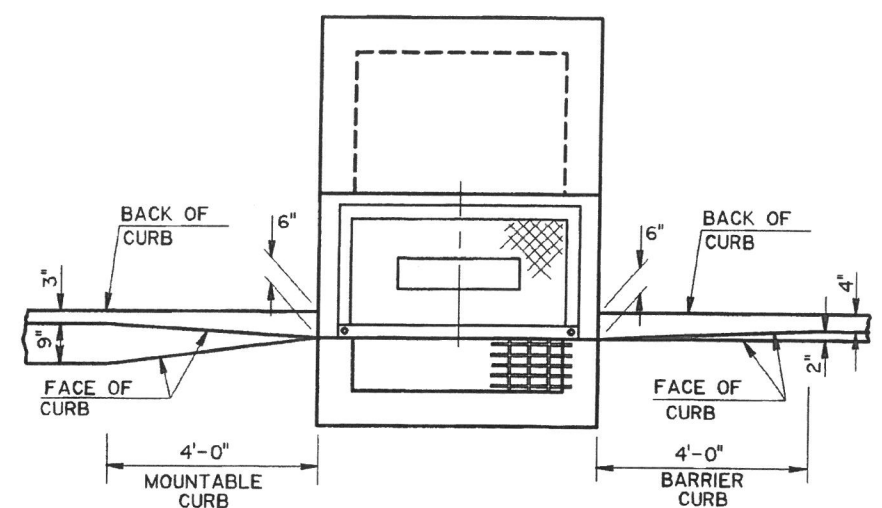
NOTE:
THE BASIN SHALL NOT BE
CONSTRUCTED ABOVE BOTTOM
OF PAVEMENT ELEVATION UNTIL
PAVEMENT ADJACENT TO THE
BASIN IS IN PLACE.



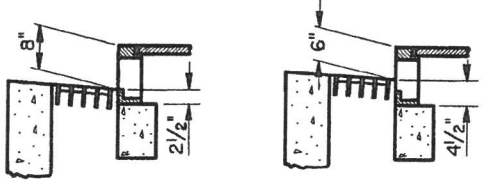
PLAN

FOR DETAILS OF METAL COVER,
FRAME AND GRATE, SEE STD.
PLAN MC-01, TYPE H & TYPE I.

3/4" EXPANSION JOINT BETWEEN
BASIN AND PAVEMENT



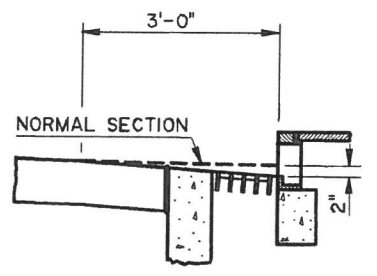
TRANSITION IN CURB WIDTH
(TYPICAL)



INLET CONFIGURATION

WHEN USED WITH
6" BARRIER CURB

WHEN USED WITH
4" MOUNTABLE CURB

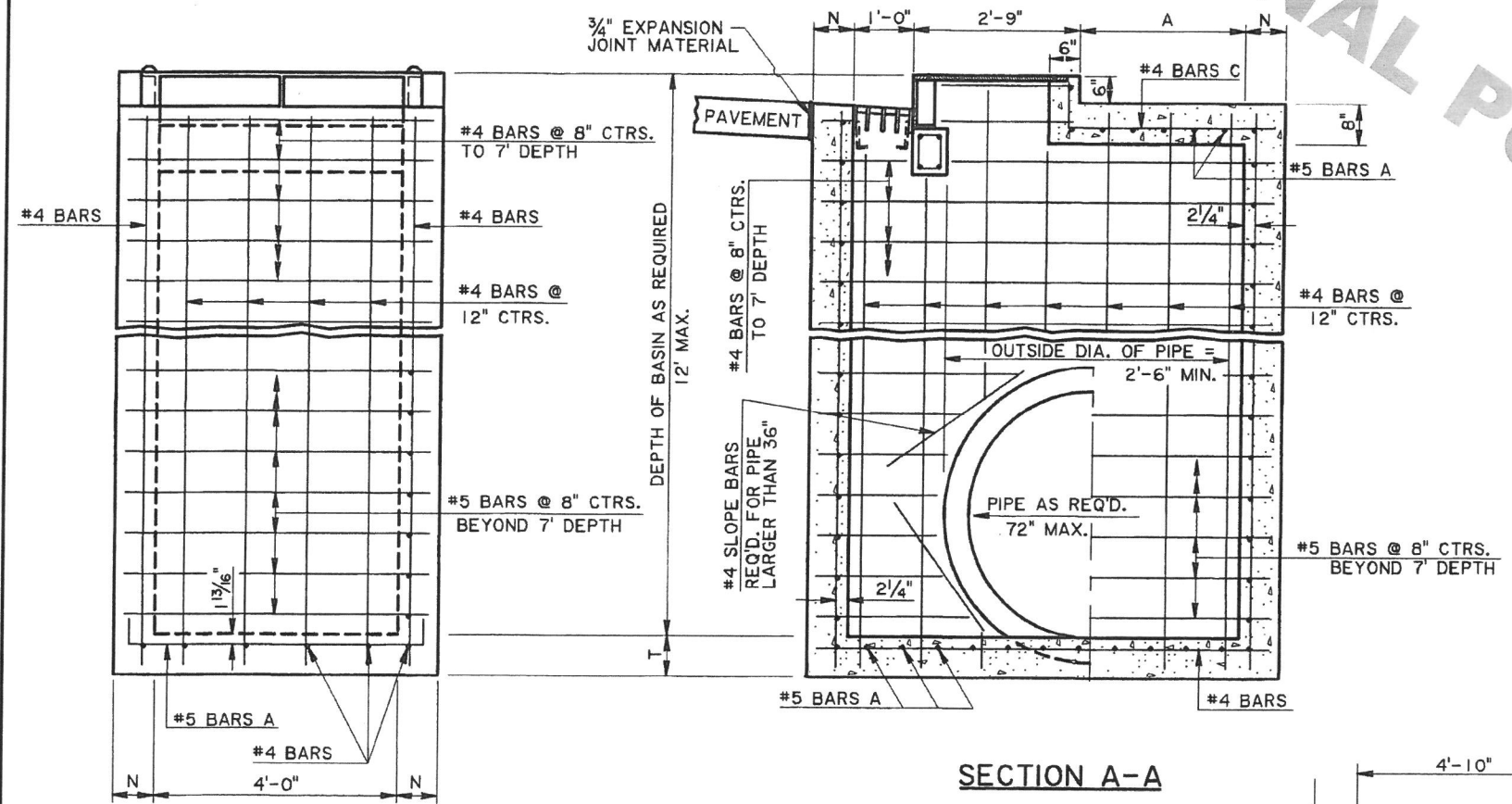


SECTION
(SHOWING PAVEMENT
SUMP TYPICAL)

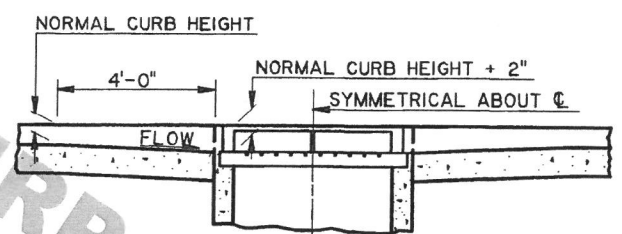
DEPTH OF BASIN		N
FT	IN	
LESS THAN 8		7
8 TO 12		8

PIPE DIAMETER	A		T
	IN	FT-IN	IN
15 TO 24		0-4	8
30		0-11	8
36		1-6	8
42		2-1	8
48		2-8	8
54		3-3	9
60		3-10	9
72		5-0	10

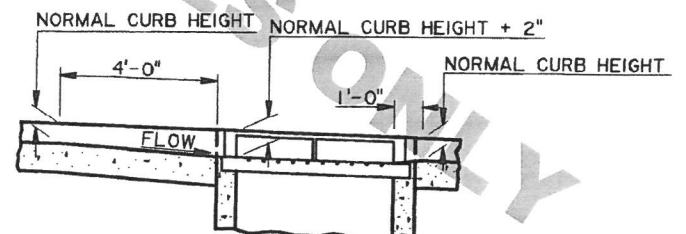
NOTE:
DIMENSION "A" MAY BE VARIED FOR
SKEWED PIPE, BUT MAY NOT EXCEED 5'-0".



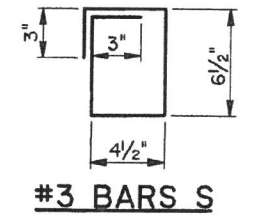
SECTION A-A



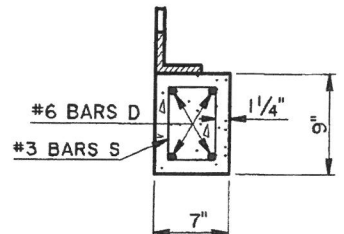
**TRANSITION IN CURB HEIGHT
CATCH BASIN AT LOW POINT**



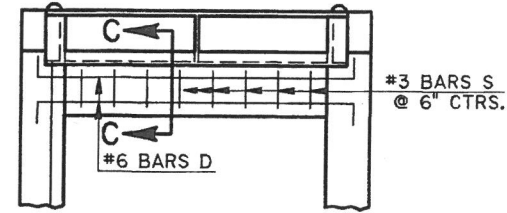
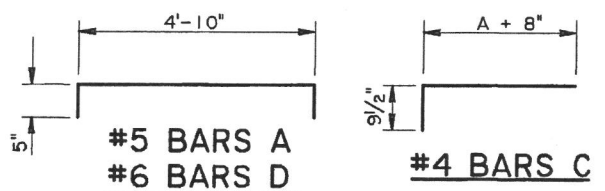
**TRANSITION IN CURB HEIGHT
CATCH BASIN ON A GRADE**



#3 BARS S

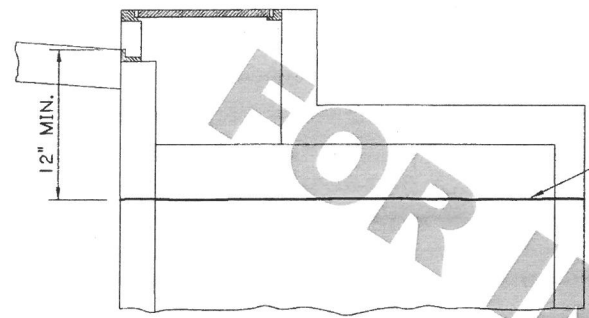


SECTION C-C



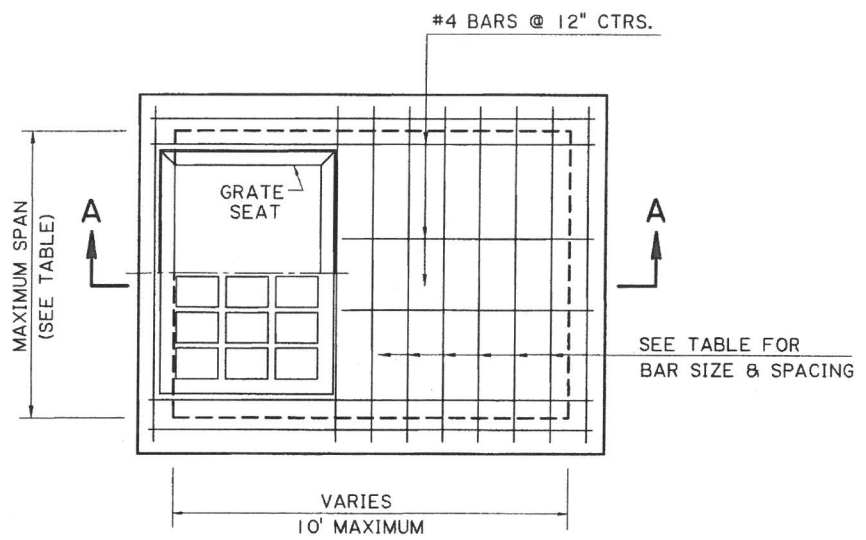
SECTION B-B

SHEET NUMBER		205
DESIGNED	CDJ	
CHECKED	KAJ	
DATE	1-31-97	
REVISION DESCRIPTION	DATE	1/2-00
1-2-00 Redrafted & Converted Metric CB-07 to English CB-07	JCM	
APPROVED BY	REVISION DESCRIPTION	DATE
DATE	1-2-00	
CHEF ENGINEER	R. E. Dill	
CONCRETE CATCH BASIN CURB AND GUTTER OPENING 4" Mountable Or 6" Barrier Curb Max. Pipes: 42" x 72", Max. Depth: 12'		
STANDARD PLAN CB-07		
HYDRAULICS SECTION		



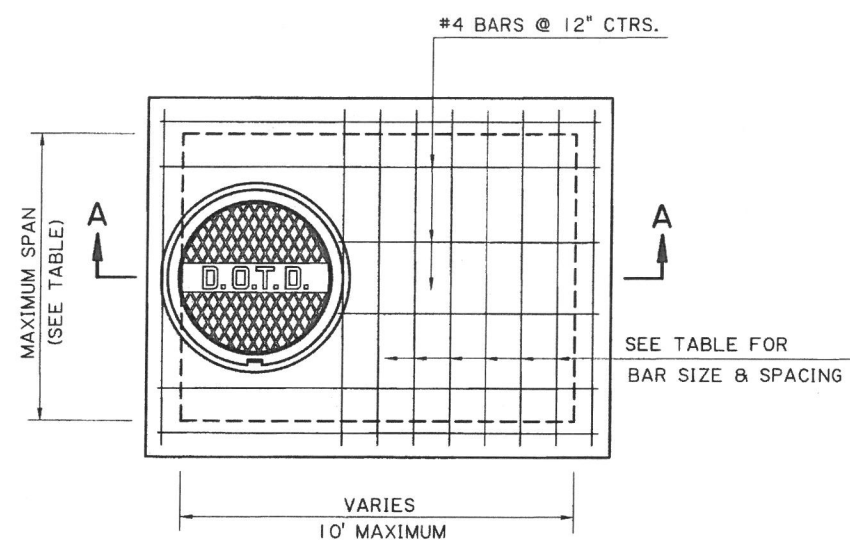
SECTION
EXISTING STRUCTURE

REMOVE EXISTING CATCH BASIN OR MANHOLE TO THIS LINE. IF CONCRETE, EXISTING BARS TO BE EXPOSED, CLEANED, AND BENT AS SHOWN IN SECTION A-A.



CATCH BASIN PLAN

SHOWING NEW CONSTRUCTION GRATE TO BE TYPE "B" OR "C". TYPE "B" SHOWN.*



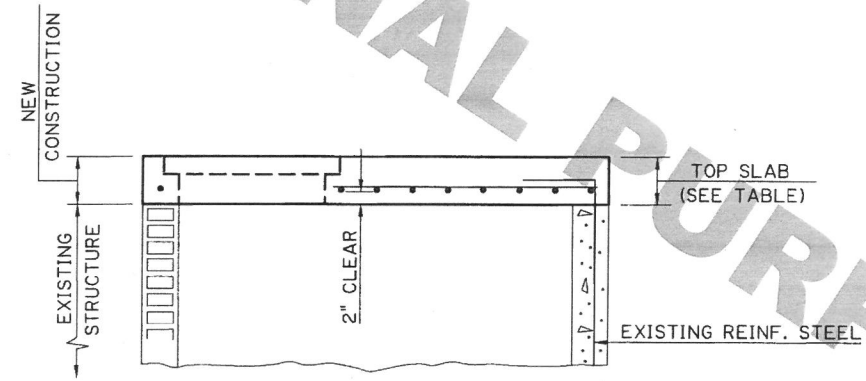
MANHOLE PLAN

SHOWING NEW CONSTRUCTION

* TYPE "B" AND "C" GRATES SHOULD NOT BE USED IN THE TRAVEL LANE.
 TYPE "B" GRATE IS TO BE USED WHERE NO PEDESTRIAN TRAFFIC AND NO VEHICULAR TRAFFIC IS EXPECTED. (DITCHES, ETC.)
 TYPE "C" GRATE IS TO BE USED WHERE PEDESTRIAN TRAFFIC AND/OR LIGHT VEHICULAR TRAFFIC IS EXPECTED. (DRIVEWAYS, SHOULDERS, ETC.)

GENERAL NOTES:

DIMENSIONS RELATING TO REINFORCED STEEL ARE TO BARS CENTERS.
 FOR DETAILS OF CATCH BASIN GRATE AND SEAT, SEE STD. PLAN MC-01 (TYPE B OR C).
 FOR DETAILS OF MANHOLE CAST IRON COVER AND SEAT, SEE STD. PLAN MC-01 (TYPE K OR K₁).
 PROJECT SPECIFICATIONS FOR MANHOLES, JUNCTION BOXES AND CATCH BASINS SHALL APPLY.



SECTION A-A

SHOWING NEW CONSTRUCTION FOR CATCH BASIN OR MANHOLE (FOR CONCRETE OR BRICK WALL)

MAXIMUM SPAN	TOP SLAB	BAR SIZE	BAR SPACING
4'	8"	#5	8"
6'	8 1/2"	#5	6"
8'	9 1/2"	#5	5"
9'	10 1/2"	#5	4"

ADJUSTMENT/CONVERSION OF EXISTING CATCH BASINS OR MANHOLES

- NOTE:
- 1) FOR ALL CATCH BASIN ADJUSTMENTS, THIS DETAIL SHOULD BE INCLUDED IN THE PLANS AND PAID FOR WITH APPROPRIATE PAY ITEMS.
 - 2) FOR ALL CATCH BASIN AND MANHOLE CONVERSIONS (CATCH BASIN TOP TO MANHOLE TOP OR MANHOLE TOP TO CATCH BASIN TOP), THIS DETAIL SHOULD BE INCLUDED IN THE PLANS ALONG WITH THE APPROPRIATE STANDARD PLAN/SPECIAL DETAIL TO CONSTRUCT THE NEW TOP. IF NO STANDARD PLAN/SPECIAL DETAIL IS INCLUDED, THE TOP IS TO BE BUILT AS SHOWN ON THIS DETAIL. ALL CONVERSIONS SHOULD BE PAID FOR WITH APPROPRIATE PAY ITEMS.
 - 3) FOR ALL MANHOLE ADJUSTMENTS GREATER THAN 7", THIS DETAIL SHOULD BE INCLUDED IN THE PLANS AND PAID FOR WITH APPROPRIATE PAY ITEMS.
 - 4) FOR ALL MANHOLE ADJUSTMENTS LESS THAN OR EQUAL TO 7", MANHOLE ADJUSTMENT RINGS MAY BE USED. SHOULD BE PAID FOR WITH APPROPRIATE PAY ITEMS AND NO DETAIL IS NEEDED IN THE PLANS. REFER TO STANDARD PLAN MC-01.
 - 5) FOR ALL CATCH BASIN/MANHOLE ADJUSTMENTS, CLEAN EXISTING GRATES/FRAMES AS PER PROJECT SPECIFICATIONS FOR MANHOLES, JUNCTION BOXES AND CATCH BASINS.

DESIGN	PAA	PARISH	STATE
CHECK	MH	CONTROL SECTION	PROJECT
DETAIL	KAJ		
CHECK	MH		
REVIEW	5-7-19		
SERIES	OF 1		

STATE OF LOUISIANA
 MITRA HASHEMIEH
 REG. NO. 28546
 REGISTERED PROFESSIONAL ENGINEER
 IN
 CIVIL ENGINEERING
 5/17/2019

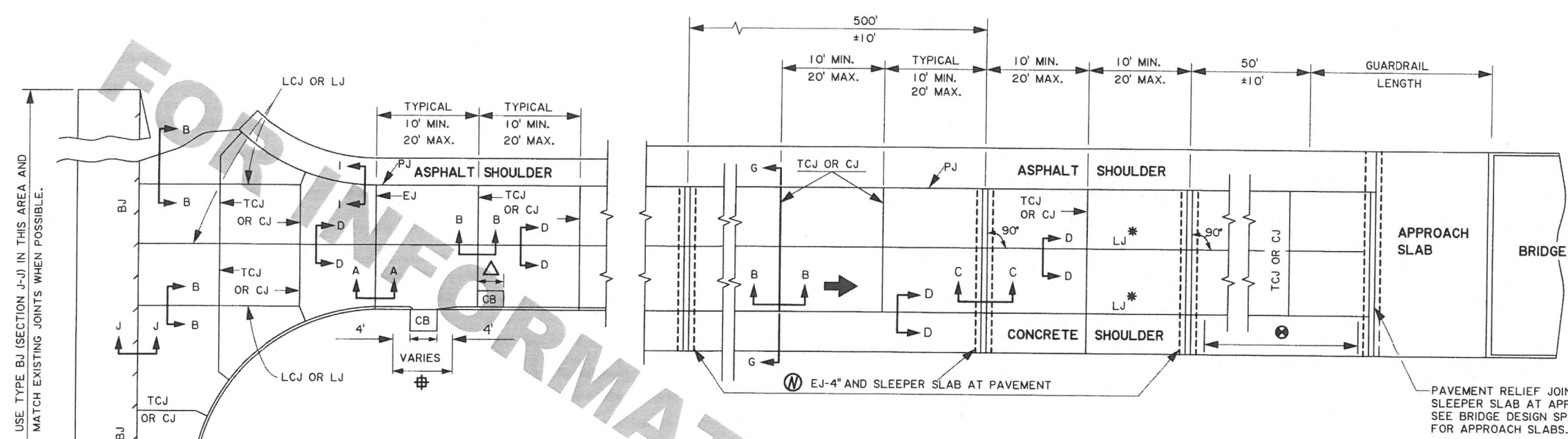
APPROVED BY CHIEF ENGINEER:
Mitra Hashemieh
 DATE: 10/30/19



ADJUSTMENT/CONVERSION OF EXISTING CATCH BASINS OR MANHOLES
 CB-ADJUST



PLAN VIEW
ROADWAY SHOWING JOINTS



- JOINT ABBREVIATIONS:**
- LJ - LONGITUDINAL JOINT
 - EJ - TRANSVERSE EXPANSION JOINT
 - TCJ - TRANSVERSE CONTRACTION JOINT
 - CJ - CONSTRUCTION JOINT
 - LCJ - LONGITUDINAL CONSTRUCTION JOINT
 - LBJ - LONGITUDINAL BUTT JOINT
 - BJ - TRANSVERSE BUTT JOINT
 - PJ - PAVEMENT EDGE SEAL JOINT

- * USE TYPE LCJ JOINT WITH SPLIT SLAB CONSTRUCTION.
 - ⊕ WHEN POSSIBLE, AT CATCH BASINS NO JOINTS SHALL BE PLACED IN THE LIMITS SHOWN.
 - △ TRANSVERSE JOINTS NEAR CATCH BASIN (CB-07, 08 & 09) THAT EXTEND INTO THE PAVEMENT SHALL BE ADJUSTED TO COINCIDE WITH ONE EDGE OF THE CATCH BASIN OR THE CENTER OF THE CATCH BASIN. SEE DETAIL E (SHEET 3 OF 3).
 - Ⓝ SEE SECTION C-C (SHEET 2 OF 3) AND DETAIL "G" (SHEET 3 OF 3) FOR EJ-4" JOINT, SLEEPER SLAB AND DRAINAGE DETAILS. (REQUIRED (3) PLACES.)
 - ⊙ CJ OR TCJ JOINTS AT 20' MAX. CTRS.
- NOTE:** MAXIMUM JOINT SPACING AT 18' WHEN PAVEMENT IS PLACED ON PERMEABLE BASE. (SEE SECTION 307)

TABLE I - SCHEDULE OF DIMENSIONS
(ALL DIMENSIONS ARE IN INCHES)

SLAB THICKNESS "T"	SMOOTH DOWEL BARS			DEFORMED TIE BARS			KEYWAY	
	SIZE (DIA.)	LENGTH	SPACING	SIZE (DIA.)	LENGTH	SPACING	A ±1/4"	B ±1/4"
8	1 1/4	18	12	1/2	24	24	2 1/2	1 1/4
9	1 1/4	18	12	1/2	24	24	2 1/2	1 1/4
10	1 1/2	18	12	1/2	24	24	2 1/2	1 1/4
11	1 1/2	18	12	5/8	30	24	2 1/2	1 1/4
12	1 1/2	18	12	5/8	30	24	3	1 1/2
13	1 1/2	18	12	5/8	30	24	3	1 1/2
14	1 1/2	18	12	5/8	30	24	3	1 1/2

NOTES:

- 1 PAVEMENT EDGES SHALL BE SLIGHTLY ROUNDED (1/4" APPROX.).
- 2 ASPHALT CONCRETE SHOULDER: THE SHOULDER JOINTS SHALL BE SAW CUT AND CONSTRUCTED IN ACCORDANCE WITH SECTION 1-1 (SHEET 2 OF 3).
- 3 FOR SECTIONS A-A THROUGH J-J (SEE SHEET 2 OF 3).
- 4 ALL JOINTS TO BE USED WHERE SHOWN ON THIS SHEET OR AS SHOWN ELSEWHERE IN THE PLANS OR AS OTHERWISE DIRECTED BY THE ENGINEER.
- 5 ON TYPE EJ ALTERNATE JOINTS, SPOT WELD ALTERNATE ENDS OF DOWEL BARS TO DOWEL BASKETS AND PLACE EXPANSION TUBES ON FREE ENDS OF DOWEL BARS.
- 6 FOR DESIGN SPEEDS GREATER THAN 45MPH: SAW CUT AND CONSTRUCT THE TYPE LJ, TCJ, AND CJ JOINTS AS IN DETAILS "A, B OR C" TO A DEPTH OF 7/3 INCHES. THOROUGHLY CLEAN THE JOINT FACES BY SANDBLASTING; FOLLOWED BY AN OIL-FREE AIR JET IMMEDIATELY PRIOR TO SEALING WITH A Poured OR EXTRUDED SEALANT CONFORMING TO SECTION 1005.
- 7 FOR DESIGN SPEEDS OF 45MPH OR LESS:
 - A. SAW CUT AND SEAL TYPE LJ JOINTS AS DESCRIBED IN NOTE 6.
 - B. CONSTRUCT TYPE TCJ OR CJ JOINTS AS DESCRIBED IN NOTE 6 OR CONSTRUCT WITH A REMOVABLE FORMING DEVICE AS SPECIFIED IN DETAIL "C" (SHEET 3 OF 3). THOROUGHLY CLEAN THE JOINT FACES BY SAND-BLASTING; FOLLOWED BY AN OIL-FREE AIR JET IMMEDIATELY PRIOR TO SEALING WITH A Poured OR EXTRUDED SEALANT CONFORMING TO SECTIONS 601 AND 1005. WITH A COMBINATION JOINT FORMER/SEALER AS SHOWN IN DETAIL "D" (SHEET 3 OF 3), THE SEALER SHALL CONFORM TO SECTION 1005 AND BE INSTALLED IN ACCORDANCE WITH SECTION 601 AND NO ADDITIONAL SEALANT IS REQUIRED.
- 8 EXCEPT AS NOTED BELOW, DOWEL BARS & TIE BARS SHALL BE HELD IN PLACE BY SUPPORTS SIMILAR TO THE ONES SHOWN, OR APPROVED EQUALS. APPROVED MECHANICAL PLACEMENT OF DOWEL BARS AND TIE BARS WILL BE ALLOWED WITH ALL PAVING METHODS.
- 9 INSTALL GEOTEXTILE FABRIC (TYPE B, C, OR D) UNDER ALL TCJ, CJ, AND EJ ALTERNATE JOINTS WHEN CONCRETE PAVEMENT IS PLACED ON ANYTHING OTHER THAN ASPHALT BASE. WHEN DOWEL BARS ARE MECHANICALLY IMPLANTED, THE GEOTEXTILE FABRIC SHALL BE ANCHORED TO THE BASE COURSE WITH PINS.
- 10 WHEN CONSTRUCTING CONCRETE CURB AND GUTTER ADJACENT TO NEW P.C.C. PAVEMENT, USE TYPE LCJ JOINT. WHEN ADJACENT TO EXISTING P.C.C. PAVEMENT, USE TYPE LBJ JOINT. THE FIRST LOAD TRANSFER DEVICE SHALL BE INSTALLED 18" FROM THE PAVEMENT EDGE.
- 11 TRANSVERSE EXPANSION JOINTS ARE NOT TO BE USED FOR CONSTRUCTION JOINTS.
- 12 CONCRETE SHOULDERS:
 - A. CONSTRUCT TCJ JOINTS IN ACCORDANCE WITH SECTION B-B (SHEET 2 OF 3).
 - B. CONSTRUCT LCJ JOINTS IN ACCORDANCE WITH TYPE LCJ DETAIL AND LJ JOINTS IN ACCORDANCE WITH TYPE LJ DETAIL. SEE SECTION D-D (SHEET 2 OF 3).
 - C. USE THE MAXIMUM SHOULDER THICKNESS WHEN DETERMINING DOWEL BAR AND TIE BAR SIZES IN TABLE 1.
 - D. WHEN SKEWED JOINTS ARE USED ON MAINLINE PAVING THE SHOULDER TCJ JOINTS MAY BE SKEWED OR CONSTRUCTED AT 90°.
 - E. SHOULDER JOINTS AND JOINT MATERIALS SHALL MATCH THE MAIN LINE.
 - F. HEIGHT OF DOWEL BASKET SHALL BE BASED ON THE THINNEST SHOULDER THICKNESS. VARYING HEIGHT DOWEL BASKETS WILL BE ALLOWED TO KEEP THE DOWEL BAR LOCATED WITHIN TOLERANCE.
- 13 TIE BARS SHALL NOT BE PLACED WITHIN 18" OF CONTRACTION OR EXPANSION JOINTS.

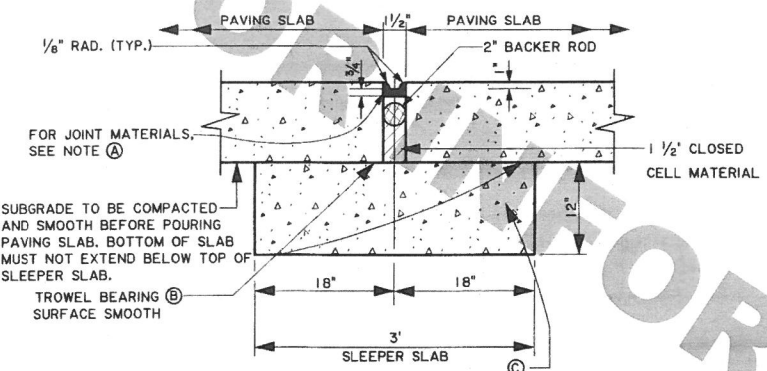


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PARISH		CONTROL SECTION		STATE PROJECT		REVISION OR CHANGE ORDER DESCRIPTION	
DESIGNED BY	H. DANG	CHECKED BY	S. ARDOIN	DATE		REVISION OR CHANGE ORDER DESCRIPTION	
DRAWN BY	H. DANG	CHECKED BY	S. ARDOIN	DATE		REVISION OR CHANGE ORDER DESCRIPTION	
SCALE		SHEET NUMBER	1 OF 3	DATE		REVISION OR CHANGE ORDER DESCRIPTION	
APPROVED BY: <i>Jamie P. Williams</i> CHIEF ENGINEER							
PORTLAND CEMENT CONCRETE PAVEMENT DETAILS CP-01 - STANDARD PLAN							
DOTD ROAD DESIGN							

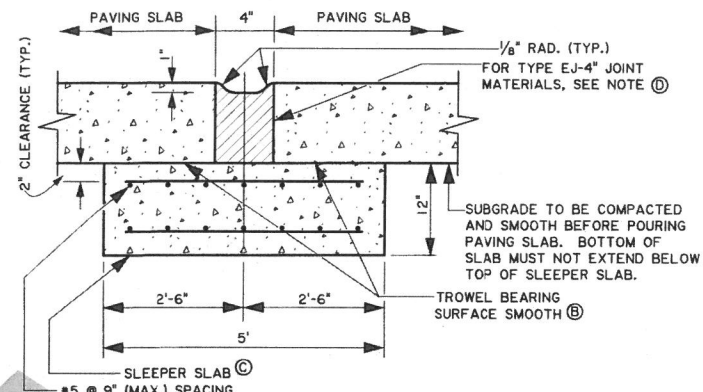
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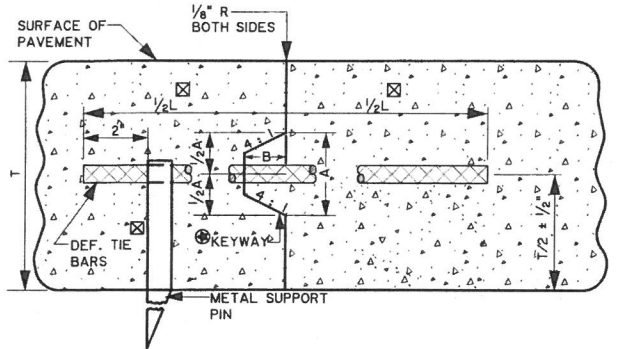
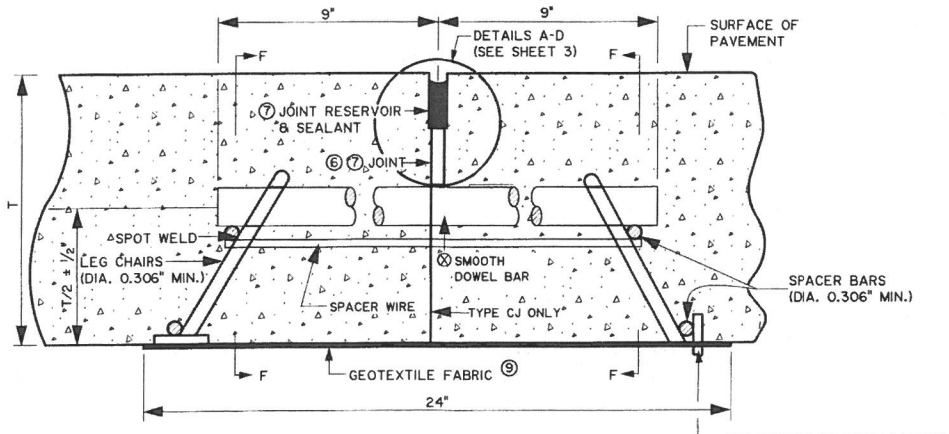
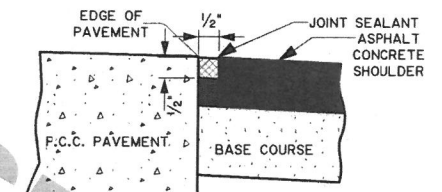
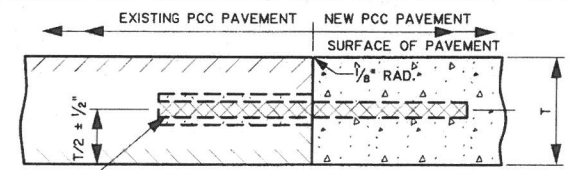
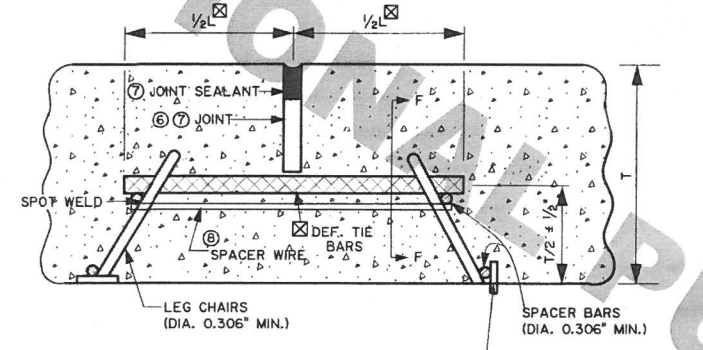
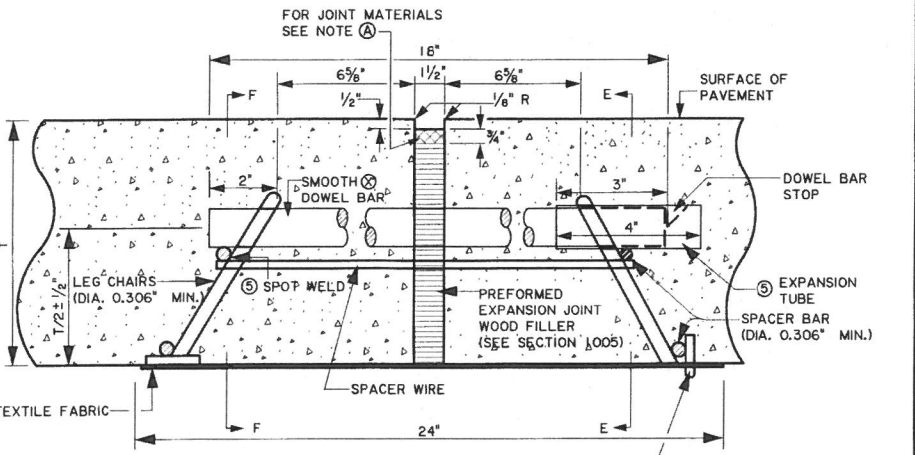
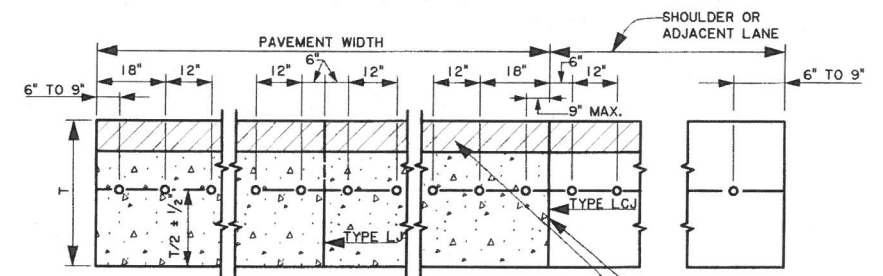
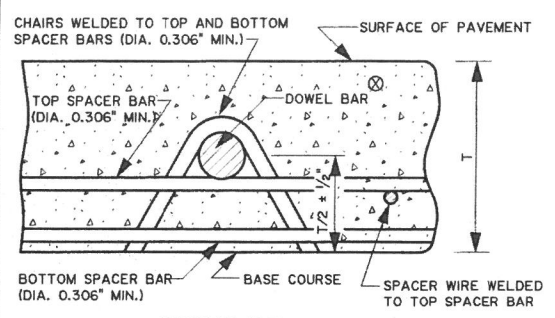
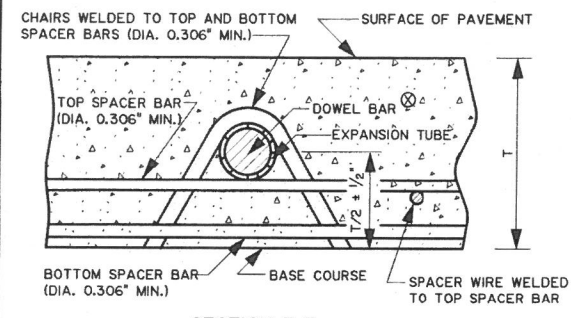
- (A) ONE OR TWO COMPONENT SILICONE CONFORMING TO SECTION 1005.
- (B) TAR PAPER EQUIVALENT TO 30 LBS./100 FT² SHALL BE PLACED BETWEEN THE SLEEPER SLAB AND THE PAVING SLAB.
- (C) SLEEPER SLAB SHALL BE CONSTRUCTED OF CLASS "A1" OR PAVEMENT TYPE CONCRETE AND INCLUDED IN THE COST OF THE PAVEMENT. PROVIDE DEFORMED GRADE 60 REINFORCING STEEL.
- (D) JOINT SHALL BE FILLED WITH A PREFORMED POLYURETHANE FOAM TYPE FILLER CONFORMING TO SECTION 1005.
- (E) SEE DETAIL "G" - EJ-4" BASE DRAIN OUTLET FOR UNDERDRAIN DETAILS (SHEET 3 OF 3)



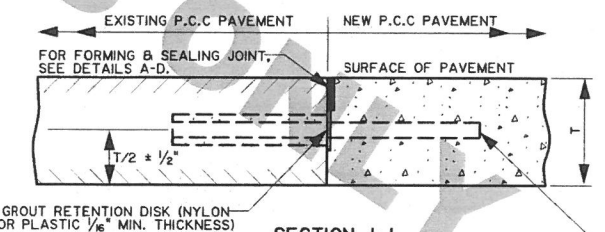
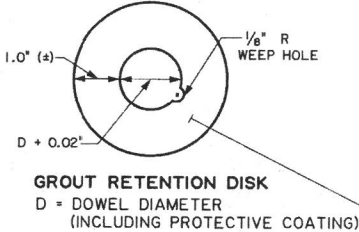
SECTION A-A
TYPE EJ-1 1/2"



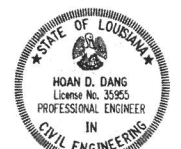
SECTION C-C
TYPE EJ-4" JOINT AND SLEEPER SLAB



FOR KEYWAY DIMENSIONS A & B SEE TABLE I. IN LIEU OF THE KEYWAY, ONE OF THE FOLLOWING OPTIONS WILL BE ALLOWED:
A. INSTALL TIE BARS OF THE SIZE SHOWN IN TABLE I, AT 1/2 THE SPACING.
B. INSTALL TIE BARS 1/4" LARGER THAN THE TIE BAR DIAMETER SHOWN IN TABLE I, AT THE SAME SPACING.
SEE TABLE I (SHEET 1 OF 3)



SMOOTH DOWEL BARS OF THE SIZE, LENGTH AND SPACING SPECIFIED IN TABLE I SHALL BE USED. THE BARS SHALL BE INSTALLED IN EXISTING PAVEMENT BY DRILLING HOLES 1/8" LARGER THAN THE BAR DIAMETER TO A REQUIRED DEPTH OF 1/2 THE BAR LENGTH. THE HOLES SHALL BE DRILLED AND FILLED IN ACCORDANCE WITH SECTION 601 BEFORE INSERTION OF THE DOWEL BARS.

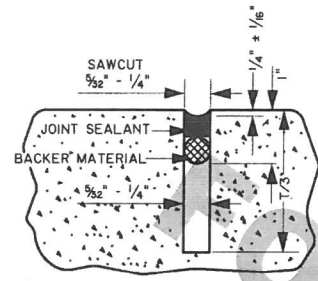


Hoan D. Dang
5/19/17

NOT TO SCALE

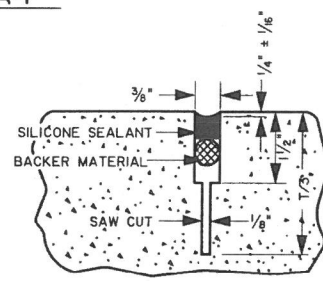
DESIGNED BY	H. DANG	CONTROL SECTION	STATE PROJECT
CHECKED BY	S. ARDIN	NO. 2	OF 3
DATE	5-11-2017	REVISION OR CHANGE ORDER DESCRIPTION	BY
APPROVED BY	James P. Williams	NO.	DATE
PORTLAND CEMENT CONCRETE PAVEMENT DETAILS CP-01 - STANDARD PLAN			

DETAILS "A-F"



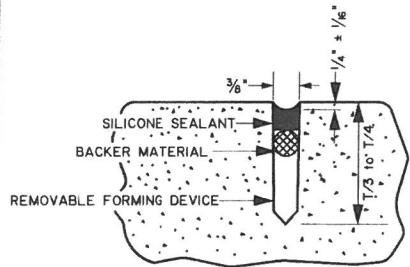
DETAIL "A"

USE THIS DETAIL IN CONJUNCTION WITH TYPE TCJ (SECTION B-B) AND TYPE LJ JOINT (SECTION D-D) AND NOTES 6 & 7 ON SHEET #1.



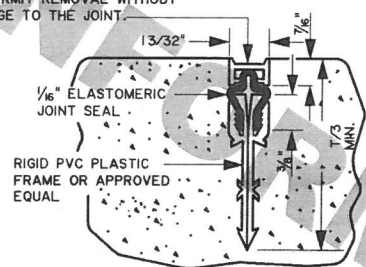
DETAIL "B"

REMOVE CAP AFTER CONCRETE HAS HARDENED SUFFICIENTLY TO PERMIT REMOVAL WITHOUT DAMAGE TO THE JOINT.



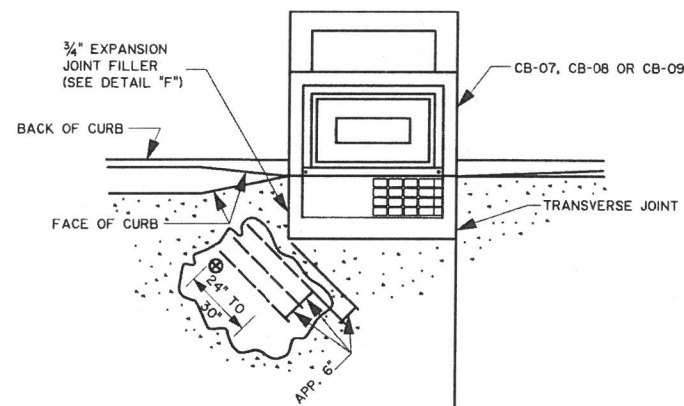
DETAIL "C"

NOT ALLOWED FOR DESIGN SPEEDS GREATER THAN 45 MPH.

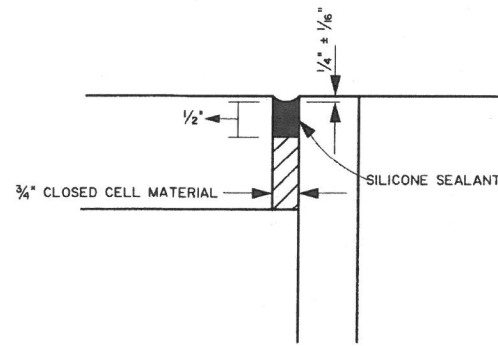


DETAIL "D"

NOT ALLOWED WHEN THE PAVEMENT IS PLACED ON PERMEABLE BASES
NOT ALLOWED FOR DESIGN SPEEDS GREATER THAN 45 MPH.



DETAIL "E"
TRANSVERSE JOINT AT CATCH BASIN

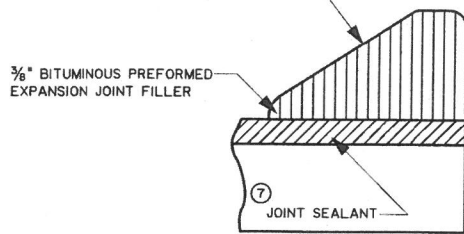


DETAIL "F"

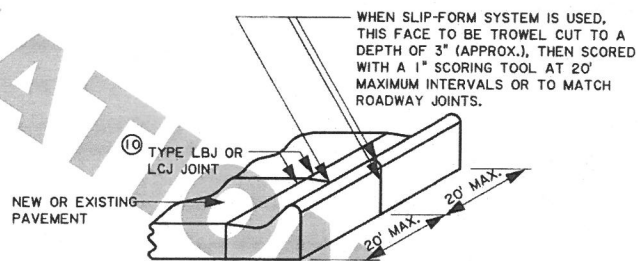
AFTER CATCH BASIN TOP IS POURED, THE TOP OF THE 3/4" JOINT FILLER IS TO BE REMOVED TO THE DEPTH SHOWN PRIOR TO SEALING. THE CURB FACES ADJACENT TO THE BASIN SHALL ALSO BE SEALED. JOINT FACES SHALL BE CLEANED IN ACCORDANCE WITH SECTION 601.

NOTE: SEE STANDARD PLAN DW-01 AND PLANS FOR CURB PLACEMENT DETAILS.

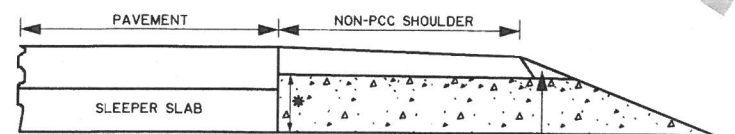
NOTE:
WHEN CURB IS POURED MONOLITHICALLY WITH PAVEMENT, THE BITUMINOUS PREFORMED EXPANSION JOINT FILLER SHALL EXTEND TO THE TOP OF JOINT INSERT. WHEN TRANSVERSE JOINTS ARE CONSTRUCTED BY SAWING, THE INITIAL SAW CUT SHALL EXTEND THRU THE CURBED SECTION (CURB AND UNDERLYING PAVEMENT). THE SUBSEQUENT WIDENING CUT FOR THE JOINT SEALANT RESERVOIR SHALL EXTEND INTO THE CURB FOR A DISTANCE NECESSARY TO ENSURE THE SPECIFIED RESERVOIR DEPTH IS BEING MAINTAINED AT THE GUTTER LINE. ALL CURB FACES REGARDLESS OF CURB TYPE SHALL BE SEALED WHEN TRANSVERSE JOINT IS SAWS THROUGH CURB.



JOINT FILLER DETAIL FOR INTEGRAL CONCRETE CURB (MOUNTABLE OR BARRIER TYPE)

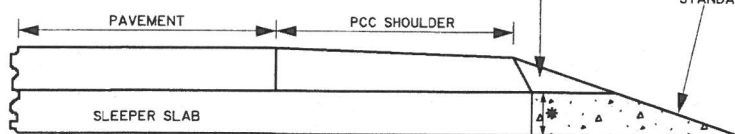


DETAIL SHOWING JOINTS IN CONCRETE CURB AND GUTTER (EXTEND ALL TCJ THROUGH CURB & GUTTER)

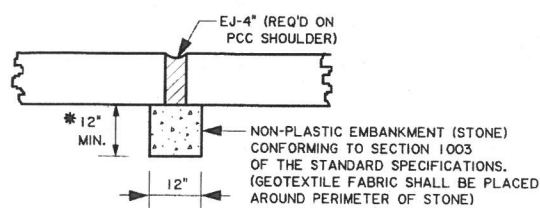


SECTION K-K

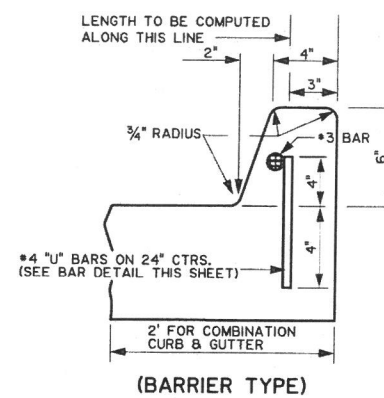
* SEE TYPICAL SECTION FOR DEPTH (12" MIN.)



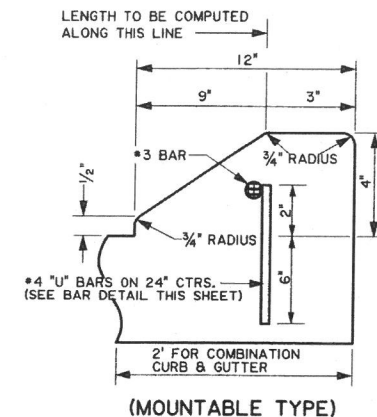
SECTION L-L (WITH CONCRETE SHOULDER)



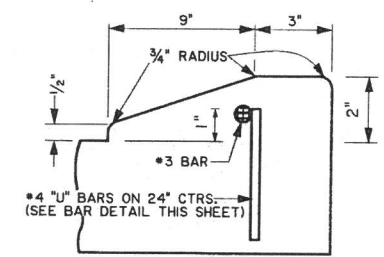
SECTION M-M (SLEEPER SLAB NOT SHOWN)



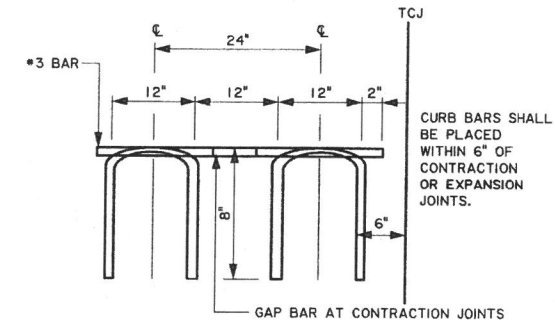
(BARRIER TYPE)



(MOUNTABLE TYPE)



MODIFIED BARRIER OR MOUNTABLE CURB THRU DRIVEWAY



BAR DETAIL

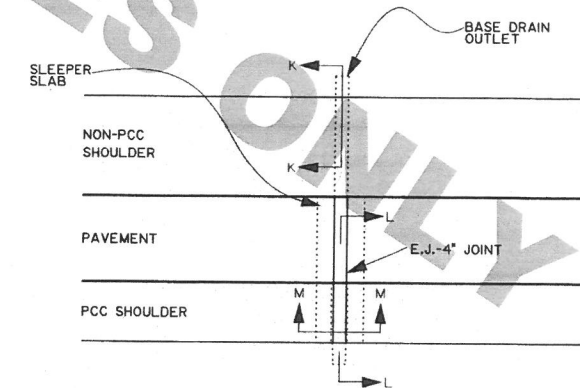
SHOWING DIMENSIONS AND SPACING OF #4 "U" BARS AND LONGITUDINAL BARS FOR CONC. CURB

CURB DETAILS

NOTES:

- POUR CURB INTEGRAL WITH PCC PAVEMENT OR GUTTER TO INSURE MONOLITHIC CONSTRUCTION UNLESS OTHERWISE APPROVED BY THE ENGINEER. CURB BARS ARE NOT REQUIRED WHERE CURB IS CONSTRUCTED MONOLITHIC WITH THE PAVEMENT.
- ALL BARS SHOWN SHALL BE DEFORMED REINFORCING STEEL.
- WHEN REPLACING OR ADDING CONCRETE CURB TO EXISTING PAVEMENT, CONNECT THE NEW CONCRETE CURB TO THE PAVEMENT WITH THE DEFORMED REINFORCING STEEL SHOWN BY DRILLING HOLES INTO THE EXISTING PAVEMENT 1/8" LARGER THAN THE BAR DIAMETER. ANCHOR THE BARS WITH AN APPROVED EPOXY RESIN SYSTEM FROM THE DOTD AML. APPLY EPOXY ADHESIVE, COMPLYING WITH AASHTO M235, TYPE V, TO THE SURFACE AREA WHERE THE CONCRETE CURB WILL BE PLACED. INCLUDE ALL COST RELATED TO THE CONSTRUCTION OF THE CURB, INCLUDING THE DRILLED HOLES, DEFORMED REINFORCING BARS, AND EPOXY, IN THE UNIT PRICE FOR THE CURB ITEM.

A BASE DRAIN OUTLET WILL BE REQUIRED AT E.J.-4 JOINTS UNLESS A SHOULDER UNDER DRAIN SYSTEM IS SPECIFIED ON THE PLANS, IN WHICH CASE, THE SHOULDER UNDER DRAIN FOR THE E.J. JOINT SHALL BE CONNECTED TO THE NEAREST STORM SEWER OR DISCHARGED THROUGH A HEADWALL. THE COST FOR THE BASE DRAIN OUTLET FOR THE E.J. JOINT IS TO BE INCLUDED IN THE COST OF THE PAVEMENT.



PLAN - BASE DRAIN OUTLET AT 4' E.J. EJ-4 JOINTS

DETAIL "G" - EJ-4" BASE DRAIN OUTLET

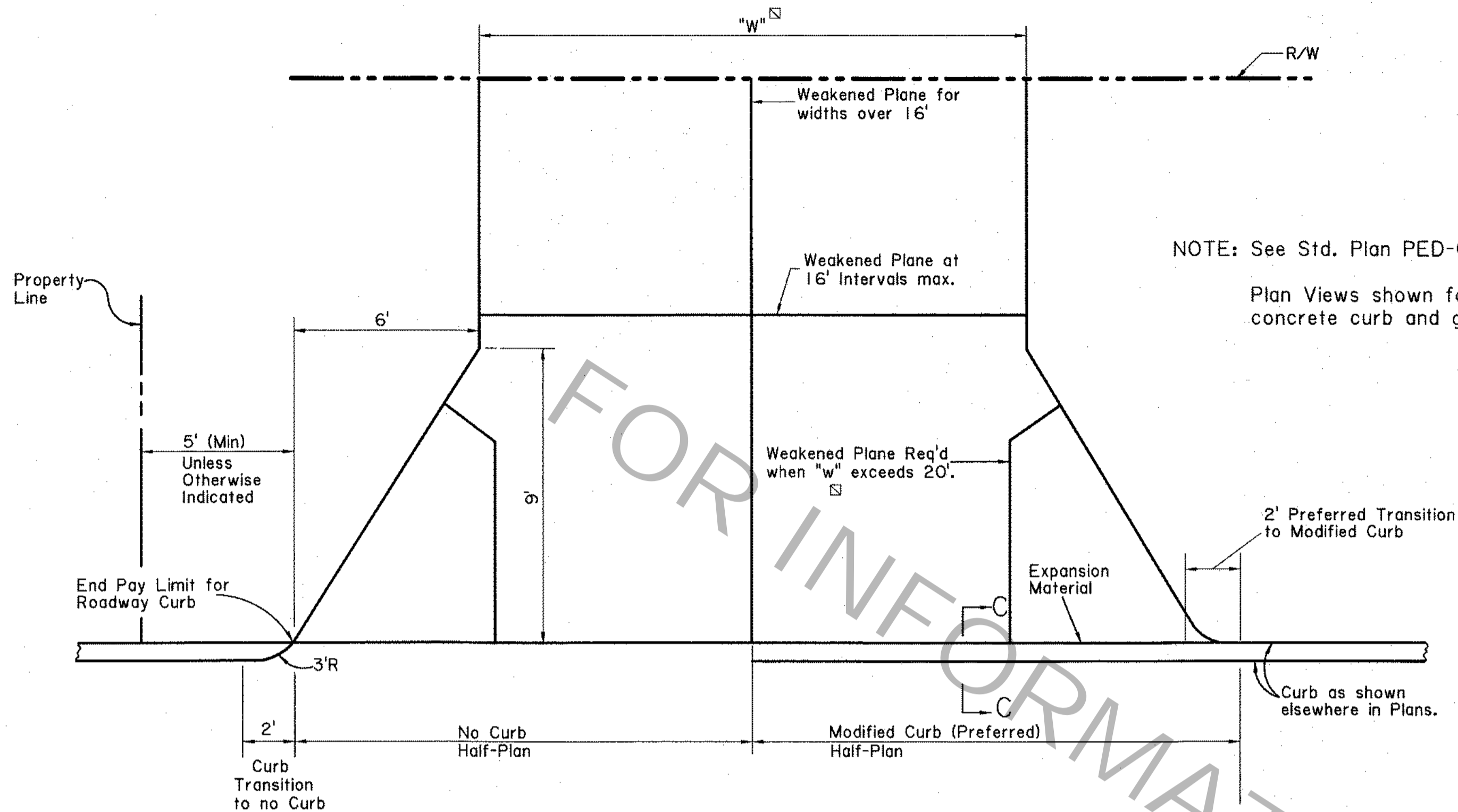
NOT TO SCALE

DESIGNED	H. DANG	DATE	5-11-2017
CHECKED	S. ARDOIN	REVISION OR CHANGE ORDER DESCRIPTION	
DETAILED	H. DANG	NO.	
CHECKED	S. ARDOIN	BY	Jessica P. Williams
SERIES NUMBER	3 OF 3	APPROVED BY CHIEF ENGINEER	



PORTLAND CEMENT CONCRETE PAVEMENT DETAILS

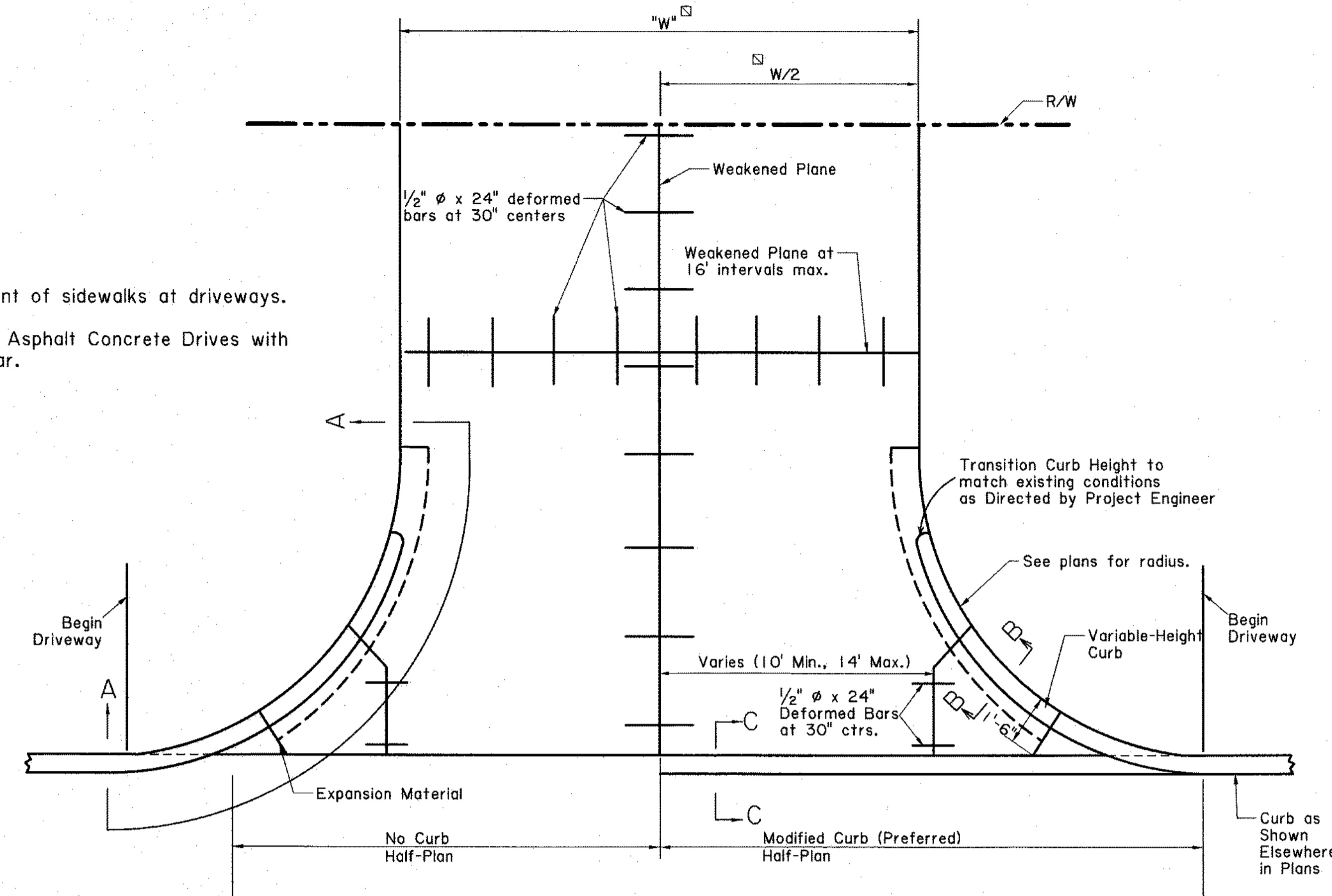




PLAN OF RESIDENTIAL DRIVEWAY

NOTE: Modified Curb to be Paid for as Normal Curb and will be used as shown in the plans or when directed by Project Engineer.
Radii transition shape may be used in lieu of flare.

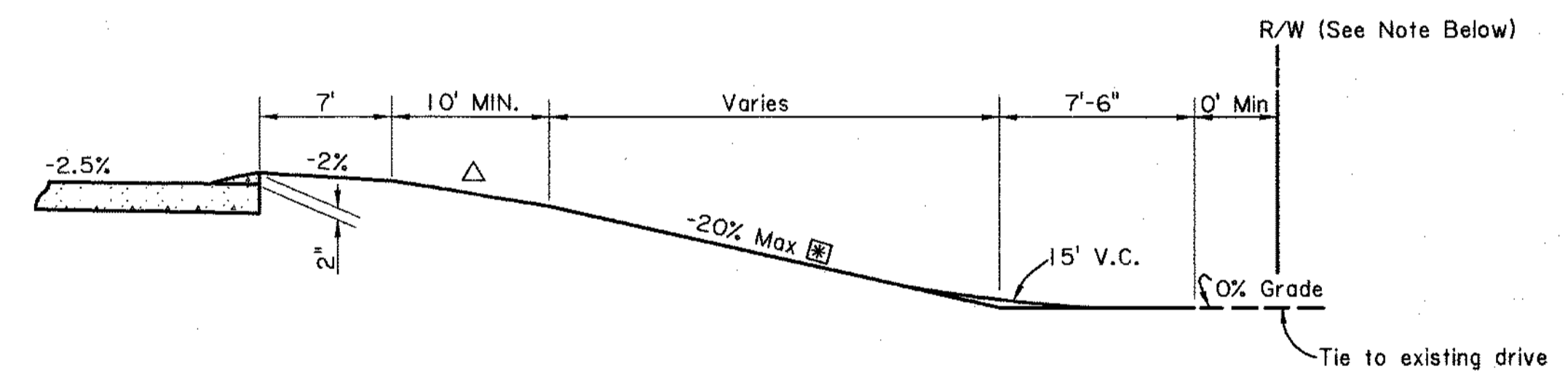
NOTE: See Std. Plan PED-01 for treatment of sidewalks at driveways.
Plan Views shown for PCC Drives. Asphalt Concrete Drives with concrete curb and gutter are similar.



PLAN OF COMMERCIAL DRIVEWAY

NOTE: Modified Curb to be paid for as Normal Curb and will be used as shown in the plans or when directed by Project Engineer.

When Curb is Required along Radii of Driveway, Payment for Toe Wall and Curb will be included in the price for Driveway items.
When Curb is not Required along Radii, Transition Curb as shown on Residential Driveway.

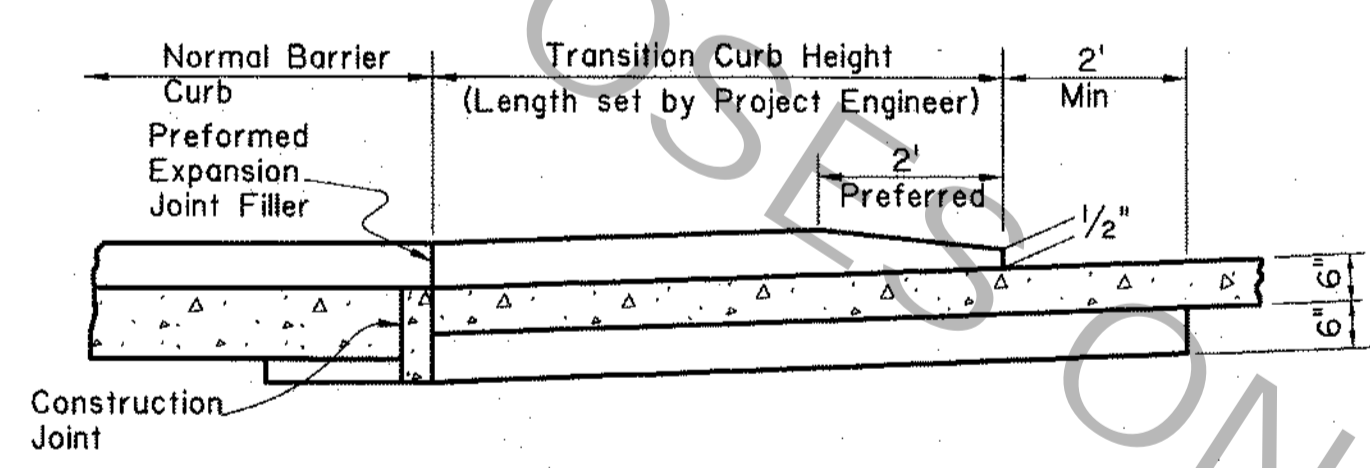


TYPICAL DRIVEWAY IN FILL

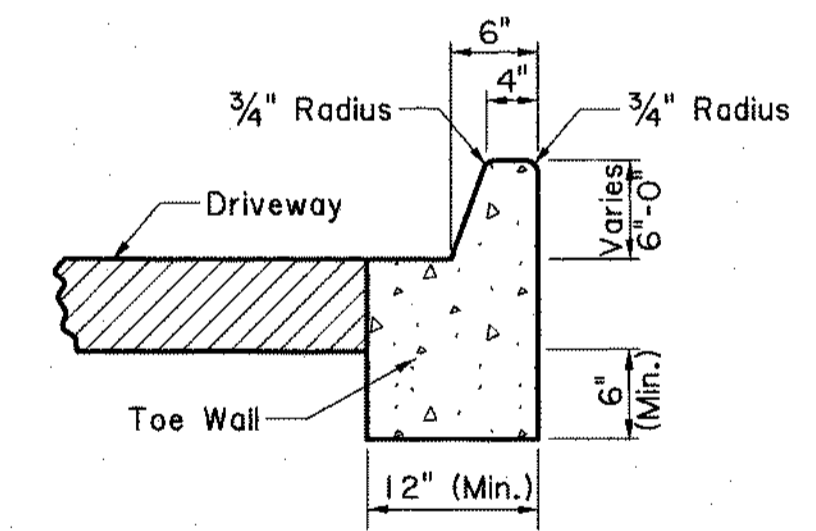
NOTE: Driveway Grades shown are Maximum. If R/W is not sufficient to construct Driveway, R/W Agreement or Construction Servitude should be secured to permit Construction of Driveway as shown.

☒ 25% Max Grade may be used in Special Cases, provided that Vertical Curve Lengths are increased accordingly.

△ Maximum change in grade shall be 10% for Crests and 9% for Sags for any combination of grades without Vertical Curves. These Maximum Grade changes should be at least 10' apart.

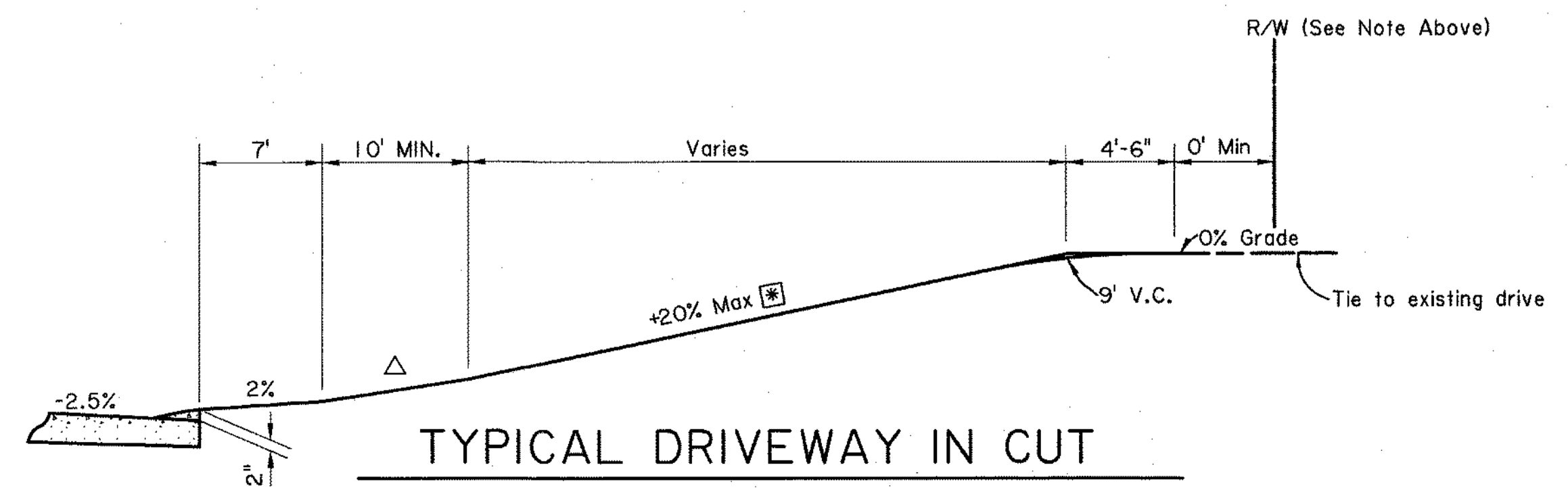


SECTION A-A
(Weakened Plane not shown.)

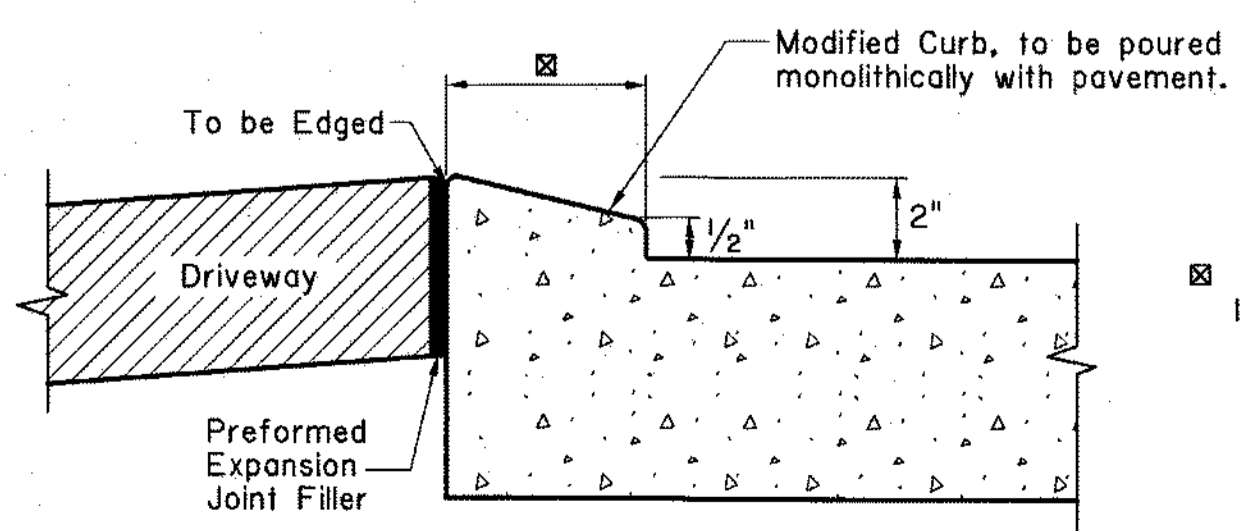


SECTION B-B

NOTE: For PCC Driveway, Curb, Toe Wall & Driveway to be poured monolithically.



TYPICAL DRIVEWAY IN CUT



SECTION C-C

NOTE: See Std. Plan CP-01 for Curb construction

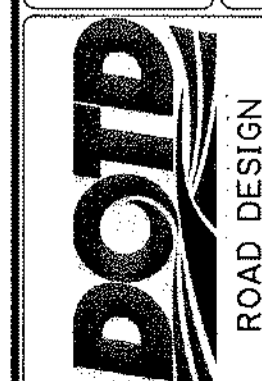
☒ 6" to match Barrier Curb
12" to match Mountable Curb

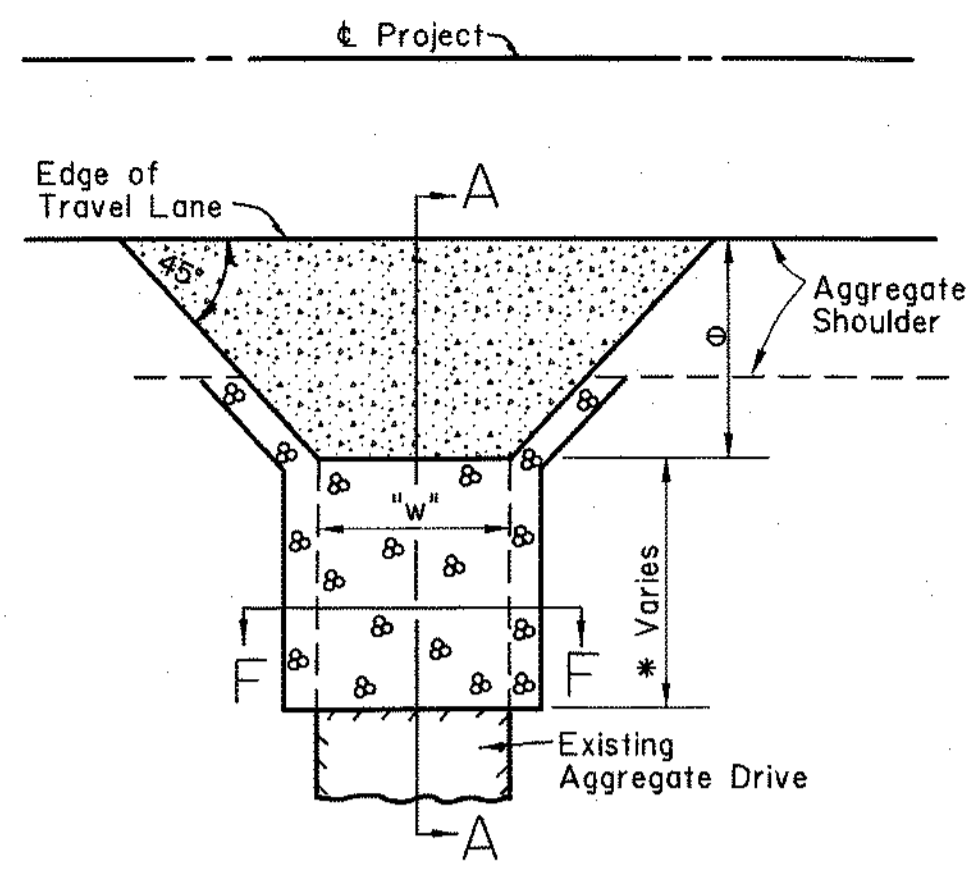


DESIGNED BY	P. TONEY	DATE	11-7-17
CHECKED BY	D. SMITH	REVISION DESCRIPTION	
DETAILS BY	P. TONEY		
CHECKED BY	D. SMITH		
SERIES NUMBER	1 of 1		



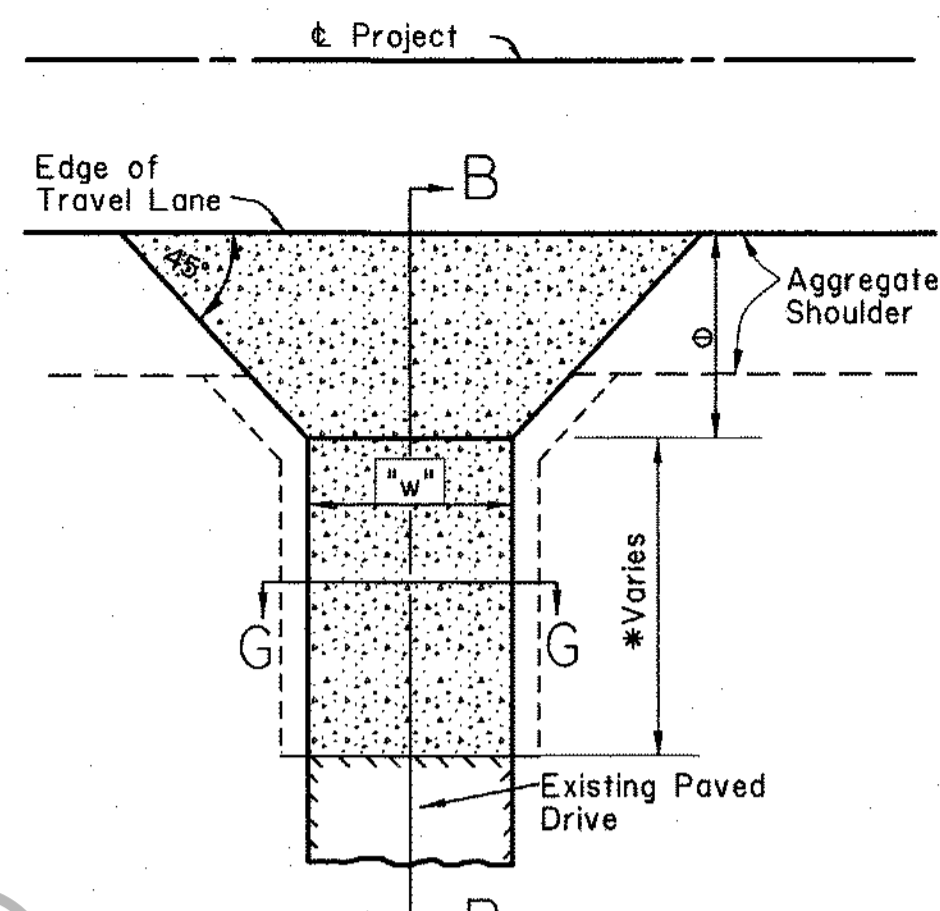
DRIVEWAYS ON CURBED ROADWAYS
STANDARD PLAN DW-01





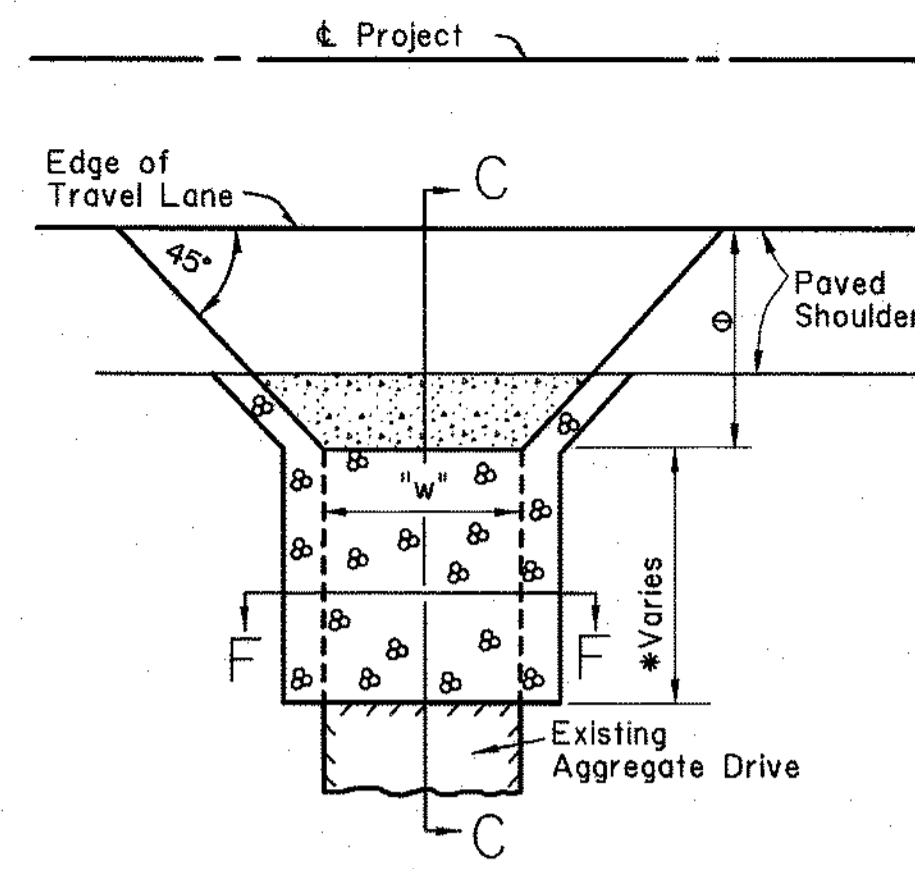
TYPE "A"

Paved Drive Along Aggregate Shoulder



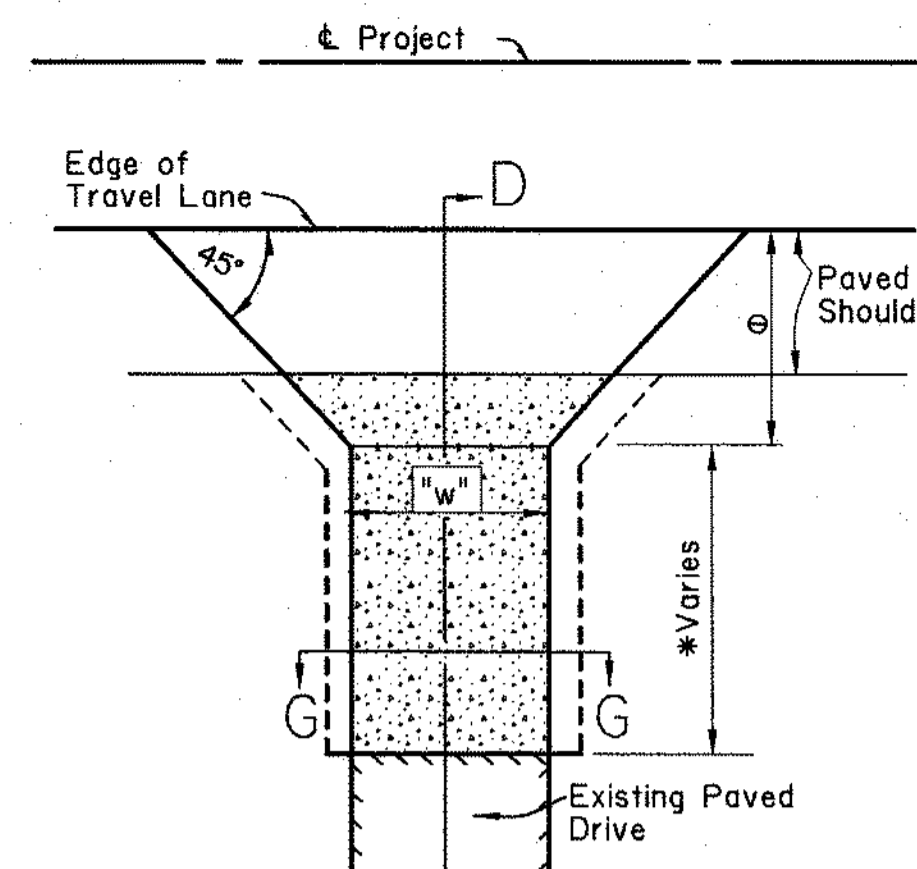
TYPE "B"

Paved Drive Along Aggregate Shoulder Connecting Existing Paved Drive



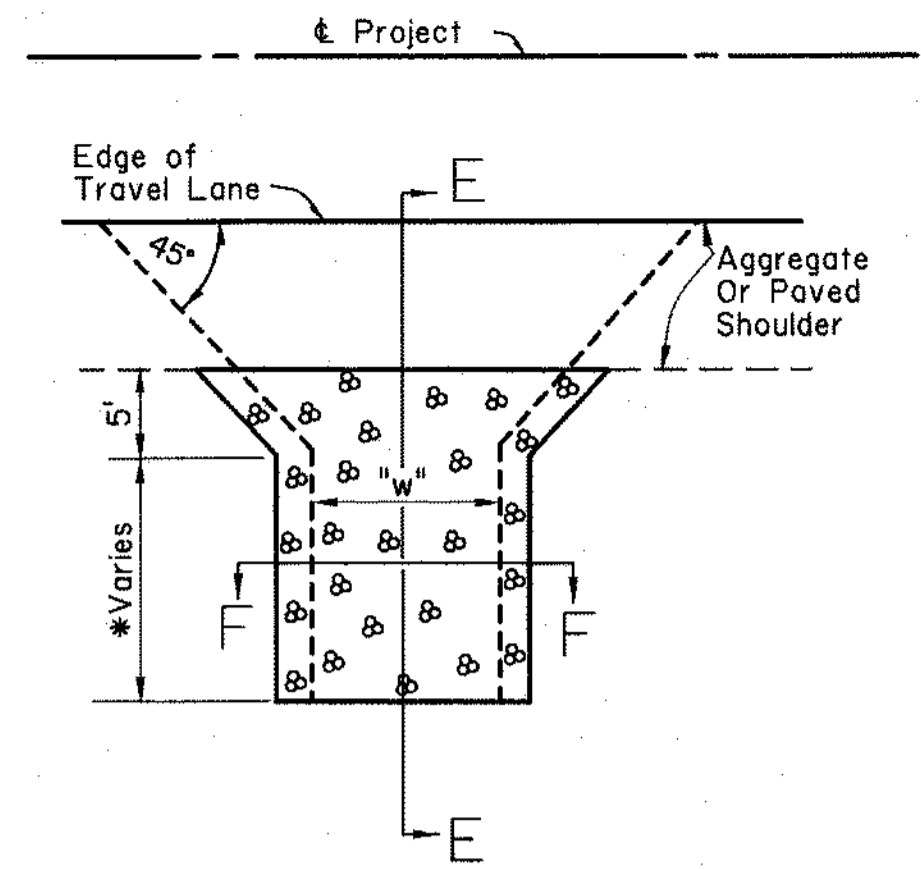
TYPE "C"

Paved Drive Along Paved Shoulder



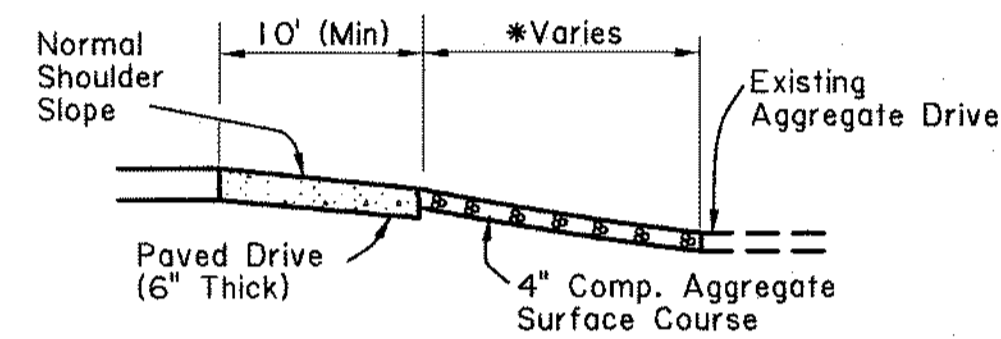
TYPE "D"

Paved Drive Along Paved Shoulder Connecting Existing Paved Drive

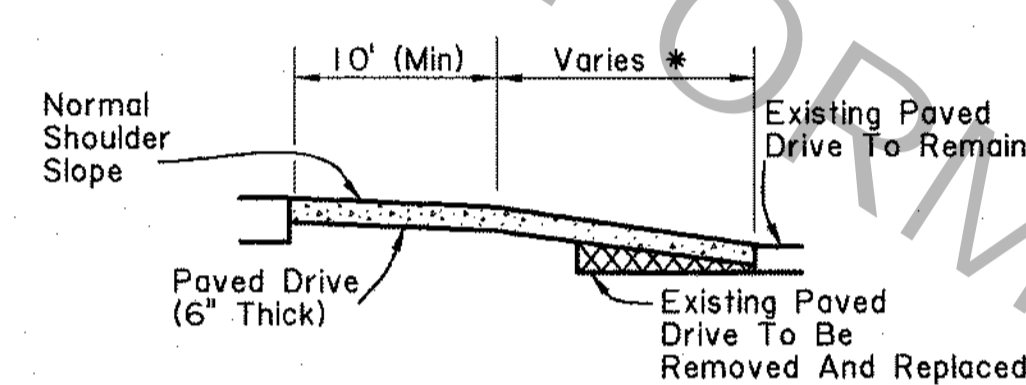


TYPE "E"

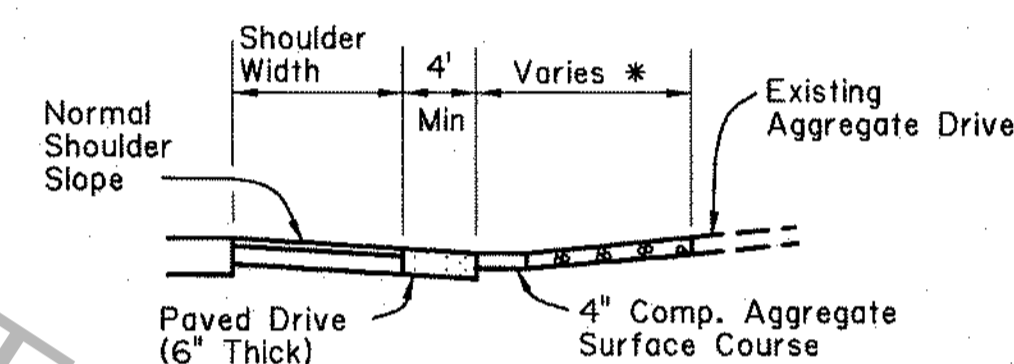
Aggregate Surface Course Drive To Be Used At Locations Where Drive Does Not Connect To Residence Or Commercial Establishments



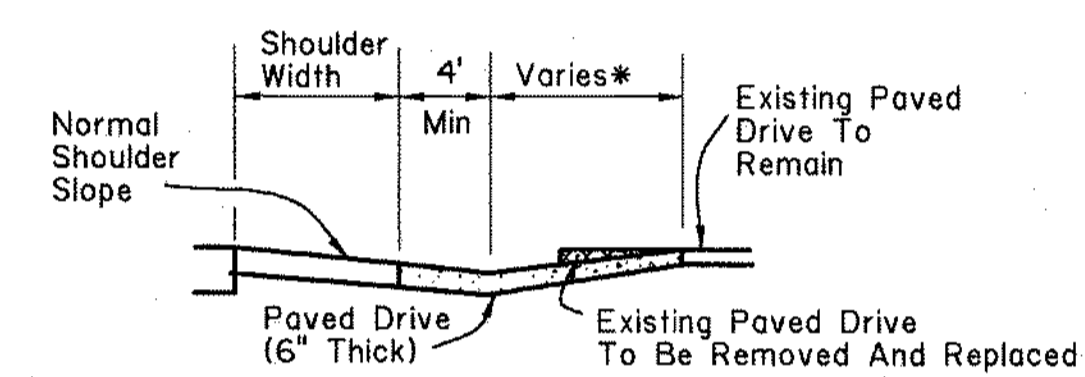
SECTION A-A



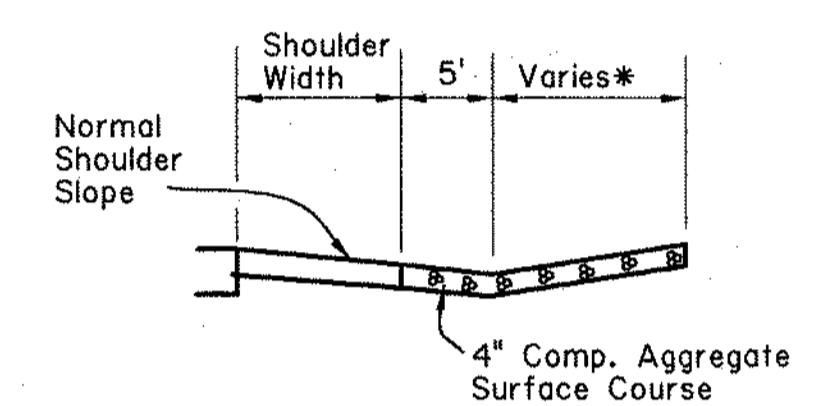
SECTION B-B



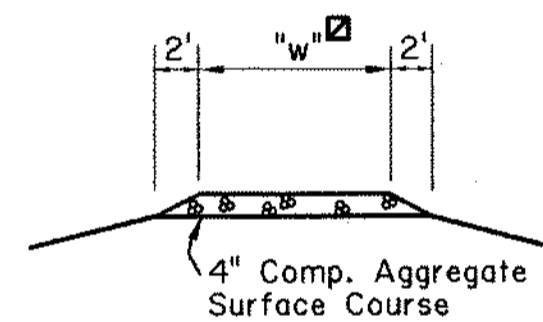
SECTION C-C



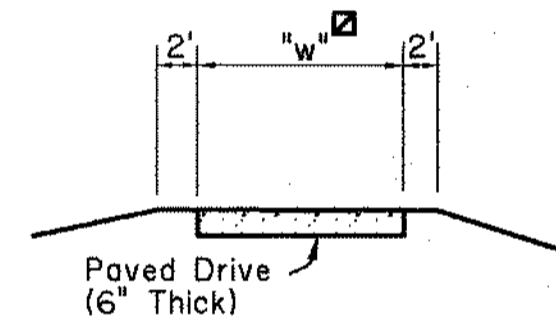
SECTION D-D



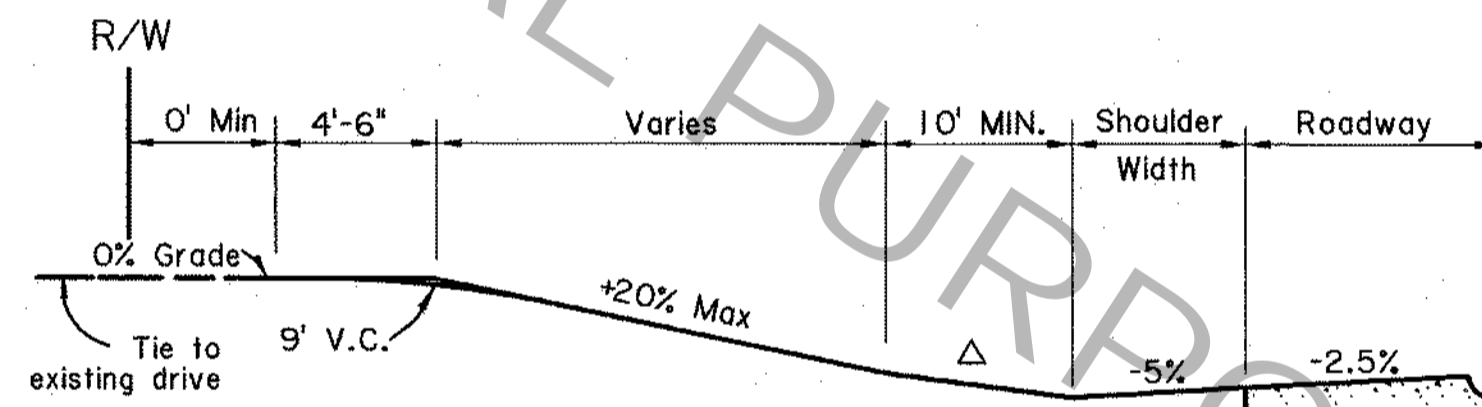
SECTION E-E



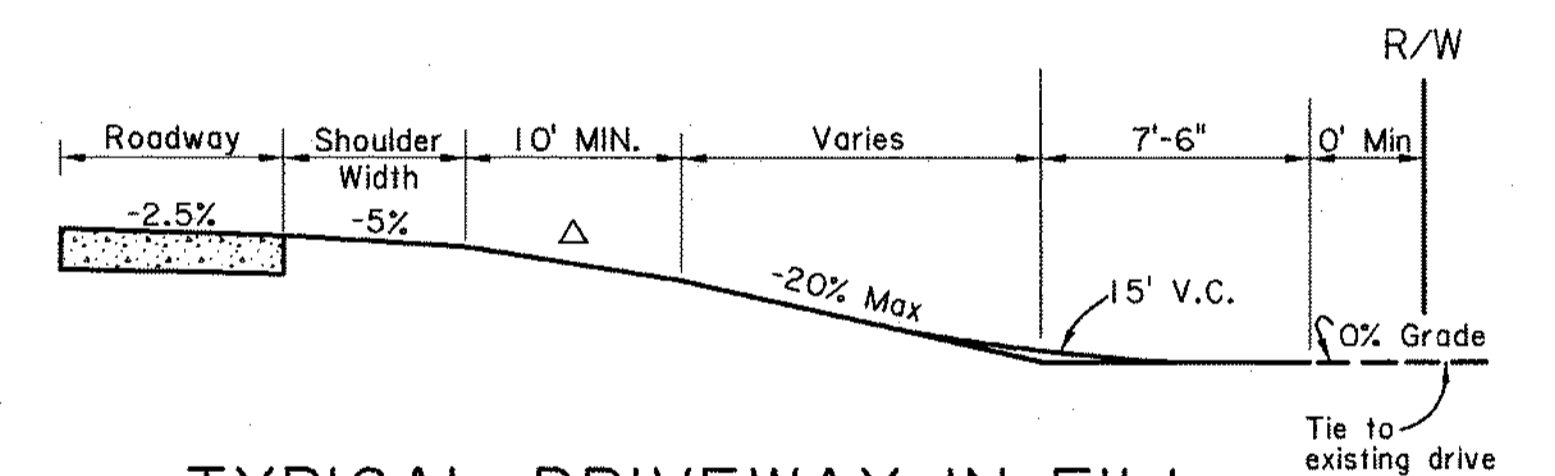
SECTION F-F



SECTION G-G



TYPICAL DRIVEWAY IN CUT



TYPICAL DRIVEWAY IN FILL

☐ "W" = Width as per plans

NOTES:

1. PORTLAND CEMENT CONCRETE DRIVES WILL BE CONSTRUCTED TO REPLACE OR CONNECT TO EXISTING CONCRETE DRIVES. ALL OTHER DRIVES ARE TO BE ASPHALT CONCRETE, EXCEPT AGGREGATE SURFACE COURSE IS TO BE USED ON INFREQUENTLY USED DRIVES WHICH DO NOT CONNECT TO RESIDENCES OR COMMERCIAL ESTABLISHMENTS.
- * 2. SEE PLANS; APPLIES WHERE EXISTING DRIVE IS TO BE REMOVED FOR ROADWAY CONSTRUCTION AND/OR TO ACHIEVE VERTICAL GEOMETRY REQUIREMENTS.
- ⊕ 3. PAVEMENT SHALL EXTEND 10' MIN FROM EDGE OF PAVED ROADWAY SURFACE (TRAVEL LANE) FOR SINGLE-FAMILY RESIDENTIAL/NON-COMMERICAL AGRICULTURE TYPE CONNECTIONS, AND 25' FOR TRAFFIC GENERATOR (COMMERCIAL) TYPE CONNECTIONS, OR AS PER THE PLANS. PAVED DRIVEWAY FLARE SHALL EXTEND 4' MINIMUM FROM EDGE OF PAVED SHOULDER. RADII TRANSITION SHAPE MAY BE USED IN LIEU OF FLARE.
4. WHEN PAVED DRIVES ARE PLACED IN TWO LIFTS, BINDER COURSE MAY BE USED IN THE FIRST LIFT.
5. COMPACTION OF SUBGRADE AND GRADING WORK FOR CONSTRUCTION OF THE PAVED DRIVES SHALL BE SATISFACTORY TO THE ENGINEER AND PAYMENT SHALL BE INCLUDED IN THE DRIVEWAY ITEMS.
- △ 6. MAXIMUM DRIVEWAY GRADE SHALL BE 20% (25% FOR SPECIAL CASES). MAXIMUM BREAK IN GRADE WITHOUT A VERTICAL CURVE SHALL BE 10% FOR CRESTS AND 9% FOR SAGS, AT NOT LESS THAN 10' INTERVALS.

NOTES FOR OVERLAY PROJECTS:

1. WHEN PAVED DRIVES ARE PLACED IN TWO LIFTS, BINDER COURSE MAY BE USED IN THE FIRST LIFT.
2. DRIVE WIDTHS AND FLARE DIMENSIONS TO BE ADJUSTED TO MATCH EXISTING CONDITIONS AS DIRECTED BY THE PROJECT ENGINEER.
3. LENGTH OF OVERLAY TRANSITION TO BE SET BY PROJECT ENGINEER TO ACHIEVE A SUITABLE CONNECTION FOR EXISTING DRIVE.

LEGEND

- PAVED
- AGGREGATE
- REMOVAL

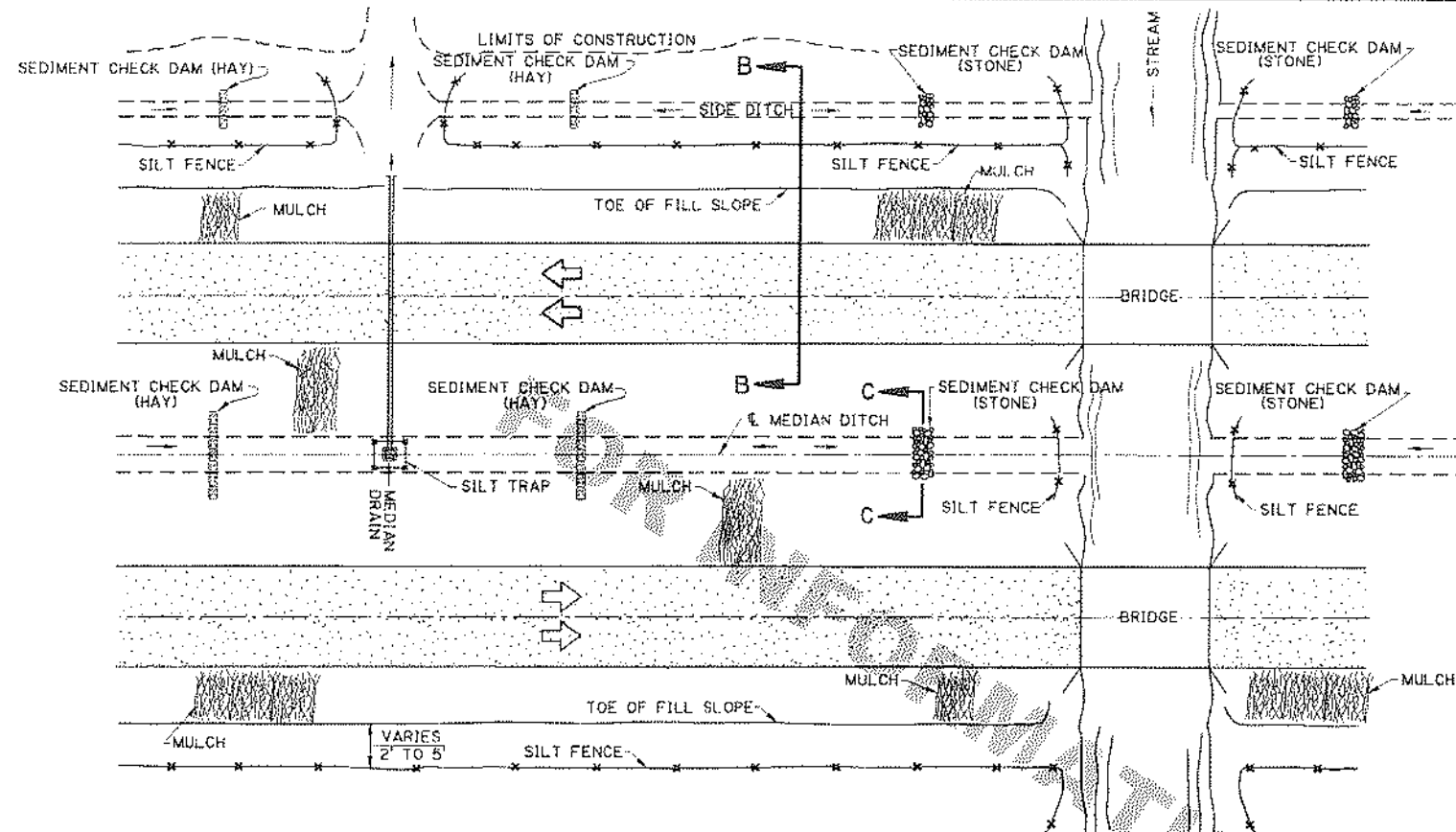


SHEET NUMBER	211
DESIGNED BY	P. TONEY
CHECKED BY	D. SMITH
DATE	11-17-17
REVISION DESCRIPTION	
BY	Jessie P. Williams
CHIEF ENGINEER	



DRIVEWAYS ON NON-CURBED ROADWAYS
STANDARD PLAN DW-02



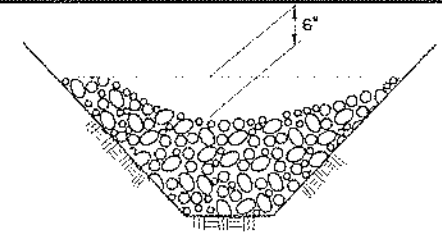


PLAN SHOWING TYPICAL TEMPORARY EROSION CONTROL

MULCHES

MULCHES ARE THE APPLICATION OF MATS OF MATERIAL PLACED ON THE SOIL SURFACE TO PREVENT EROSION BY PROTECTING THE SOIL SURFACE FROM RAINDROP IMPACT AND TO REDUCE THE VELOCITY OF OVERLAND FLOW. MULCHES CAN BE ORGANIC OR SYNTHETIC. MULCHES SHALL BE IN ACCORDANCE WITH PROJECT SPECIFICATIONS FOR TEMPORARY EROSION CONTROL. A FEW GUIDELINES FOR THE USE OF MULCHES ARE:

1. USE ON CUT AND EMBANKMENT SLOPES WHICH HAVE NOT BEEN COMPLETED TO PLAN GRADE OR WHERE THE WEATHER OR SOIL CONDITIONS WILL NOT PERMIT COMPLETING THEM WITHIN A REASONABLE TIME
2. USE ON CLEARED, GRUBBED, AND SCALPED AREAS WHERE SOIL EROSION IS LIKELY TO OCCUR
3. USE WITH TEMPORARY SEEDING



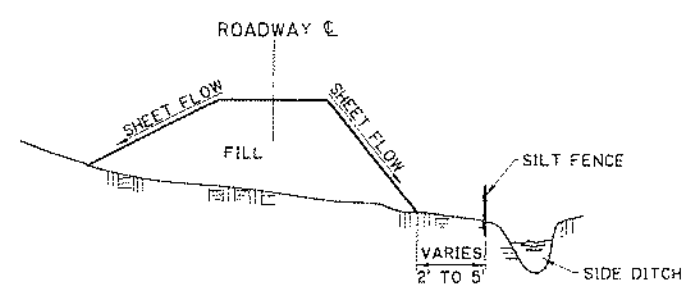
SECTION C-C

TEMPORARY SEDIMENT CHECK DAM (STONE)

PAY ITEM: TEMPORARY SEDIMENT CHECK DAM (STONE)

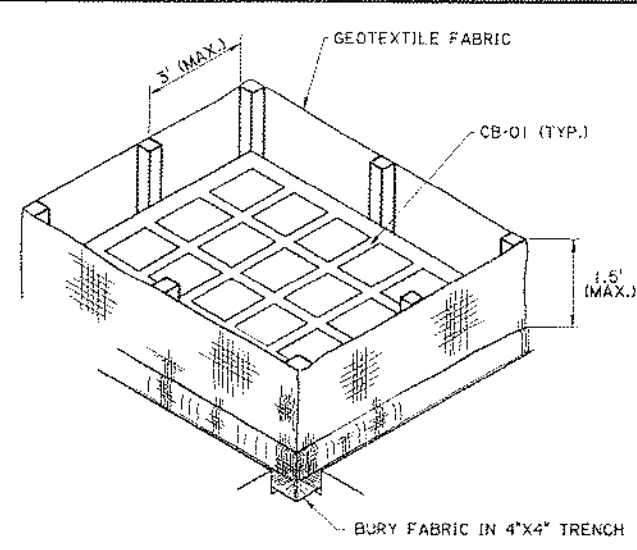
NOTES:
A STONE CHECK DAM IS A SMALL TEMPORARY DAM CONSTRUCTED ACROSS A SWALE OR DRAINAGE DITCH. THE PURPOSE OF THIS MEASURE IS TO REDUCE THE VELOCITY OF CONCENTRATED STORM WATER FLOWS, THEREBY REDUCING EROSION OF THE SWALE OR DITCH. THE STONE CHECK DAM WILL TRAP SMALL AMOUNTS OF SEDIMENTS GENERATED IN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

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

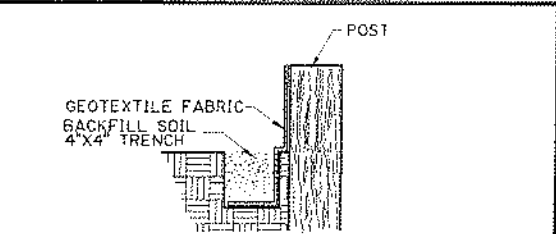


SECTION B-B

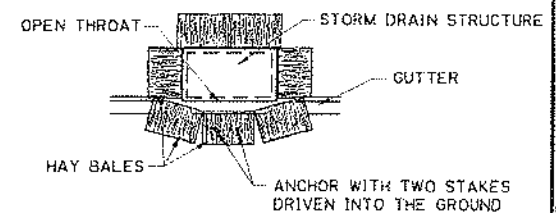
TEMPORARY SILT FENCE APPLICATION
(FOR CONSTRUCTION DETAILS AND SPECIFICATIONS SEE SHEET 2 OF 2.)



ISOMETRIC VIEW SHOWING GEOTEXTILE FABRIC
(BACKFILL SOIL NOT SHOWN)



SECTION THRU TRENCH SHOWING GEOTEXTILE FABRIC



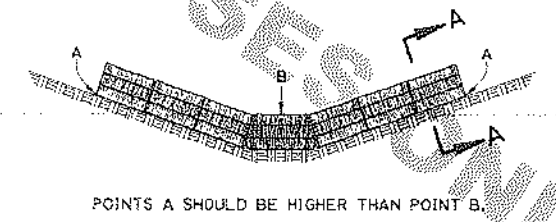
PLAN SHOWING HAY BALES

PAY ITEM: TEMPORARY HAY OR STRAW BALES

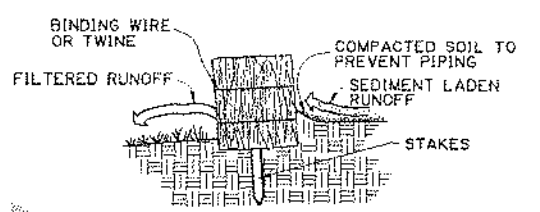
TEMPORARY INLET SILT TRAP

THE TEMPORARY DROP INLET SILT TRAP IS TO BE USED FOR SMALL DRAINAGE AREAS (LESS THAN 1 ACRE) WHERE THE STORM DRAIN IS FUNCTIONAL BEFORE THE AREA IS STABILIZED. THE TRAP CAN BE EITHER GEOTEXTILE FABRIC OR HAY BALES.

1. THE GEOTEXTILE FABRIC SHALL CONFORM TO PROJECT SPECIFICATIONS FOR GEOTEXTILE FABRIC (CLASS G).
2. WOODEN STAKES SUPPORTING THE FABRIC SHALL BE 2" X 2" OR 2" X 4" WITH A MINIMUM LENGTH OF 3 FEET. THE STAKES SHALL BE SPACED AROUND THE INLET AT A MAXIMUM SPACING OF 3 FEET.
3. THE HEIGHT OF THE FABRIC ABOVE THE INLET SHALL BE LIMITED TO 1.5' AND THE BOTTOM OF THE FABRIC SHALL BE BURIED IN A TRENCH APPROXIMATELY 4" WIDE BY 4" DEEP. THE FABRIC SHALL BE STAPLED TO THE POST WITH 1/2" STAPLES.
4. THE TRAP SHOULD BE INSPECTED REGULARLY AND AFTER EACH STORM. THE SEDIMENT SHOULD BE REMOVED AND EACH STAKE SHOULD BE FIRMLY IN THE GROUND.
5. HAY BALES SHALL BE PLACED SO THAT THE BINDING WIRE OR TWINE IS NOT IN CONTACT WITH THE GROUND.



ELEVATION



SECTION A-A

TEMPORARY SEDIMENT CHECK DAM (HAY)

PAY ITEM: TEMPORARY SEDIMENT CHECK DAM (HAY)

NOTES:

A HAY BALE BARRIER IS A TEMPORARY SEDIMENT BARRIER CONSISTING OF A ROW OF ENTRENCHED AND ANCHORED BALES OF STRAW OR HAY. THE HAY BALE BARRIER IS ALSO USED AS A CHECK DAM TO REDUCE THE VELOCITY IN SMALL DITCHES OR SWALES. THE HAY BALES SHALL BE IN ACCORDANCE WITH PROJECT SPECIFICATIONS FOR TEMPORARY EROSION CONTROL. A FEW BASIC DESIGN GUIDELINES FOR THE USE OF A HAY BALE BARRIER ARE:

1. USE WHERE EROSION WOULD OCCUR IN THE FORM OF SHEET AND RILL EROSION
2. USE IN MINOR SWALES OR DITCHES WHERE THE MAXIMUM DRAINAGE AREA IS 2 ACRES
3. ONLY USE WHERE THE EFFECTIVENESS IS REQUIRED FOR LESS THAN 3 MONTHS
4. DO NOT USE IN LIVE STREAMS OR IN SWALES OR DITCHES WHERE THERE IS A POSSIBILITY OF A WASHOUT

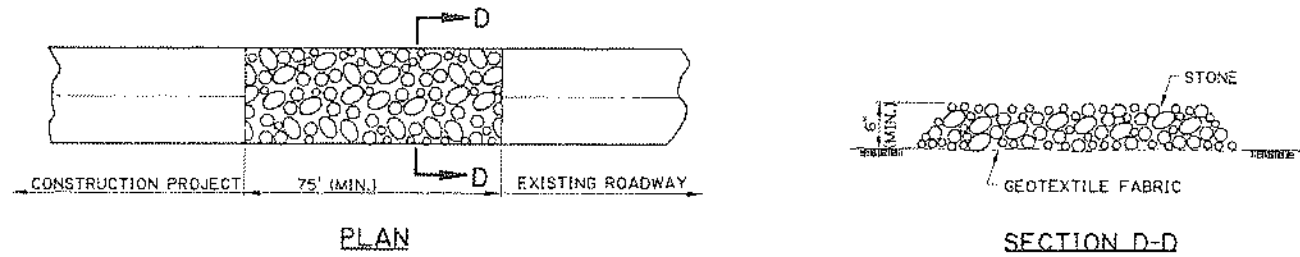
SHEET NUMBER	212
DESIGNED BY	JCM
CHECKED BY	JCM
DATE	10-1-08
REVISIONS	GENERAL REVISIONS: MH
DATE	10-1-08
BY	W. H. Temple



TEMPORARY EROSION CONTROL DETAILS



HYDRAULICS SECTION



TEMPORARY STONE CONSTRUCTION ENTRANCE

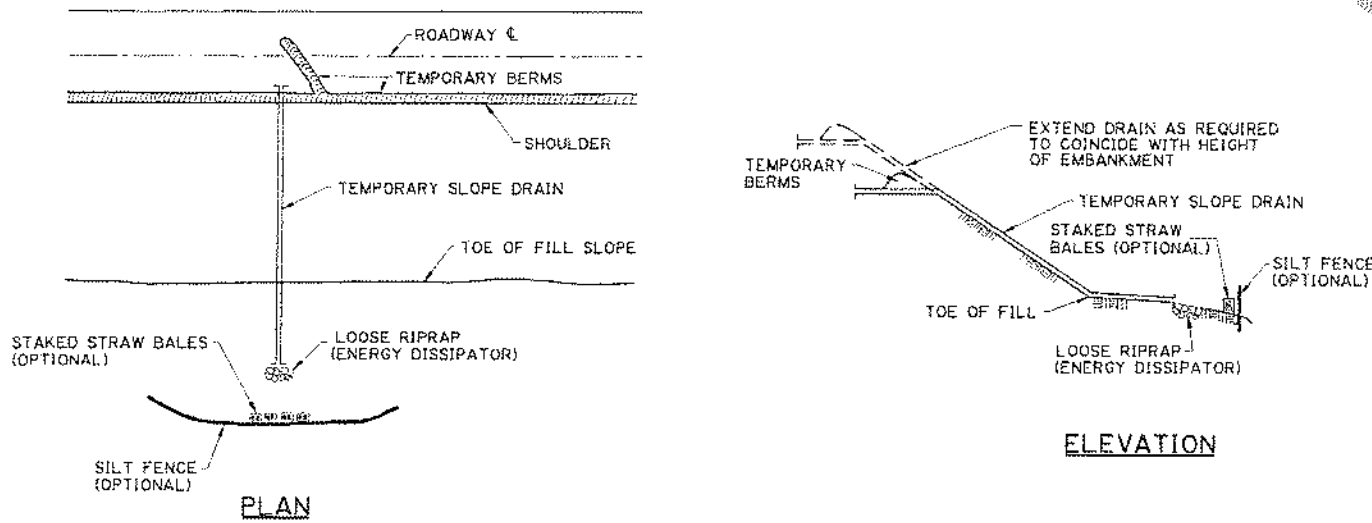
PAY ITEM: TEMPORARY STONE CONSTRUCTION ENTRANCE

NOTES:

TEMPORARY STONE CONSTRUCTION ENTRANCE AND/OR WASH RACK

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

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



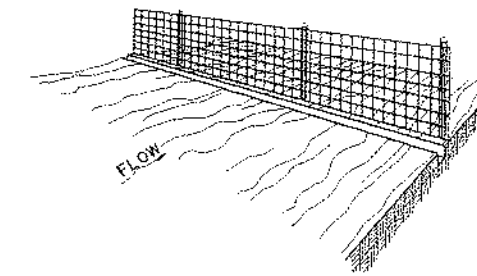
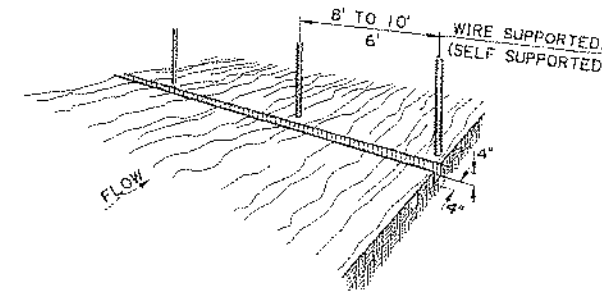
TEMPORARY SLOPE DRAIN

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

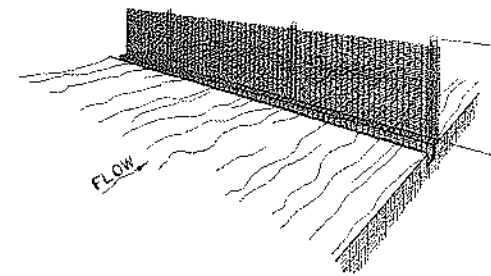
1. THE SPACING OF THE SLOPE DRAINS VARIES WITH THE ROAD GRADE.
 FOR GRADES: 0.0% - 2.0% USE 500' SPACING
 2.1% - 5.0% USE 200' SPACING
 GREATER THAN 5.0% USE 100' SPACING
2. SLOPE DRAIN MATERIAL: SMOOTH PIPE - 8" MINIMUM - 3 MILS THICK MIN.
 CORRUGATED PIPE - 12" MINIMUM
 PLASTIC SHEETING - 4' WIDE MINIMUM
 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.

1. SET POSTS AND EXCAVATE A 4" X 4" TRENCH UPSLOPE ALONG THE LINE OF POSTS.

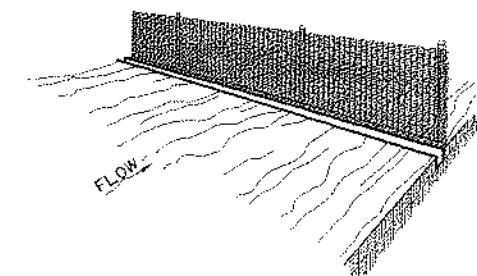
2. STAPLE WIRE FENCING TO THE POSTS.



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



4. BACKFILL AND COMPACT EXCAVATED SOIL.



CONSTRUCTION OF TEMPORARY SILT FENCING

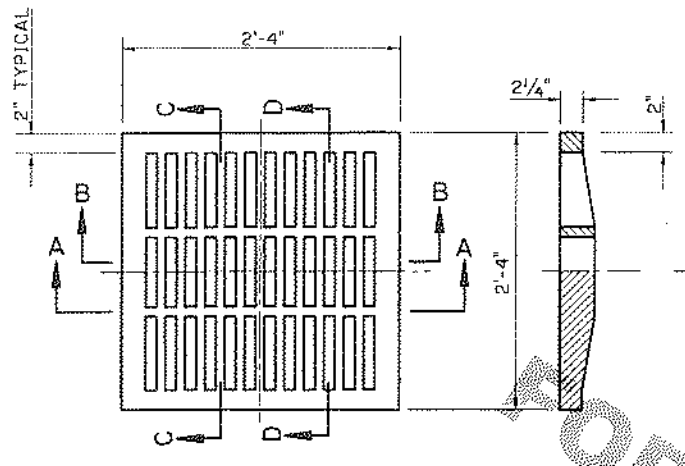
(WIRE SUPPORTED SILT FENCE IS SHOWN. SELF SUPPORTED SILT FENCE WILL BE CONSTRUCTED ACCORDING TO MANUFACTURERS SPECIFICATIONS.)

NOTES:

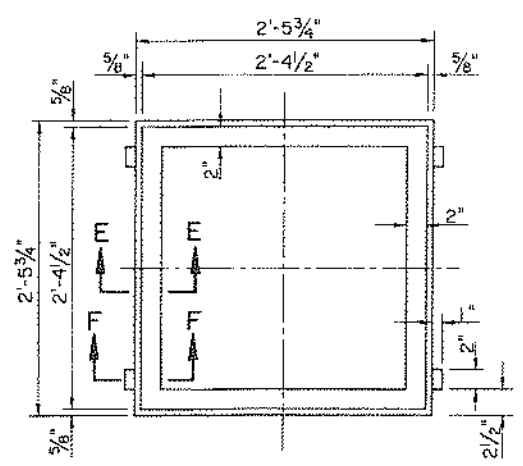
SILT FENCING IS A TEMPORARY SEDIMENT BARRIER CONSISTING OF A FILTER FABRIC SUPPORTED BY POSTS AND STRETCHED ACROSS AN AREA TO INTERCEPT AND DETAIN SMALL AMOUNTS OF SEDIMENT. THE SILT FENCING SHALL BE IN ACCORDANCE WITH PROJECT SPECIFICATIONS FOR TEMPORARY EROSION CONTROL. A FEW BASIC GUIDELINES FOR THE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

1. USE WHERE EROSION WOULD OCCUR IN THE FORM OF SHEET AND RILL EROSION
2. USE WHERE THE MAXIMUM DRAINAGE AREA BEHIND THE SILT FENCE IS 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

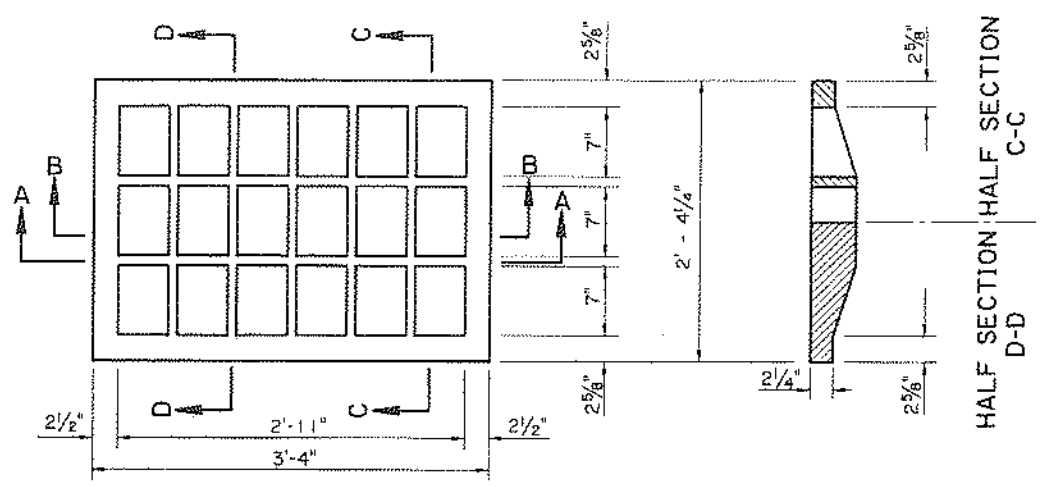
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DESIGNED	JCM	
CHECKED	KAJ	
DATE	1-16-94	
SHEET	2 OF 2	
REVISIONS	GENERAL REVISIONS	
DATE	10-1-08	
BY	W. H. Temple	
APPROVED BY		
TEMPORARY EROSION CONTROL DETAILS EC-01		
HYDRAULICS SECTION		



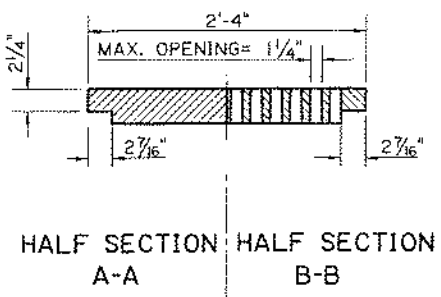
PLAN OF CAST IRON GRATE



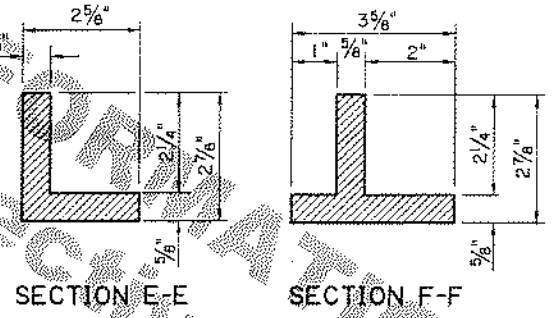
PLAN OF CAST IRON FRAME



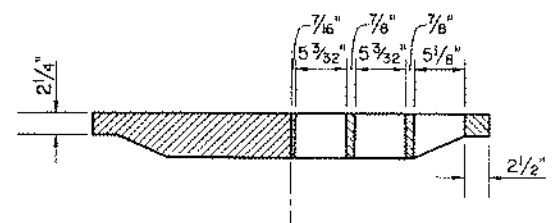
PLAN OF CAST IRON GRATE



HALF SECTION A-A HALF SECTION B-B



SECTION E-E SECTION F-F



HALF SECTION A-A HALF SECTION B-B

TYPE "A"

CAST IRON GRATE & FRAME
MIN. OPENING = 290 SQ. IN. AREA

TYPE "B"

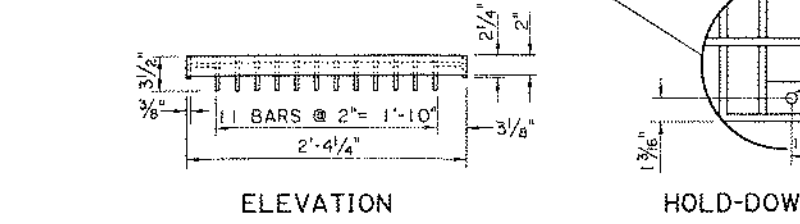
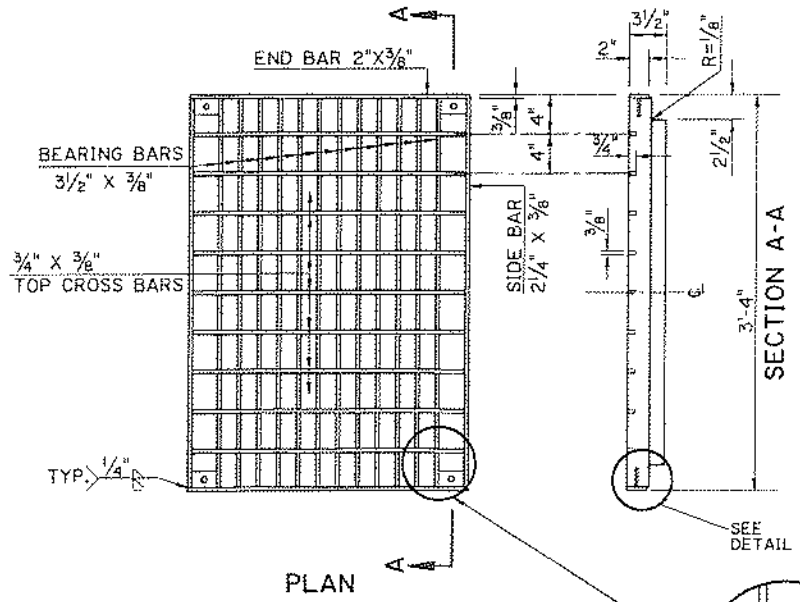
CAST IRON GRATE

NOTE: UNLESS OTHERWISE STATED, TYPE "E" FRAME WILL BE USED WITH THIS GRATE.

TYPE "C"

STEEL DRAIN GRATE

- NOTES:
1. GRATES TO BE GALVANIZED AFTER FABRICATION.
 2. UNLESS OTHERWISE STATED, TYPE "E" FRAME IS TO BE USED WITH THESE GRATES. (SEE SHEET 2)
 3. SUPPLIER OF GRATE ALSO IS TO FURNISH PRE-FITTED GRATE FRAME.

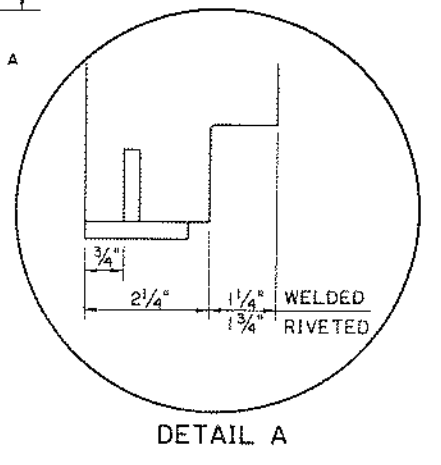
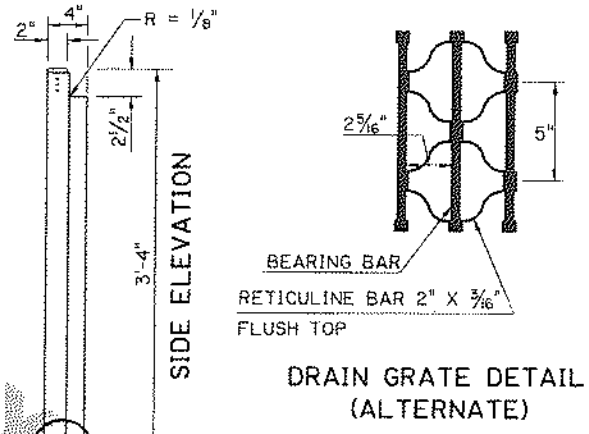
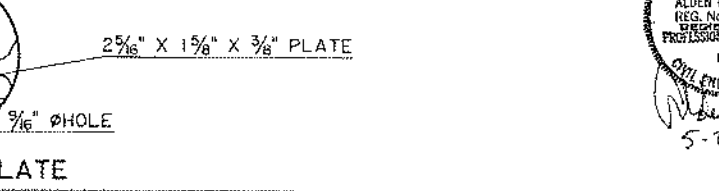
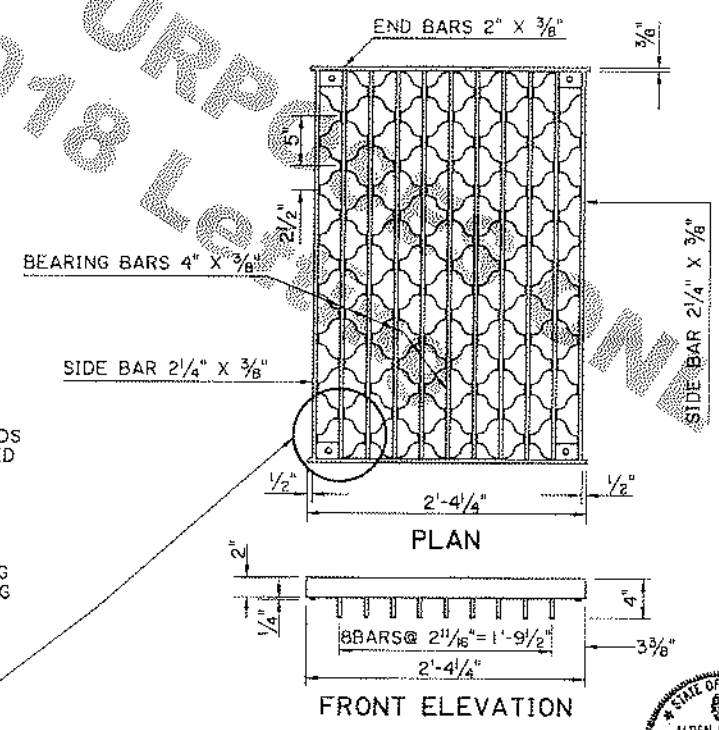
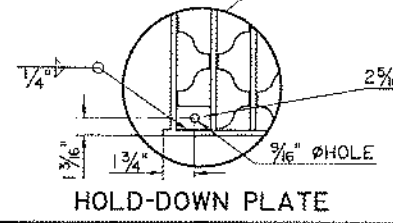


WELDED & SEALED DRAIN GRATE

ALL JOINTS FULL DEPTH 1/4" FILLET WELDS WITH SEAL WELDS TOP AND BOTTOM UNLESS NOTED OTHERWISE.
ALL BEARING BARS TO BE SET FLUSH ON GRATE FRAME.
WEIGHT OF DRAIN GRATE = 233 LBS. ± 5%

RIVETED RETICULINE DRAIN GRATE (ALTERNATE)

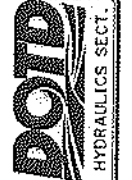
ALL JOINTS FULL DEPTH 1/4" FILLET WELDS WITH SEAL WELDS TOP AND BOTTOM UNLESS NOTED OTHERWISE.
ALL BEARING BARS TO BE SET FLUSH ON GRATE FRAME.
CENTER TO CENTER OF BEARING BARS EQUAL 2 5/16" PLUS BEARING BAR THICKNESS.
WEIGHT OF DRAIN GRATE = 266 LBS. ± 5%



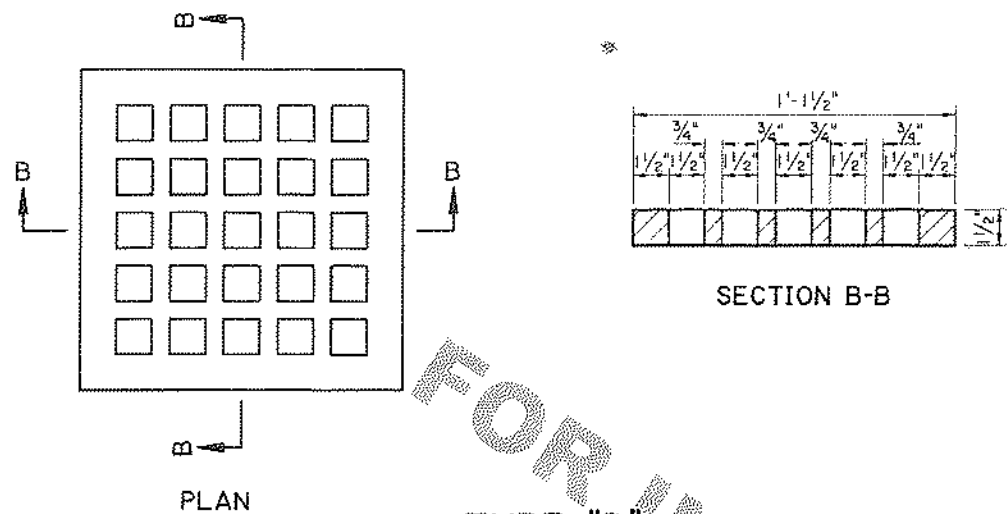
STATE OF LOUISIANA
ALDEN M. ALLEN
REG. No. 20292
PROFESSIONAL ENGINEER
IN
CIVIL ENGINEERING
5-25-2018



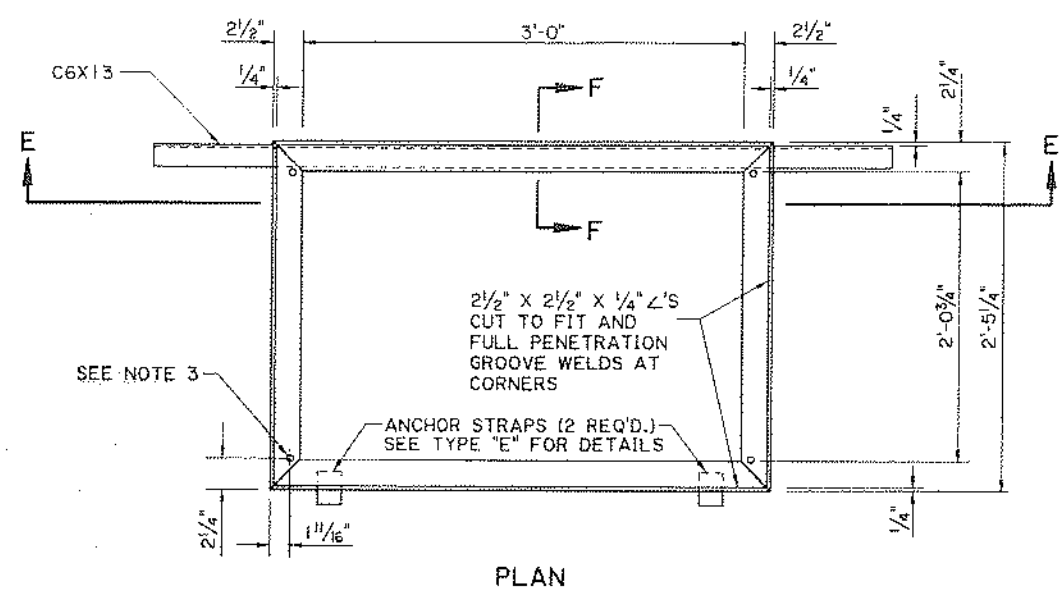
DETAILS OF GRATES, GRATE FRAMES AND COVERS FOR CATCH BASINS AND MANHOLES



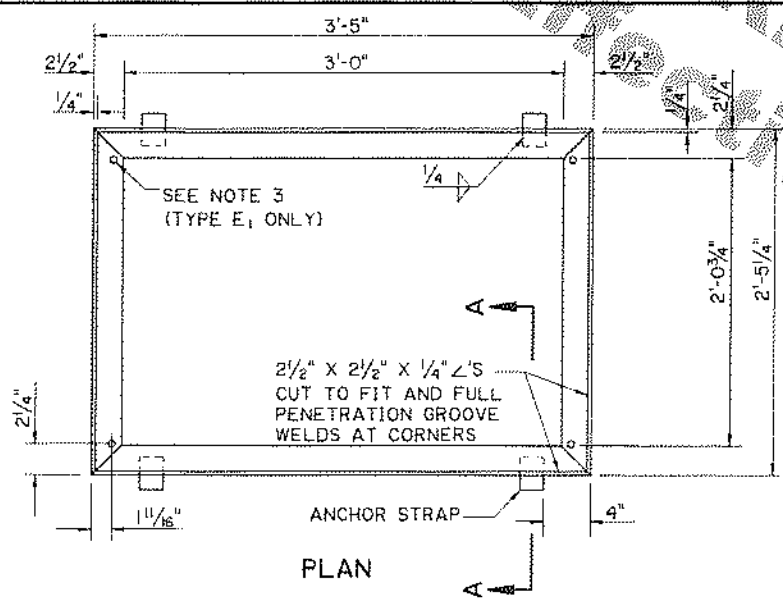
FOR INFORMATIONAL PURPOSES ONLY
Effective 12/12/2018



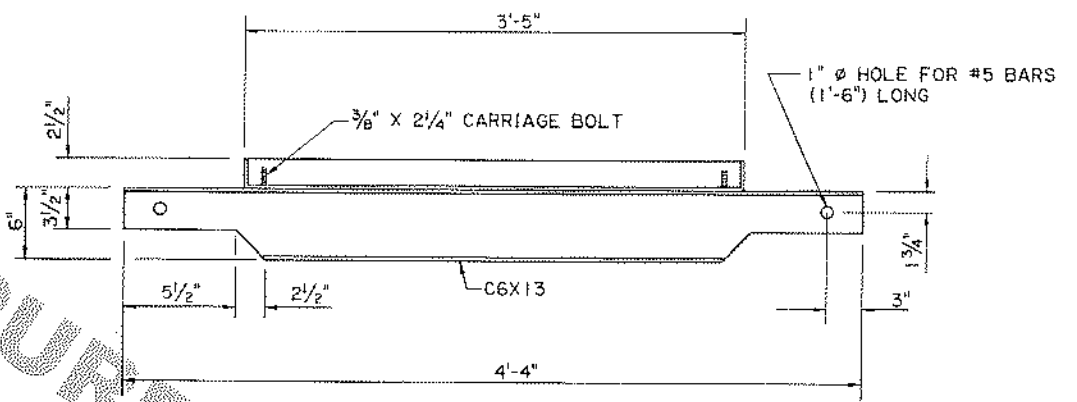
TYPE "D"
CAST IRON GRATE
WEIGHT OF CASTING = 49 LBS



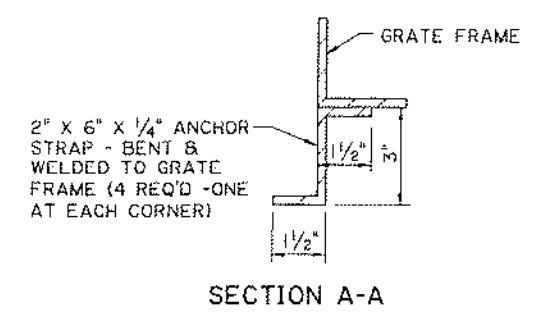
PLAN



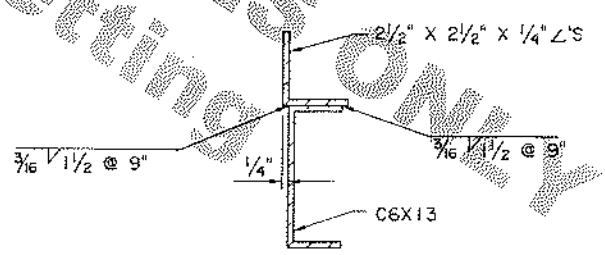
PLAN



SECTION E-E



SECTION A-A



SECTION F-F

TYPE "E" AND "E1"
STEEL GRATE FRAME

TYPE "F"
STEEL GRATE FRAME

- NOTES: 1. GRATE FRAME TO BE GALVANIZED AFTER FABRICATION
 2. WEIGHT OF GRATE FRAME = 52 LBS
 3. SQUARE PUNCH HOLE PRIOR TO GALVANIZING. ADD A 3/8" ϕ X 2 1/4" LONG -16 UNC ROUND HEAD SQUARE NECK CARRIAGE BOLT WITH JAM NUT, HEX HEAD NUT, AND FLAT WASHER (ALL STAINLESS STEEL) AFTER FRAME IS GALVANIZED.

- NOTES: 1. GRATE FRAME TO BE GALVANIZED AFTER FABRICATION
 2. WEIGHT OF GRATE FRAME = 52 LBS \pm 5%
 3. SQUARE PUNCH HOLE PRIOR TO GALVANIZING. ADD A 3/8" ϕ X 2 1/4" LONG -16 UNC ROUND HEAD SQUARE NECK CARRIAGE BOLT WITH JAM NUT, HEX HEAD NUT, AND FLAT WASHER (ALL STAINLESS STEEL) AFTER FRAME IS GALVANIZED.

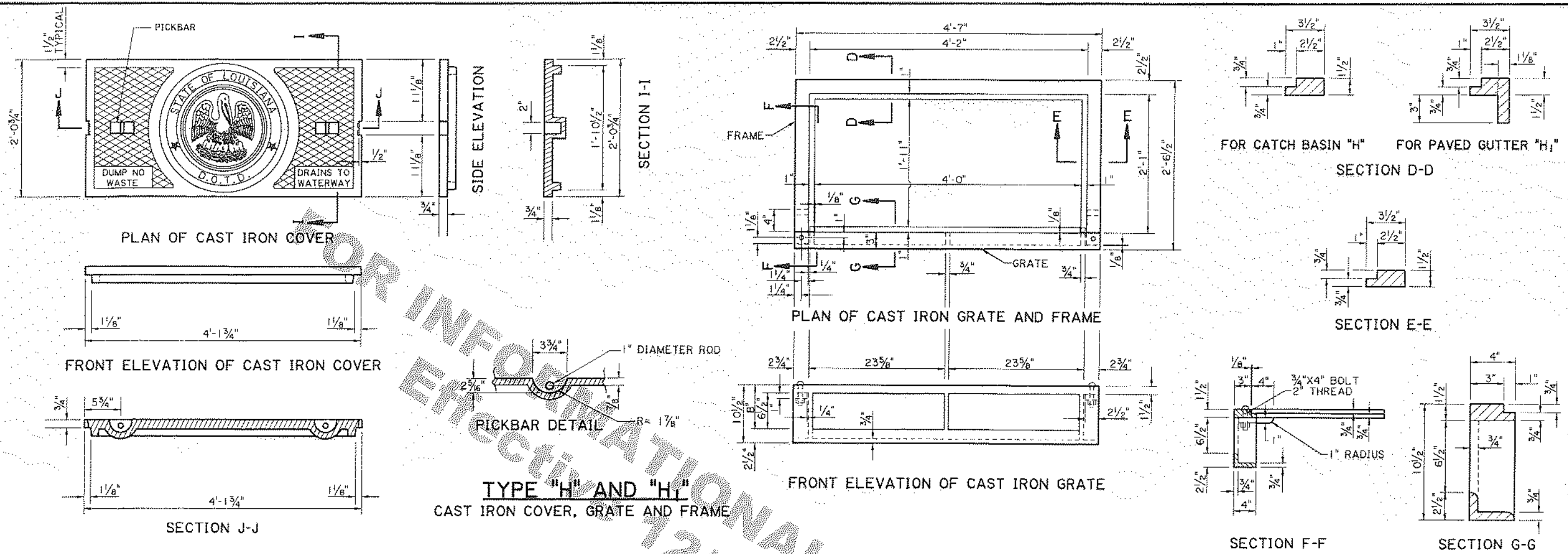


DETAILS OF GRATES, GRATE FRAMES AND COVERS FOR CATCH BASINS AND MANHOLES

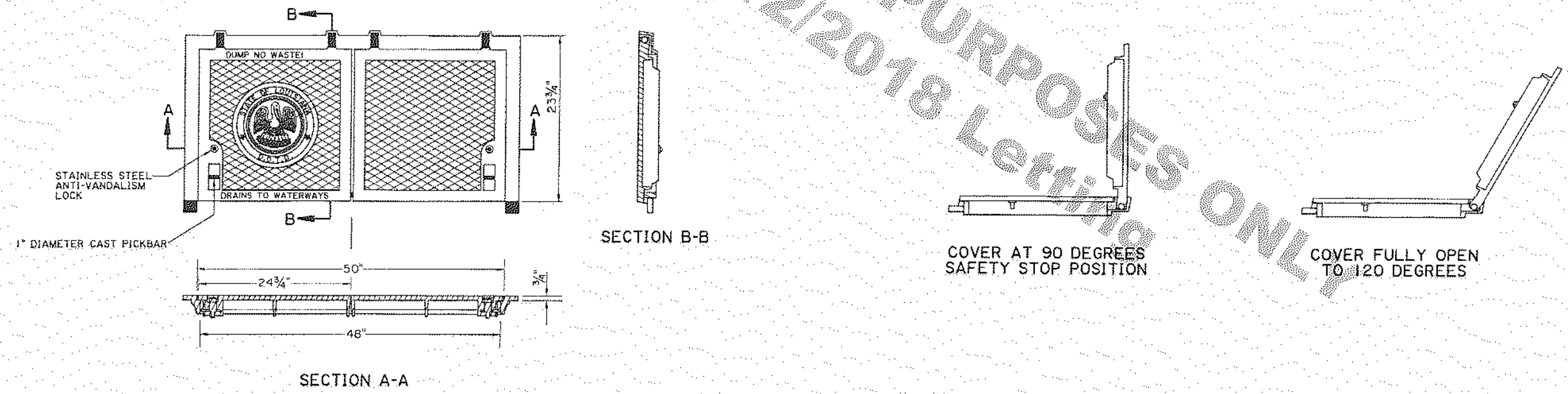


FOR INFORMATIONAL PURPOSES ONLY

SHEET NUMBER 216	
DESIGNED BY AMA	CHECKED BY AMA
DETAILS FOR TL	CHECKED BY AMA
DATE 9/01/17	DATE 5/25/18
SERIES NUMBER 3 OF 6	BY [Signature]
REVISION DESCRIPTION	DATE 5/25/18
APPROVED BY SHEET ENGINEER [Signature]	
DETAILS OF GRATES, GRATE FRAMES AND COVERS FOR CATCH BASINS AND MANHOLES	
STANDARD PLAN MC-01	HYDRAULICS SECT.

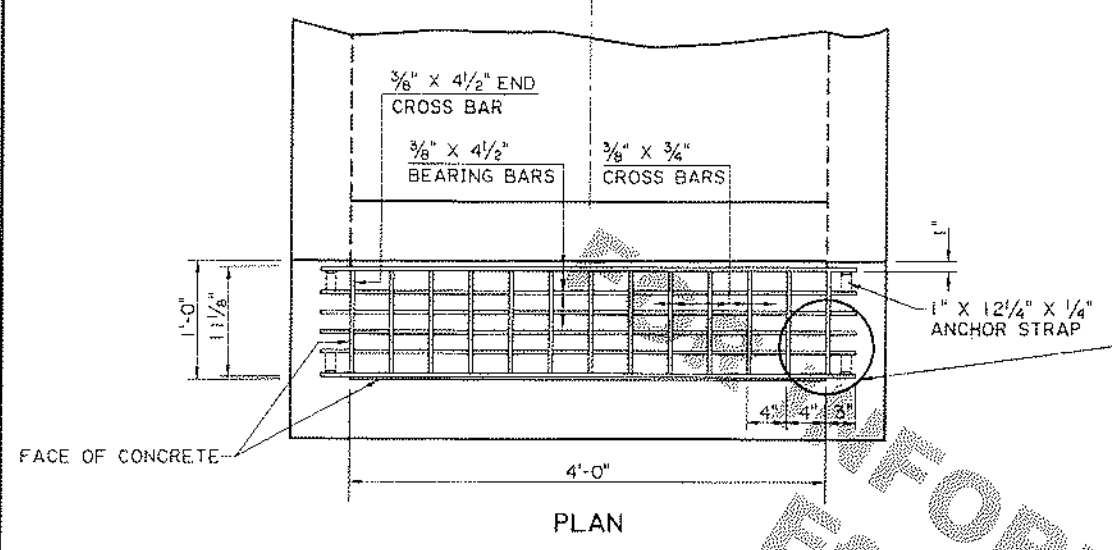


TYPE "H" AND "H1"
 CAST IRON COVER, GRATE AND FRAME

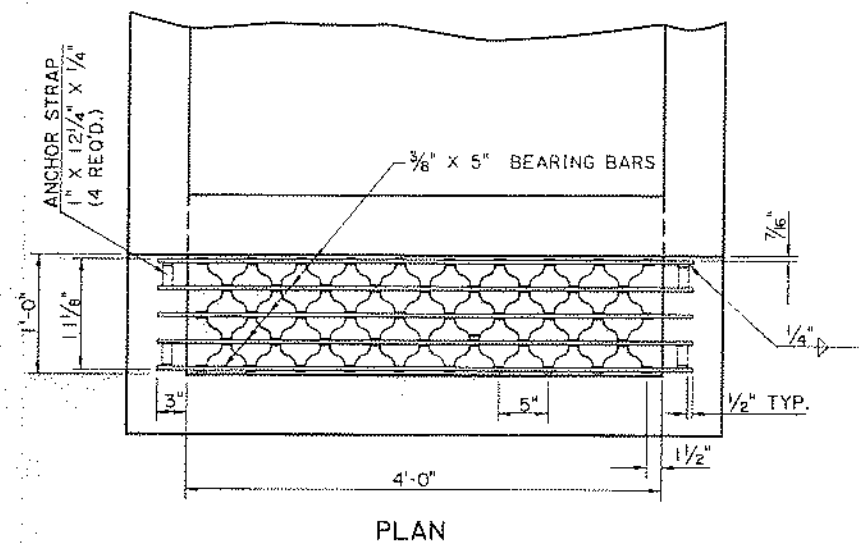


TYPE "Hs"
 CAST IRON COVER AND FRAME SHOWN (SEE GRATE ABOVE)

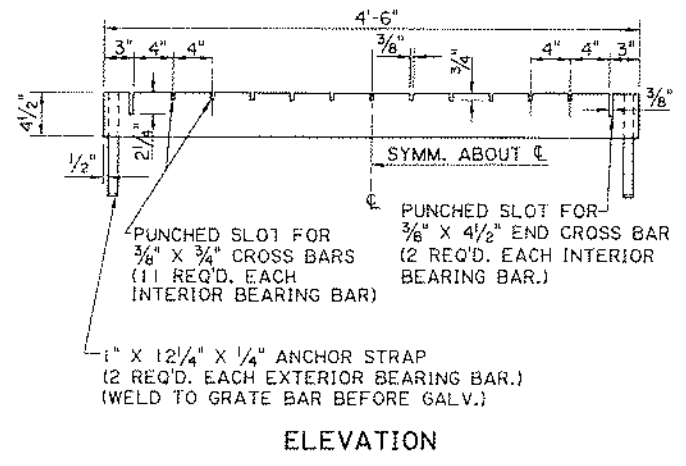
ALDEN H. ALLEN
 LICENSE NO. 10000
 MECHANICAL ENGINEERING
 STATE OF LOUISIANA
 5-25-2018



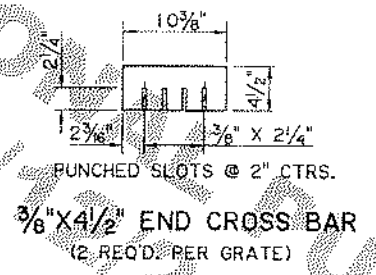
PLAN



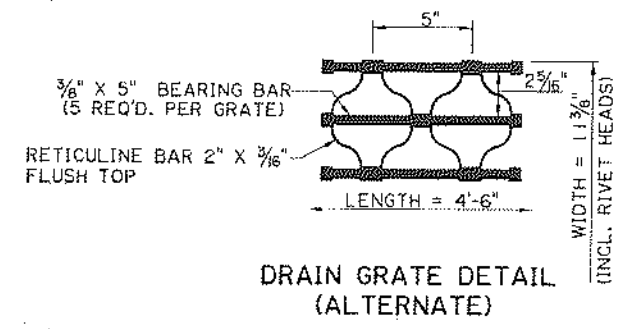
PLAN



ELEVATION



STEEL ANCHOR STRAP
(4 REQ'D. PER GRATE)



DRAIN GRATE DETAIL
(ALTERNATE)

RIVETED RETICULINE DRAIN GRATE
(ALTERNATE)

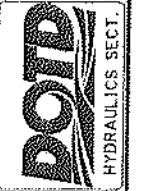
CENTER TO CENTER OF BEARING BARS EQUAL 2 1/16".
WEIGHT OF DRAIN GRATE = 176 LBS. ± 5%

WELDED & SEALED DRAIN GRATE
ALL JOINTS FULL DEPTH 1/4" FILLET WELDS WITH SEAL WELD TOP AND BOTTOM UNLESS NOTED OTHERWISE.
WEIGHT OF DRAIN GRATE = 185 LBS. ± 5%

TYPE " I "
STEEL DRAIN GRATE
GRATE TO BE GALVANIZED AFTER FABRICATION.

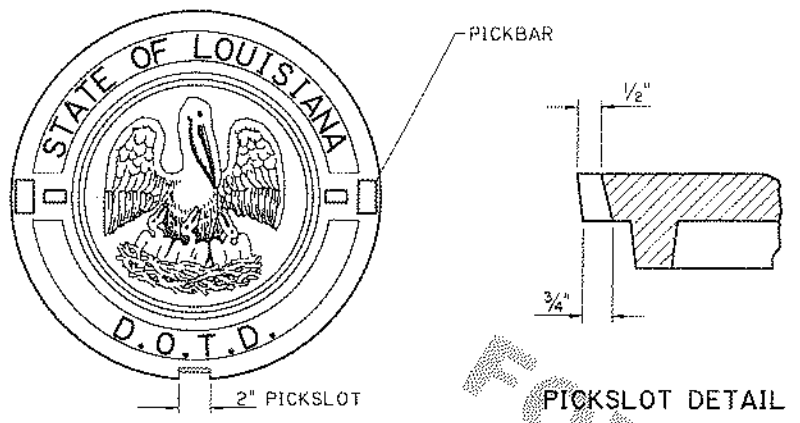


DETAILS OF GRATES, GRATE FRAMES AND COVERS FOR CATCH BASINS AND MANHOLES
STANDARD PLAN MC-01

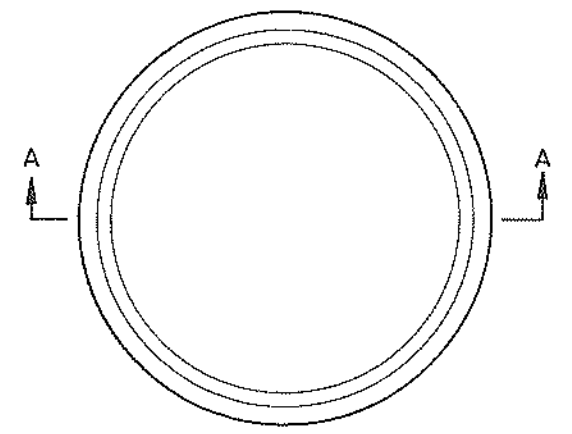


DESIGNED BY	AMA
CHECKED BY	AMA
DATE	5/25/18
REVISION DESCRIPTION	
DATE	
APPROVED BY	
DATE	
PROJECT	
SECTION	
SERIES NUMBER	4 OF 6
STATE	

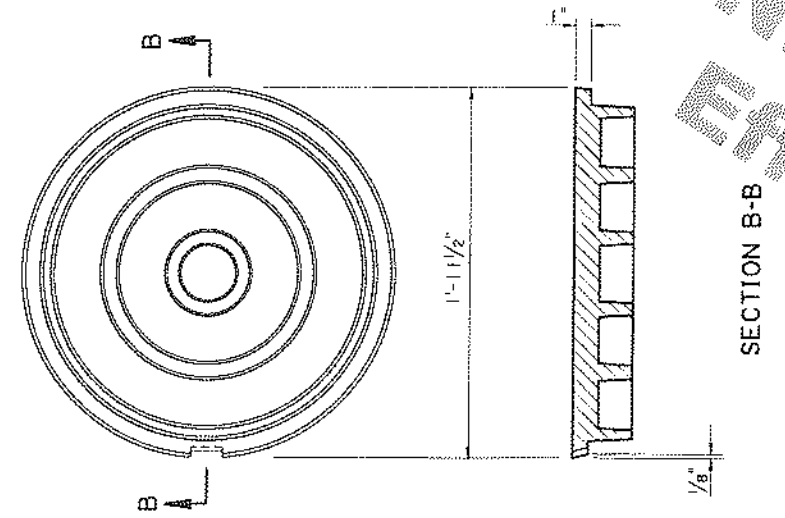
INFORMATION FOR PURPOSES ONLY
Effective 12/12/2018 Letting



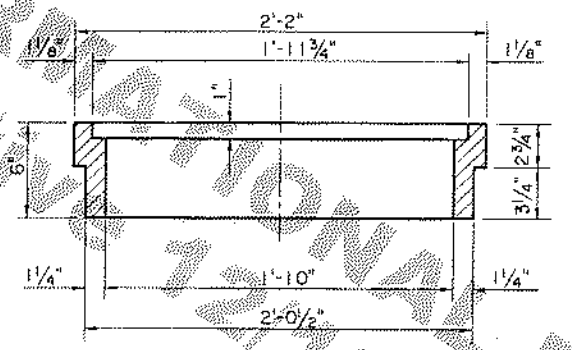
PLAN OF CAST IRON COVER



PLAN OF CAST IRON FRAME

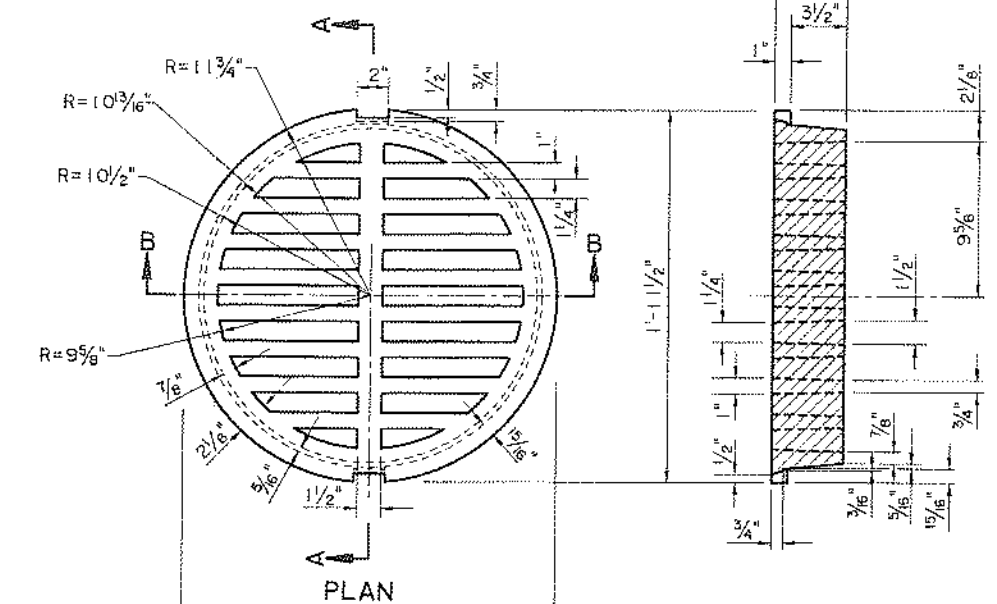


BOTTOM OF CAST IRON COVER



TYPE "K"

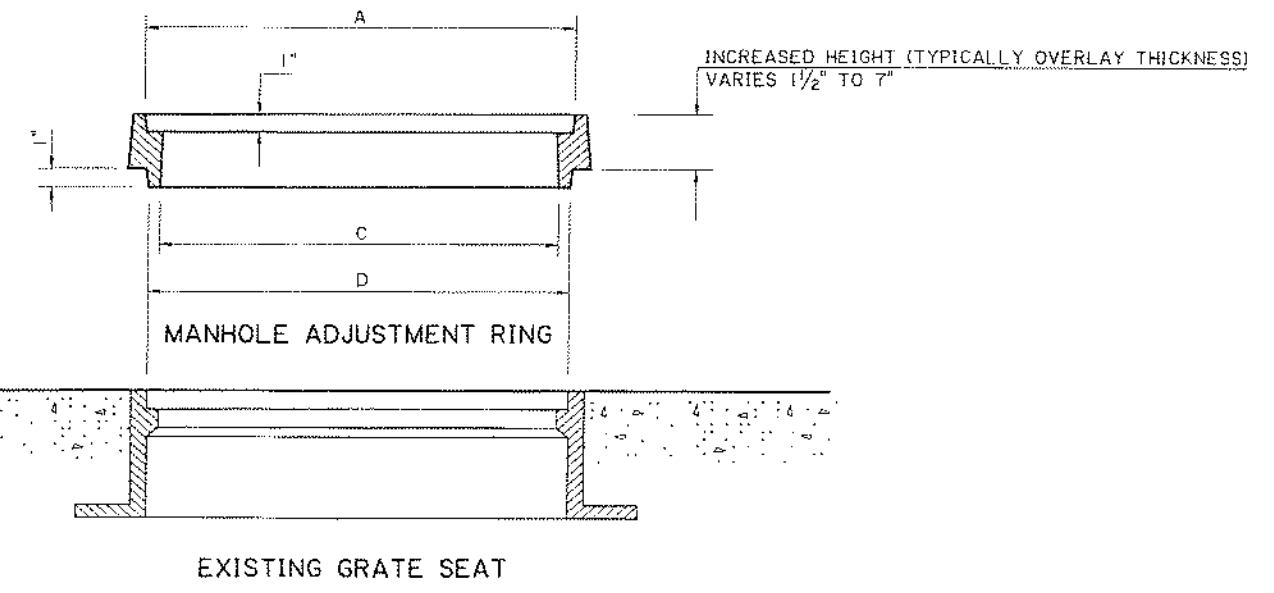
CAST IRON COVER & FRAME
PICKBAR DETAIL LEFT TO FABRICATOR



TYPE "K1"

CAST IRON GRATE

- NOTES: 1. APPROX. WEIGHT OF CAST IRON COVER = 250 LBS.
2. TO BE USED WITH TYPE "K" CAST IRON FRAME.



MANHOLE ADJUSTMENT RINGS		
A (IN.)	C (IN.)	D (IN.)
23 1/2	22 1/4	23 1/2
23 3/4	22 1/2	23 3/4

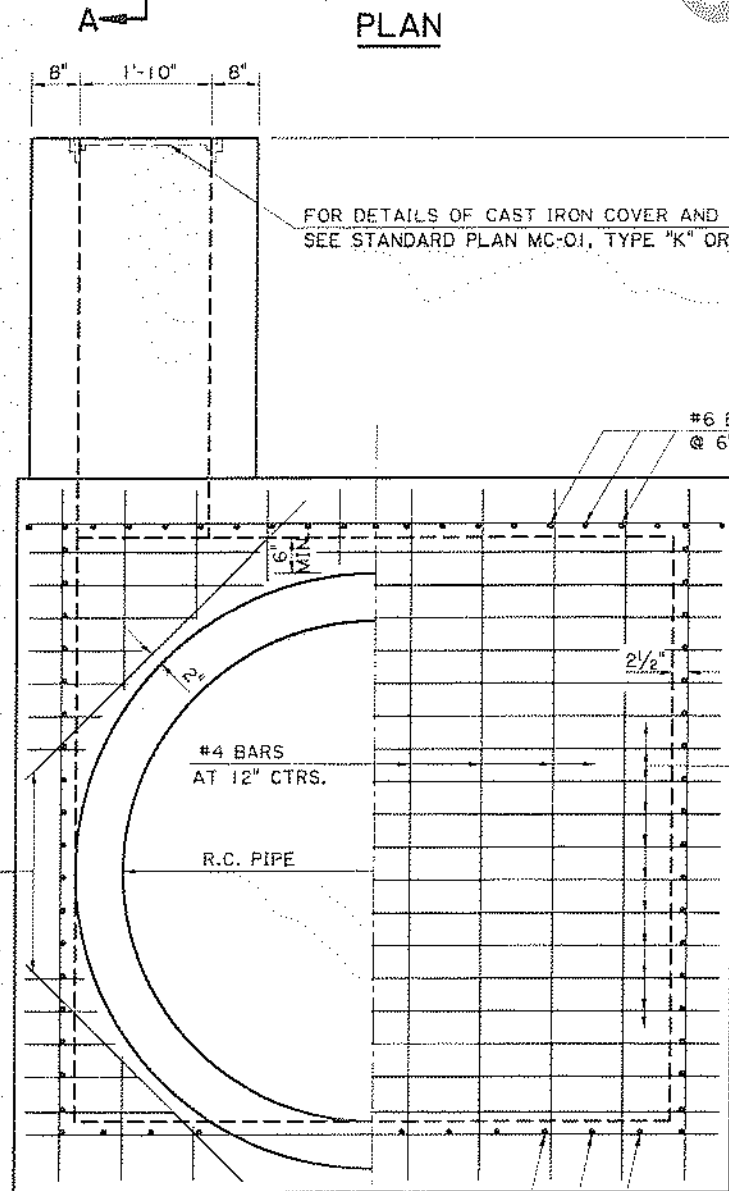
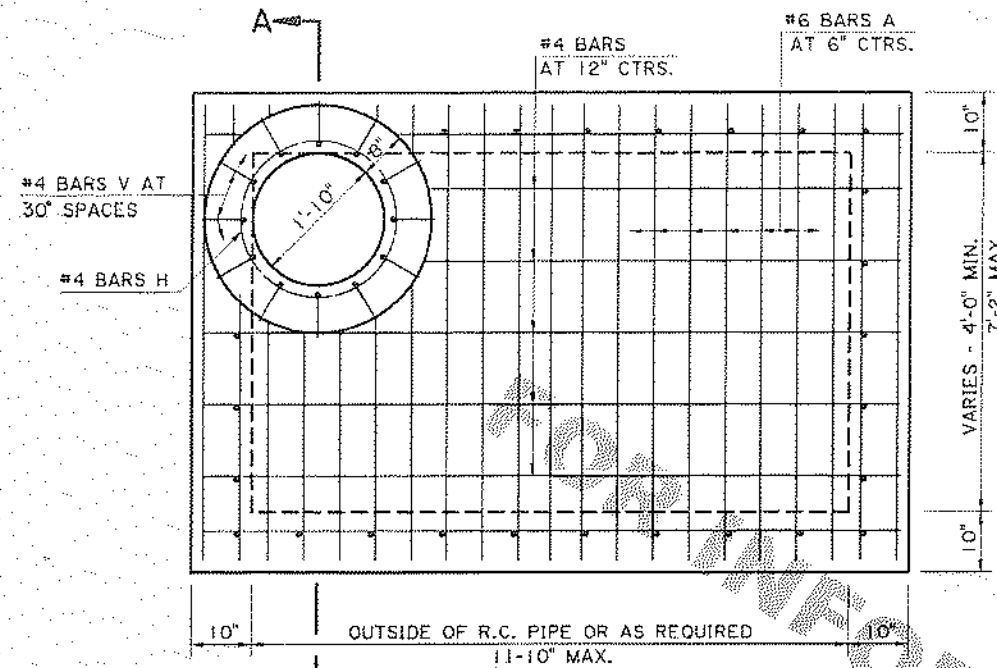
MANHOLE ADJUSTMENT RING

CAST IRON OR STEEL

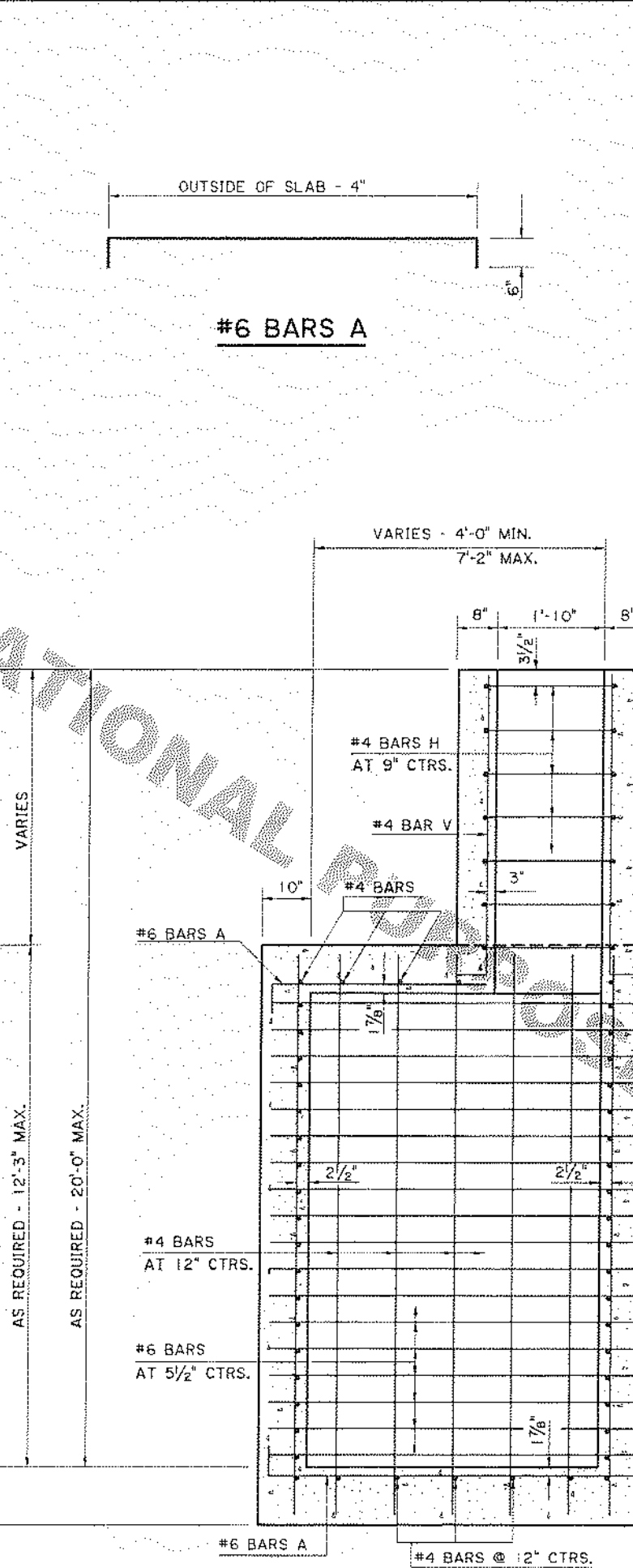


DETAILS OF GRATES, GRATE FRAMES AND COVERS FOR CATCH BASINS AND MANHOLES

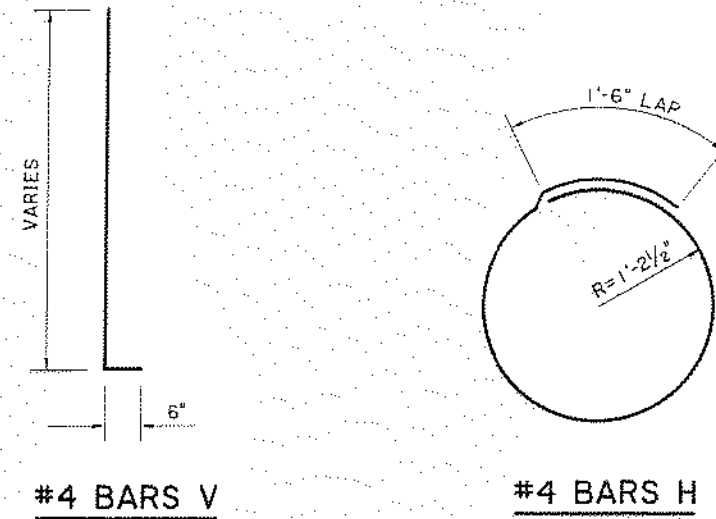
STANDARD PLAN (MC-01)
DOT
HYDRAULICS SECT.



ELEVATION

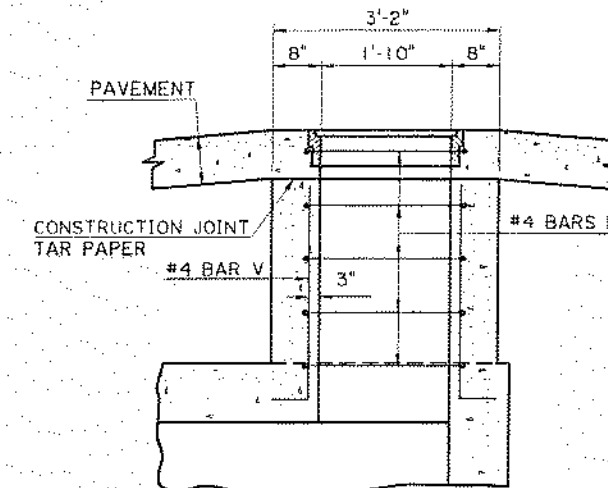


SECTION A-A



#4 BARS V

#4 BARS H



DETAIL A
(MANHOLE IN PAVEMENT AREA)

GENERAL NOTES:

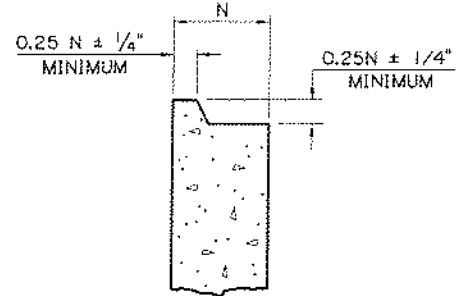
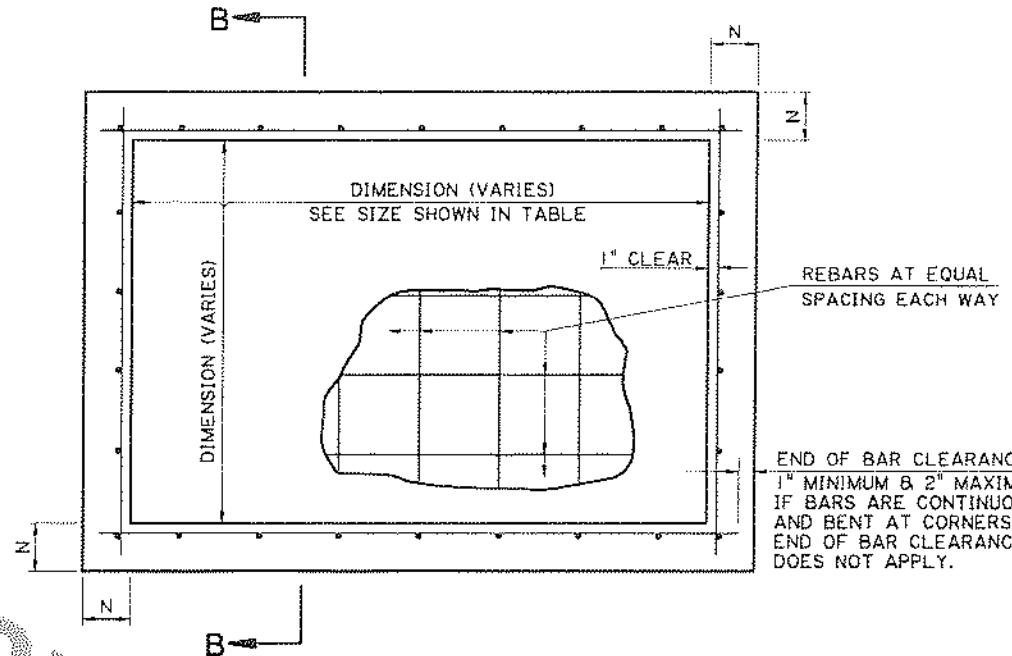
- MANHOLE IS DESIGNED ACCORDING TO 4TH ED. 2007 AASHTO LRFD PROCEDURES. SECTION 702 OF THE DOTD STANDARD SPECIFICATIONS SHALL APPLY.
- CONCRETE: ALL CONCRETE SHALL BE CLASS "M" MINOR STRUCTURE. ALL EXPOSED EDGES SHALL BE CHAMFERED 3/4 IN. EXCEPT AS NOTED.
- REINFORCING STEEL: REINFORCING STEEL SHALL BE GRADE 60. DIMENSIONS ARE TO BAR CENTERS. MINIMUM COVER FOR REINFORCING BARS SHALL BE 2 IN. CLEAR UNLESS SHOWN OTHERWISE.
- SEE "DETAIL A" FOR DETAILS OF MANHOLE IN A PAVEMENT AREA.
- THE CONTRACTOR WILL NOT POUR ABOVE THE BOTTOM OF THE SLAB UNTIL THE PAVING ADJACENT TO THE MANHOLE HAS BEEN COMPLETED.

SHEET NUMBER		219	
DESIGNED	CDJ	DATE	10-12-01
CHECKED	HJB	SHEET	1 OF 1
REVISION	PROJECT	DATE	5-18-11
REVISION	PROJECT	DATE	5-18-11
5-18-11 CORRECTED DRAFTING ERROR OF BARS IN PLAN VIEW 11-22-10 REVISED TO 2007 AASHTO LRFD PROCEDURES 10-22-08 REDRAFTED, REMOVED MANHOLE STEPS, NEW SHEET			
PROJECT	STATE	PROJECT	
R.C. MANHOLE MAXIMUM DIMENSIONS: 1'-10" X 7'-2" MAXIMUM DEPTH: 20' PREPARED BY: [Signature] CHECKED BY: [Signature] DATE: 5-18-11			
HYDRAULICS SECTION			

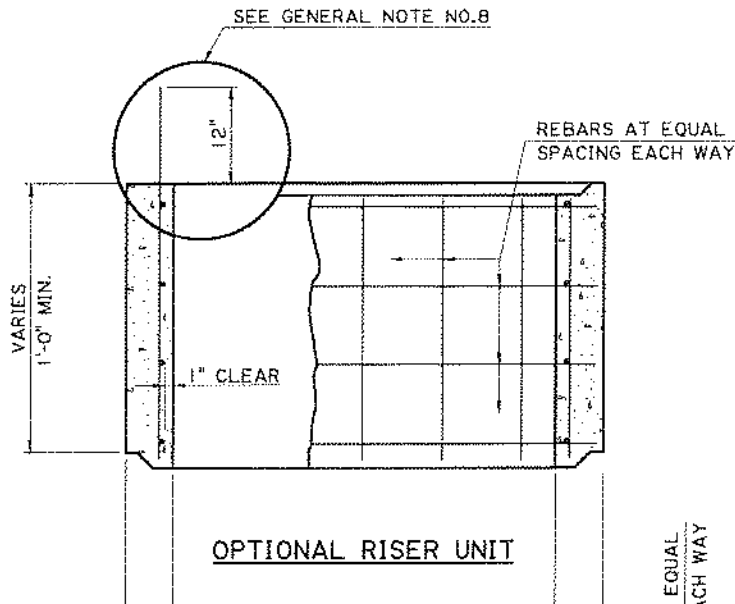


GENERAL NOTES:

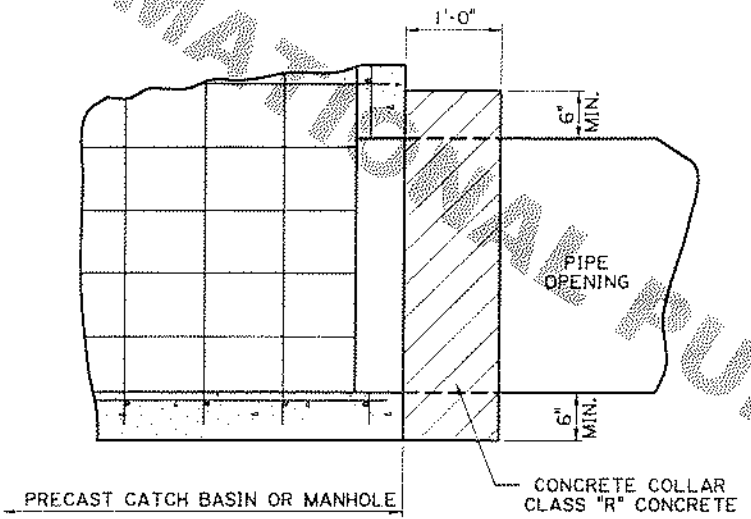
- 1) THESE PRECAST UNITS ARE TO BE USED AS THE LOWER PORTION OF A COMPOSITE STRUCTURE. THE CAST-IN-PLACE FINISHING DETAILS ARE SHOWN ON OTHER STANDARD PLANS.
- 2) DESIGNED ACCORDING TO 4TH ED. 2007 AASHTO LRFD PROCEDURES. LA DOTD STANDARD SPECIFICATIONS SHALL APPLY.
- 3) CONCRETE SHALL ATTAIN A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI BEFORE ACCEPTANCE & SHIPPING OF UNITS. REINFORCING STEEL TO BE GRADE 60.
- 4) PIPE OPENING TO BE FORMED ONLY WHEN REQUIRED. OTHERWISE, WALL SECTION SHALL BE AS SHOWN.
- 5) PIPE OPENING TO BE OUTSIDE DIAMETER (O.D.) OF PIPE + 4" ± 1/2".
- 6) PIPE TO BE GROUTED IN AFTER INSTALLATION. FOR 42" PIPE AND GREATER, CONCRETE COLLAR TO BE USED.
- 7) JOINTS BETWEEN PRECAST UNITS TO BE SEALED WITH FLEXIBLE PLASTIC GASKET MATERIAL AND WRAPPED WITH A 12" WIDTH OF GEOTEXTILE FABRIC (SEE LAQOTD OPL).
- 8) JOINT BETWEEN CAST-IN-PLACE SECTION AND PRECAST UNIT TO BE TONGUE AND GROOVE AND SEALED WITH TYPE II GRADE A EPOXY (SEE LAQOTD OPL) OR FLAT JOINT WITH A MINIMUM OF 12" OF NO. 4 BARS AT 18" CTRS. (MAX.) EXTENDED ABOVE THE JOINT.



JOINT DETAIL

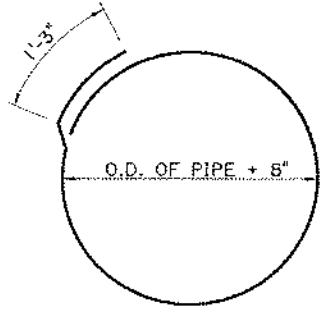


OPTIONAL RISER UNIT

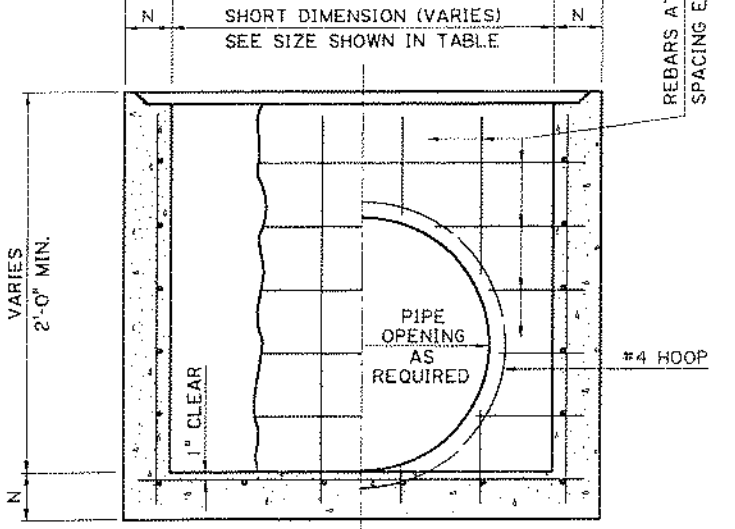


COLLAR DETAIL (PARTIAL SECTION)

NOTE: CONCRETE COLLAR IS REQUIRED FOR 42" PIPE AND GREATER. COST OF CONCRETE COLLAR TO BE INCLUDED IN COST OF PRECAST STRUCTURE.

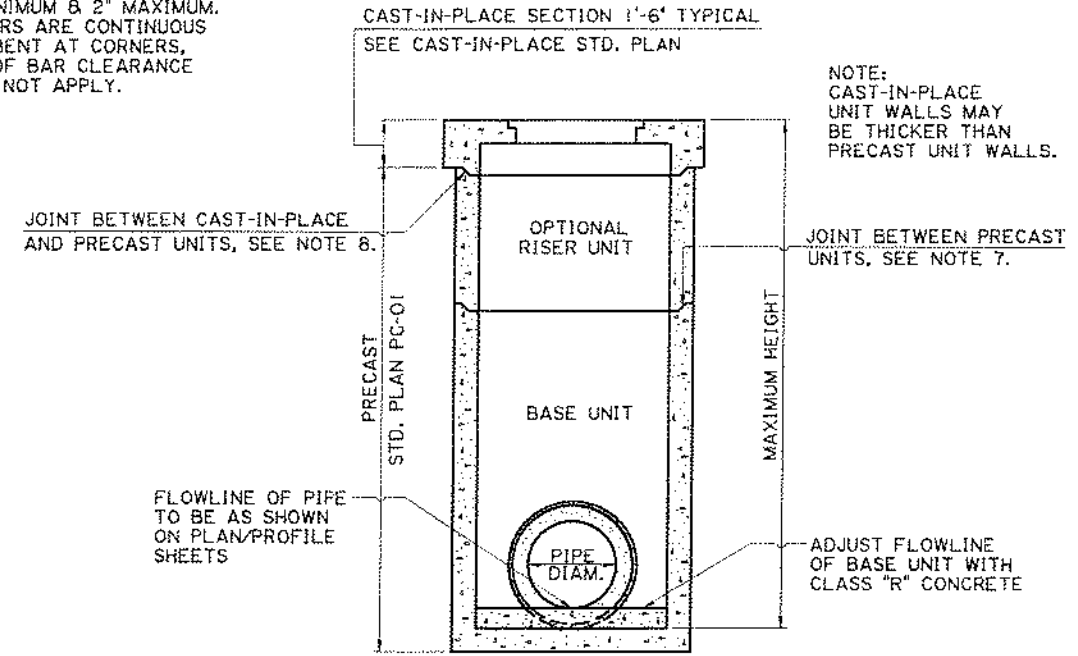


#4 HOOP



BASE UNIT

SECTION B-B



TYPICAL COMPOSITE STRUCTURE

MAXIMUM HEIGHT		PRECAST UNITS FOR CATCH BASINS & MANHOLES															
N		4' MAX. DIMENSION				6' MAX. DIMENSION				8' MAX. DIMENSION				10' MAX. DIMENSION			
TYPICAL SIZES		3'x3' 4'x4'				6'x4' 6'x6'				8'x4' 8'x6' 8'x8'				10'x4' 10'x6' 10'x8' 10'x10'			
FT.	IN.	BAR SIZE	SPAC.*	As [⊗]	BAR SIZE	SPAC.*	As [⊗]	BAR SIZE	SPAC.*	As [⊗]	BAR SIZE	SPAC.*	As [⊗]	BAR SIZE	SPAC.*	As [⊗]	
		IN.	IN.	IN ² /FT.	IN.	IN.	IN ² /FT.	IN.	IN.	IN ² /FT.	IN.	IN.	IN ² /FT.	IN.	IN.	IN ² /FT.	
8	4	4	8	0.30	4	8	0.30	4	5.5	0.44	5	5.5	0.68				
14	6	4	9	0.27	4	6	0.40	5	5	0.74	5	4.0	0.93				
20	6	4	7	0.34	4	4.5	0.53										

⊙ OTHER SIZES ARE ACCEPTABLE AS LONG AS THE DIMENSIONS DO NOT EXCEED THE MAXIMUM DIMENSIONS.

* BAR SPACING APPLIES TO BOTH DIRECTIONS AND AT ALL LOCATIONS.

⊗ BAR SIZES AND SPACING MAY DIFFER FROM VALUES SHOWN, BUT THE AREA OF STEEL (A_s) SHALL BE EQUAL TO OR GREATER THAN VALUE SHOWN, AND BAR SPACING SHALL NOT EXCEED 12 INCHES. THE AREA OF STEEL (A_s) MAY BE PROVIDED WITH WELDED STEEL WIRE FABRIC.

SHEET NUMBER **220**

DESIGNED: PAA
CHECKED: PAA
DATE: 2-21-90

DRAWN: KAJ
CHECKED: PAA
DATE: 3-1-11

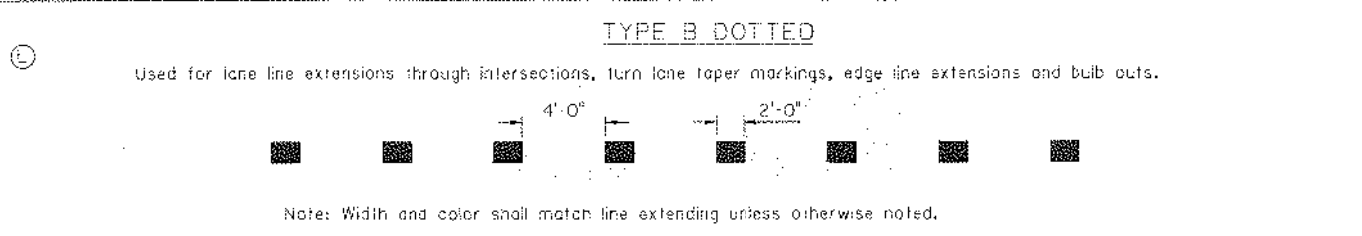
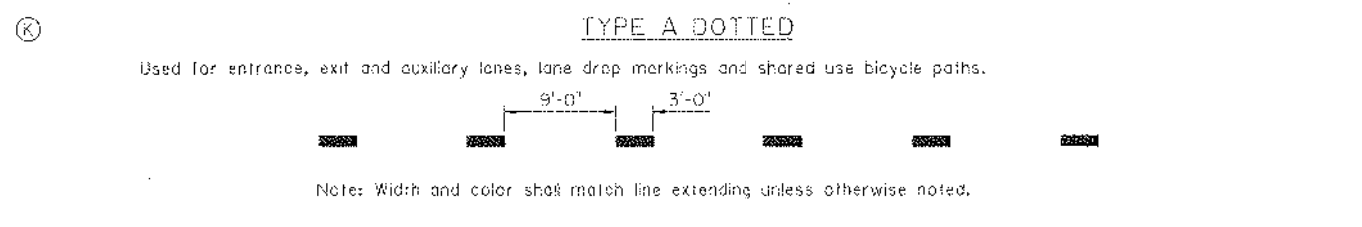
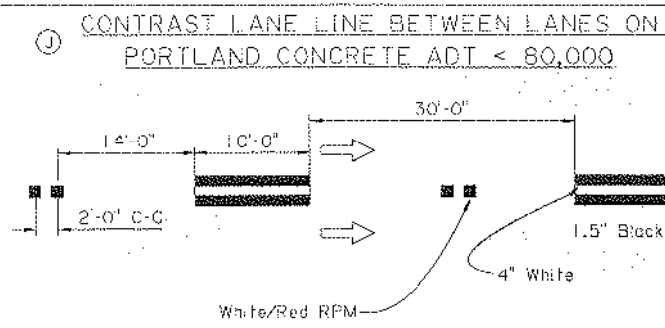
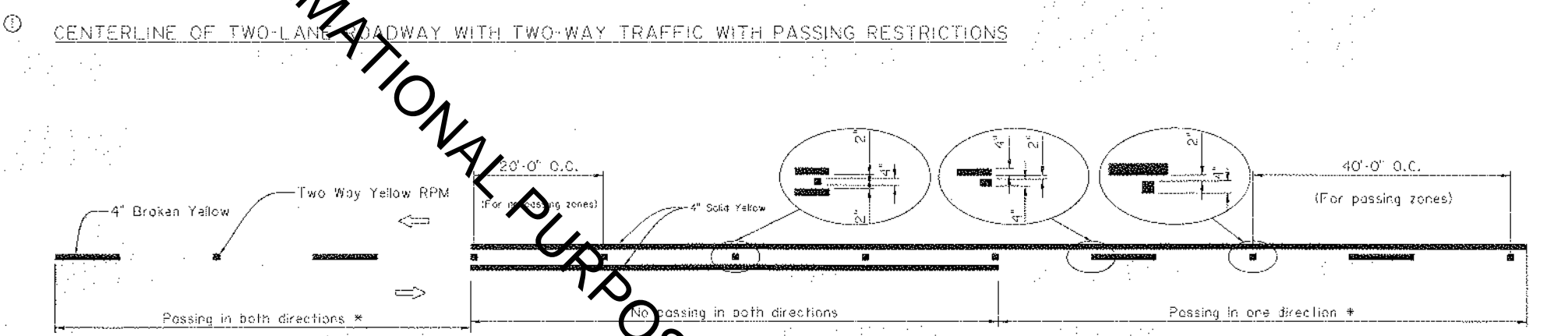
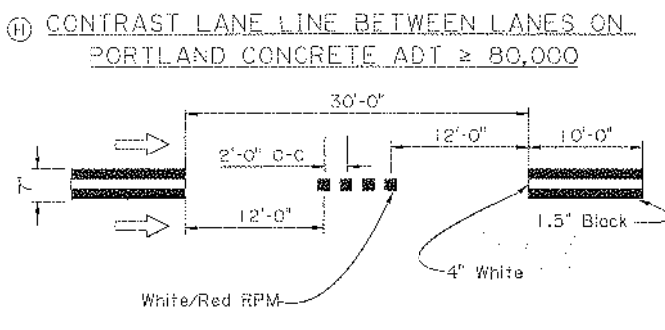
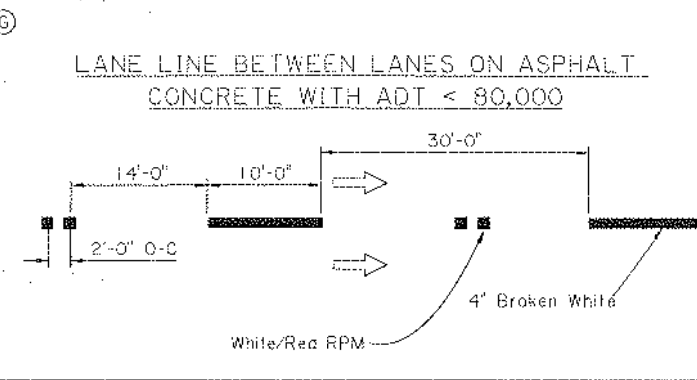
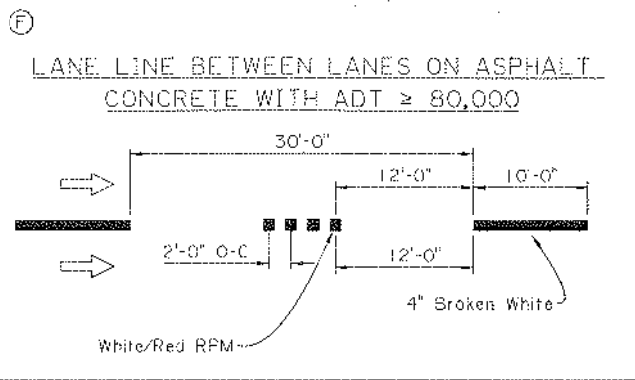
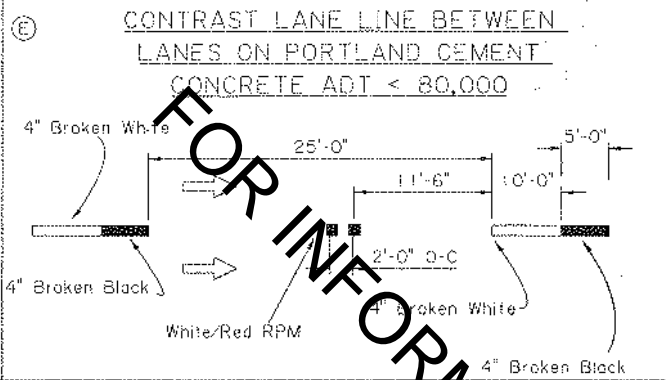
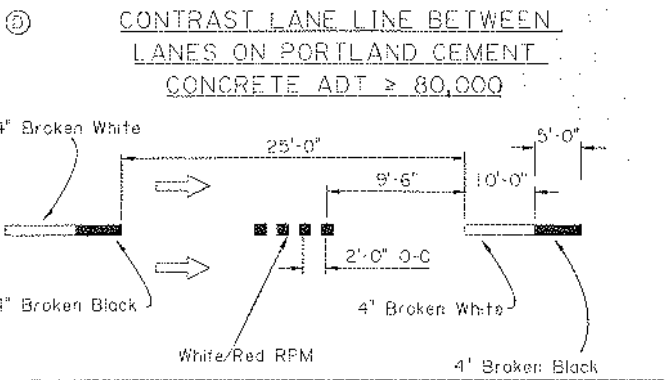
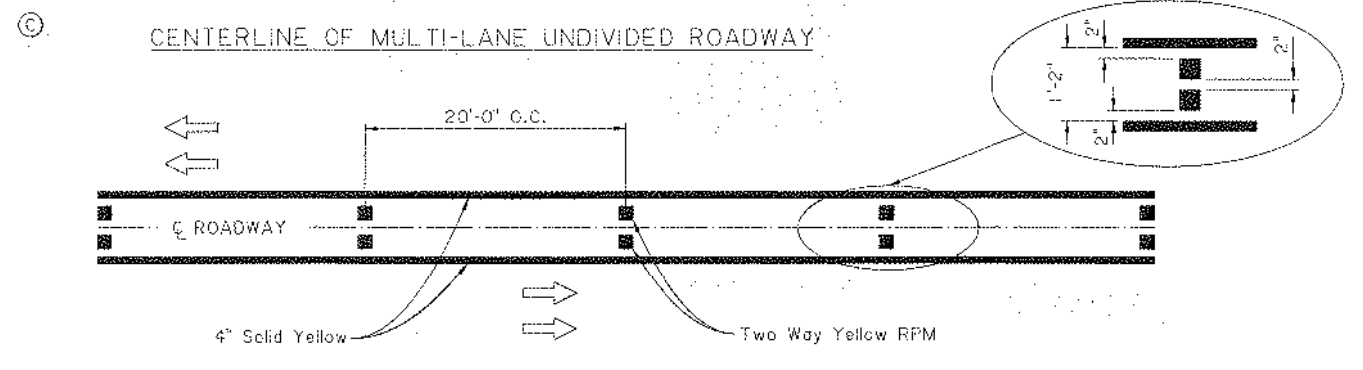
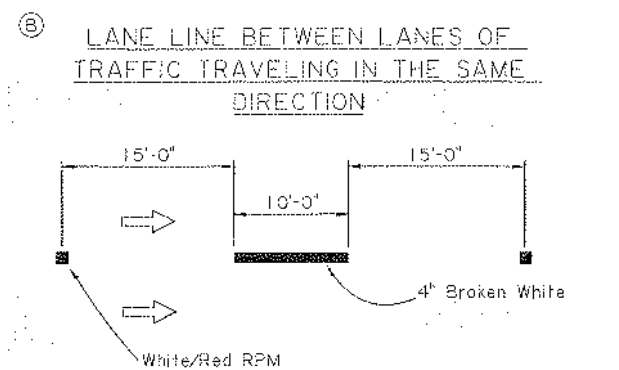
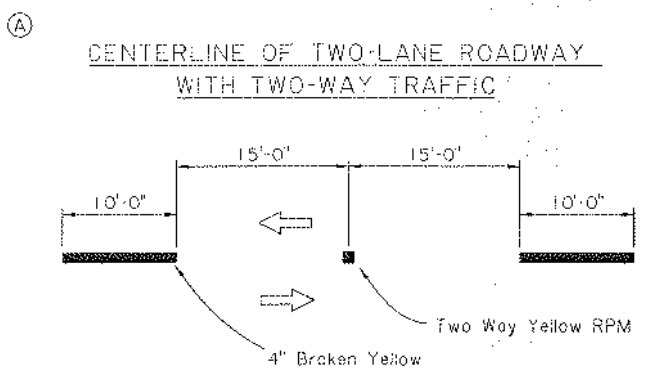
REVISION DESCRIPTION: Added Collar Detail, New Sheet, Drafting & Note Revisions
DATE: 4-16-90

APPROVED BY: [Signature]
DATE: 3-1-11

PROJECT: PRECAST CATCH BASINS AND MANHOLES

HYDRAULICS SECTION

\$\$\$ SUBMITTAL STAGE ----- \$\$\$
 \$\$\$ this is the pathname including directory path and design file name \$\$\$



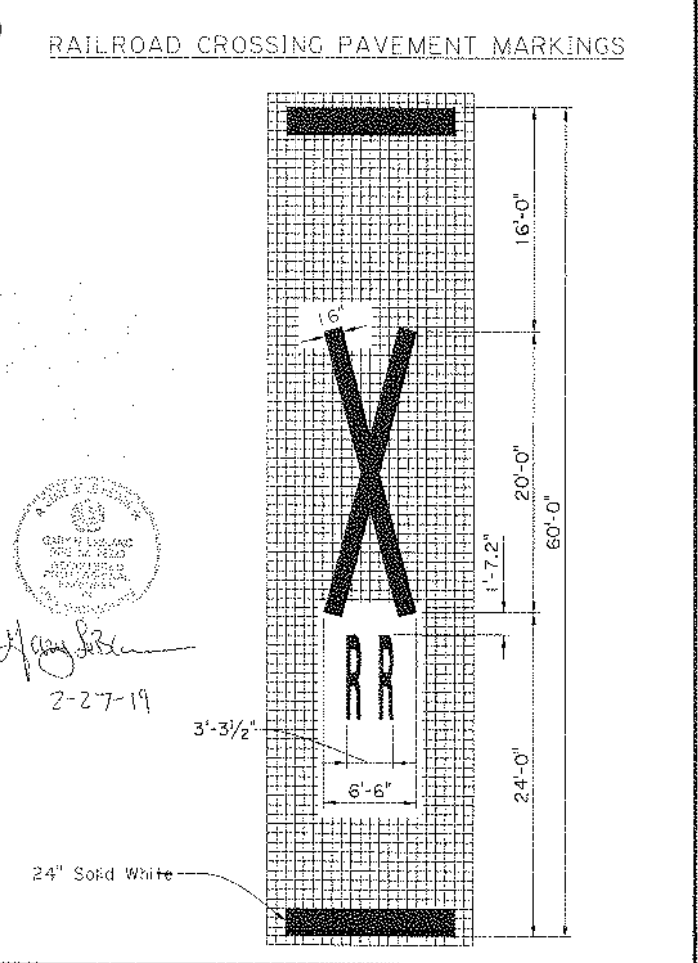
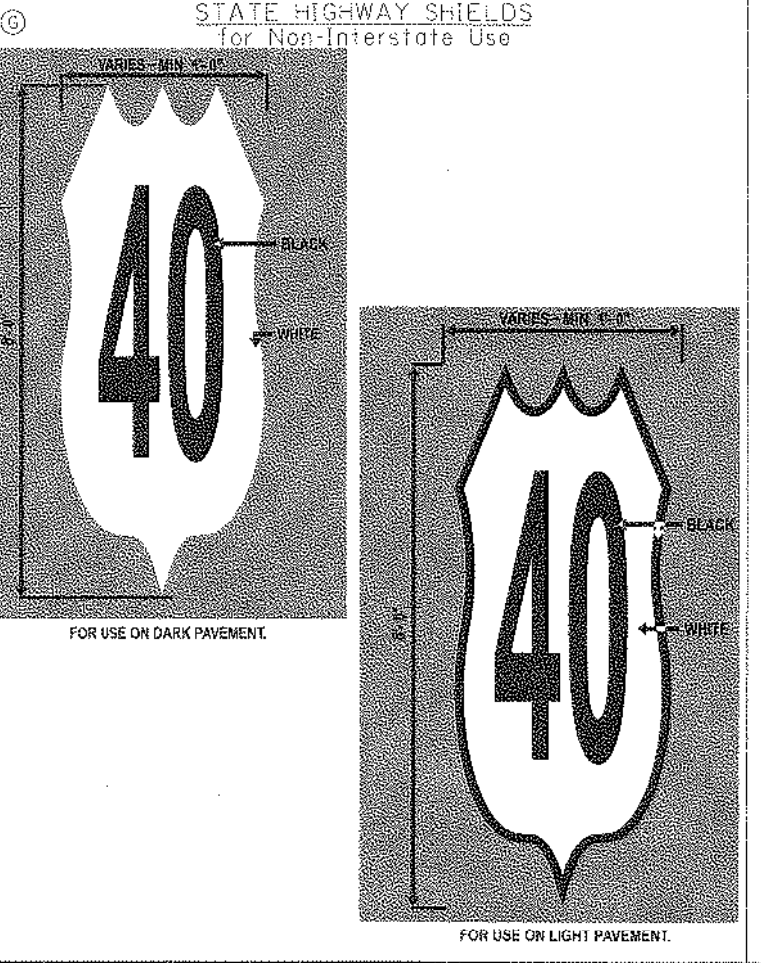
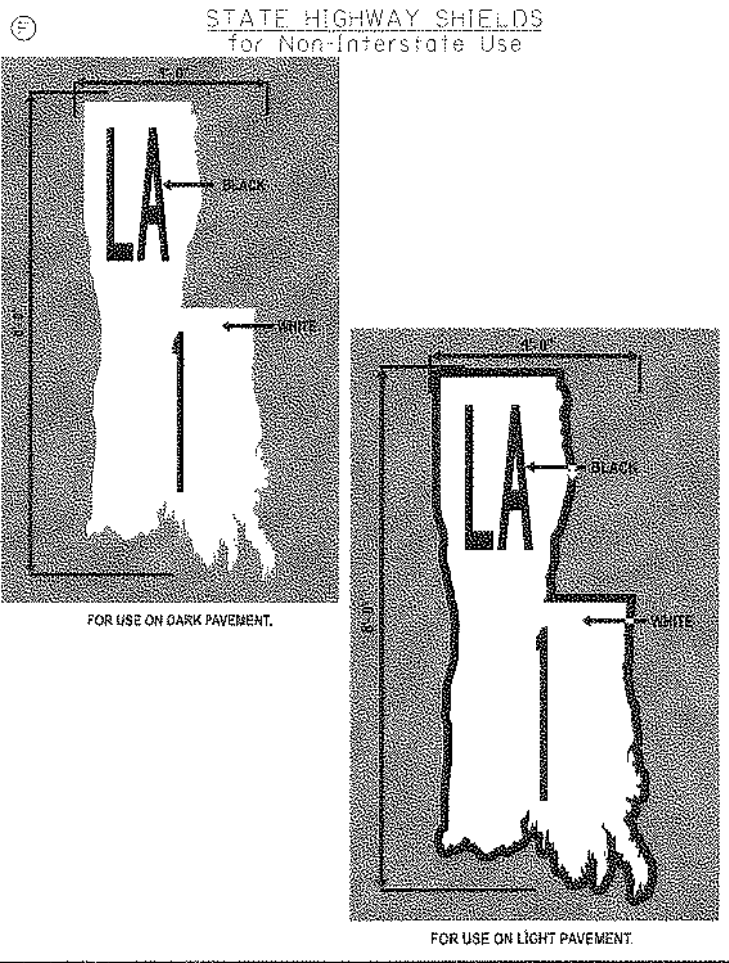
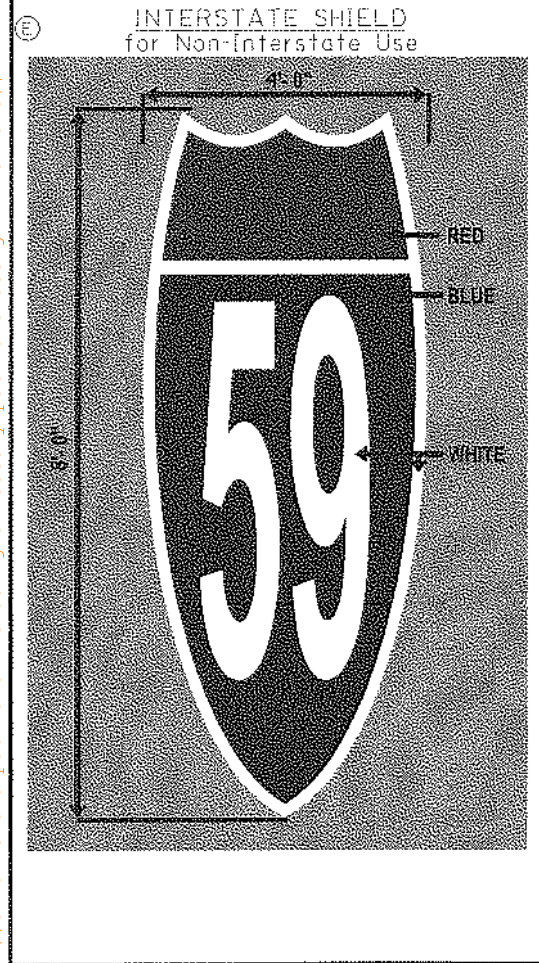
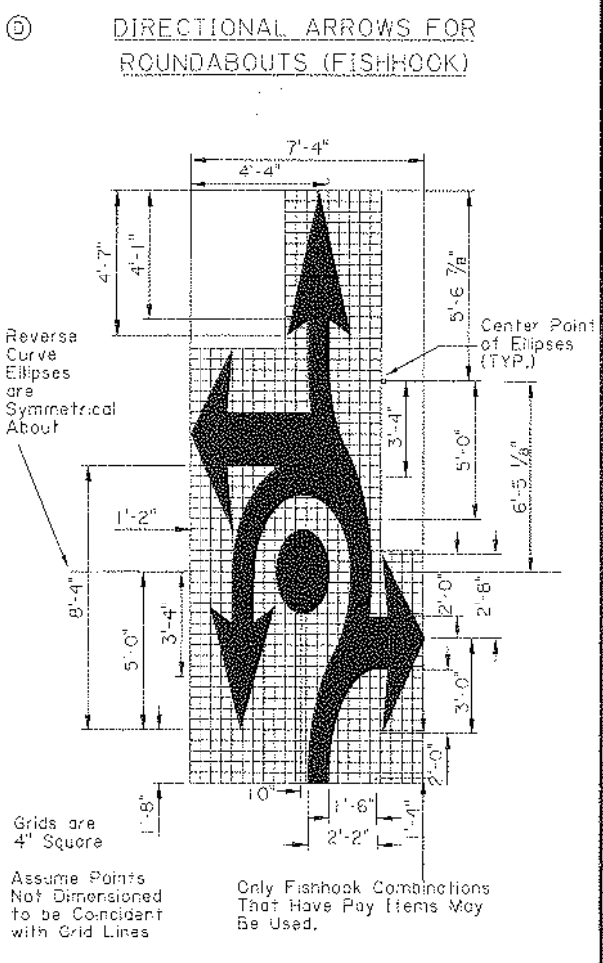
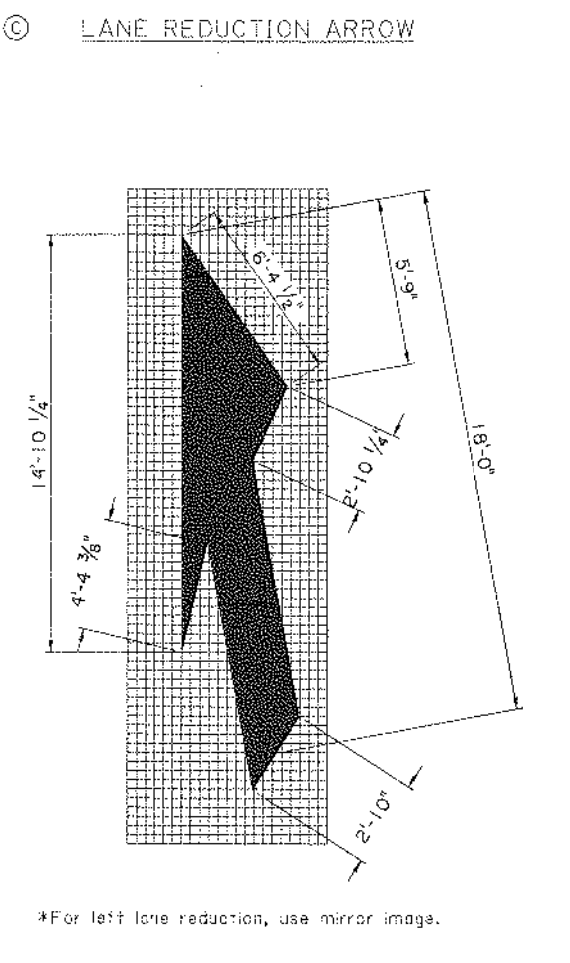
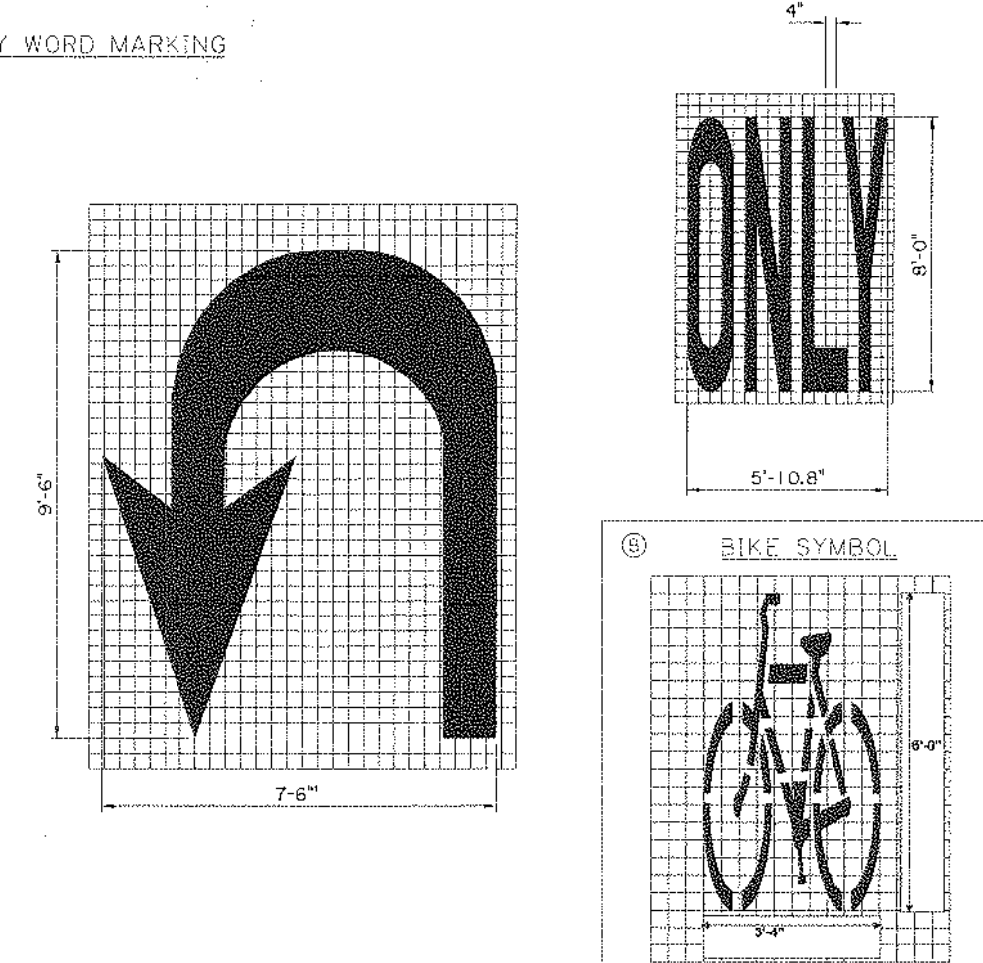
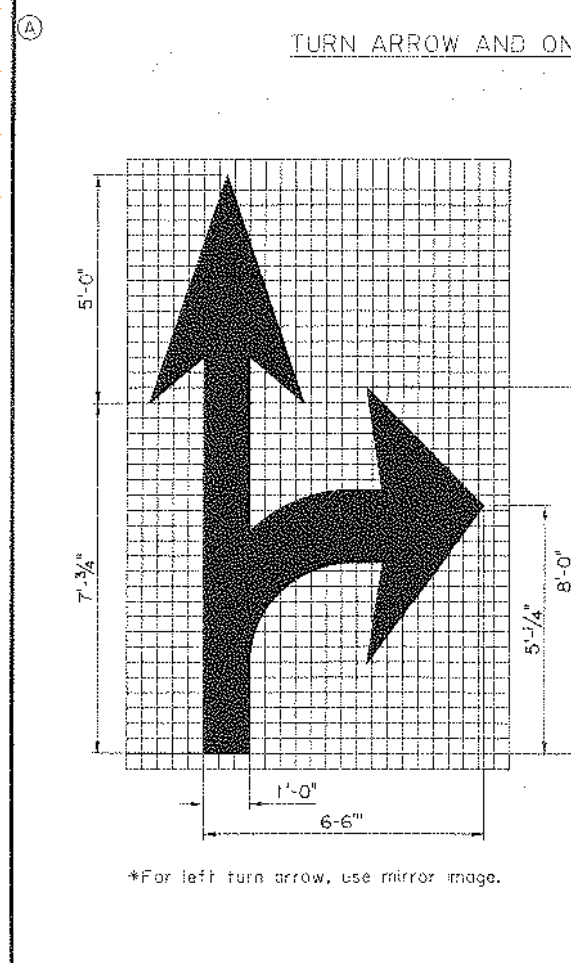
- GENERAL NOTES:**
- 4" Edge lines shall be placed on all roadways.
 - Place edge lines, centerlines and lane lines to avoid longitudinal joints as directed by the project engineer.
 - Edge lines in a curb and gutter section should be kept out of the gutter and clear from debris.
 - If rumble strips are used, striping details remain unchanged.
 - Centerlines shall be placed on roadways with a traveled way width of 16 feet or greater.
 - Where the clear width of a bridge is less than the clear width of the roadway, reflectorized pavement markers shall be placed adjacent to the edge line at 20' centers.
 - ⇒ indicates the direction of travel (not a pavement marker).
 - For non-interstate striping, use one Raised Reflectorized Pavement Marker.
 - White Reflectorized Pavement Marker faces same direction traffic and red faces opposing traffic.

FOR INFORMATIONAL PURPOSES ONLY

Gary N. LeBlanc
 2-27-19

SHEET NUMBER	221	DATE	2/28/19	PROJECT			
DESIGNED BY	G. LEBLANC	CHECKED BY	J. COLVIN	DATE			
DRAWN BY	G. LEBLANC	INCHES	G. LEBLANC	DATE			
SCALE		SECTION		DATE			
CENTERLINE AND EDGELINE MARKINGS PAVEMENT MARKING DETAILS							

\$\$\$ SUBMITTAL STAGE ----- \$\$\$
\$\$\$\$\$ is the pathname including directory path and design file name\$\$\$\$\$

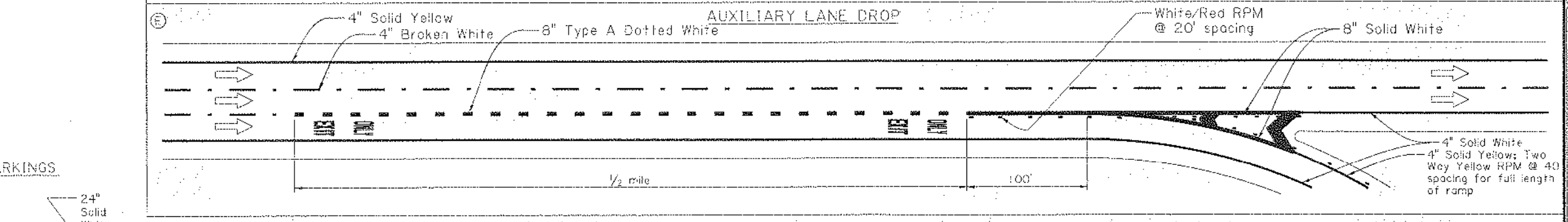
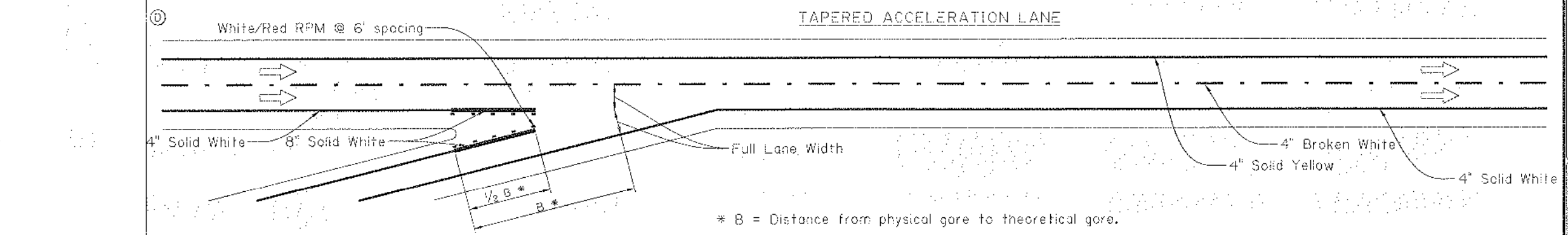
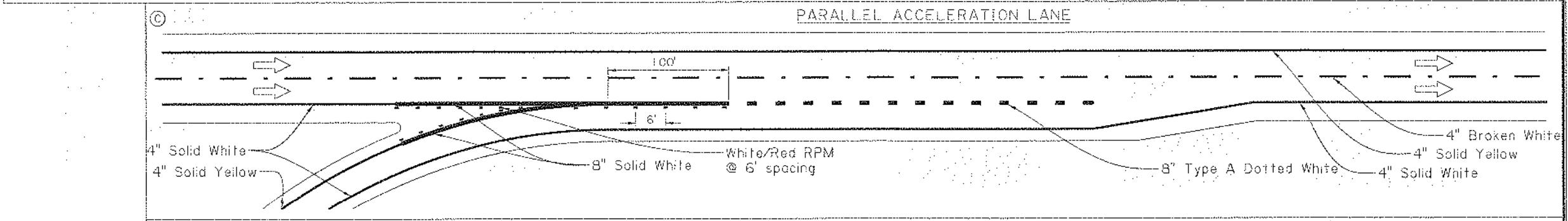
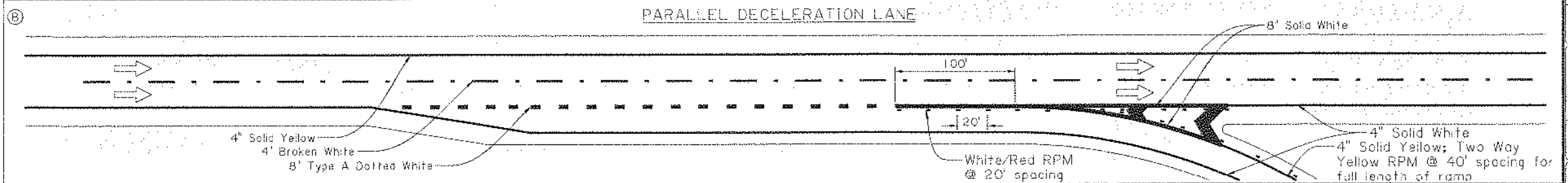
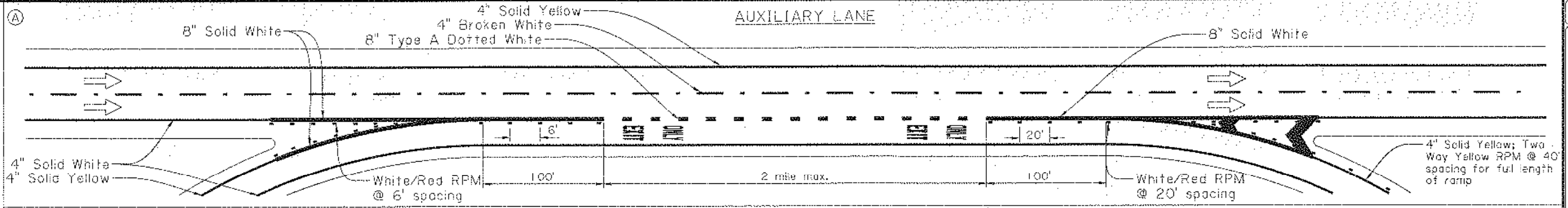


STIMES

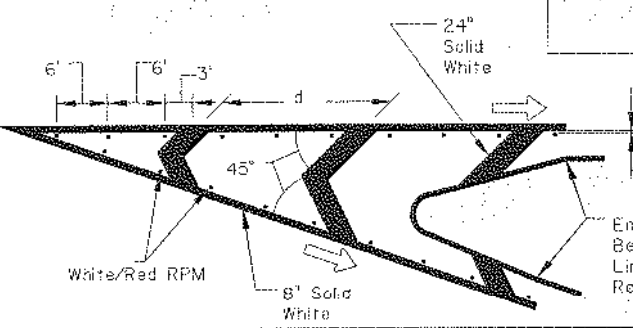
\$\$\$ SUBMITTAL STAGE -----\$\$\$

\$\$\$this is the pathname including directory path and design file name\$\$\$

Note:
 → indicates the direction of travel (not a pavement marker).



TYPICAL EXIT GORE MARKINGS



d	Mainline Speed
12'	45 MPH or Less
18'	50 or 55 MPH
24'	60 MPH or Above

SHEET NUMBER 223

DESIGNED BY: G. LEBLANC
 CHECKED BY: J. COLVIN
 PROJECT: [Blank]

DATE: 2/08/19

APPROVED BY: [Signature]
 CHIEF ENGINEER

TRAFFIC ENGINEERING

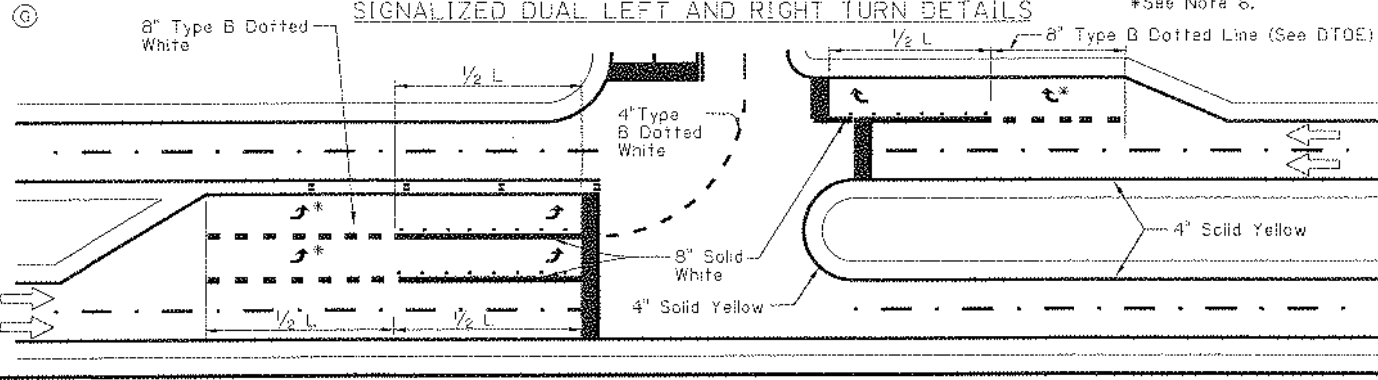
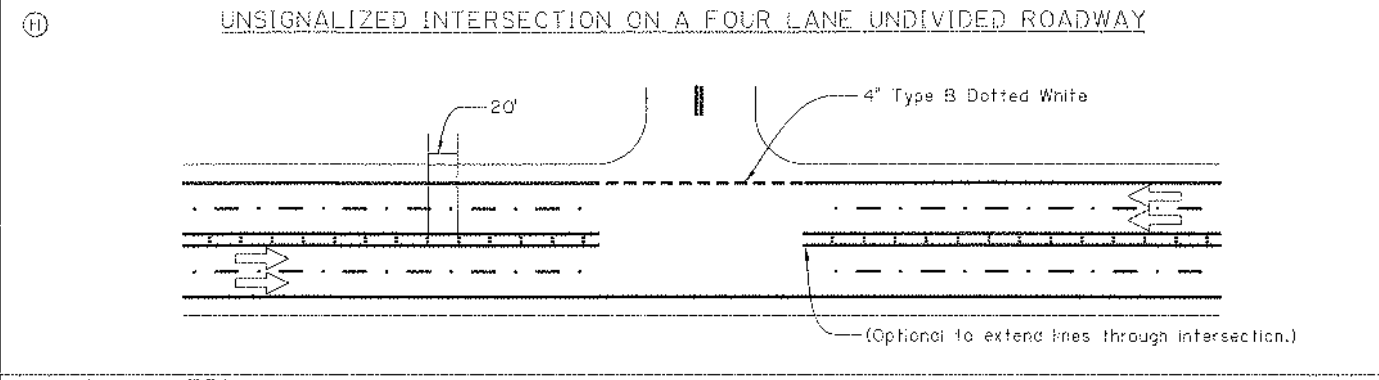
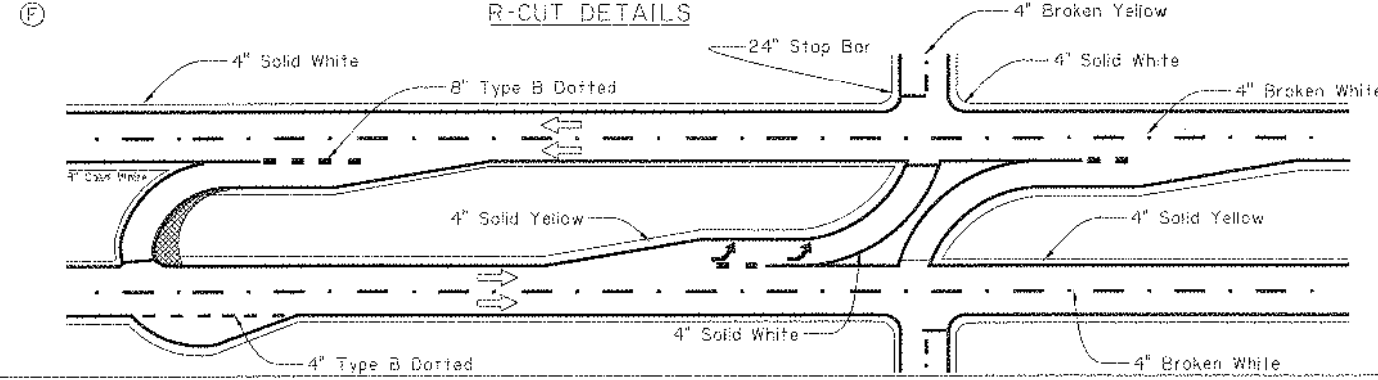
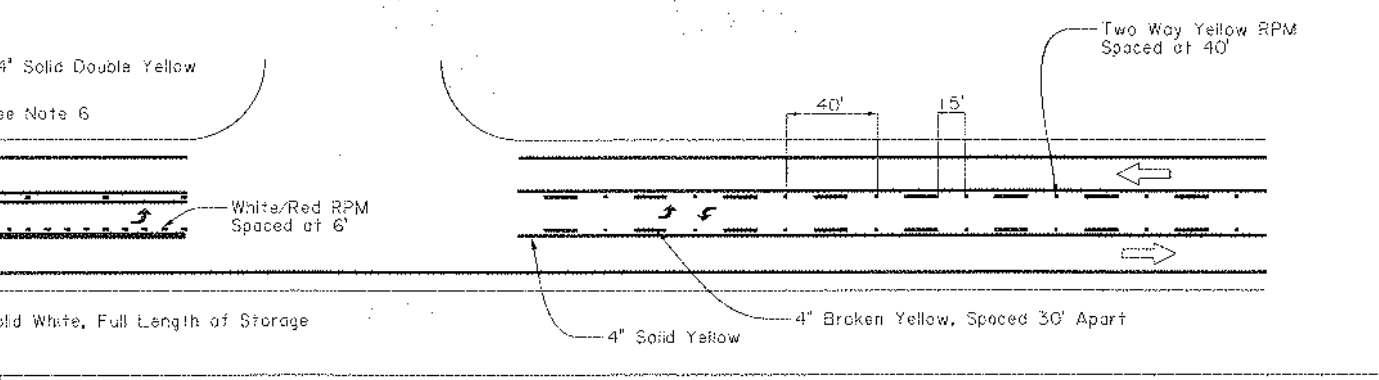
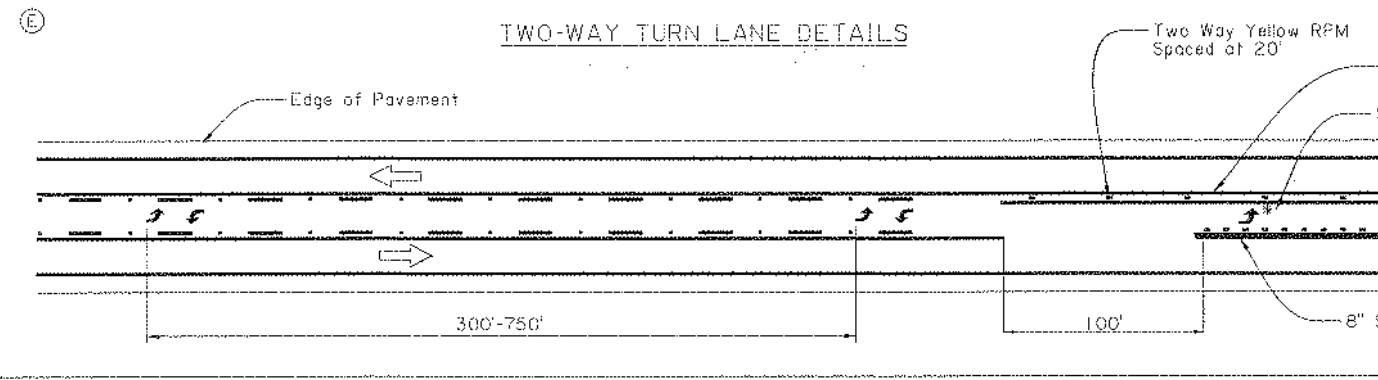
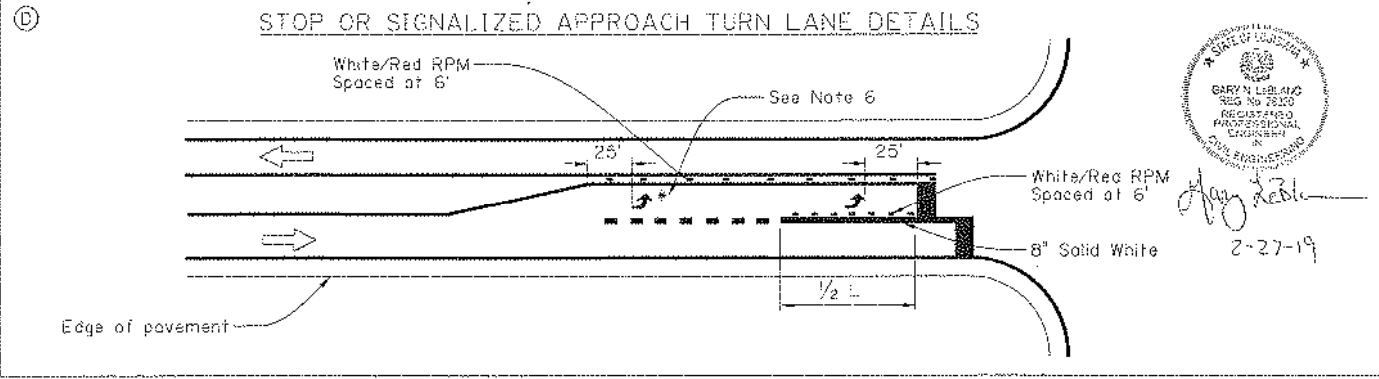
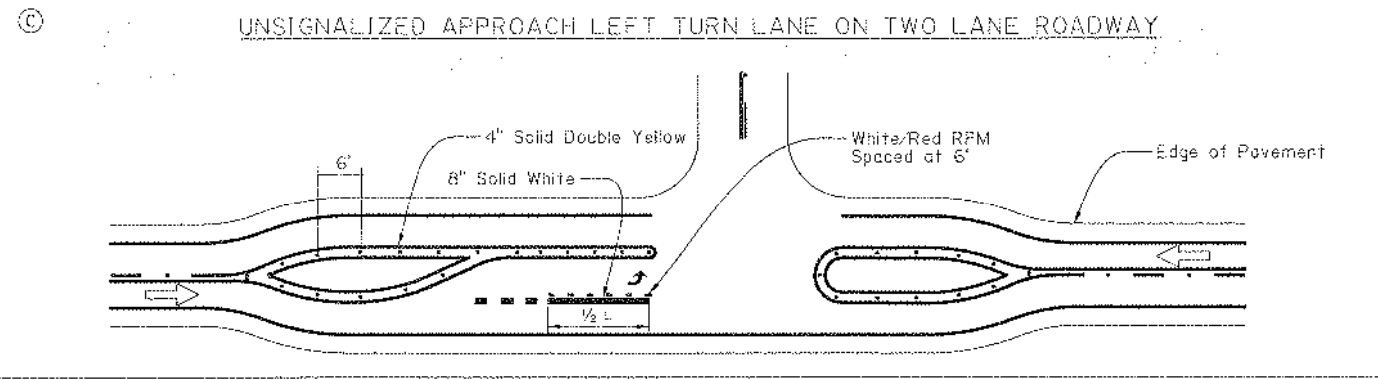
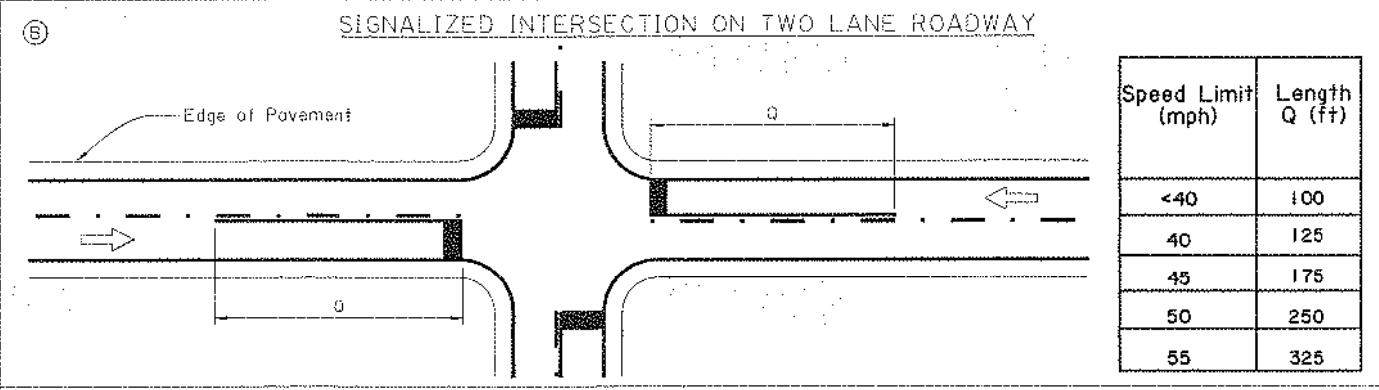
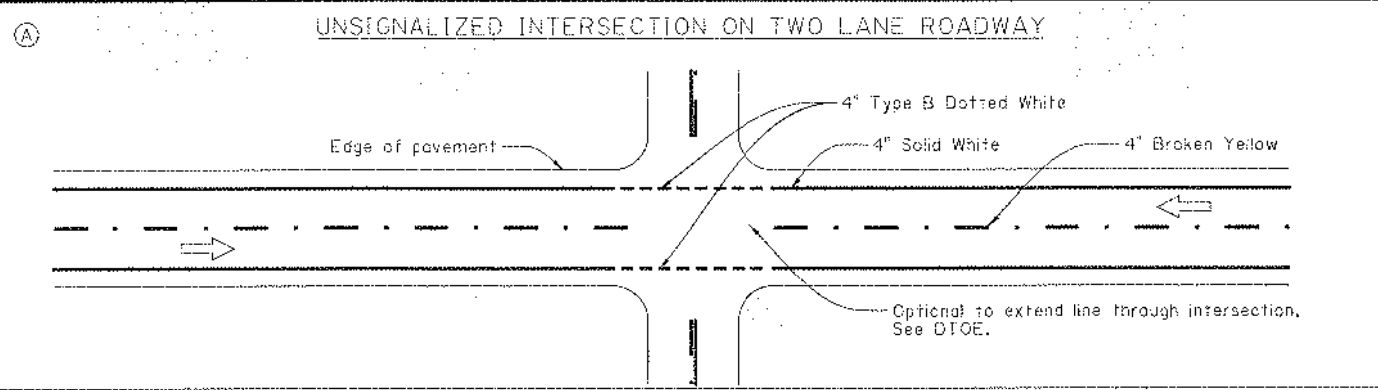
PAVEMENT MARKING DETAILS

PN-C4 Auxiliary, Deceleration and Acceleration Lanes and Gore Striping Layouts

STATE OF CALIFORNIA
 GARY N. LEBLANC
 REG. NO. 23223
 REGISTERED PROFESSIONAL ENGINEER
 CIVIL ENGINEERING

2-27-19

\$\$\$ SUBMITTAL STAGE ----- \$\$\$
 \$\$\$ this is the pathname including directory path and design file name \$\$\$



- GENERAL NOTES:**
1. If the minor street has edge lines, the edge lines on the major street shall wrap to meet the edge lines on the minor street.
 2. Stop bars shall be 24". Stop bars shall not be placed at a distance greater than 30 feet or less than 4 feet from the nearest edge line. Stop bars at right turn lanes should be placed to provide adequate sight distance for right turning traffic.
 3. The location of stop bars at left turn lanes should be determined by the turning radius needed by the side street vehicles.
 4. See PM-01 for centerline and lane line details.
 5. The ONLY word marking shall be used when a through lane terminates as a turn lane.
 6. The asterisk (*) indicates that 2nd arrow is optional. If more than two arrows are used, minimum spacing should be 150'.
 7. Edge lines should not be broken for driveways.
 8. indicates the direction of travel (not a pavement marker).
 9. L equals the full length of turn lane.
 10. Use of dotted lines require DTOE approval.



Gary N. LeBlanc
 2-27-19

SHEET NUMBER: 224
 DESIGNED BY: G. LEBLANC
 CHECKED BY: J. COLVIN
 DATE: 2/28/19
 PROJECT: TYPICAL INTERSECTION STRIPING LAYOUTS
 SECTION: PAVEMENT MARKING DETAILS
 STATE: LOUISIANA
 APPROVED BY CHIEF ENGINEER:
 PM-05
 TRAFFIC ENGINEERING

GENERAL PROVISIONS

- All temporary traffic control (TTC) devices used shall be in accordance with the Louisiana Standard Specifications for Roads and Bridges, the MUTCD, and shall meet the NCHRP Report 350 or MASH requirements for Test Level 3 devices where applicable.
Materials used for TTC shall be in accordance with the Louisiana Standard Specifications for Roads and Bridges and, when applicable, the LADOTD AML.
Placement of TTC devices shall not commence without the approval of the Engineer and until work is about to begin, unless they are covered.
No lane closures, lane shifts, diversions or detours shall occur without the approval of the Engineer.
Responsibility is hereby placed upon the contractor for the installation, maintenance and operation of all TTC devices called for in these plans or required by the Engineer for the protection of the traveling public as well as all LADOTD and construction personnel.
The contractor shall also be responsible for the maintenance of all permanent signs, pavement markings, and traffic signals left in place as essential to the safe movement and guidance of traffic within the project limits unless noted in the plans.
The DTOE shall serve as a technical advisor to the Engineer for all traffic control matters.
The Chief Construction Engineer or his appointed designee shall approve all signs and situations not addressed in the plans based on the recommendations of the Project Engineer and the DTOE. All changes shall be noted in all project traffic control diaries.
The Chief Construction Engineer or his appointed designee shall approve all design speeds of diversions or shifts, if it differs from design plans, based on the recommendations of the Project Engineer and the DTOE.
All temporary traffic control plans shall comply with the Transportation Management Plan.
Any additional signs shown in the MUTCD and required by the Engineer shall be installed under Item 713-01-00100.
Neither work activity nor storage of equipment, vehicles, TMAs, or materials shall occur within the buffer space.
When a work area has been established on one side of the roadway only, there shall be no conflicting operations or parking on the opposite shoulder within 500 feet of the work area.
A lighting plan shall be submitted to the Engineer 30 days prior to night work for approval. (See section 105.20 of the Louisiana Standard Specifications for Roads and Bridges.)
Parking of vehicles or unattended equipment or storage of materials, within the clear zone shall not be permitted unless protected by guardrail or barriers. If the clear zone is not defined on the plan sheets, the Engineer shall verify.
Immediately upon removal of existing guardrail, the contractor shall install and maintain an NCHRP Report 350 or MASH approved device to protect the blunt end of the bridge or column until new guardrail is installed. After removal of the existing guardrail, new guardrail should be installed within seven (7) days. On non-NHS routes with shoulders less than 8 feet wide: If an NCHRP 350 Report Test Level 3 or MASH device is required but the field conditions of the roadway cannot support a Test Level 3 device, then a Test Level 2 device can be substituted in its place upon approval by the Engineer. If utilized, a TMA is allowed for a maximum of 72 hours.
All costs associated with crash devices are to be included in Item 713-01-00100.
Sight distance should be considered when placing traffic control devices.
On all mainline Interstates, a minimum of 1.5 feet of paved shoulder on the left and right side shall be maintained at all times.

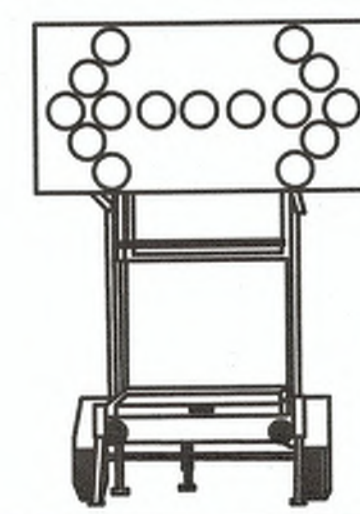
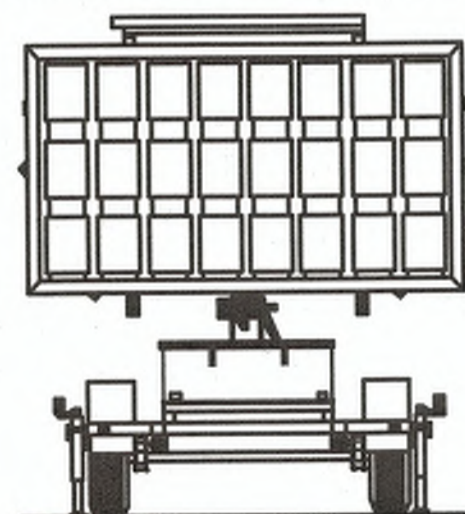
- On Interstates, a minimum of 11 foot lanes shall be maintained. On all other roadways, a 10 foot minimum travel lane should be maintained where practical.
TTC Standards are not drawn to scale.
The contractor shall develop an internal traffic control plan approved by the Engineer prior to each phase.
Truck restrictions such as (but not limited to) restricting lanes, oversize loads or times of travel, may be required for narrow lanes or other field conditions.

PAVEMENT MARKINGS (see AML)

- All pavement markings within the limits of the project or adjacent to the project limits that are in conflict with the project signing or the required traffic movements shall be removed from the pavement by blast cleaning or grinding. (Existing striping shall not be painted over with black paint or covered with tape.)
If special pavement markings are needed, they shall be reflectorized, removable and accompanied by the proper signage.
Temporary Raised Pavement Markers may be added to supplement temporary striping in areas of transition, in tapers, in diversions and in other areas of need as shown in the plans or as directed by the Engineer.
Materials and placement of temporary pavement markings shall conform to Section 713 of the Louisiana Standard Specifications for Roads and Bridges. If no pay item exists for temporary markings, they shall be installed under item 713-01-00100.
Temporary markings installed in the permanent configuration shall comply with LADOTD pavement marking standard plans, MUTCD and/or the permanent striping plans.

PORTABLE CHANGEABLE MESSAGE SIGNS (PCMS)

- PCMS shall be used on all Interstate Highways. PCMS shall be used on all other roadways (where space is available) with an ADT greater than 20,000.
When used in advance of a lane closure or a lane shift, the PCMS should be placed on the right hand side of the road a minimum distance of 2 miles in advance of the taper for interstates and to be determined by the Engineer on other highways.
For interstates and multi-lane highways, if vehicles are queuing beyond the 2 mile PCMS, an additional PCMS should be placed on the right hand side of the road approximately 5 miles in advance of the taper or at the end of the queue, whichever is greater.
PCMS messages shall be approved by the DTOE. Messages shall be no more than 3 lines and 2 screens.
Messages shall display only traffic operational, regulatory, warning, and guidance information. PCMS messages shall not display advertising or safety messages. Messages should only convey information concerning the problem/situation, location, and recommended driver action.
PCMS should be placed as far from the traveled lane as possible. They shall be shielded by guardrail or barriers. If this is not possible they shall be delineated with a min. 3 drum taper spaced at 20ft with a 4th drum alongside the PCMS.
If the PCMS encroaches on the improved shoulder then the contractor shall install a shoulder closure.
When the PCMS is not displaying a work zone appropriate message pertaining to the ongoing construction project it shall be shielded by guard rail or barriers, or removed from the clear zone.



Signature of Gary N. LeBlanc dated 6-27-18.

ALL TTC STANDARDS SHOW MINIMUM CONSTRUCTION SIGNING. ALL SITUATIONS SHALL BE REVIEWED AND/OR DESIGNED BY THE ENGINEER. CONTRACTORS ARE RESPONSIBLE FOR COMPLYING WITH ALL TTC STANDARDS.

SPEED LIMITS

- The Engineer may approve a 10 mph drop in the speed limit for posted speeds of 45 mph or greater and for any construction, maintenance or utility operation that requires one or more of the following:
(A) The condition of the traveled way is degraded due to milled surfaces or uneven travel lane lines greater than 1.5 inches.
(B) Work is in progress in the immediate vicinity of the travel way requiring lane closures or lane width reductions less than 11 feet.
(C) Workers present on the shoulder within 2 feet of the edge of the traveled way without barrier protection.
The reduced speed zone shall only apply to those portions of the project limits affected. The Engineer may allow SPEED LIMIT WHEN FLASHING signs to supplement reduced speed zones.
If the speed limit is reduced, speed limit signs shall be placed:
(A) beyond major intersections;
(B) at one mile intervals in rural areas;
(C) at half mile intervals in urban areas.
At the end of the reduced speed zone, a speed limit sign displaying the original speed limit prior to construction shall be installed.
For all other speed limit reductions not listed above, the Project Engineer and the DTOE shall recommend the speed reduction to the Chief Construction Engineer or his appointed designee for approval.
If the speed limit is reduced more than 10 mph, placement of the signs shall be re-evaluated according to the MUTCD.

FLASHING ARROW BOARDS

- All Flashing Arrow Boards shall be 4 feet by 8 feet and Type C.
Flashing Arrow Boards should be placed on the shoulder. When there is no shoulder or median area, the arrow board shall be placed within the closed lane behind the channelizing devices and as close to the beginning of the taper as practical.
Flashing arrow boards shall be delineated with retroreflective TTC devices.
At no time shall the arrow board encroach in the traveled way. When Flashing Arrow Board signs are not being used, they shall be shielded by guard rail or barriers, or removed.
Arrow boards shall only be used for lane reduction tapers and shall not be used for lane shifts.

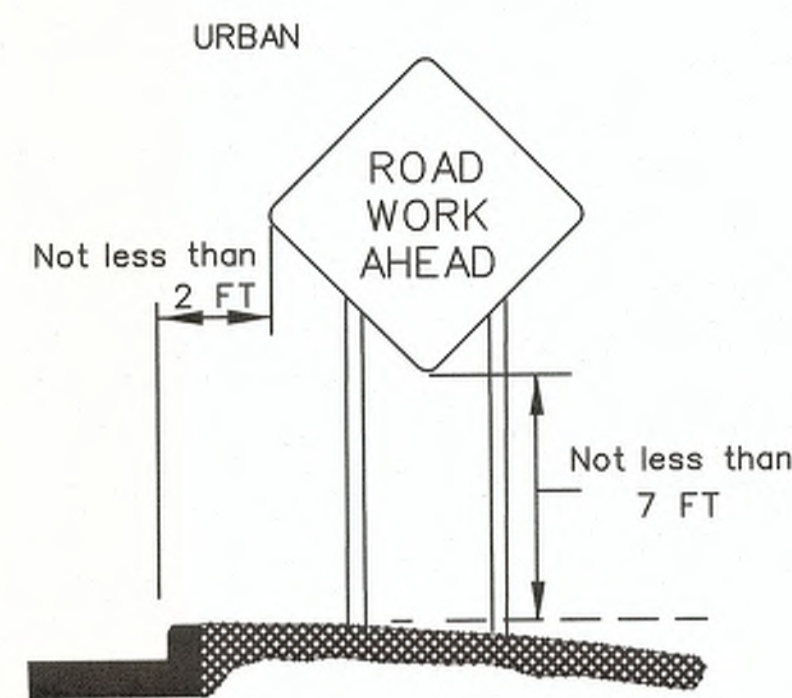
ABBREVIATIONS

- AASHTO American Association of State Highway and Transportation Officials
ADT Average Daily Traffic
AGCI Associated General Contractors of America
AML Approved Materials List
ANSI American National Standards Institute
ATSSA American Traffic Safety Services Association
B.O.P. Beginning of Project
DTOE District Traffic Operations Engineer
E.O.P. End of Project
LADOTD Louisiana Department of Transportation and Development
MASH AASHTO Manual for Assessing Safety Hardware
MUTCD Manual on Uniform Traffic Control Devices
NCHRP National Cooperative Highway Research Program
NHS National Highway System
PCMS Portable Changeable Message Sign
TMA Truck Mounted Attenuator
TMC Traffic Management Center
TTC Temporary Traffic Control
TTC Standards .. Temporary Traffic Control Standard Plans

Vertical sidebar containing project information: SHEET NUMBER 225, PARISH, COUNTY, STATE, PROJECT, DESIGNED BY, CHECKED BY, REVISION OR CHANGE ORDER DESCRIPTION, DATE: 7/2/18, APPROVED BY CHIEF ENGINEER, TEMPORARY TRAFFIC CONTROL GENERAL NOTES SHEET, TTC-00 (A), DOTD TRAFFIC ENGINEERING logo.

SIGNS

- All signs used for temporary traffic control shall follow the plans, the LADOTD TTC Standards and the MUTCD.
- Signs shown in the TTC illustrations are typical and may vary with each specific condition.
- One Type B High Intensity light shall be used to supplement the first sign (or pair of signs) that gives warning about a lane closure during nighttime operations (See AML).
- Mesh rollup signs shall not be allowed on any project.
- Contractor shall use caution not to damage existing signs which remain in place. Any LADOTD signs damaged by work operations shall be replaced by the contractor under item 713-01-00100.
- All signs (permanent and temporary) shall be removed or completely covered with a strong, lightweight, opaque material when no longer applicable. (Burlap is not an acceptable material to cover signs).
- At no time shall signs warning against a particular operation be left in place once the operation has been completed or where the condition has been removed.
- Warning signs used for temporary traffic controls shall meet the following guidelines unless otherwise noted in the plans:
 - (A) size shall be 48 inches by 48 inches.
 - (B) see the Louisiana Standard Specifications for Roads and Bridges and the AML for sheeting information.
 - (C) lateral distance of signs shall be a minimum of 6 feet from the edge of shoulder or edge of pavement if no shoulder exists and 2 feet from the back of curb in urban areas (see diagram).
- When portable sign frames are not in use, they shall be moved to an area inaccessible to traffic and not visible to the driver.
- Left side mounted signs will not be required for roadways with a center left turn lane and for undivided roadways.
- Vinyl rollup signs may be used if work zone is in place for 12 hours or less, there are no more than 2 lanes in each direction and if signs meet all size, color, retroreflectivity and NCHRP 350 Report or MASH requirements.
- All signs shall be visible to the drivers (i.e. no obstructions such as on street parking or other traffic control devices shall block the sign).
- On divided highways, signs shall be placed on the right and the left as shown on the TTC standards.
- 1 foot portable sign stands may be used if the work zone is in place for 14 hours or less and there are no more than 2 lanes in each direction.
- Sign posts:
 - Signs measuring 10 square feet or less shall be mounted on 1 rigid post
 - Signs over 10 square feet shall be mounted on 2 rigid posts
 - Signs over 20 square feet shall be mounted on at least 3 rigid posts
- Rigid sign supports shall be driven to a minimum depth of 3 feet. (If splicing is required, see Allowable Lap Splice U-channel Post.)
- For sign height, see the Rural and Urban diagrams:



LANE CLOSURES

- All proposed lane, road or shoulder closures shall be reviewed by the DTOE and approved by the Engineer.
- Two lane, two-way highways shall have a maximum work area of two miles; all other roadways shall have a four mile maximum work area.
- A queue analysis shall be performed prior to approval of lane closures on all Interstates according to Section 6A.1 of the Traffic Engineering Manual.
- Closure plans and times shall be turned in to the Engineer for review according to the following:
 - (A) 5 working days minimum if traffic control plan has been approved or is contained in the plans.
 - (B) 10 working days minimum and a traffic control plan must be submitted for lane closures not addressed in the plans.
- Weekly updates to the DTOE, Project Engineer, the LADOTD TMC operator and the regional TMC operator (if applicable) will be required for all ongoing lane closures to update the closure status.
- Daily updates to the DTOE, Project Engineer and TMC operator (if applicable) will be required for all projects where active closures are in place.

FLAGGERS

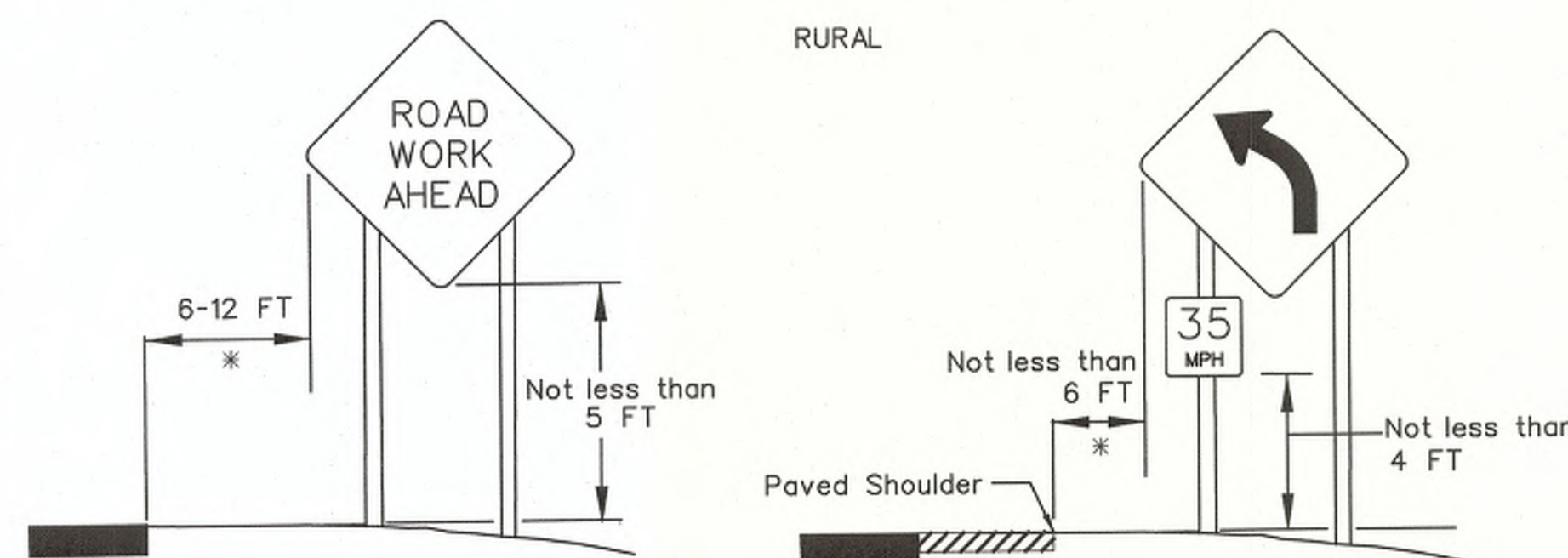
- All flaggers shall be qualified.
- The contractor shall be responsible for training or assuring that all flaggers are qualified to perform flagging duties.
- A Qualified Flagger is one that has completed courses such as those offered by ATSSA or other courses approved by the LADOTD Work Zone Task Force. The contractor shall be responsible for getting the flagger course approved.
- When utilized, a flagger shall use a minimum 18 inch octagonal shape sign on a minimum 6 foot stop/slow paddle and wear ANSI Class 2 Lime Green vest during day time operations and ANSI Class 3 Lime Green ensemble during night operations.
- In all flagging operations, the flagger must be visible from the flagger advance warning sign.
- Flaggers shall not be used on the Interstate.

PEDESTRIAN CONSIDERATIONS

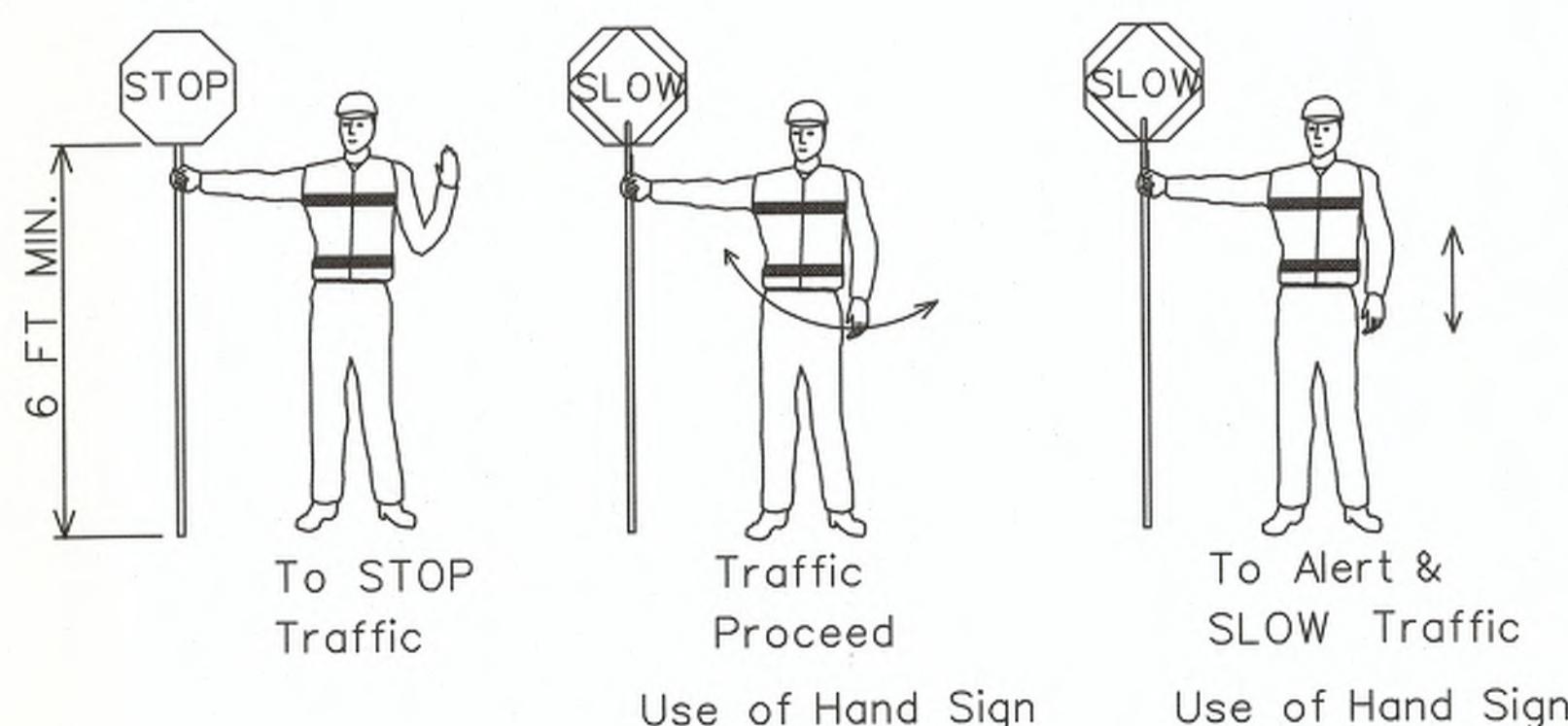
- If the TTC zone affects the movement of pedestrians, adequate pedestrian access and walkways shall be provided either through the TTC zone or a designated alternate route.
- Pedestrians should be provided with a convenient and accessible path that replicates as nearly as practical the most desirable characteristics of the existing sidewalk(s) or footpath(s).
- Advance notification of sidewalk closures shall be provided by the maintaining agency.

REFERENCES

- The contractor shall be responsible for understanding all rules and requirements in the current edition of the following documents:
 - 1) Louisiana Standard Specifications for Roads and Bridges. <http://www.dot.la.gov/highways/specifications/>
 - 2) Manual on Uniform Traffic Control Devices for Streets and Highways (MUTCD). <http://mutcd.fhwa.dot.gov/>
 - 3) LADOTD Approved Materials List (AML) Manual. http://wwwsp.dot.la.gov/Inside_LaDOTD/Divisions/Engineering/Materials_Lab/Pages/Menu_QPL.aspx
 - 4) LADOTD Traffic Engineering Manual http://wwwsp.dot.la.gov/Inside_LaDOTD/Divisions/Engineering/Traffic_Engineering/Misc/20Documents/Traffic/20Engineering/20Manual.pdf
 - 5) National Cooperative Highway Research Program (NCHRP) Report 350: "Guidelines for Work Zones Traffic Control Devices". http://onlinepubs.trb.org/Onlinepubs/nchrp/nchrp_rpt_350-a.pdf
 - 6) NCHRP Report 475: "A Procedure for Assessing and Planning Nighttime Highway Construction and Maintenance". http://onlinepubs.trb.org/Onlinepubs/nchrp/nchrp_rpt_475.pdf
 - 7) NCHRP Report 476: "Guidelines for Design and Operation of Nighttime Traffic Control for Highway Maintenance". http://onlinepubs.trb.org/Onlinepubs/nchrp/nchrp_rpt_476.pdf
 - 8) NCHRP Report 498: "Illumination Guidelines for Nighttime Highway Work". http://onlinepubs.trb.org/Onlinepubs/nchrp/nchrp_rpt_498.pdf
 - 9) American Association of State Highway and Transportation Officials (AASHTO) Roadside Design Guide.
 - 10) American Traffic Safety Services Association (ATSSA) Quality Guidelines for Work Zone Traffic Control Devices and Features.
 - 11) U.S. Department of Transportation Federal Highway Administration Traffic Control Handbook for Mobile Operations at Night. <http://www.dot.state.il.us/blr/1023.pdf>



* If lateral distance is not practical, the sign may be placed no less than 2 feet.



ALL TTC STANDARDS SHOW MINIMUM CONSTRUCTION SIGNING. ALL SITUATIONS SHALL BE REVIEWED AND/OR DESIGNED BY THE ENGINEER. CONTRACTORS ARE RESPONSIBLE FOR COMPLYING WITH ALL TTC STANDARDS.

DESIGNED	G. LEBLANC	DATE	7/2/18
CHECKED	J. COLVIN	REVISION OR CHANGE ORDER DESCRIPTION	
DETAILED	C. FAKOURI	BY	
CHECKED	G. LEBLANC	DATE	
SERIES NUMBER		CHIEF ENGINEER	

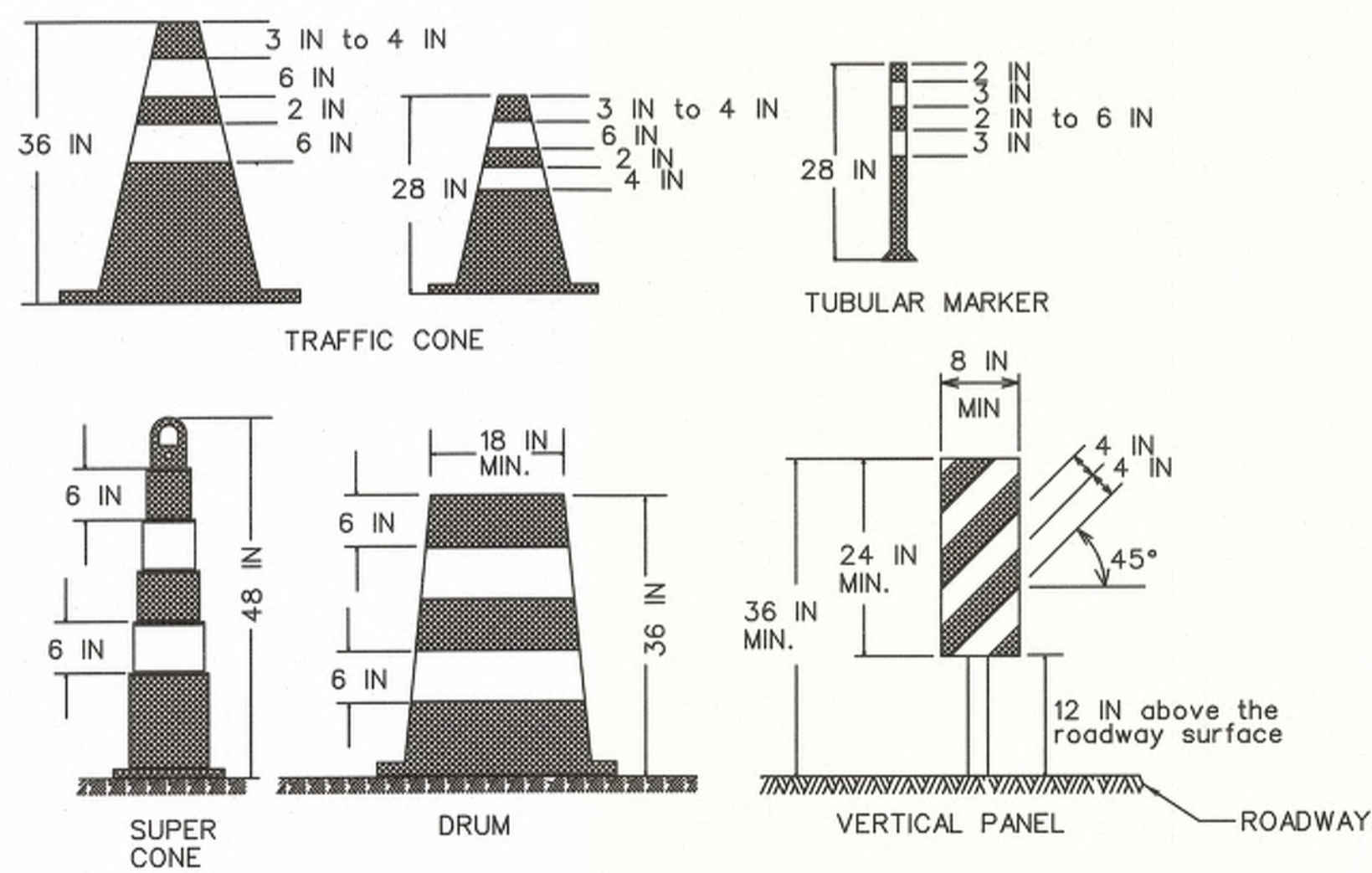


TEMPORARY TRAFFIC CONTROL GENERAL NOTES SHEET TTC-00 (B)



CHANNELIZING DEVICES

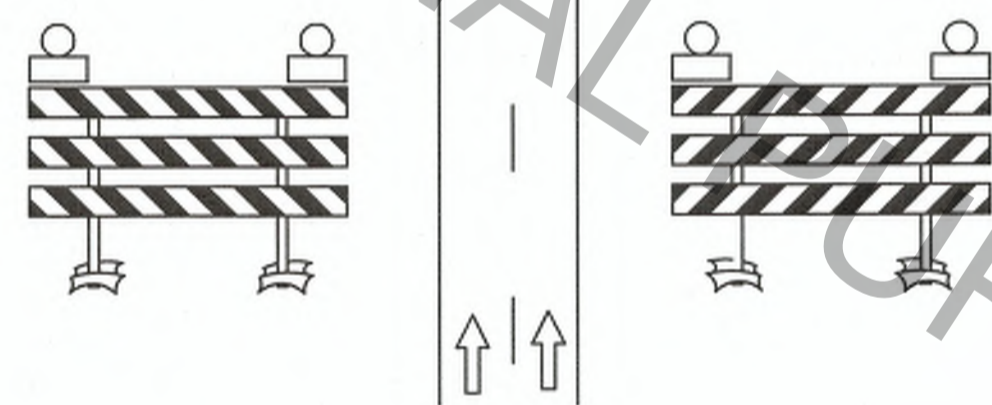
- The following devices may be used as channelizing devices: Tubular Markers, Vertical Panels, Cones, Drums and Super Cones.
- 28 inch traffic cones are not allowed on:
 - 1) Interstates
 - 2) Highways with speeds greater than 40 mph.
- During nighttime operations, 28 inch and 36 inch cones are not allowed.
- Retroreflective material pattern used on super cones shall match that used on drums.
- **Tangent Areas:**
 - A) Standard Spacing: See Standard Device Spacing and Buffer Space table.
 - B) Daylight Operations: Drums and super cones are spaced at standard spacing. All other devices are at 1/2 standard spacing.
 - C) Nighttime Operations: Drums and supercones at standard spacing are the only devices allowed.
- **Taper Areas:**
 - A) Standard Spacing: See Standard Device Spacing and Buffer Space table.
 - B) Daylight Operations: Drums are spaced at standard spacing. All other devices are 1/2 standard spacing.
 - C) Nighttime Operations: Drums (at standard spacing) are the only devices allowed.
- Type C steady burn lights shall be used on all channelizing devices in the taper as well as the first two devices in the tangent at night, (see the AML).
- Typical channelizing device lateral placement (do not include when it is used as a divider for opposing directions of traffic) shall be 2 feet off the lane line in the closed lane or shoulder.
- Devices may be adjusted laterally to accommodate ongoing work in the immediate vicinity but must be returned to the closed lane after the work activity has moved.
- Channelizing devices on the lane line shall be of the same type.
- Channelizing devices in each taper shall be of the same type.



ALL TTC STANDARDS SHOW MINIMUM CONSTRUCTION SIGNING. ALL SITUATIONS SHALL BE REVIEWED AND/OR DESIGNED BY THE ENGINEER. CONTRACTORS ARE RESPONSIBLE FOR COMPLYING WITH ALL TTC STANDARDS.

TYPE III BARRICADES

- Only Type III Barricades shall be used.
- All barricades shall use Type 3 High Intensity Sheeting on both sides of the barricade.
- All barricades shall be a minimum of 8 feet in length and must meet NCHRP Report 350 or MASH requirements.
- When used for overnight closures, two Type B High Intensity Lights shall supplement all barricades that are placed in a closed lane or that extend across a highway. Two Type A Low Intensity Lights may be used in urban areas if approved by the Engineer (See AML).
- When signs and lights are to be mounted to a barricade, they must meet NCHRP Report 350 or MASH requirements.
- A truck with a TMA may be substituted for a barricade when workers are present.
- Barricades shall be placed:
 - (A) at the beginning of a closed lane or shoulder and at 1,000 foot intervals where no active work is ongoing and the lane must remain closed. A minimum of 2 barricades shall be placed if the lane or shoulder closure is less than 2,000 feet. (One barricade shall be placed at the beginning of the lane closure after the buffer space and one shall be placed in the middle of the lane closure.)
 - (B) before each or group of unfilled holes or holes filled with temporary material.
 - (C) before uncured concrete.
 - (D) in the closed lane on each side of every intersection and crossover. (Do not block sight distance.)
 - (E) in front of piles of material (dirt, aggregate, broken concrete), culverts and equipment which is near the work zone.



TTC for DROP-OFFS

NON-INTERSTATE

Average Drop-off	Current Posted Speed (Prior to Construction)	
	> 45 MPH	≤ 45 MPH
≤ 3 IN	Low Shoulder Sign (Optional)	Low Shoulder Sign (Optional)
> 3 IN	Shoulder Drop Off Sign & Edge Lines or Shoulder Drop Off Sign & Channelizing Device	Shoulder Drop Off Sign
≤ 6 IN	No Shoulder Sign, Edge Lines & Vertical Panel	No Shoulder Sign & Channelizing Device
> 6 IN	Concrete Barrier (if drop off is < 12 FT from edge of travel lane) & Edge Lines	No Shoulder Sign & Vertical Panel

INTERSTATE

Average Drop-off	Requirement
≤ 2 IN	Low Shoulder Sign (Optional)
> 2 IN	Shoulder Drop Off Sign & Edge Lines or Shoulder Drop Off Sign & Channelizing Device
> 6 IN	Concrete Barrier (if drop off is < 12 FT from edge of travel lane), Shoulder Drop Off Sign, & Edge Lines

- If a portable concrete barrier will be required then the deflection shall be considered in the design.
- For Interstate ramps, refer to non-Interstate drop offs.

STANDARD DEVICE SPACING AND BUFFER SPACE

SPEED LIMIT (prior to construction) MPH	MERGING TAPER LENGTH (L) Lane Width (FT)				STANDARD DEVICE SPACING IN FEET		BUFFER SPACE FT
	9	10	11	12	Along Taper	Along Tangent	
25	94	105	115	125	20	40	155
30	135	150	165	180	30	60	200
35	184	205	225	245	35	70	250
40	240	267	294	320	40	80	305
45	405	450	495	540	40	80	360
50	450	500	550	600	40	80	425
55	495	550	605	660	40	80	495
60	540	600	660	720	40	80	570
65	585	650	715	780	40	80	645
70	630	700	770	840	40	80	730
75	675	750	825	900	40	80	820

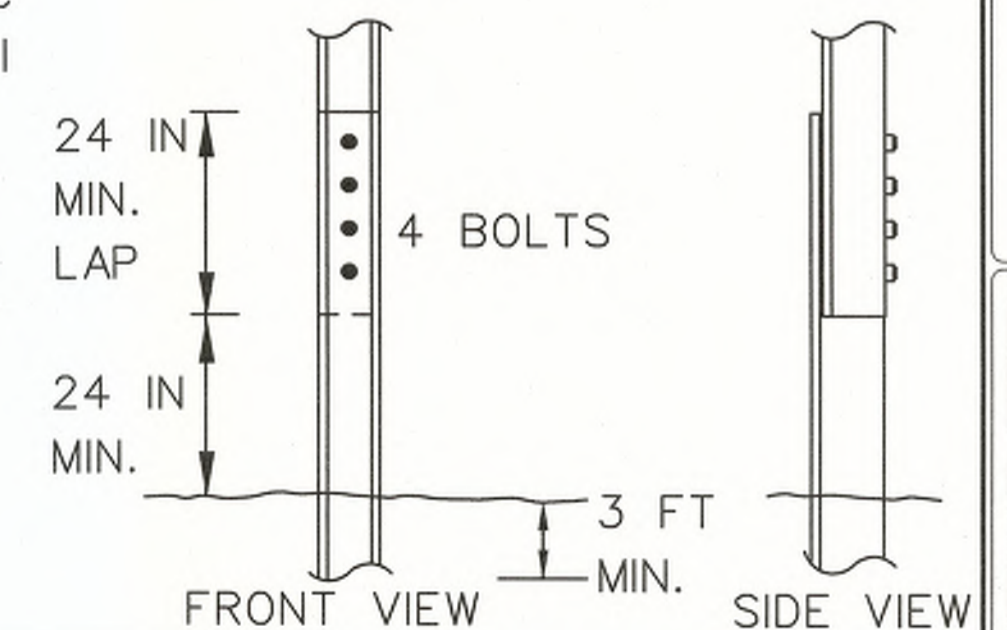
SPEED LIMIT (prior to construction) MPH	SHIFTING TAPER LENGTH (1/2)L Lane Shift (FT)						STANDARD DEVICE SPACING IN FEET		BUFFER SPACE FT
	2	4	6	8	10	12	Along Taper	Along Tangent	
25	11	21	32	42	52	63	20	40	155
30	15	30	45	60	75	90	30	60	200
35	21	41	62	82	102	123	35	70	250
40	27	54	80	107	134	160	40	80	305
45	45	90	135	180	225	270	40	80	360
50	50	100	150	200	250	300	40	80	425
55	55	110	165	220	275	330	40	80	495
60	60	120	180	240	300	360	40	80	570
65	65	130	195	260	325	390	40	80	645
70	70	140	210	280	350	420	40	80	730
75	75	150	225	300	375	450	40	80	820

SPEED LIMIT (prior to construction) MPH	SHOULDER TAPER LENGTH (1/3)L Shoulder Width (FT)						STANDARD DEVICE SPACING IN FEET		BUFFER SPACE FT
	2	4	6	8	10	12	Along Taper	Along Tangent	
25	7	14	21	28	35	42	20	40	155
30	10	20	30	40	50	60	30	60	200
35	14	28	41	55	68	82	35	70	250
40	18	36	54	72	89	107	40	80	305
45	30	60	90	120	150	180	40	80	360
50	34	67	100	134	167	200	40	80	425
55	37	74	110	147	184	220	40	80	495
60	40	80	120	160	200	240	40	80	570
65	44	87	130	174	217	260	40	80	645
70	47	94	140	187	234	280	40	80	730
75	50	100	150	200	250	300	40	80	820

- All termination and flagger tapers are 100 feet. (MIN. 6 channelizing devices per lane equally spaced 20 feet apart.)
- See TTC Standards for flagger taper.
- See MUTCD for taper formulas.

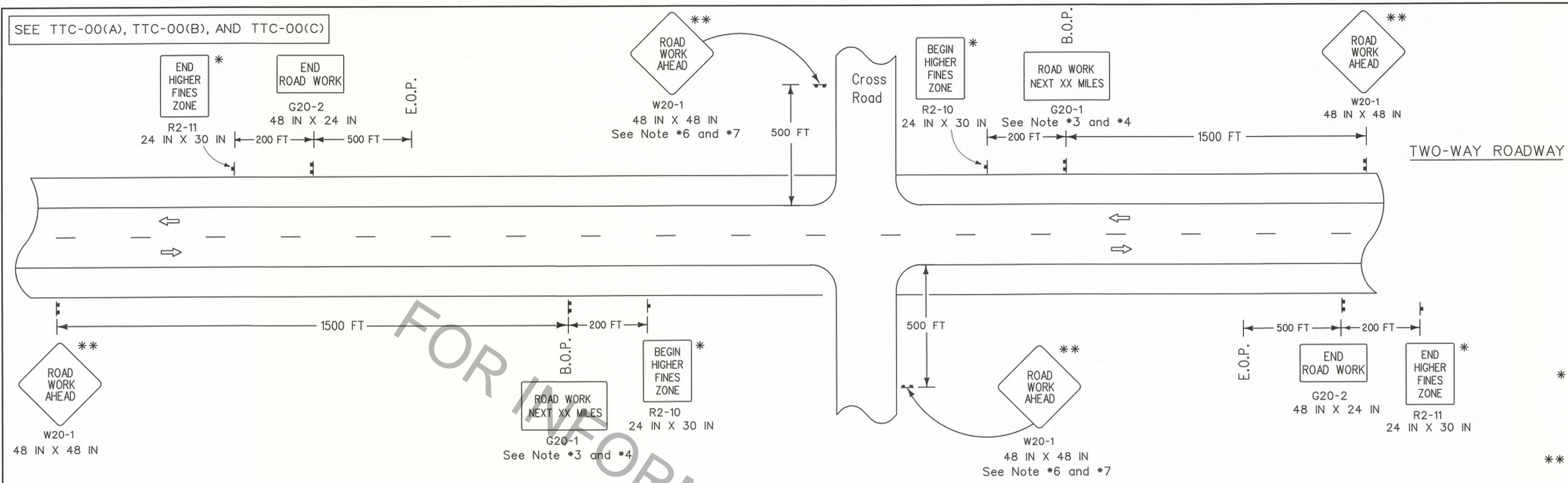
ALLOWABLE LAP SPLICE FOR U-CHANNEL POST

U-Channel posts may be spliced where long lengths are required. The upper section shall overlap the lower section by at least 24 inches. The bottom edge of the upper section of the splice shall be a minimum of 24 inches above the ground. The spliced sections shall be secured with at least four 5/16 inch diameter hex bolts spaced equally along the splice.



DESIGNED	G. LEBLANC	PARISH	
CHECKED	J. COLVIN	CONTROL SECTION	
DATE		STATE PROJECT	
REVISION OR CHANGE ORDER DESCRIPTION			
BY			
DATE			
NO. DATE			
APPROVED BY			
CHIEF ENGINEER			
DATE	7/2/18		

SEE TTC-00(A), TTC-00(B), AND TTC-00(C)



* For divided roadways with speeds ≥ 50 mph use larger sign, 36 IN X 48 IN.
 ** Any sign of the W20-1 series may be used.

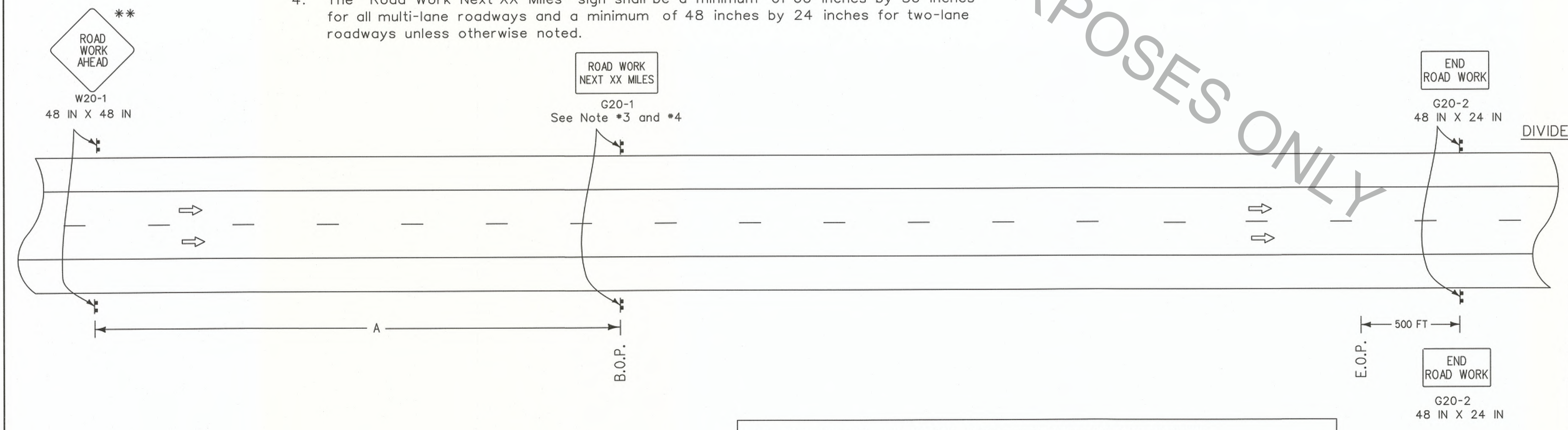
NOTES

This sheet shall be used with the Temporary Traffic Control General Notes Sheets TTC-00(A), TTC-00(B), TTC-00(C), and other Temporary Traffic Control Sheets as appropriate.

1. This layout represents the minimum traffic controls required for placement of "Road Work Next XX Miles" and "End Road Work" signs.
2. This layout does not replace other TTC Standard Sheets, but is intended as a supplement to the required signing.
3. The distance on the "Road Work Next XX Miles" sign shall be stated to the nearest whole mile. This sign shall be placed at the Beginning of Project (B.O.P.) limits. This sign may be omitted if work zone is less than 0.5 miles.
4. The "Road Work Next XX Miles" sign shall be a minimum of 60 inches by 36 inches for all multi-lane roadways and a minimum of 48 inches by 24 inches for two-lane roadways unless otherwise noted.
5. The "End Road Work" sign shall be placed 500 feet past the End of Project (E.O.P.) limits.
6. If "Road Work Ahead" sign is used on a cross road to warn of road work on another route, then "End Road Work" sign is not required.
7. When projects are separated by less than 1 mile, they shall be signed as one project; this may require coordination.

LEGEND

- ⊥ Traffic Sign
- ⇒ Direction of Travel



SPEED LIMIT (prior to construction)	SPACING
≤ 40 mph	1500 FT
45 mph	2640 FT
> 45 mph	5280 FT

ALL TTC STANDARDS SHOW MINIMUM CONSTRUCTION SIGNING.
 ALL SITUATIONS SHALL BE REVIEWED AND/OR DESIGNED BY THE ENGINEER.
 CONTRACTORS ARE RESPONSIBLE FOR COMPLYING WITH ALL TTC STANDARDS.

• Sign spacing to be adjusted for Horizontal and Vertical curves.
 • For work outside of the traveled way, see TTC-01 and TTC-02.

FOR INFORMATIONAL PURPOSES ONLY

DESIGNED BY	G. LEBLANC
CHECKED BY	J. COLVIN
DATE	7/2/18
REVISION OR CHANGE ORDER DESCRIPTION	
NO.	
DATE	
APPROVED BY	
CHIEF ENGINEER	



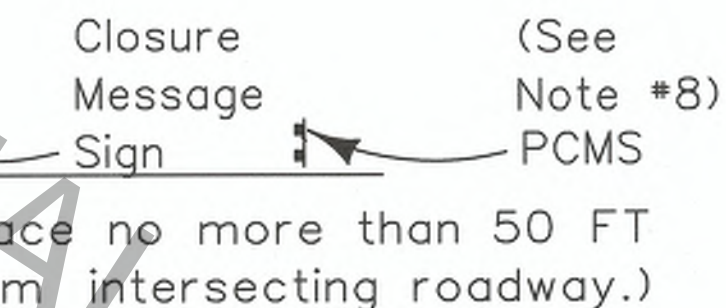
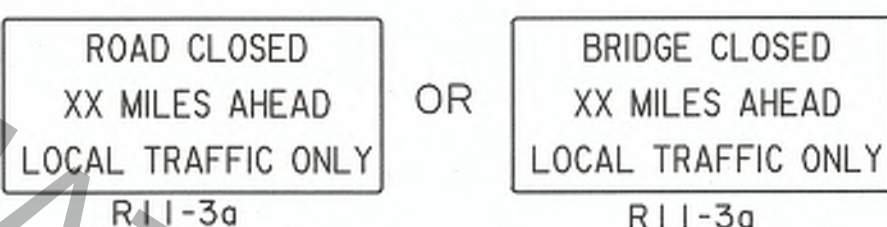
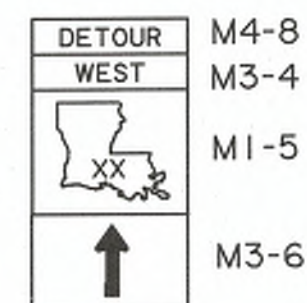
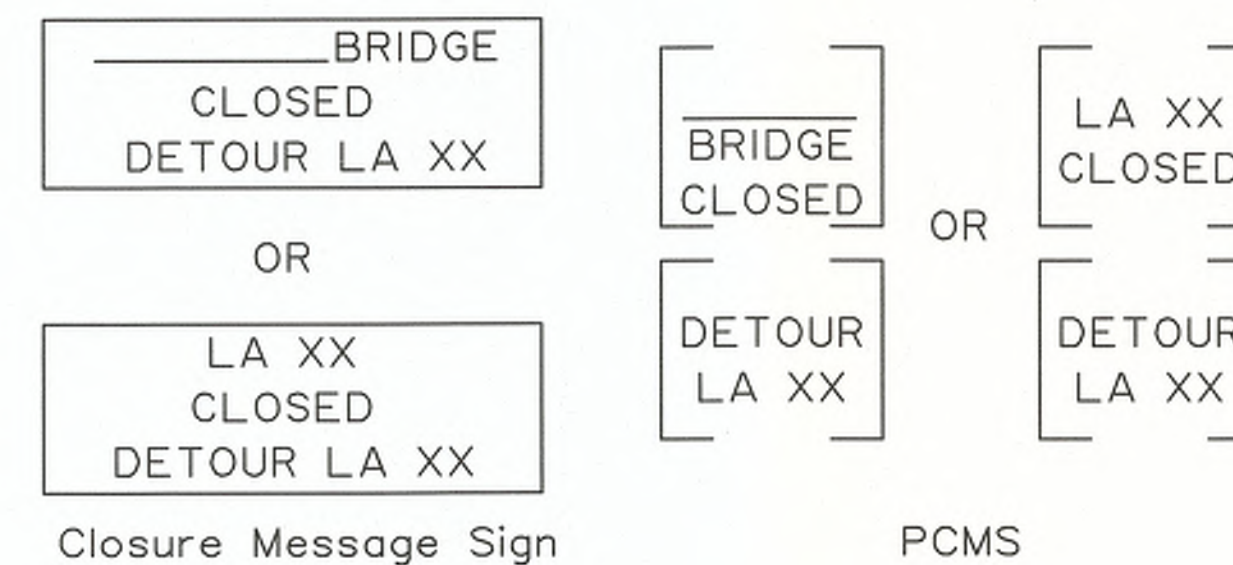
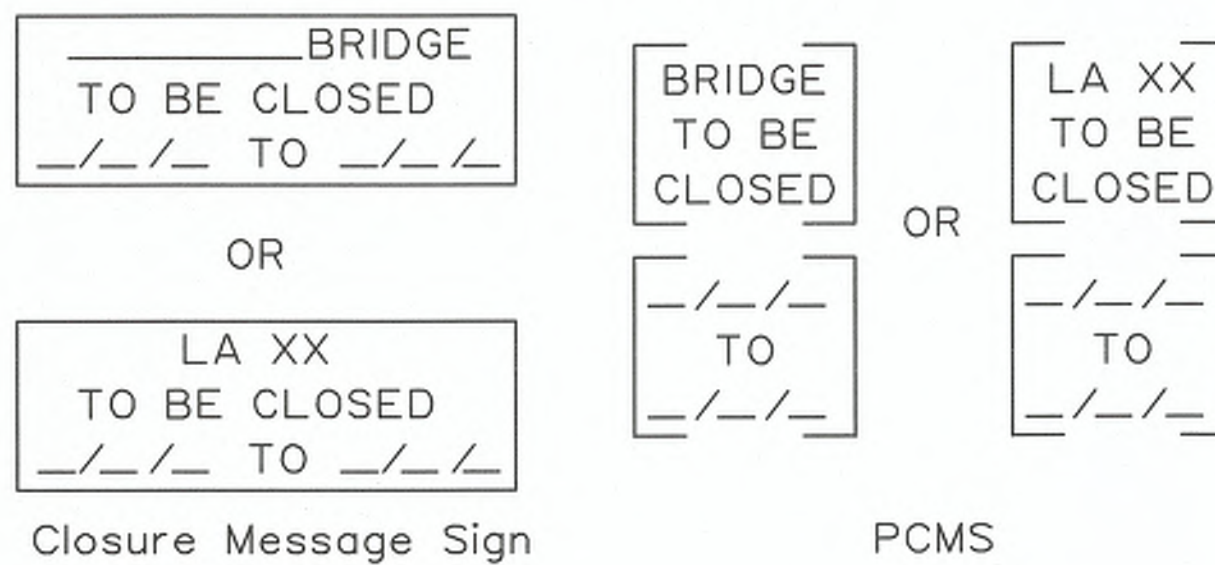
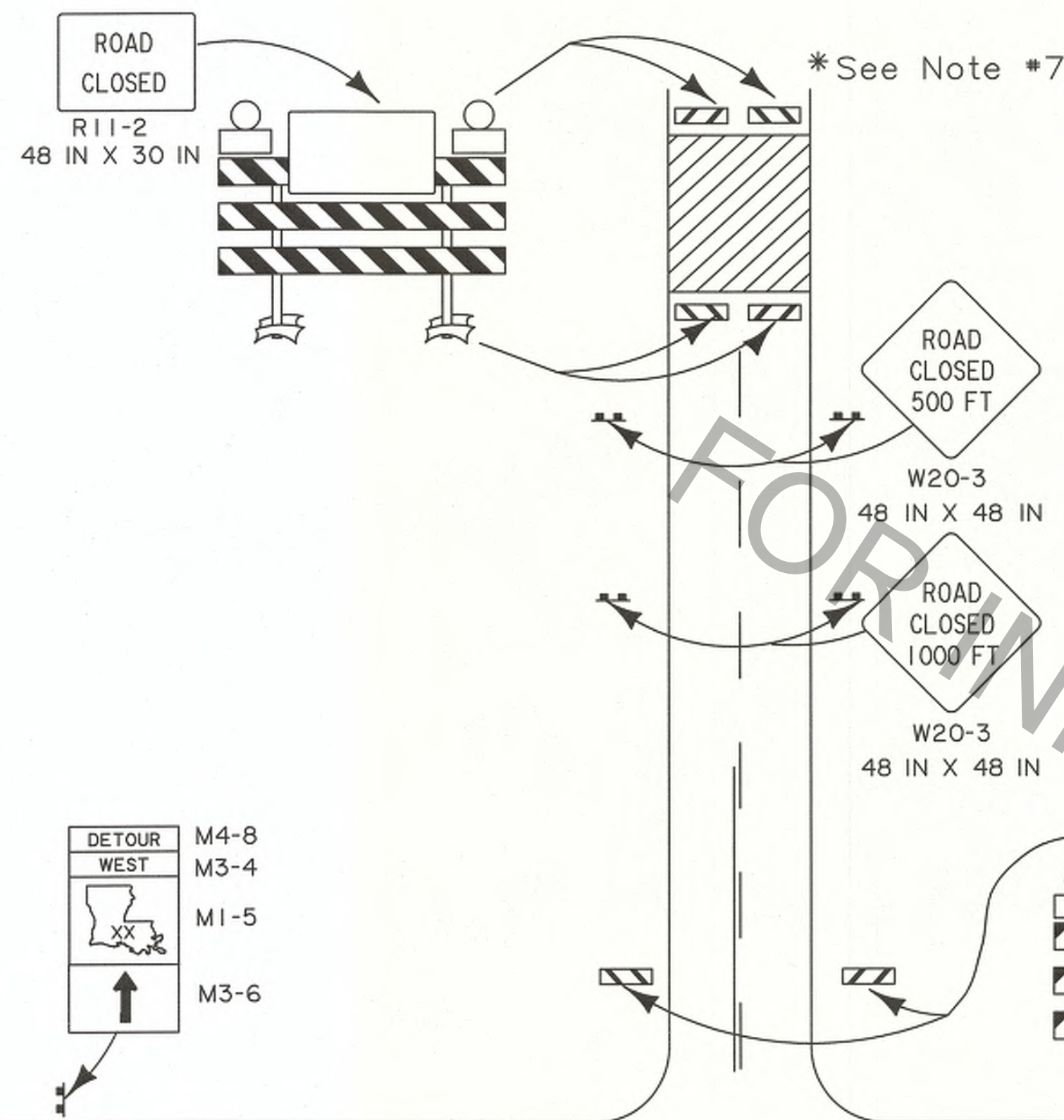
TEMPORARY TRAFFIC CONTROL LAYOUT FOR PLACEMENT OF ROAD WORK NEXT XX MILES AND END ROAD WORK SIGNS



ADVANCE WARNING SIGN DURING ROAD CLOSURE

See Note #4 and #8

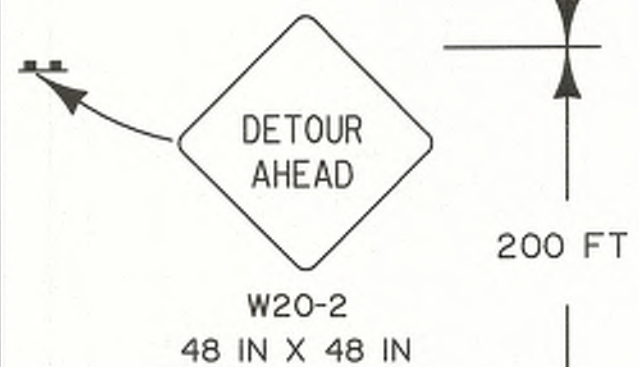
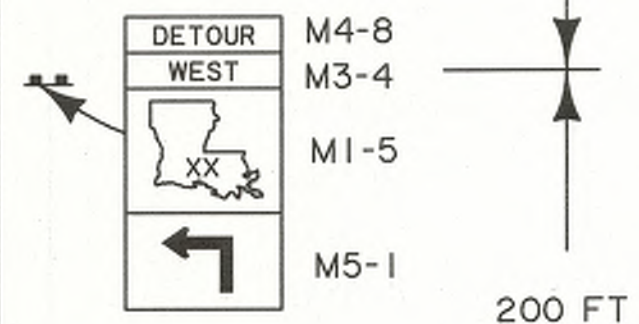
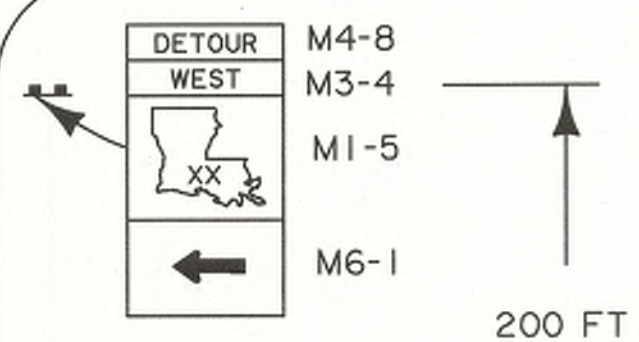
See Note #4 and #8



(Place no more than 50 FT from intersecting roadway.)

(Place no more than 50 FT from intersecting roadway.)

PCMS (See Note #8)
Closure Message Sign



PCMS (See Note #8)

LEGEND

- Direction of Travel
- ⌚ Traffic Sign

ALL TTC STANDARDS SHOW MINIMUM CONSTRUCTION SIGNING.
ALL SITUATIONS SHALL BE REVIEWED AND/OR DESIGNED BY THE ENGINEER.
CONTRACTORS ARE RESPONSIBLE FOR COMPLYING WITH ALL TTC STANDARDS.

NOTES

This sheet shall be used with the Temporary Traffic Control General Notes Sheets TTC-00(A), TTC-00(B) and TTC-00(C).

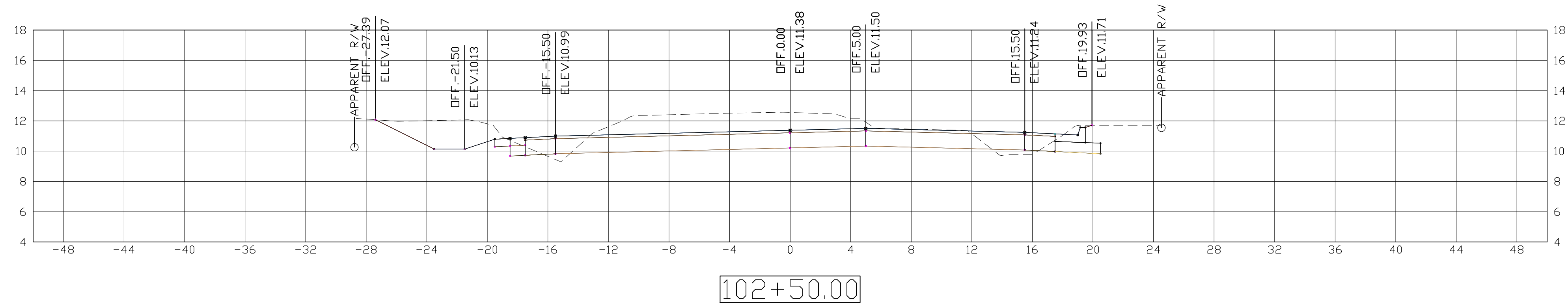
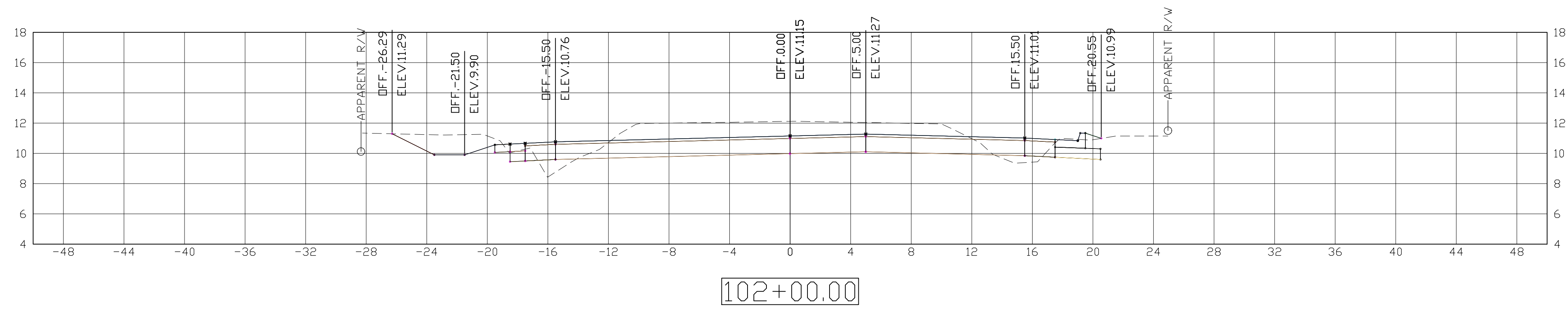
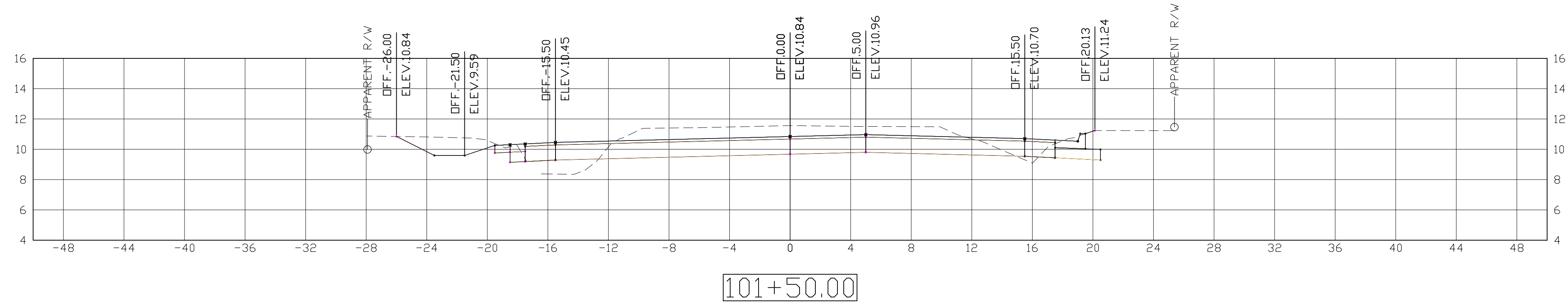
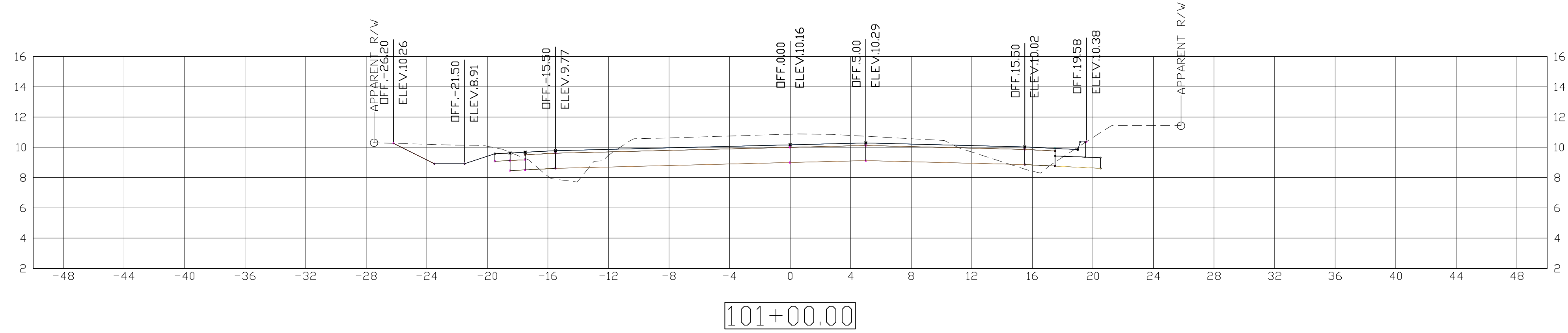
1. This layout represents the generic traffic controls required for road closure on a two-lane roadway. A specific detour plan with all required signs and routes is required for all detours.
2. Any signs in conflict with detour signing shall be removed or covered.
3. Closure Message Sign or PCMS shall be placed 7 days prior to road closure on all approaches to the closure. This sign shall be placed no farther than 50 FT from the work area to be closed.
4. Closure Message Sign or PCMS shall be placed on all approaches to the closure for the duration of the road closure. Minimum letter size on static signs shall be 8 inches.
5. Detour routes shall only be state-maintained routes, unless the project manager has made an agreement with the road owner.
6. Not all detour signs are shown. The DTOE shall approve all detours. The contractor shall be responsible for placing and maintaining all detour signs. There should be a sign at every decision point.
7. The signing is to be mirrored in the opposite direction.
8. PCMS shall be used in addition to the closure message sign on all highways with an ADT greater than 20,000. Place at a location approved by the Engineer.
9. A complete detour map shall be included with the set of plans. If there are changes in the routing, then the contractor will need to submit to the Engineer for approval.



DESIGNED	G. LEBLANC	PARISH	
CHECKED	J. COLVIN	CONTROL SECTION	
Detailed	C. FAYOURI	STATE PROJECT	
CHECKED	G. LEBLANC		
SERIES NUMBER			
REVISION OR CHANGE ORDER DESCRIPTION			
NO.		DATE	7/12/18
APPROVED BY CHIEF ENGINEER			

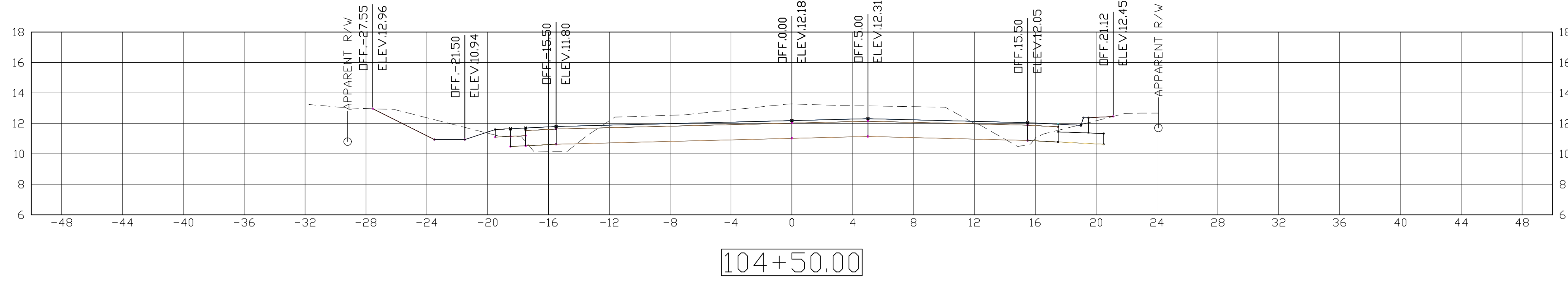
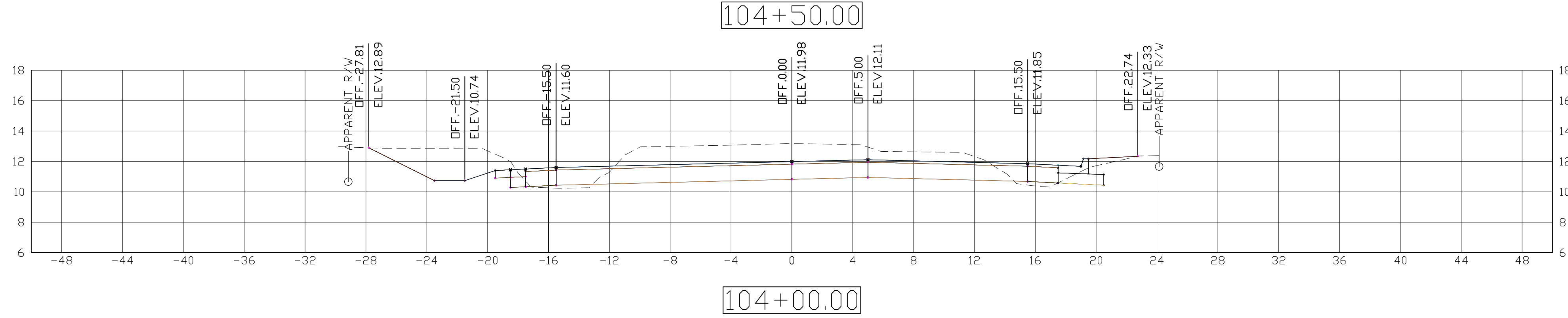
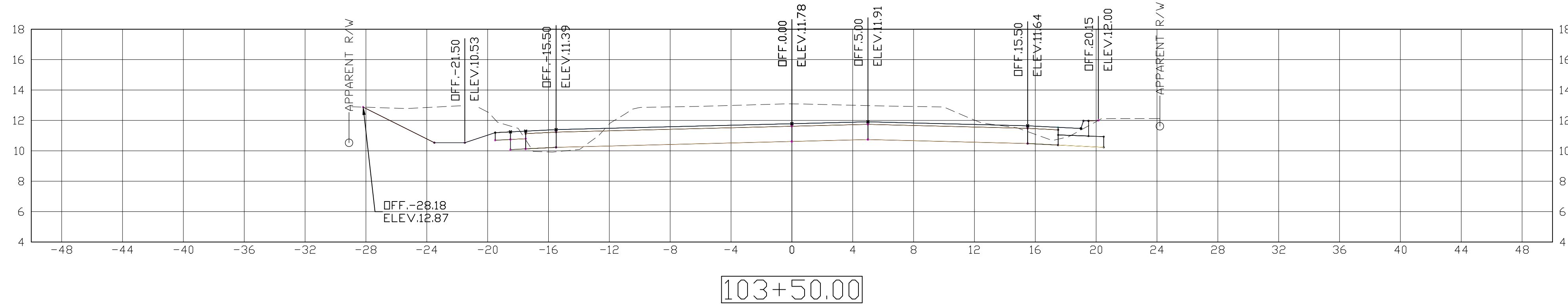
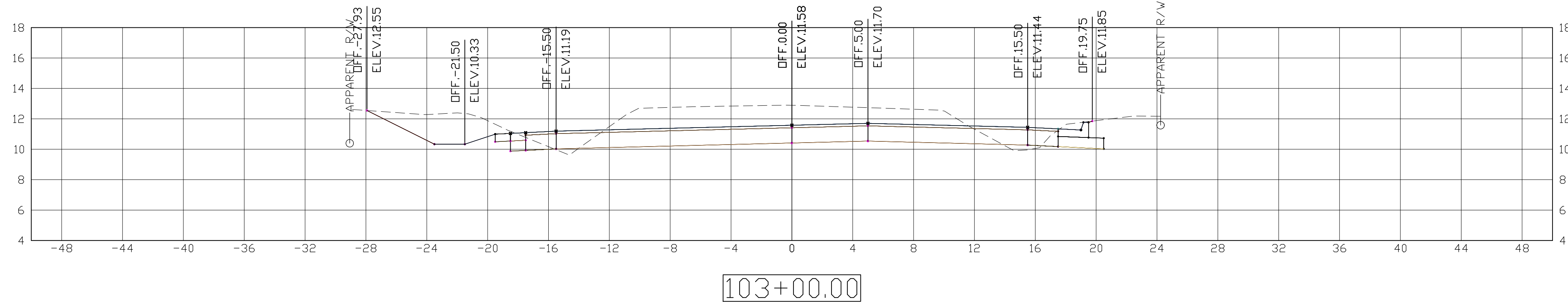
TEMPORARY TRAFFIC CONTROL FOR ROAD CLOSURES





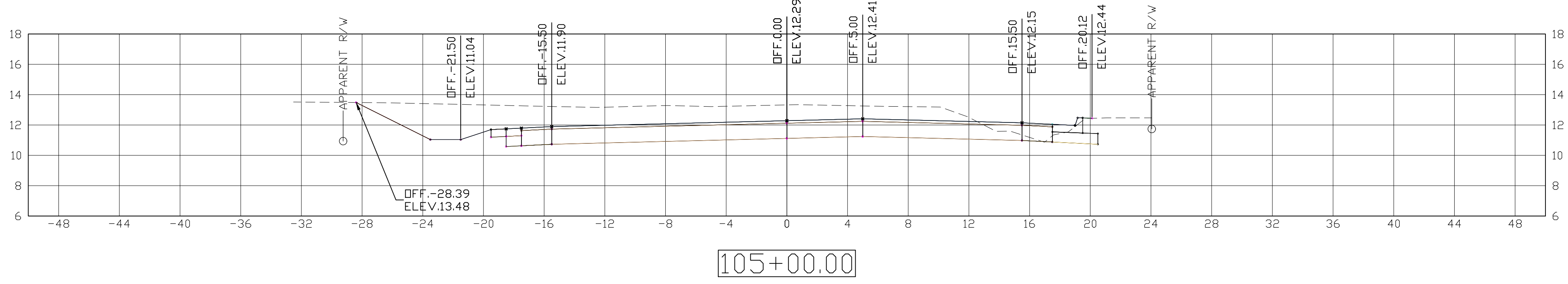
STATE OF LOUISIANA
 RANDAL J. BONURA
 License No. 39861
 PROFESSIONAL ENGINEER
 IN
 CIVIL ENGINEERING
Randal J. Bonura
 1/8/2021

SHEET NUMBER		401
PARISH	ST. TAMMANY	
CONTROL SECTION	000-52	
PROJECT	EN18000011	
DESIGNED	RB	
CHECKED	RH	
DETAILED	RB	
CHECKED	RH	
SERIES NUMBER	1 OF 11	
REVISION OR CHANGE ORDER DESCRIPTION		BY
		DATE
CROSS SECTIONS SOULT ST. ROAD IMPROVEMENTS		

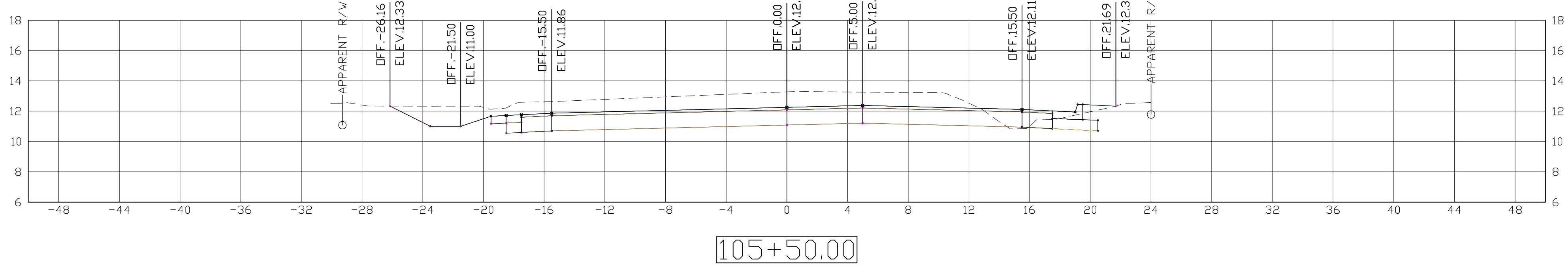


STATE OF LOUISIANA
 RANDAL J. BONURA
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 PROFESSIONAL ENGINEER
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Randal J. Bonura
 1/8/2021

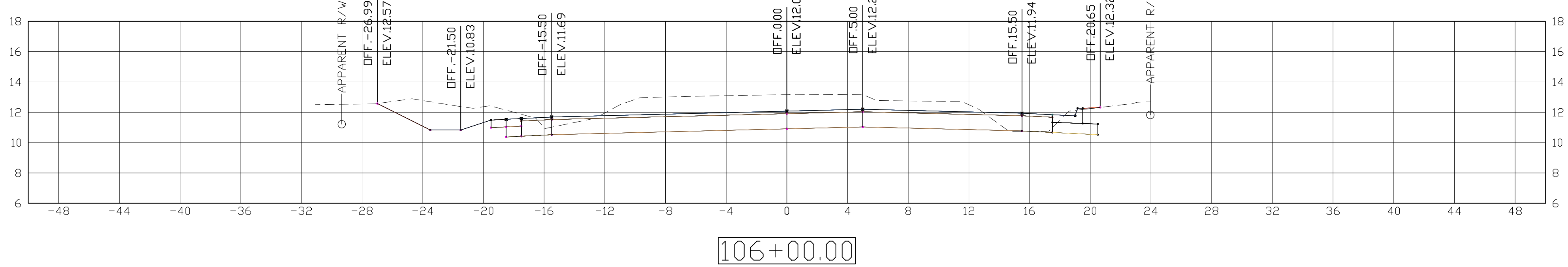
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PARISH	ST. TAMMANY	
CONTROL SECTION	000-52	
PROJECT	EN18000011	
DESIGNED	RB	
CHECKED	RH	
DETAILED	RB	
CHECKED	RH	
SERIES NUMBER	2 OF 11	
NO.	DATE	REVISION OR CHANGE ORDER DESCRIPTION
		BY
CROSS SECTIONS		
SOULT ST. ROAD IMPROVEMENTS		



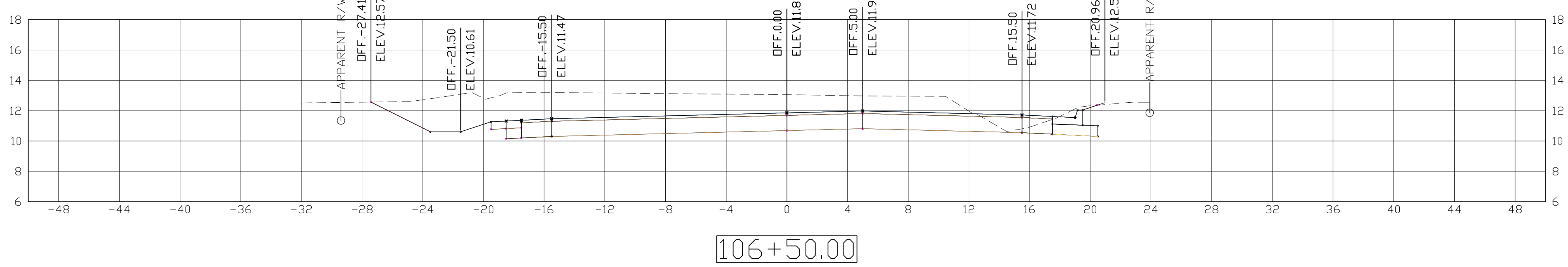
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105+50.00



106+00.00



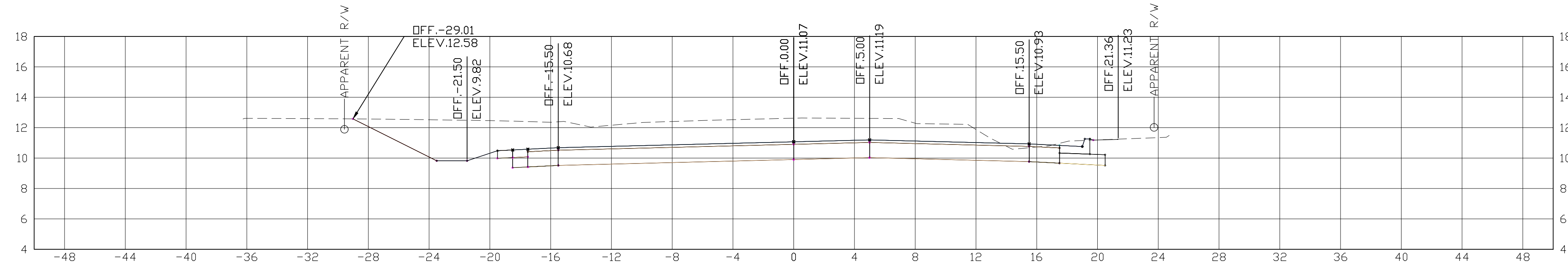
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STATE OF LOUISIANA
 RANDAL J. BONURA
 License No 39861
 PROFESSIONAL ENGINEER
 IN
 CIVIL ENGINEERING
Randal Bonura
 1/8/2021

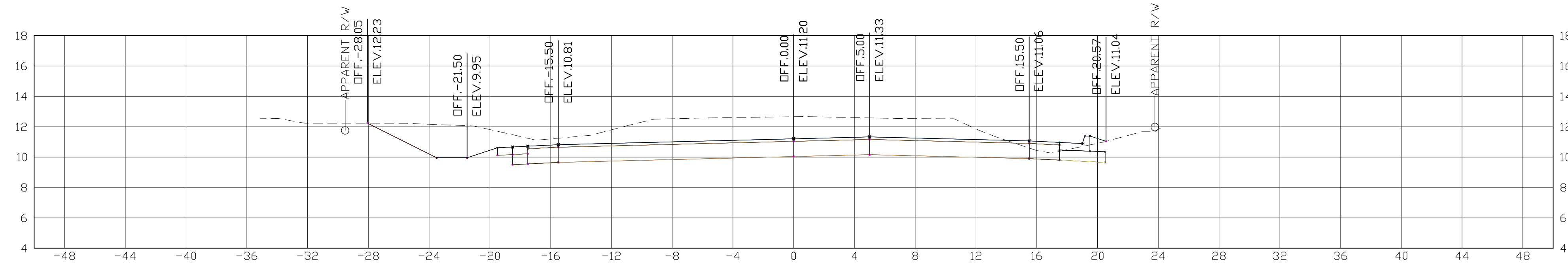


CROSS SECTIONS
SOULT ST. ROAD IMPROVEMENTS

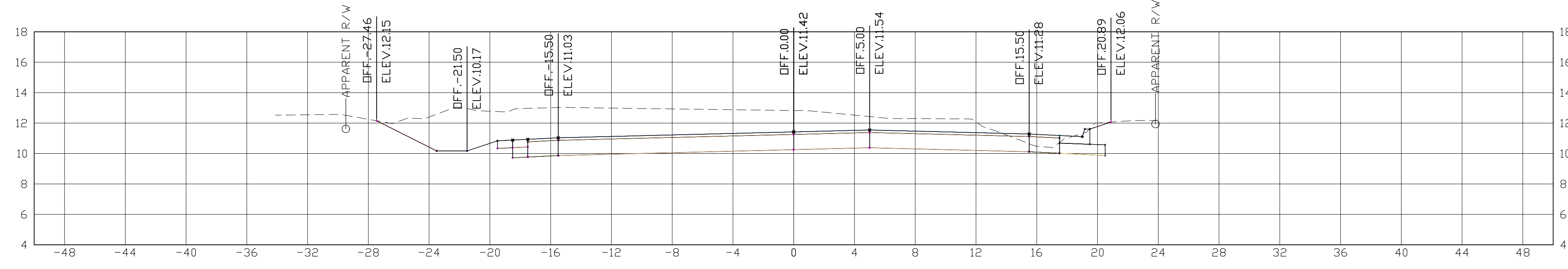




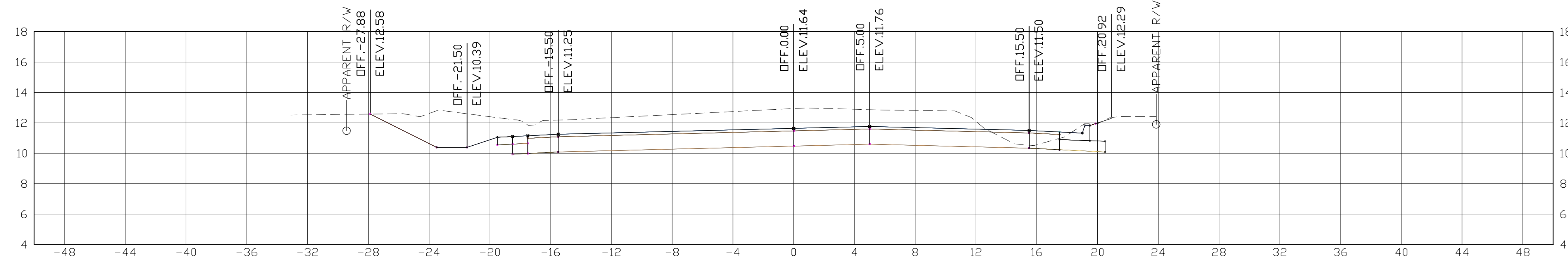
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108+00.00



107+50.00



107+00.00

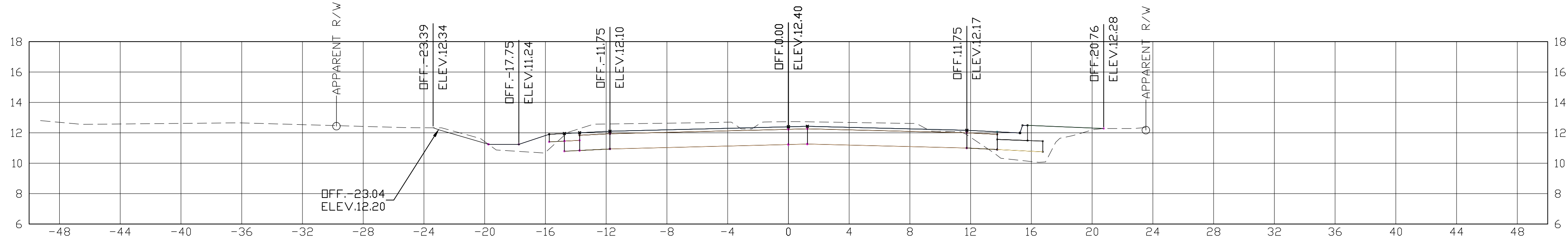
STATE OF LOUISIANA
 RANDAL J. BONURA
 License No. 37983
 PROFESSIONAL ENGINEER
 IN
 CIVIL ENGINEERING
Randal J. Bonura
 1/8/2021

SHEET NUMBER	404
PARISH	ST. TAMMANY
CONTROL SECTION	000-52
PROJECT	EN18000011
DESIGNED	RB
CHECKED	RH
DETAILED	RB
CHECKED	RH
SERIES NUMBER	4 OF 11
REVISION OR CHANGE ORDER DESCRIPTION	BY
NO.	DATE
CROSS SECTIONS	
SOULT ST. ROAD IMPROVEMENTS	

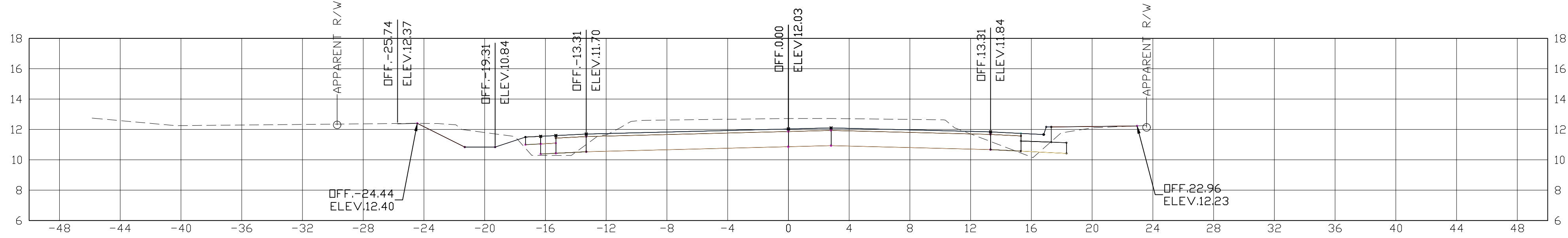


100% FINAL PLANS

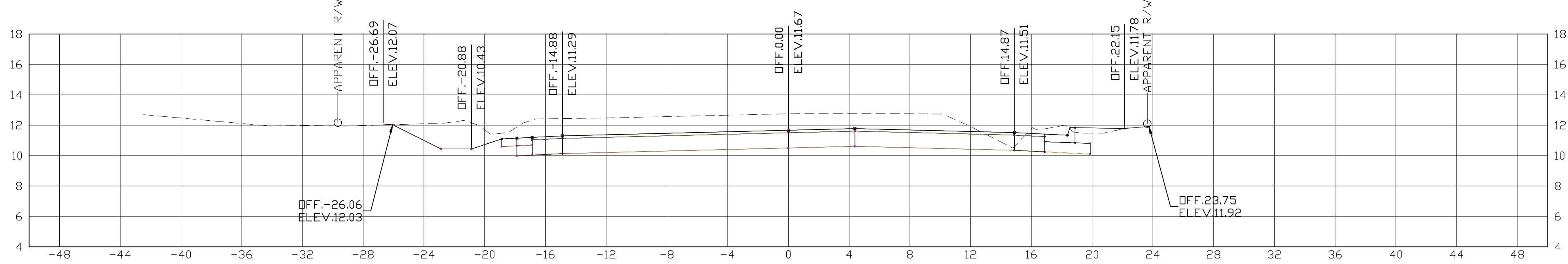
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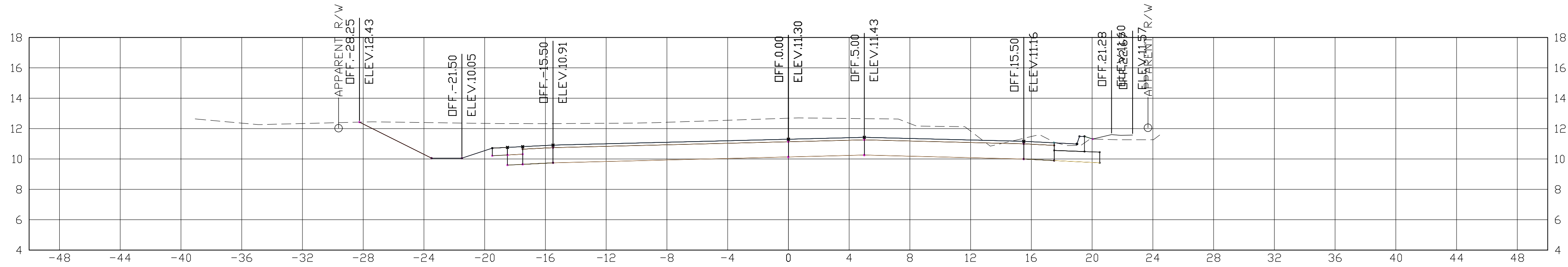
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110+00.00



109+50.00



109+00.00

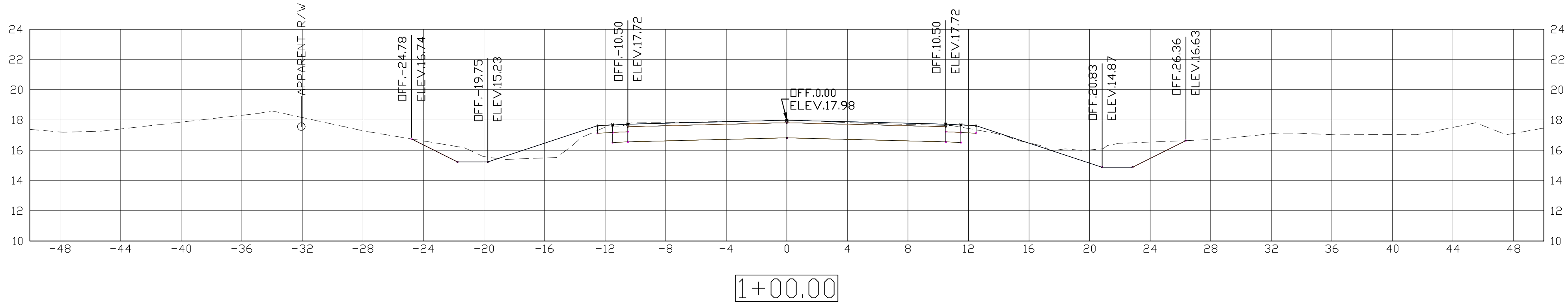
STATE OF LOUISIANA
 RANDAL J. BONURA
 License No 39861
 PROFESSIONAL ENGINEER
 IN
 CIVIL ENGINEERING
Randal J. Bonura
 1/8/2021

SHEET NUMBER	405
PARISH	ST. TAMMANY
CONTROL SECTION	000-52
PROJECT	EN18000011
DESIGNED	RB
CHECKED	RH
DETAILED	RB
CHECKED	RH
SERIES NUMBER	5 OF 11
REVISION OR CHANGE ORDER DESCRIPTION	BY
NO.	DATE
CROSS SECTIONS SOULT ST. ROAD IMPROVEMENTS	

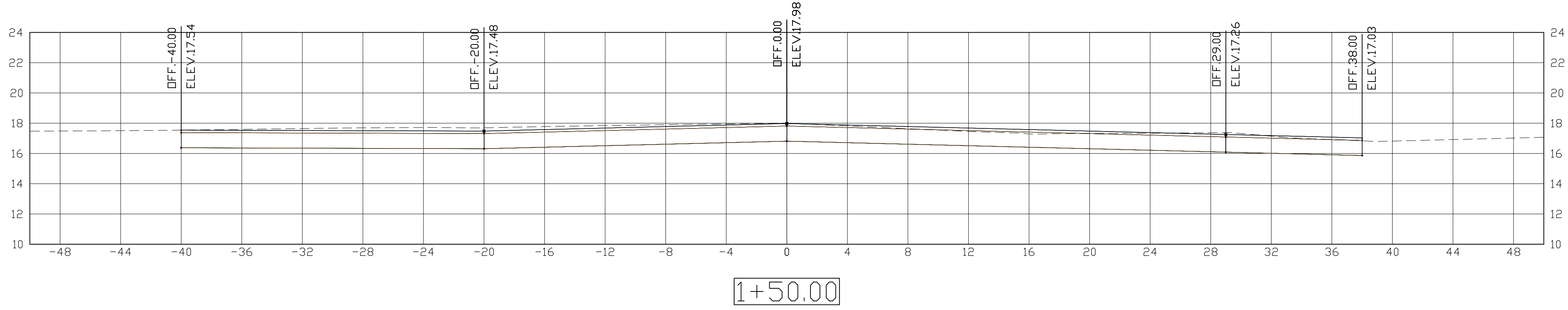
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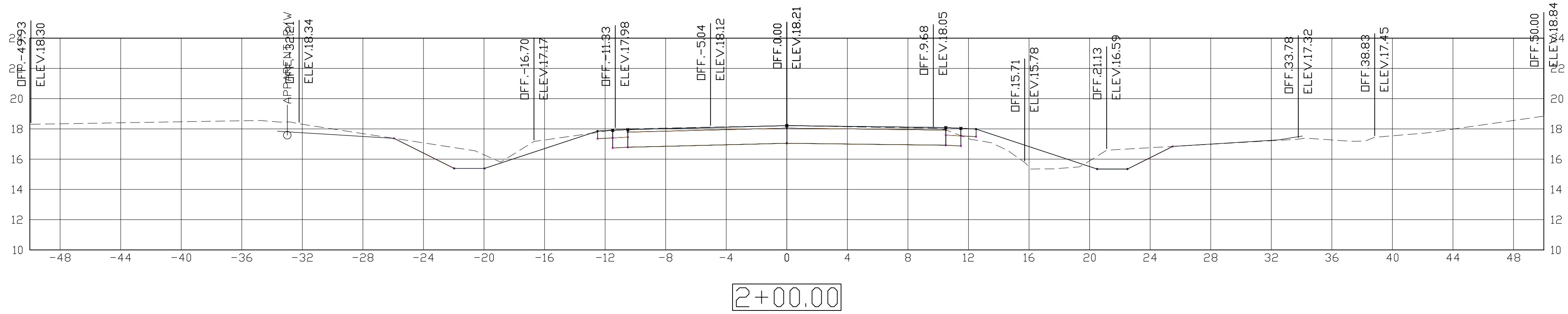
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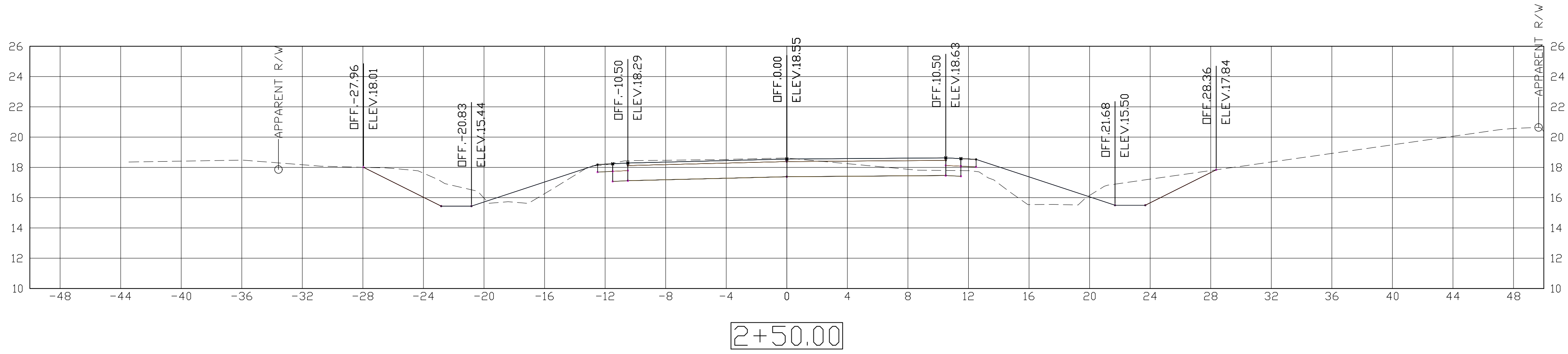
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1+50.00



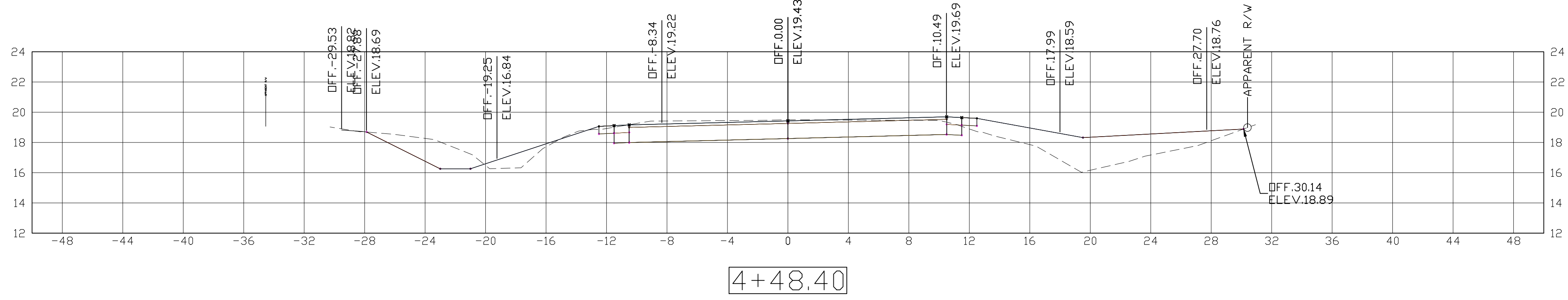
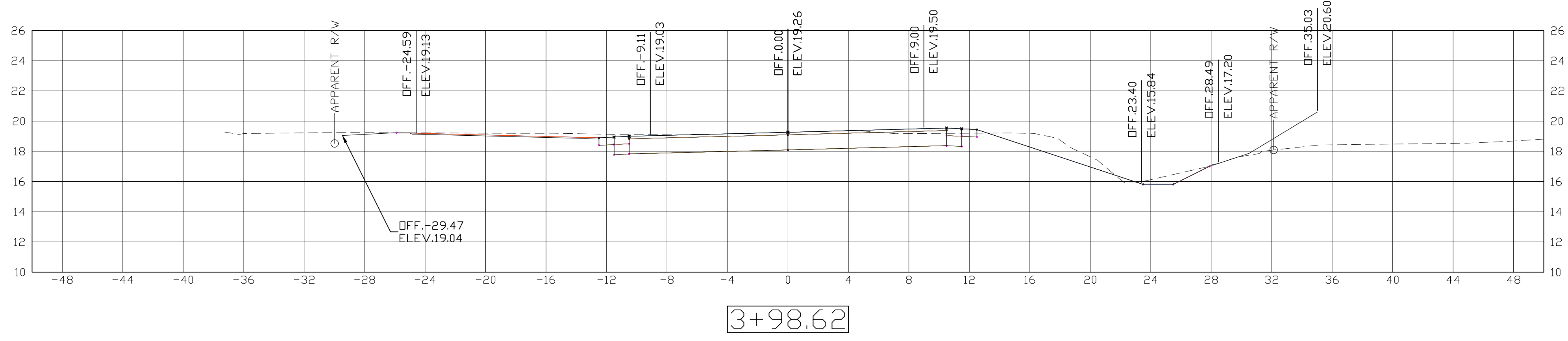
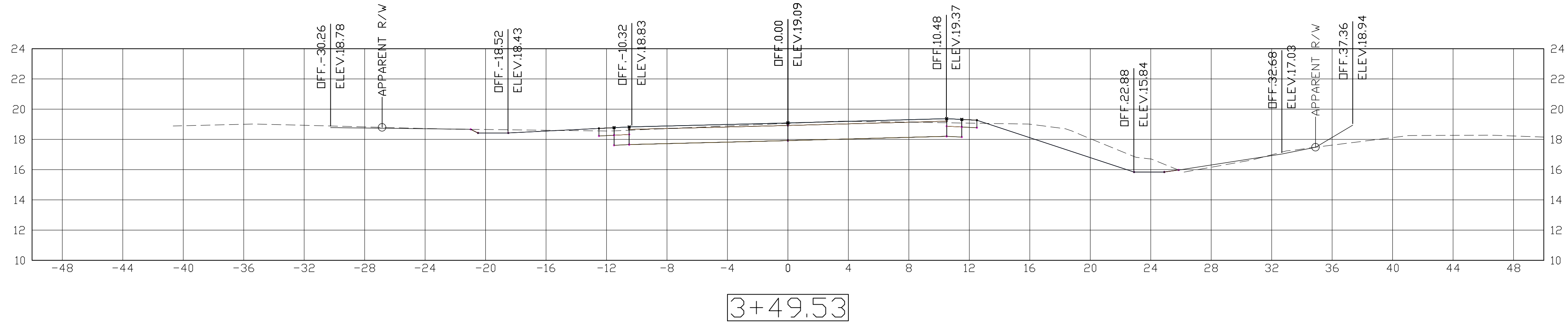
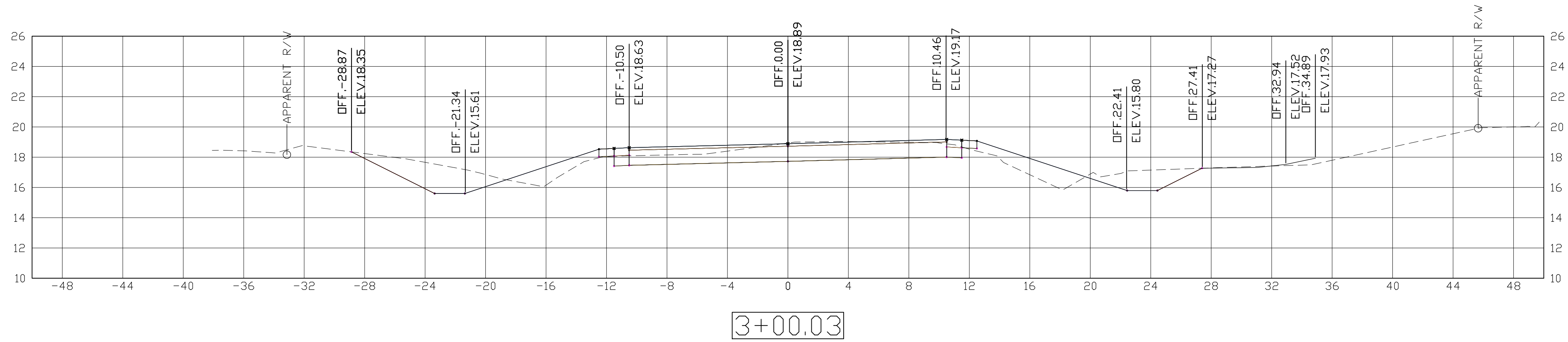
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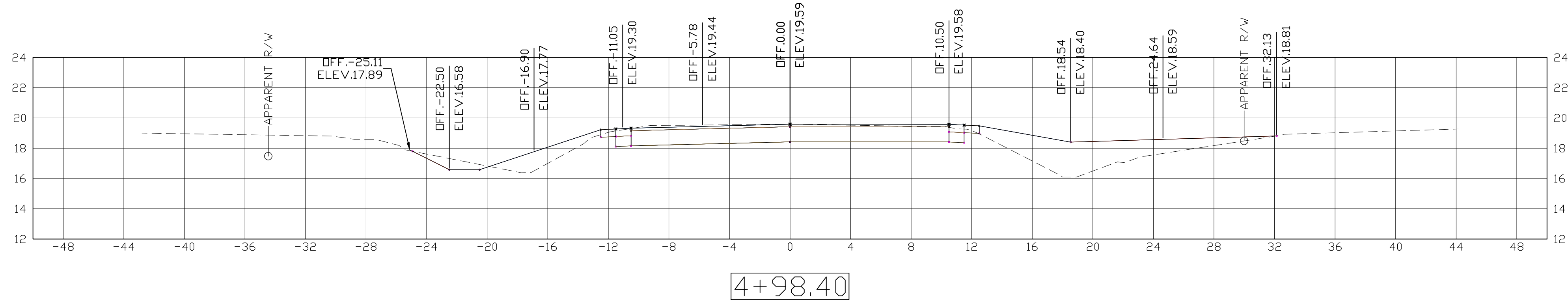
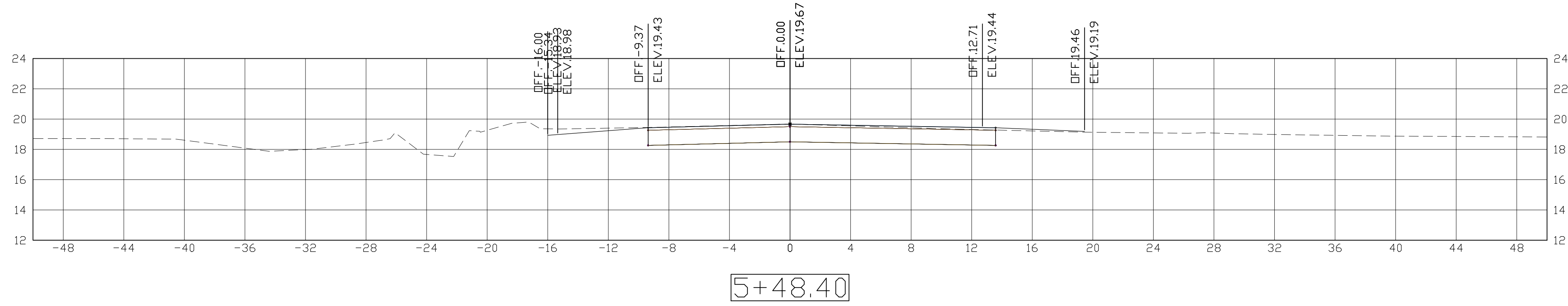
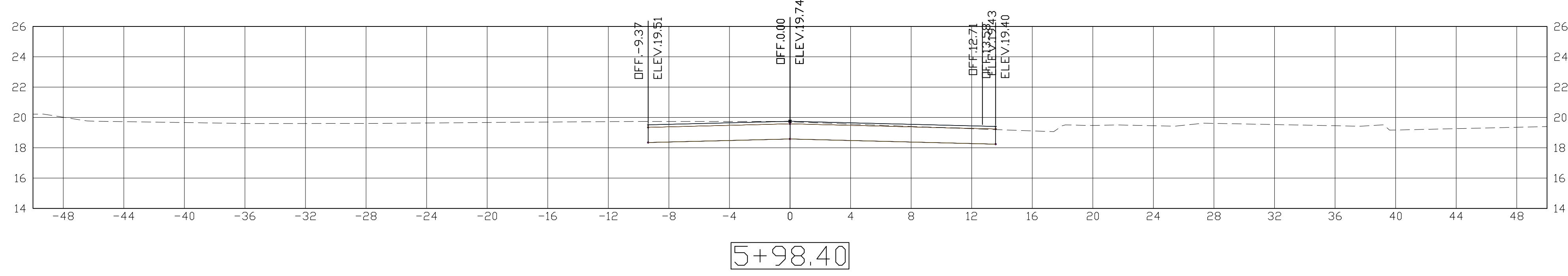
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STATE OF LOUISIANA
RANDAL J. BONURA
License No. 39861
PROFESSIONAL ENGINEER
IN
CIVIL ENGINEERING
Randal J. Bonura
1/8/2021

SHEET NUMBER		406	
PARISH		ST. TAMMANY	
CONTROL SECTION		000-52	
PROJECT		EN18000011	
DESIGNED	RB	6	OF 11
CHECKED	RH		
DETAILED	RB		
CHECKED	RH		
SERIES NUMBER			
REVISION OR CHANGE ORDER DESCRIPTION			
	NO.	DATE	BY
CROSS SECTIONS			
SOULT ST. ROAD IMPROVEMENTS			
STATE OF LOUISIANA		LICENSED PROFESSIONAL ENGINEER	
PARISH OF ST. TAMMANY		CIVIL ENGINEERING	

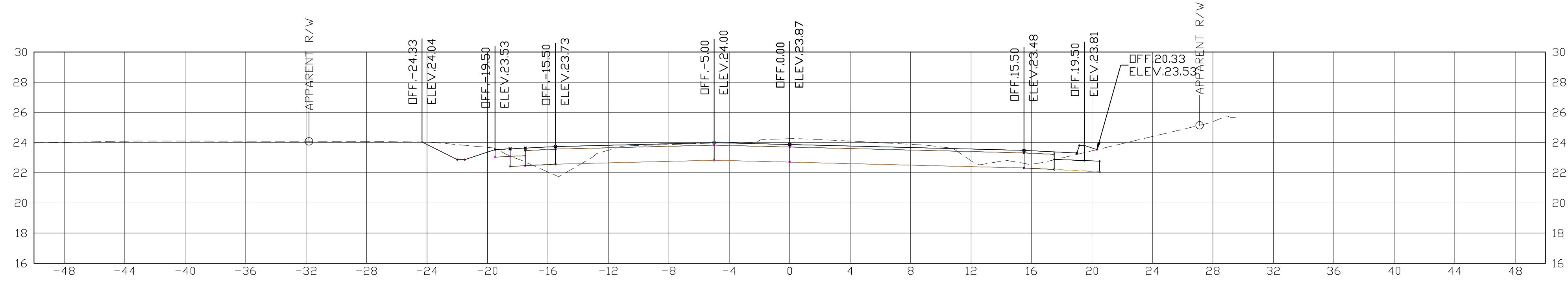


SHEET NUMBER		407
PARISH		ST. TAMMANY
DESIGNED	RB	
CHECKED	RH	
DETAILED	RB	
CHECKED	RH	
CONTROL SECTION		000-52
PROJECT		EN18000011
REVISION OR CHANGE ORDER DESCRIPTION		
L.N.O.		
DATE		
BY		
SERIES NUMBER		7 OF 11
CROSS SECTIONS		
SOULT ST. ROAD IMPROVEMENTS		

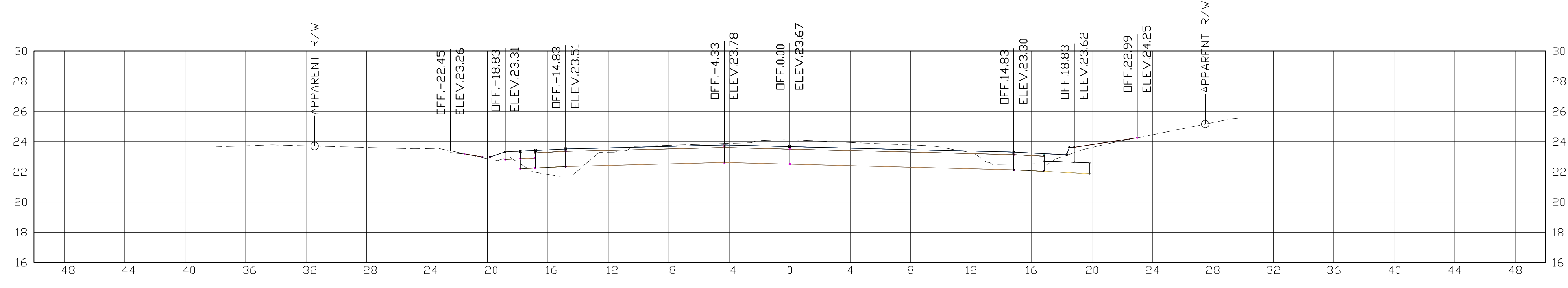


RANDAL J. BONURA
 License No. 39861
 PROFESSIONAL ENGINEER
 IN
 CIVIL ENGINEERING
Randal J. Bonura
 1/8/2021

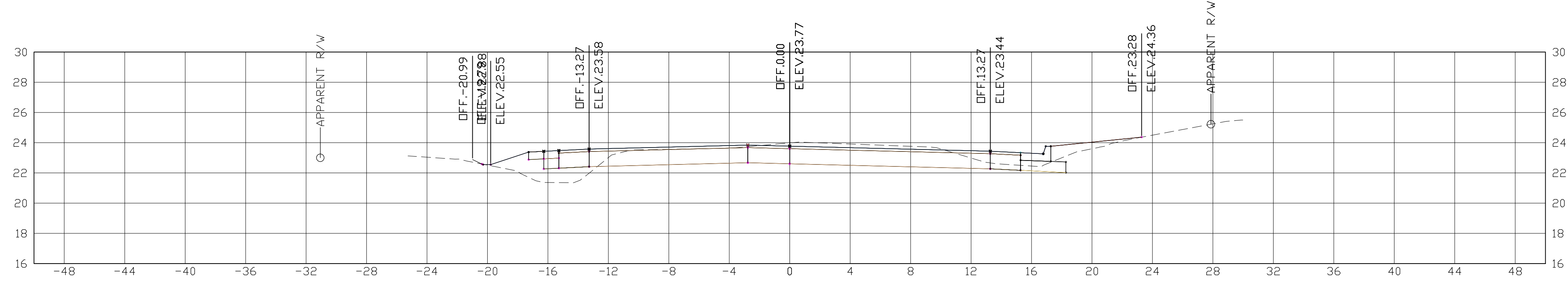
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CONTROL SECTION	000-52	
PROJECT	EN18000011	
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CHECKED	RH	
DETAILED	RB	
CHECKED	RH	
SERIES NUMBER	8 OF 11	
NO.	DATE	BY
	REVISION OR CHANGE ORDER DESCRIPTION	
CROSS SECTIONS		
SOULT ST. ROAD IMPROVEMENTS		
 RANDAL J. BONURA License No. 39861 PROFESSIONAL ENGINEER IN CIVIL ENGINEERING <i>Randal J. Bonura</i> 1/8/2021		



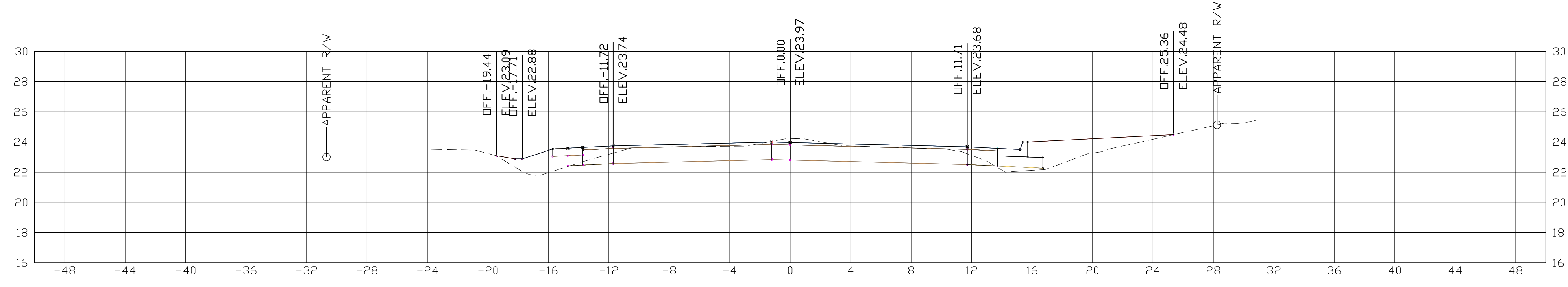
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204+50.00



204+00.00

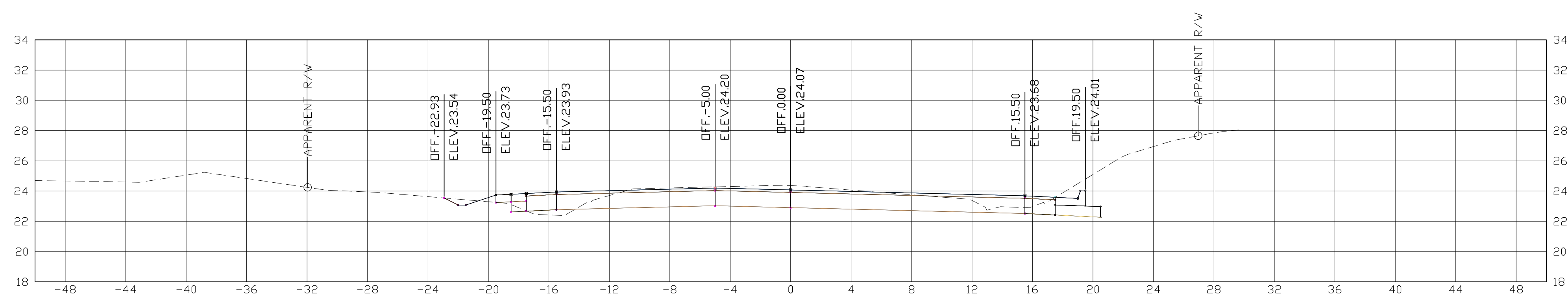
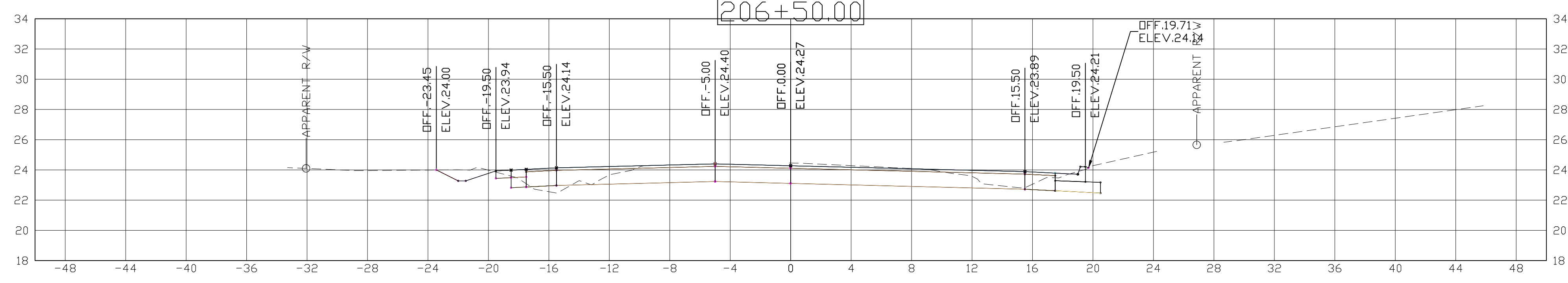
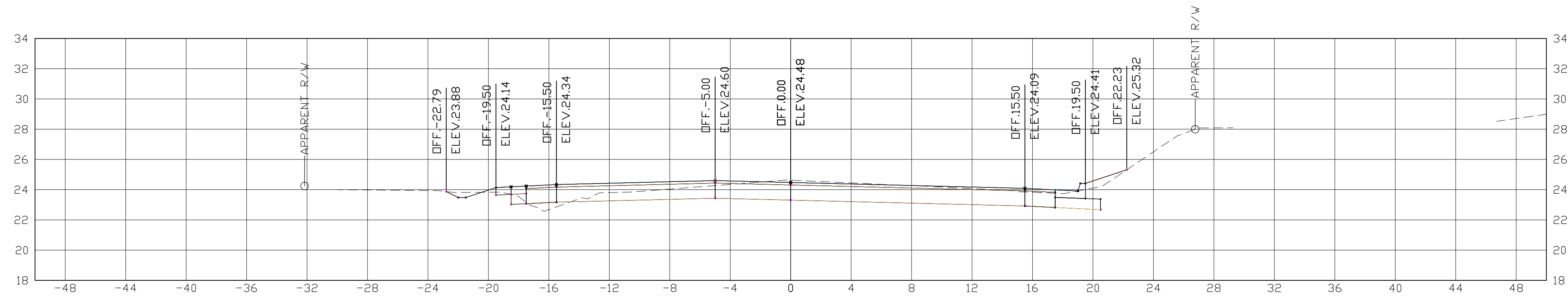
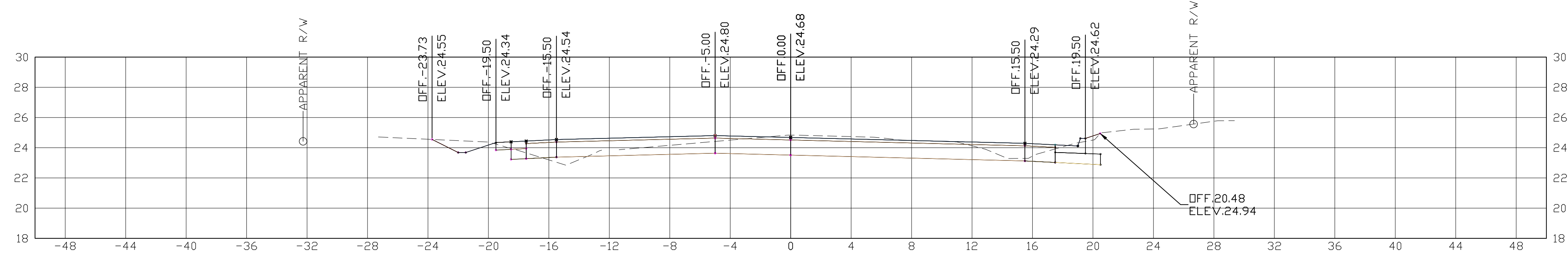


203+50.00

STATE OF LOUISIANA
 RANDAL J. BONURA
 License No. 31881
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 IN
 CIVIL ENGINEERING
Randal J. Bonura
 1/8/2021

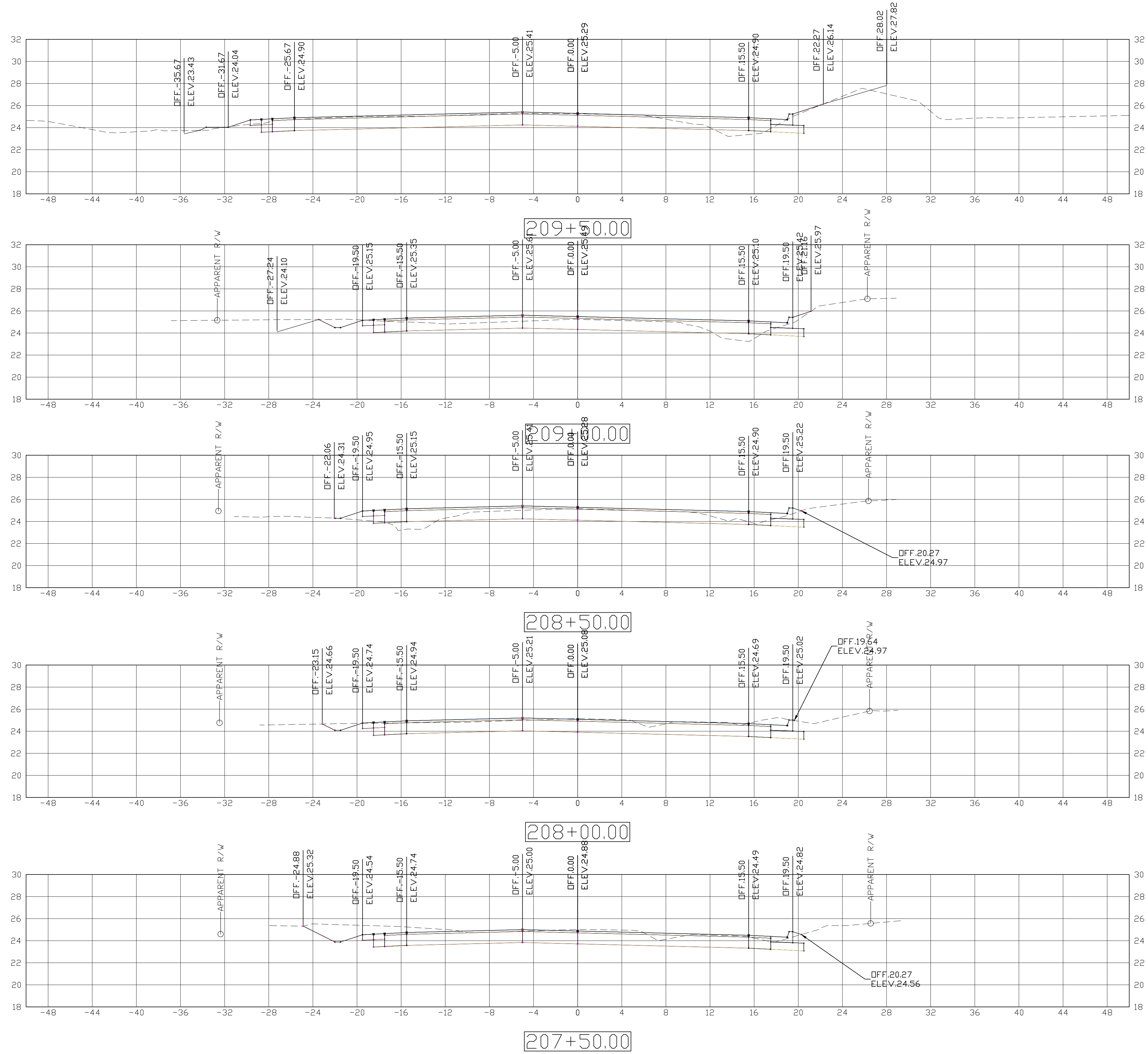
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PARISH	ST. TAMMANY
CONTROL SECTION	000-52
PROJECT	EN18000011
DESIGNED	RB
CHECKED	RH
DETAILED	RB
CHECKED	RH
SERIES NUMBER	9 OF 11
REVISION OR CHANGE ORDER DESCRIPTION	BY
NO.	DATE
CROSS SECTIONS	
SOULT ST. ROAD IMPROVEMENTS	





STATE OF LOUISIANA
 RANGAL J. BONURA
 License No. 99861
 PROFESSIONAL ENGINEER
 IN
 CIVIL ENGINEERING
Rangal J. Bonura
 1/8/2021

SHEET NUMBER		410
PARISH	ST. TAMMANY	
CONTROL SECTION	000-52	
PROJECT	EN18000011	
DESIGNED	RB	
CHECKED	RH	
DETAILED	RB	
CHECKED	RH	
SERIES NUMBER	10 OF 11	
REVISION OR CHANGE ORDER DESCRIPTION		BY
L.N.O.	DATE	
CROSS SECTIONS		
SOULT ST. ROAD IMPROVEMENTS		



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SHEET NUMBER		411	
PARISH		ST. TAMMANY	
CONTROL SECTION		000-52	
PROJECT		EN18000011	
DESIGNED	RB	11	OF 11
CHECKED	RH		
DETAILED	RB		
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SERIES NUMBER			
REVISION OR CHANGE ORDER DESCRIPTION			
NO.	DATE		BY
CROSS SECTIONS		SOULT ST. ROAD IMPROVEMENTS	