



CALL NO. 102

CONTRACT ID. 244501

DAVIESS COUNTY

FED/STATE PROJECT NUMBER HSIP 0601(215)

DESCRIPTION US HIGHWAY 60 (US 60)

WORK TYPE ASPHALT SURFACE WITH GRADE & DRAIN

PRIMARY COMPLETION DATE 11/15/2025

LETTING DATE: December 12,2024

Sealed Bids will be received electronically through the Bid Express bidding service until 10:00 AM EASTERN STANDARD TIME December 12,2024. Bids will be publicly announced at 10:00 AM EASTERN STANDARD TIME.

NO PLANS ASSOCIATED WITH THIS PROJECT.

DBE CERTIFICATION REQUIRED - 7%

REQUIRED BID PROPOSAL GUARANTY: Not less than 5% of the total bid.

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PART I
SCOPE OF WORK

ADMINISTRATIVE DISTRICT - 02

CONTRACT ID - 244501
HSIP 0601(215)
COUNTY - DAVIESS
PCN - 0203000602401
HSIP 0601(215)

US HIGHWAY 60 (US 60) (MP 23.26) FROM 0.339 MILES SOUTH OF KY 1767 TO 0.242 MILES NORTH OF
WRIGHTS LANDING ROAD (MP 24.46), A DISTANCE OF 01.20 MILES.ASPHALT SURFACE WITH GRADE & DRAIN
SYP NO. 02-00936.
GEOGRAPHIC COORDINATES LATITUDE 37:49:25.15 LONGITUDE 87:02:20.00
ADT 14,521

COMPLETION DATE(S):
COMPLETED BY 11/15/2025 APPLIES TO ENTIRE PROJECT
COMPLETED BY 09/30/2025 MILESTONE DATE (SEE SN FOR COMPLETION DATE)

CONTRACT NOTES

PROPOSAL ADDENDA

All addenda to this proposal must be applied when calculating bid and certified in the bid packet submitted to the Kentucky Department of Highways. Failure to use the correct and most recent addenda may result in the bid being rejected.

BID SUBMITTAL

Bidder must use the Department's electronic bidding software. The Bidder must download the bid file located on the Bid Express website (www.bidx.com) to prepare a bid packet for submission to the Department. The bidder must submit electronically using Bid Express.

JOINT VENTURE BIDDING

Joint venture bidding is permissible. All companies in the joint venture must be prequalified in one of the work types in the Qualifications for Bidders for the project. The bidders must get a vendor ID for the joint venture from the Division of Construction Procurement and register the joint venture as a bidder on the project. Also, the joint venture must obtain a digital ID from Bid Express to submit a bid. A joint bid bond of 5% may be submitted for both companies or each company may submit a separate bond of 5%.

UNDERGROUND FACILITY DAMAGE PROTECTION

The contractor shall make every effort to protect underground facilities from damage as prescribed in the Underground Facility Damage Protection Act of 1994, Kentucky Revised Statute KRS 367.4901 to 367.4917. It is the contractor's responsibility to determine and take steps necessary to be in compliance with federal and state damage prevention directives. When prescribed in said directives, the contractor shall submit Excavation Locate Requests to the Kentucky Contact Center (KY811) via web ticket entry. The submission of this request does not relieve the contractor from the responsibility of contacting non-member facility owners, whom shall be contacted through their individual Protection Notification Center. Non-compliance with these directives can result in the enforcement of penalties.

REGISTRATION WITH THE SECRETARY OF STATE BY A FOREIGN ENTITY

Pursuant to KRS 176.085(1)(b), an agency, department, office, or political subdivision of the Commonwealth of Kentucky shall not award a state contract to a person that is a foreign entity required by [KRS 14A.9-010](#) to obtain a certificate of authority to transact business in the Commonwealth ("certificate") from the Secretary of State under [KRS 14A.9-030](#) unless the person produces the certificate within fourteen (14) days of the bid or proposal opening. If the foreign entity is not required to obtain a certificate as provided in [KRS 14A.9-010](#), the foreign entity should identify the applicable exception. Foreign entity is defined within [KRS 14A.1-070](#).

For all foreign entities required to obtain a certificate of authority to transact business in the Commonwealth, if a copy of the certificate is not received by the contracting agency within the time frame identified above, the foreign entity's solicitation response shall be deemed non-responsive or the awarded contract shall be cancelled.

Businesses can register with the Secretary of State at <https://secure.kentucky.gov/sos/ftbr/welcome.aspx>.

SPECIAL NOTE FOR PROJECT QUESTIONS DURING ADVERTISEMENT

Questions about projects during the advertisement should be submitted in writing to the Division of Construction Procurement. This may be done by email to kytc.projectquestions@ky.gov. The Department will attempt to answer all submitted questions. The Department reserves the right not to answer if the question is not pertinent or does not aid in clarifying the project intent.

The deadline for posting answers will be 3:00 pm Eastern Daylight Time, the day preceding the Letting. Questions may be submitted until this deadline with the understanding that the later a question is submitted, the less likely an answer will be able to be provided.

The questions and answers will be posted for each Letting under the heading "Questions & Answers" on the Construction Procurement website (www.transportation.ky.gov/construction-procurement). The answers provided shall be considered part of this Special Note and, in case of a discrepancy, will govern over all other bidding documents.

HARDWOOD REMOVAL RESTRICTIONS

The US Department of Agriculture has imposed a quarantine in Kentucky and several surrounding states, to prevent the spread of an invasive insect, the emerald ash borer. Hardwood cut in conjunction with the project may not be removed from the state. Chipping or burning on site is the preferred method of disposal.

INSTRUCTIONS FOR EXCESS MATERIAL SITES AND BORROW SITES

Identification of excess material sites and borrow sites shall be the responsibility of the Contractor. The Contractor shall be responsible for compliance with all applicable state and federal laws and may wish to consult with the US Fish and Wildlife Service to seek protection under Section 10 of the Endangered Species Act for these activities.

ACCESS TO RECORDS

The state agency certifies that it is in compliance with the provisions of KRS 45A.150, "Access to contractor's books, documents, papers, records, or other evidence directly pertinent to the contract." The Contractor, as defined in KRS 45A.030, agrees that the contracting agency, the Finance and Administration Cabinet, the Auditor of Public Accounts, and the Legislative Research Commission, or their duly authorized representatives, shall have access to any books, documents, papers, records, or other evidence, which are directly pertinent to this agreement for

the purpose of financial audit or program review. The Contractor also recognizes that any books, documents, papers, records, or other evidence, received during a financial audit or program review shall be subject to the Kentucky Open Records Act, KRS 61.870 to 61.884. Records and other prequalification information confidentially disclosed as part of the bid process shall not be deemed as directly pertinent to the agreement and shall be exempt from disclosure as provided in KRS 61.878(1)(c).

BOYCOTT PROVISIONS

If applicable, the contractor represents that, pursuant to [KRS 45A.607](#), they are not currently engaged in, and will not for the duration of the contract engage in, the boycott of a person or an entity based in or doing business with a jurisdiction with which Kentucky can enjoy open trade. **Note:** The term Boycott does not include actions taken for bona fide business or economic reasons, or actions specifically required by federal or state law.

If applicable, the contractor verifies that, pursuant to KRS 41.480, they do not engage in, and will not for the duration of the contract engage in, in energy company boycotts as defined by KRS 41.472.

LOBBYING PROHIBITIONS

The contractor represents that they, and any subcontractor performing work under the contract, have not violated the agency restrictions contained in [KRS 11A.236](#) during the previous ten (10) years, and pledges to abide by the restrictions set forth in such statute for the duration of the contract awarded.

The contractor further represents that, pursuant to [KRS 45A.328](#), they have not procured an original, subsequent, or similar contract while employing an executive agency lobbyist who was convicted of a crime related to the original, subsequent, or similar contract within five (5) years of the conviction of the lobbyist.

Revised: 9/1/2024

1.0 BUY AMERICA REQUIREMENT.

Follow the “Buy America” provisions as required by 23 U.S.C. § 313 and 23 C.F.R. § 635.410. Except as expressly provided herein all manufacturing processes of steel or iron materials including but not limited to structural steel, guardrail materials, corrugated steel, culvert pipe, structural plate, prestressing strands, and steel reinforcing bars shall occur in the United States of America, including the application of:

- Coating,
- Galvanizing,
- Painting, and
- Other coating that protects or enhances the value of steel or iron products.

The following are exempt, unless processed or refined to include substantial amounts of steel or iron material, and may be used regardless of source in the domestic manufacturing process for steel or iron material:

- Pig iron,
- Processed, pelletized, and reduced iron ore material, or
- Processed alloys.

The Contractor shall submit a certification stating that all manufacturing processes involved with the production of steel or iron materials occurred in the United States.

Produce, mill, fabricate, and manufacture in the United States of America all aluminum components of bridges, tunnels, and large sign support systems, for which either shop fabrication, shop inspection, or certified mill test reports are required as the basis of acceptance by the Department.

Use foreign materials only under the following conditions:

- 1) When the materials are not permanently incorporated into the project; or
- 2) When the delivered cost of such materials used does not exceed 0.1 percent of the total Contract amount or \$2,500.00, whichever is greater.

The Contractor shall submit to the Engineer the origin and value of any foreign material used.

2.0 – BUILD AMERICA, BUY AMERICA (BABA)

Contractor shall comply with the Federal Highway Administration (FHWA) Buy America Requirement in 23 C.F.R. § 635.410 and all relevant provisions of the Build America, Buy America Act (BABA), contained within the Infrastructure Investment and Jobs Act, Pub. L. No. 117-58, §§ 70901-52 enacted November 15, 2021. The BABA requires iron, steel, manufactured products, and construction materials used in infrastructure projects funded by federal financial assistance to be produced in the United States. Comply with 2 C.F.R § 184.

BABA permits FHWA participation in the Contract only if domestic steel and iron will be used on the Project. To be considered domestic, all steel and iron used, and all products manufactured from steel and iron must be produced in the United States and all manufacturing processes, including application of a coating, for these materials must occur in the United States. Coating includes all processes that protect or enhance the value of the material to which the coating is applied. This requirement does not preclude a minimal use of foreign steel and iron materials, provided the cost of such materials does not exceed 0.1% of the total contract amount under the Contract or \$2,500.00 whichever is greater.

BABA permits FHWA participation in the Contract only if all “construction materials” as defined in the Act are made in the United States. The Buy America preference applies to the following construction materials

SPECIAL NOTE – BUY AMERICA REQUIREMENTS AND BUILD
AMERICA, BUY AMERICA (BABA) ACT

10/26/2023

incorporated into infrastructure projects: non-ferrous metals; plastic and polymer-based products (including polyvinylchloride, composite building materials, and polymers used in fiber optic cables); glass (including optic glass); Fiber optic cable; optical fiber; lumber; engineered wood; and drywall. Contractor will be required to use construction materials produced in the United States on this Project. The Contractor shall submit a certification stating that all construction materials are certified to be BABA compliant.

Finally, BABA permits the continuation of FHWA's current general applicability waivers for manufactured products, raw materials, and ferryboat parts, but these waivers are subject to reevaluation, specifically the general applicability waiver for manufactured products.

The Contractor has completed and submitted, or shall complete and submit, to the Cabinet a Buy America/Build America, Buy America Certificate prior to the Cabinet issuing the notice to proceed, in the format below. After submittal, the Contractor is bound by its original certification.

A false certification is a criminal act in violation of 18 U.S.C. § 1001. The Contractor has the burden of proof to establish that it is in compliance.

At the Contractor's request, the Cabinet may, but is not obligated to, seek a waiver of Buy America requirements if grounds for the waiver exist under 23 C.F.R. § 635.410(c) or will comply with the applicable Buy America requirements if a waiver of those requirements is not available or not pursued by the Cabinet.

Please refer to the Federal Highway Administration's Buy America webpage for more information.

[Buy America - Construction Program Guide - Contract Administration - Construction - Federal Highway Administration \(dot.gov\)](#)

October 26, 2023 Letting

BUY AMERICA / BUILD AMERICA, BUY AMERICA (ACT) MATERIALS CERTIFICATE OF COMPLIANCE

The Contractor hereby certifies that it will comply with all relevant provisions of the Build America, Buy America Act, contained within the Infrastructure Investment and Jobs Act, Pub. L. NO. 117-58, §§ 70901-52, the requirements of 23 U.S.C. § 313, 23 C.F.R. § 635.410 and 2 C.F.R § 184.

Date Submitted:_____

Contractor:_____

Signature:_____

Printed Name:_____

Title:_____

NOTE: THIS CERTIFICATION IS IN ADDITION TO ANY AND ALL REQUIREMENTS OUTLINED IN THE CURRENT EDITION OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND/OR SPECIAL NOTES CONTAINED IN THE PROJECT PROPOSAL.

FEDERAL CONTRACT NOTES

The Kentucky Department of Highways, in accordance with the Regulations of the United States Department of Transportation 23 CFR 635.112 (h), hereby notifies all bidders that failure by a bidder to comply with all applicable sections of the current Kentucky Standard Specifications, including, but not limited to the following, may result in a bid not being considered responsive and thus not eligible to be considered for award:

- | | |
|--------------------------------|--|
| 102.02 Current Rating | 102.08 Preparation and Delivery of Proposals |
| 102.13 Irregular Bid Proposals | 102.14 Disqualification of Bidders |
| 102.09 Proposal Guaranty | |

CIVIL RIGHTS ACT OF 1964

The Kentucky Transportation Cabinet, Department of Highways, in accordance with the provisions of Title VI of the Civil Rights Act of 1964 (78 Stat. 252, 42 U.S.C. §§ 2000d to 2000d-4) and the Regulations, hereby notifies all bidders that it will affirmatively ensure that any contract entered into pursuant to this advertisement, disadvantaged business enterprises will be afforded full and fair opportunity to submit bids in response to this invitation and will not be discriminated against on the grounds of race, color, national origin, sex, age (over 40), religion, sexual orientation, gender identity, veteran status, disability, income- level, or Limited English Proficiency (LEP) in consideration for an award.

NOTICE TO ALL BIDDERS

To report bid rigging activities call: 1-800-424-9071.

The U.S. Department of Transportation (DOT) operates the above toll-free “hotline” Monday through Friday, 8:00 a.m. to 5:00 p.m. eastern time. Anyone with knowledge of possible bid rigging, bidder collusion, or other fraudulent activities should use the “hotline” to report such activities.

The “hotline” is part of the DOT’s continuing effort to identify and investigate highway construction contract fraud and abuse and is operated under the direction of the DOT Inspector General. All information will be treated confidentially and caller anonymity will be respected.

SECOND TIER SUBCONTRACTS

Second tier subcontracts are acceptable per Section 108.01 of the Standard Specifications for Road and Bridge Construction. Sub-Contractors fulfilling a disadvantaged business enterprise goal on a project may enter into a 2nd tier subcontract with a Non-DBE Subcontractor. However, in this instance, none of the work subcontracted to the Non-DBE Contractor will count toward fulfilling the established Disadvantaged Goal for the project.

DISADVANTAGED BUSINESS ENTERPRISE PROGRAM

It is the policy of the Kentucky Transportation Cabinet (“the Cabinet”) that Disadvantaged Business Enterprises (“DBE”) shall have the opportunity to participate in the performance of highway construction projects financed in whole or in part by Federal Funds in order to create a level playing field for all businesses who wish to contract with the Cabinet. To that end, the Cabinet will comply with the regulations found in 49 CFR Part 26, and the definitions and requirements contained therein shall be adopted as if set out verbatim herein.

The Cabinet, contractors, subcontractors, and sub-recipients shall not discriminate on the basis of race, color, national origin, or sex in the performance of work performed pursuant to Cabinet contracts. The contractor shall carry out applicable requirements of 49 CFR 26 in the award and administration of federally assisted highway construction projects. The contractor will include this provision in all its subcontracts and supply agreements pertaining to contracts with the Cabinet.

Failure by the contractor to carry out these requirements is a material breach of its contract with the Cabinet, which may result in the termination of the contract or such other remedy as the Cabinet deems necessary.

DBE GOAL

The Disadvantaged Business Enterprise (DBE) goal established for this contract, as listed on the front page of the proposal, is the percentage of the total value of the contract.

The contractor shall exercise all necessary and reasonable steps to ensure that Disadvantaged Business Enterprises participate in a least the percent of the contract as set forth above as goals for this contract.

OBLIGATION OF CONTRACTORS

Each contractor prequalified to perform work on Cabinet projects shall designate and make known to the Cabinet a liaison officer who is assigned the responsibility of effectively administering and promoting an active program for utilization of DBEs.

If a formal goal has not been designated for the contract, all contractors are encouraged to consider DBEs for subcontract work as well as for the supply of material and services needed to perform this work.

Contractors are encouraged to use the services of banks owned and controlled by minorities and women.

CERTIFICATION OF CONTRACT GOAL

Contractors shall include the following certification in bids for projects for which a DBE goal has been established. BIDS SUBMITTED WHICH DO NOT INCLUDE CERTIFICATION OF DBE PARTICIPATION WILL NOT BE ACCEPTED. These bids will not be considered for award by the Cabinet and they will be returned to the bidder.

“The bidder certifies that it has secured participation by Disadvantaged Business Enterprises (“DBE”) in the amount of _____ percent of the total value of this contract and that the DBE participation is in compliance with the requirements of 49 CFR 26 and the policies of the Kentucky Transportation Cabinet pertaining to the DBE Program.”

The certification statement is located in the electronic bid file. All contractors must certify their DBE participation on that page. DBEs utilized in achieving the DBE goal must be certified and prequalified for the work items at the time the bid is submitted.

DBE PARTICIPATION PLAN

Lowest responsive bidders must submit the *DBE Plan/ Subcontractor Request*, form TC 14-35 DBE, within **5** days of the letting. This is necessary before the Awards Committee will review and make a recommendation. **The project will not be considered for award prior to submission and approval of the apparent low bidder’s DBE Plan/Subcontractor Request.**

The DBE Participation Plan shall include the following:

1. Name and address of DBE Subcontractor(s) and/or supplier(s) intended to be used in the proposed project;
2. Description of the work each is to perform including the work item, unit, quantity, unit price and total amount of the work to be performed by the individual DBE. The Proposal Line Number, Category Number, and the Project Line Number can be found in the “material listing” on the Construction Procurement website under the specific letting;
3. The dollar value of each proposed DBE subcontract and the percentage of total project contract value this represents. DBE participation may be counted as follows:
 - a) If DBE suppliers and manufactures assume actual and contractual responsibility, the dollar value of materials to be furnished will be counted toward the goal as follows:
 - The entire expenditure paid to a DBE manufacturer;
 - 60 percent of expenditures to DBE suppliers that are not manufacturers provided the supplier is a regular dealer in the product involved. A regular dealer must be engaged in, as its principal business and in its own name, the sale of products to the public, maintain an inventory and own and operate distribution equipment; and
 - The amount of fees or commissions charged by the DBE firms for a bona fide service, such as professional, technical, consultant, or managerial services and assistance in the procurement of essential personnel, facilities, equipment, materials, supplies, delivery of materials and supplies or for furnishing bonds, or insurance, providing such fees or commissions are determined to be reasonable and customary.
 - b) The dollar value of services provided by DBEs such as quality control testing, equipment repair and maintenance, engineering, staking, etc.;

- c) The dollar value of joint ventures. DBE credit for joint ventures will be limited to the dollar amount of the work actually performed by the DBE in the joint venture;
- 4. Written and signed documentation of the bidder's commitment to use a DBE contractor whose participation is being utilized to meet the DBE goal; and
- 5. Written and signed confirmation from the DBE that it is participating in the contract as provided in the prime contractor's commitment.

AFTER PROJECT AWARD AND BEFORE NOTICE TO PROCEED/WORK ORDER IS ISSUED (SEE SECTION 103.06, STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION)

Prime Contractors awarded a federally funded project with a DBE Goal greater than zero will be required to submit a fully executed DBE Subcontract, along with the attached FHWA 1273 and Certificate of Liability Insurance for each DBE Firm submitted as part of the previously approved DBE Utilization Plan (TC 14-35). A signed quote or purchase order shall be attached when the DBE subcontractor is a material supplier or broker.

The Certificate of Liability Insurance submitted must meet the requirements outlined in Section 107.18 of the Standard Specifications for Road and Bridge Construction.

Changes to **APPROVED** DBE Participation Plans must be approved by the Office for Civil Rights & Small Business Development. The Cabinet may consider extenuating circumstances including, but not limited to, changes in the nature or scope of the project, the inability or unwillingness of a DBE to perform the work in accordance with the bid, and/or other circumstances beyond the control of the prime contractor.

CONSIDERATION OF GOOD FAITH EFFORTS REQUESTS

If the DBE participation submitted in the bid by the apparent lowest responsive bidder does not meet or exceed the DBE contract goal, the apparent lowest responsive bidder must submit a Good Faith Effort Package to satisfy the Cabinet that sufficient good faith efforts were made to meet the contract goals prior to submission of the bid. Efforts to increase the goal after bid submission will not be considered in justifying the good faith effort, unless the contractor can show that the proposed DBE was solicited prior to the letting date. DBEs utilized in achieving the DBE goal must be certified and prequalified for the work items at the time the bid is submitted. One complete set (hard copy along with an electronic copy) of this information must be received in the Division of Contract Procurement no later than 12:00 noon of the tenth calendar day after receipt of notification that they are the apparent low bidder.

Where the information submitted includes repetitious solicitation letters it will be acceptable to submit a sample representative letter along with a distribution list of the firms solicited. Documentation of DBE quotations shall be a part of the good faith effort submittal as necessary to demonstrate compliance with the factors listed below which the Cabinet considers in judging good faith efforts. This documentation may include written subcontractors' quotations, telephone log notations of verbal quotations, or other types of quotation documentation.

The Good Faith Effort Package shall include, but may not be limited to information showing evidence of the following:

1. Whether the bidder attended any pre-bid meetings that were scheduled by the Cabinet to inform DBEs of subcontracting opportunities;
2. Whether the bidder provided solicitations through all reasonable and available means;
3. Whether the bidder provided written notice to all DBEs listed in the DBE directory at the time of the letting who are prequalified in the areas of work that the bidder will be subcontracting;
4. Whether the bidder followed up initial solicitations of interest by contacting DBEs to determine with certainty whether they were interested. If a reasonable amount of DBEs within the targeted districts do not provide an intent to quote or no DBEs are prequalified in the subcontracted areas, the bidder must notify the Disadvantaged Enterprise Business Liaison Officer (DEBLO) in the Office for Civil Rights and Small Business Development to give notification of the bidder's inability to get DBE quotes;
5. Whether the bidder selected portions of the work to be performed by DBEs in order to increase the likelihood of meeting the contract goals. This includes, where appropriate, breaking out contract work items into economically feasible units to facilitate DBE participation, even when the prime contractor might otherwise perform these work items with its own forces;
6. Whether the bidder provided interested DBEs with adequate and timely information about the plans, specifications, and requirements of the contract;
7. Whether the bidder negotiated in good faith with interested DBEs not rejecting them as unqualified without sound reasons based on a thorough investigation of their capabilities. Any rejection should be so noted in writing with a description as to why an agreement could not be reached;
8. Whether quotations were received from interested DBE firms but were rejected as unacceptable without sound reasons why the quotations were considered unacceptable. The fact that the DBE firm's quotation for the work is not the lowest quotation received will not in itself be considered as a sound reason for rejecting the quotation as unacceptable. The fact that the bidder has the ability and/or desire to perform the contract work with its own forces will not be considered a sound reason for rejecting a DBE quote. Nothing in this provision shall be construed to require the bidder to accept unreasonable quotes in order to satisfy DBE goals;
9. Whether the bidder specifically negotiated with subcontractors to assume part of the responsibility to meet the contract DBE goal when the work to be subcontracted includes potential DBE participation;
10. Whether the bidder made any efforts and/or offered assistance to interested DBEs in obtaining the necessary equipment, supplies, materials, insurance and/or bonding to satisfy the work requirements of the bid proposal; and
11. Any other evidence that the bidder submits which may show that the bidder has made reasonable good faith efforts to include DBE participation.

FAILURE TO MEET GOOD FAITH REQUIREMENT

Where the apparent lowest responsive bidder fails to submit sufficient participation by DBE firms to meet the contract goal and upon a determination by the Good Faith Committee based upon the information submitted that the apparent lowest responsive bidder failed to make sufficient reasonable efforts to meet the contract goal, the bidder will be offered the opportunity to meet in person for administrative reconsideration. The bidder will be notified of the Committee's decision within 24 hours of its decision. The bidder will have 24 hours to request reconsideration of the Committee's decision. The reconsideration meeting will be held within two days of the receipt of a request by the bidder for reconsideration.

The request for reconsideration will be heard by the Office of the Secretary. The bidder will have the opportunity to present written documentation or argument concerning the issue of whether it met the goal or made an adequate good faith effort. The bidder will receive a written decision on the reconsideration explaining the basis for the finding that the bidder did or did not meet the goal or made adequate Good Faith efforts to do so.

The result of the reconsideration process is not administratively appealable to the Cabinet or to the United States Department of Transportation.

The Cabinet reserves the right to award the contract to the next lowest responsive bidder or to rebid the contract in the event that the contract is not awarded to the low bidder as the result of a failure to meet the good faith requirement.

SANCTIONS FOR FAILURE TO MEET DBE REQUIREMENTS OF THE PROJECT

Failure by the prime contractor to fulfill the DBE requirements of a project under contract or to demonstrate good faith efforts to meet the goal constitutes a breach of contract. When this occurs, the Cabinet will hold the prime contractor accountable, as would be the case with all other contract provisions. Therefore, the contractor's failure to carry out the DBE contract requirements shall constitute a breach of contract and as such the Cabinet reserves the right to exercise all administrative remedies at its disposal including, but not limited to the following:

- Suspension of Prequalification;
- Disallow credit toward the DBE goal;
- Withholding progress payments;
- Withholding payment to the prime in an amount equal to the unmet portion of the contract goal; and/or
- Termination of the contract.

PROMPT PAYMENT

The prime contractor will be required to pay the DBE and Non-DBE Subcontractors within seven (7) working days after he or she has received payment from the Kentucky Transportation Cabinet for work performed or materials furnished.

CONTRACTOR REPORTING

All contractors must keep detailed records and provide reports to the Cabinet on their progress in meeting the DBE requirement on any highway contract. These records may include, but shall not be limited to payroll, lease agreements, cancelled payroll checks, executed subcontracting agreements, etc. Prime contractors will be required to complete and submit a **signed and notarized** Affidavit of Subcontractor Payment (TC 18-7) and copies of checks for any monies paid to each DBE subcontractor or supplier utilized to meet a DBE goal. These documents must be completed and signed within 7 days of being paid by the Cabinet.

Payment information that needs to be reported includes date the payment is sent to the DBE, check number, Contract ID, amount of payment and the check date. Before Final Payment is made on this contract, the Prime Contractor will certify that all payments were made to the DBE subcontractor and/or DBE suppliers.

***** IMPORTANT *****

Please mail the original, signed and completed TC (18-7) Affidavit of Subcontractor Payment form and all copies of checks for payments listed above to the following address:

Office for Civil Rights and Small Business Development
6th Floor West 200 Mero Street
Frankfort, KY 40622

The prime contractor should notify the KYTC Office for Civil Rights and Small Business Development seven (7) days prior to DBE contractors commencing work on the project. The contact in this office is Mr. Tony Youssefi. Mr. Youssefi's current contact information is email address – tyousseffi@ky.gov and the telephone number is (502) 564-3601.

DEFAULT OR DECERTIFICATION OF THE DBE

If the DBE subcontractor or supplier is decertified or defaults in the performance of its work, and the overall goal cannot be credited for the uncompleted work, the prime contractor may utilize a substitute DBE or elect to fulfill the DBE goal with another DBE on a different work item. If after exerting good faith effort in accordance with the Cabinet's Good Faith Effort policies and procedures, the prime contractor is unable to replace the DBE, then the unmet portion of the goal may be waived at the discretion of the Cabinet.

PROHIBITION ON TELECOMMUNICATIONS EQUIPMENT OR SERVICES

In accordance with the FY 2019 National Defense Authorization Act (NDAA), 2 CFR 200.216, and 2 CFR 200.471, Federal agencies are prohibited, after August 13, 2020, from obligating or expending financial assistance to obtain certain telecommunications and video surveillance services and equipment from specific producers. As a result of these regulations, contractors and subcontractors are prohibited, on projects with federal funding participation, from providing telecommunication or video surveillance equipment, services, or systems produced by:

- Huawei Technologies Company or ZTE Corporation (or any subsidiary or affiliate of such entities)
- Hytera Communications Corporation, Hangzhou Hikvision Digital Technology Company, or Dahua Technology Company (or any subsidiary or affiliate of such entities)

**LEGAL REQUIREMENTS AND RESPONSIBILITY TO THE PUBLIC – CARGO
PREFERENCE ACT (CPA).**

(REV 12-17-15) (1-16)

SECTION 7 is expanded by the following new Article:

102.10 Cargo Preference Act – Use of United States-flag vessels.

Pursuant to Title 46CFR Part 381, the Contractor agrees

- To utilize privately owned United States-flag commercial vessels to ship at least 50 percent of the gross tonnage (computed separately for dry bulk carriers, dry cargo liners, and tankers) involved, whenever shipping any equipment, material, or commodities pursuant to this contract, to the extent such vessels are available at fair and reasonable rates for United States-flag commercial vessels.
- To furnish within 20 days following the date of loading for shipments originating within the United States or within 30 working days following the date of loading for shipments originating outside the United States, a legible copy of a rated, ‘on-board’ commercial ocean bill-of-lading in English for each shipment of cargo described in paragraph 1 of this section to both the Contracting Officer (through the prime contractor in the case of subcontractor bills-of-lading) and to the Division of National Cargo, Office of Market Development, Maritime Administration, Washington, DC 20590.
- To insert the substance of the provisions of this clause in all subcontracts issued pursuant to this contract.

NATIONAL HIGHWAY

Be advised this project is on the NATIONAL HIGHWAY SYSTEM.

ASPHALT MIXTURE

Unless otherwise noted, the Department estimates the rate of application for all asphalt mixtures to be 110 lbs/sy per inch of depth.

DGA BASE

Unless otherwise noted, the Department estimates the rate of application for DGA Base to be 115 lbs/sy per inch of depth.

FUEL AND ASPHALT PAY ADJUSTMENT

The Department has included the Contract items Asphalt Adjustment and Fuel Adjustment for possible future payments at an established Contract unit price of \$1.00. The Department will calculate actual adjustment quantities after work is completed. If existing Contract amount is insufficient to pay all items on the contract with the adjustments, the Department will establish additional monies with a change order.

OPTION A

Be advised that the Department will accept compaction of asphalt mixtures furnished for driving lanes and ramps, at 1 inch (25mm) or greater, on this project according to OPTION A in accordance with Section 402 and Section 403 of the current Standard Specifications. The Department will require joint cores as described in Section 402.03.02 for surface mixtures only. The Department will accept compaction of all other asphalt mixtures according to OPTION B.

Special Notes Applicable to Project General Notes & Description of Work

CAUTION

The information in this proposal and the type of work listed herein are approximate only and are not to be taken as an exact evaluation of the materials and conditions to be encountered during construction; the bidder must draw his/her own conclusions when developing the Unit Bid Prices for each bid item. As such, if the conditions encountered are not in accordance with the information shown, the Department does not guarantee any changes to the Unit Bid Prices nor extension of the contract will be considered. The Department will pay for bid item quantity overruns, but only if pre-approved by the Engineer.

STATIONING

The contractor is advised that the planned locations of work were established based on As-Built stationing. STA 802+53.26 is at the intersection of US 60 and Hawes Blvd.

SURVEY

Some of the survey information was obtained from available KYTC Aerial LIDAR data and should be field verified as appropriate during construction and prior to incorporating the various project work items. Refer to the Special Note for Staking concerning staking operations required to control and construct the work. Most of the project area survey information was obtained from drone survey. Topographic survey was performed at loon locations and along the median of US 60.

ON-SITE INSPECTION

Before submitting a bid for the work, make a thorough inspection of the site and determine existing conditions so that the work can be expeditiously performed after a contract is awarded. The Department will consider submission of a bid to be evidence of this inspection having been made. The Department will not honor any claims for money or time extension resulting from site conditions.

RIGHT OF WAY LIMITS

The Department has not established the exact limits of the Right-of-Way. Unless a consent and release form is obtained from the adjoining property owner, limit work activities to the obvious Right-of-Way and staging areas secured and environmentally cleared by the Contractor at no additional cost to the Department. In the event that private improvements (i.e., fences, buildings, etc.) encroach upon the Right-of-Way, the contractor shall notify the Engineer and limit work activities in order to NOT disturb the improvements. If they become necessary, the Department will secure consent and releases from property owners through the Engineer. Be responsible for all encroachments onto private lands.

Note: The fencing at Loon #2, approximately Station 812+35 to Station 812+72.62 will be replaced following construction of the loon and associated ditch construction. The existing and proposed fence is within KYTC existing right-of-way.

CONTROL

Perform all work under the absolute control of the Department of Highways. Obtain the Engineer's approval of all designs required to be furnished by the Contractor prior to incorporation into the work. The Department reserves the right to have other work performed by other contractors and its own forces and to permit public utility companies and others to do work during the construction within the limits of, or adjacent to, the project. Conduct operations and cooperate with such other parties so that interference with such other work will be reduced to a minimum. The Department will not honor any claims for money or time extension created by the

General Notes & Description of Work
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operations of such other parties. Should a difference of opinion arise as to the rights of the Contractor and others working within the limits of, or adjacent to, the project, the Engineer will decide as to the respective rights of the various parties involved in order to assure the completion of the Department's work in general harmony and in a satisfactory manner, and his/her decision shall be final and binding upon the Contractor.

DESCRIPTION OF WORK

Except as specified herein, perform all work in accordance with the Department's Standard Specifications, Supplemental Specifications, applicable Special Notes and Special Provisions, and applicable Standard and Sepia Drawings, current editions. Furnish all materials, labor, equipment, and incidentals for the following work:

Construction of RCUT (Restricted Crossing U-Turn) Intersections. The intent of this project is to construct an RCUT intersection at Hawes Blvd (KY 1767) and US 60 and at Wrights Landing Rd and US 60. This will be accomplished by constructing a Standard Barrier Median in the median of the two intersections with US 60, positive offset left turn lanes at both intersections, and U-Turn crossovers/loons upstream and downstream from each intersection.

A positive offset right turn lane is to be constructed for US 60 eastbound onto Hawes Blvd. southbound. The positive offset right turn lane for US 60 eastbound onto Wrights Landing has been constructed by others as part of the gaming facility construction. The roadway contractor for the RCUT projects shall coordinate with the development during construction.

Standard Barrier Median. The Standard Barrier Median has been designed to prevent the left-turn and through movements from the side roads onto US 60, while allowing turning movements from US 60 onto the side roads. Flexible delineator posts are to be installed down the middle of the median. Details within the Proposal show the design and layout for the Standard Barrier Median.

Standard Barrier Median Modified. A modified standard barrier median with curb matching the dimensions of island curb is to be constructed on each RCUT at the locations shown in the plans starting at the taper locations between the left turn lane and the U-turn lane in the opposite direction. Flexible delineator posts are to be installed down the middle of the median. Details within the Proposal show the design and layout for the Standard Barrier Median Modified.

Turn Lanes and U-Turn Crossovers/Loons. Since the thru and left turning movements from the side roads onto US 60 are prohibited in this design, storage lanes for U-turn movements are being provided a short distance from the main intersection. To accommodate vehicles that require a large turning radius at the U-turns, loons are to be constructed along US 60 at/near the U-Turn locations. Details within the Proposal show the design, layout and widening for the turn lanes and U-turn crossovers/loons.

Loon #1, for U-turning vehicles from Hawes southbound approach towards US 60 eastbound, requires the extension of the existing guardrail to wrap around the proposed loon. Utilize 2:1 side slopes on the backside of the loon to avoid existing 12" water main that is approximately 3' from the state fence with a depth of 2'-6". See plans and cross section for more information.

Asphalt Pavement and Roadway Widening. Portions of the existing roadway are to be widened for turn lanes. Additionally, the roadway will be resurfaced (with milling and texturing and placement of asphalt surface course) within the project limits. The roadway widening work will include: removal of existing

General Notes & Description of Work

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pavement by milling and texturing, earthwork, longitudinal edge keys, placement of fabric wrapped aggregate layer, placement of crushed stone base, placement of asphalt base, placement of an asphalt surface course, installation of edge line rumble strips, and the application/installation of pavement markings.

Drainage. Drop box inlets, storm sewer pipe, and associated ditch construction are proposed along the median of US 60 to provide positive drainage at the turn lanes and U-turn crossovers and loons. The proposed drainage structures tie into the existing cross pipes that outlet on the sides of US 60. Curb box inlets are proposed along the Standard Barrier Median for drainage of the proposed turn lanes at each intersection. Locations are noted on the Plan Sheets. Refer to the Special Note for Pipe Replacements / Extensions for more information on this item of work.

Guardrail. Extend the existing guardrail along US 60 eastbound around Loon #1. The approximate location is noted on the Plans. Estimated quantities are noted on the General Summary. Refer to the Special Note for Guardrail, Typical Sections, and Plan Sheets for more detail and information on this item of work.

NOTE: When the plans call for a Type 1 or Type 4A End Treatment, a MASH eligibility letter from FHWA is required for these end terminals. When a MASH tested eligibility letter is not available for the end terminal being utilized, the most recent NCHRP 350 eligibility letter from FHWA for that terminal will apply. Acceptance of the terminal will be at the discretion of the Engineer.

Striping and Pavement Marking. Install the proposed Striping and Pavement Markings, as detailed on the Striping Plans. The Contractor shall coordinate with the District Traffic Engineer to ensure that the District Traffic Engineer approves of the final layout.

Signing. Install the proposed signing, as detailed on the Signing Plans. The Contractor shall coordinate with the District Traffic Engineer to ensure that the District Traffic Engineer approves of the final sign locations.

Lighting. Conventional lighting is being proposed with the construction of the RCUT intersections. One luminaire pole is proposed at each loon location and two luminaire poles are proposed at each intersection. Refer to the Lighting Plan for details and quantities.

Special Note for Staking

Perform Contractor Staking according to Section 201; except, in addition to the requirements of Section 201, perform the following:

1. Contrary to Section 201.03.01, perform items 1 & 2 usually performed by the Engineer.
2. Verify the dimensions, type, and quantities of the culvert pipes, entrance pipes, and/or box culverts as listed and detailed in the proposal, and determine flow line elevations and slopes necessary to provide positive drainage. Revise as necessary to accommodate the existing site conditions; to provide proper alignment of the drainage structures with existing and/or proposed ditches, stream channels, swales, and the roadway lines and grades; and to ensure positive drainage upon completion of the work. Ensure positive drainage along US 60 and proposed standard median barriers. Proposed curb box inlets are shown on the plans and should be field verified to ensure positive drainage.
3. Using stakes, paint marks on the pavement, mag nails, and/or any other means approved by the Engineer, the Contractor shall mark and/or stake the proposed sign locations in the field. NOTE: The proposed signs are listed in the proposal by approximate location and are NOT to be taken as the exact location for the signs. During staking operations the Contractor shall review the signing layout and existing field conditions and look for potential conflicts, including but not limited to utilities, driveways, visual obstructions, etc. When conflicts are found, adjust the staked location of signs to mitigate conflicts. Because the sign locations in the proposal are approximate and the location of some signs may need to be adjusted due to conflicts, during staking operations the Contractor shall refer to and utilize the information in the Manual on Uniform on Traffic Control Devices (MUTCD), current edition. The MUTCD cover items such as: appropriate sign location, advance placement distances, and spacing requirements for signing. The intent is for the proposed signs to be consistent with, and meet the requirements of, the MUTCD. Once the proposed sign locations have been staked, notify and coordinate with the District Traffic Engineer, and perform a review of the staked locations. Adjust the staked locations, as directed by the District Traffic Engineer and obtain approval of the final staked locations. This review will also be used to determine if there are any existing signs that require removal and/or relocation. Provide the District Traffic Engineer with 2 weeks of notice when a route will be ready for a review of the staked locations. NOTE: The District Traffic Engineer may determine that the proposed signing, including sign types and messages, needs to be adjusted and/or modified from what is shown in the proposal. Therefore, the Contractor shall not order any sign material for a route until the route has been staked and final sign location approval has been given by the District Traffic Engineer.
4. Produce and furnish to the Engineer "As Built" information for the drainage improvements. For the drainage improvements, as built information will consist of a final record of the actual types, sizes, and locations of the drainage structures (i.e. box inlets, headwalls, junction boxes, etc.), culvert pipes, and/or box culverts constructed. Final elevation data of the drainage improvements is not necessary.
5. Using paint marks on the pavement, and/or any other means approved by the Engineer, the Contractor shall layout and pre-mark the proposed striping, pavement markings, etc. Adjust as necessary to accommodate the existing site conditions and to provide proper alignment of the proposed thru and turning lanes. Obtain approval of the pre-marked layout from the Engineer and/or District Traffic Engineer prior to installing the striping and/or pavement markings.
6. Prior to incorporating into the work, obtain the Engineers approval of all revisions determined by the Contractor.
7. Perform any and all other staking operations required to control and construct the work.

Special Note for Erosion Control

I. DESCRIPTION

Perform all erosion and water pollution control work in accordance with any other notes in the Proposal, the Department's Standard and Interim Supplemental Specifications, the Special Provisions and Special Notes, and the Standard and Sepia Drawings, current editions, or as directed by the Engineer. Section references are to the Standard Specifications. This work shall consist of:

(1) Developing and preparing a Best Management Practices Plan (BMP) tailored to suit the specific construction phasing for each site within the project; (2) Preparing the project site for construction, including locating, furnishing, installing, and maintaining temporary and/or permanent erosion and water pollution control measures as required by the BMP prior to beginning any earth disturbing activity on the project site; (3) Clearing and grubbing and removal of all obstructions as required for construction; (4) Removing all erosion control devices when no longer needed; (5) Restoring all disturbed areas as nearly as possible to their original condition; (6) Preparing seedbeds and permanently seeding all disturbed areas; (7) Providing a Kentucky Erosion Prevention and Sediment Control Program (KEPSC) qualified inspector; and (8) Performing any other work to prevent erosion and/or water pollution as specified by this contract, required by the BMP, or as directed by the Engineer.

II. MATERIALS

Furnish materials in accordance with these notes, the Standard Specifications and Interim Supplemental Specifications, applicable Special Provisions and Special Notes, and the Standard and Sepia Drawings, current editions. Provide for all materials to be sampled and tested in accordance with the Department's Sampling Manual. Unless directed otherwise by the Engineer, make the materials available for sampling a sufficient time in advance of the use of the materials to allow for the necessary time for testing.

III. CONSTRUCTION

Be advised, these Erosion Control Notes do not constitute a BMP plan for the project. Jointly with the Engineer, prepare a site-specific BMP plan for each drainage area within the project in accordance with Section 213. Provide a unique BMP at each project site using good engineering practices taking into account existing site conditions, the type of work to be performed, the construction phasing, methods, and the techniques to be utilized to complete the work. Be responsible for all erosion prevention, sediment control, and water pollution prevention measures required by the BMP for each site. Represent and warrant compliance with the Clean Water Act (33 USC Section 1251 et seq.), the 404 Permit, the 401 Water Quality Certification, and applicable state and local government agency laws, regulations, rules, specifications, and permits. Contrary to Section 105.05, in case of discrepancy between these notes, the Standard Specifications, Interim Supplemental Specifications, Special Provisions and Special Notes, Standard and Sepia Drawings, and such state and local government agency requirements, adhere to the most restrictive requirement.

Conduct operations in such a manner as to minimize the amount of disturbed ground during each phase of the construction and limit the haul roads to the minimum required to perform the work. Preserve existing

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vegetation not required to be removed by the work or the contract. Seed and/or mulch disturbed areas at the earliest opportunity. Use silt fence, silt traps, temporary ditches, brush barriers, erosion control blankets, sodding, channel lining, and other erosion control measures in a timely manner as required by the BMP and as directed or approved by the Engineer. Prevent sediment laden water from leaving the project, entering an existing drainage structure, or entering a stream.

Provide for erosion control measures to be in place and functioning prior to any earth disturbance within a drainage area. Compute the volume and size of silt control devices necessary to control sediment during each phase of construction. All silt control devices shall be sized to retain a volume of 3,600 cubic feet per disturbed contributing acre. Remove sediment from silt traps before they become a maximum of ½ full. Maintain silt fence by removing accumulated trappings and/or replacing the geotextile fabric when it becomes clogged, damaged, or deteriorated, or when directed by the Engineer. Properly dispose of all materials trapped by erosion control devices at approved sites off the right of way obtained by the Contractor at no additional cost to the Department. See the Special Provision for Waste and Borrow Sites.

As work progresses, add or remove erosion control measures as required by the BMP, applicable to the Contractor's project phasing, construction methods, and techniques. Update the volume calculations and modify the BMP as necessary throughout the duration of the project. Ensure that an updated BMP is kept on site and available for public inspection throughout the life of the project.

The required volume at each Silt Trap shall be computed based on the Up Gradient Contributing Areas that are disturbed and/or stabilized to the satisfaction of the Engineer. The required volume calculation for each Silt Trap shall be determined by the Contractor and verified by the Engineer. The required volume at each Silt Trap may be reduced by the following amounts:

- Up Gradient Areas not disturbed (acres)
- Up Gradient Areas that have been reclaimed and protected by Erosion Control Blanket or other ground protection material such as Temporary Mulch (acres)
- Up Gradient Areas that have been protected by Silt Fence (acres) – Areas protected by Silt Fence shall be computed at a maximum rate of 100 square feet per linear foot of Silt Fence
- Up Gradient Areas that have been protected by Silt Traps (acres)

The use of Temporary Mulch is encouraged.

Silt Trap Type B shall always be placed at the collection point prior to discharging into a Blue Line Stream or onto an adjacent Property Owner. Where overland flow exists, a Silt Fence or other filter devices may be used.

After all construction is complete, restore all disturbed areas in accordance with Section 212. Completely remove all temporary erosion control devices not required as part of the permanent erosion control from the construction site. Prior to removal, obtain the Engineer's concurrence of items to be removed. Grade the remaining exposed earth (both on and off the Right-of-Way) as nearly as possible to its original condition, or as directed by the Engineer. Prepare the seed bed areas and sow all exposed earthen areas with the applicable seed mixture(s) according to Section 212.03.03.

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IV. MEASUREMENT

The Department will measure the various erosion control items according to Section 212.04 and Section 213.04, as applicable.

V. Basis of Payment

The Department will make payment for the various erosion control items according to Section 212.04 and Section 213.04, as applicable.

Special Note for Pipe Replacements and Extensions

I. DESCRIPTION

Except as provided herein, perform all work in accordance with the Department's Standard Specifications, interim Supplemental Specifications, Standard and Sepia Drawings, and Special Notes and Special Provisions, current editions. Article references are to the Standard Specifications. This project shall consist of furnishing all labor, equipment, materials, and incidentals for the following:

(1) Maintaining and Controlling Traffic; (2) Constructing pipe replacements and/or pipe extensions; (3) Embankment and/or Excavation; (4) Erosion Control; and (6) Any other work as specified by this contract.

II. MATERIALS

Provide for sampling and testing of all materials in accordance with the Department's Sampling Manual. Make materials available for sampling a sufficient time in advance of the use of the materials to allow for the necessary time for testing unless otherwise specified in these notes.

- A. Maintain and Control Traffic.** See Traffic Control Plan.
- B. Culvert Pipe.** Furnish pipe meeting the requirements of Section 810. Select pipe for pH range Medium and minimum fill cover height according to the applicable Standard or Sepia Drawings, current editions. Verify maximum and minimum fill cover height required for new pipe prior to construction and obtain the Engineer's approval of the class or gauge of pipe and type of coating prior to delivering pipe to project. Furnish approved connecting bands or pipe anchors and toe walls.
- C. Flowable Fill.** Furnish Flowable Fill for Pipe Backfill per Section 601.03.03(B).
- D. Erosion Control.** See Special Note for Erosion Control.

III. CONSTRUCTION METHODS

- A. Maintain and Control Traffic.** See Traffic Control Plan.
- B. Erosion Control.** See Special Note for Erosion Control.
- C. Site Preparation.** Be responsible for all site preparation including, but not limited to, saw cutting and removing existing pavement; clearing and grubbing; staking; incidental excavation and backfilling; common and solid rock excavation; embankment in place; removal of obstructions, or any other items; restoration of pavements, slopes, and all disturbed areas; final dressing and cleanup; and disposal of materials. Limit clearing and grubbing to the absolute minimum required to construct the drainage features. Perform all site preparation only as approved or directed by the Engineer.
- D. Removing Headwalls, Pipe, and Excavation.** Remove existing headwalls and lengths of culvert

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and/or entrance pipes at the approximate locations noted on the summary. The Engineer will determine the exact locations and lengths of pipe to be removed at the time of construction. When any portion of pipe under the roadway, saw cut the existing asphalt pavement and base to a neat edge prior to excavation and removal of the existing pipe. NOTE: Saw cutting the pavement shall be incidental. Obtain the Engineer's approval of trench width and/or saw cutting limits prior to saw cutting the pavement. Excavate the trench and remove the pipe as directed, or approved, by the Engineer without disturbing existing underground utilities.

- E. Constructing Pipe, Headwalls, and Drainage Boxes.** Construct culvert and/or entrance pipes, pipe extensions, headwalls, drainage boxes, and other drainage structures at the locations shown in the proposal or as designated by the Engineer. The Contractor will establish, with the approval of the Engineer, the final centerlines, flow lines, and skews to obtain the best fit with the existing and/or proposed ditches and other proposed improvements. (See the Special Note for Staking.) Construct pipe bedding according to Section 701 and the applicable Standard or Sepia Drawings, current editions. Use approved connecting bands or concrete anchors as required. Prior to backfilling pipe, obtain the Engineer's approval of the pipe installation. Provide positive drainage upon completion of pipe installation.
- F. Pipe Backfill.** Backfill entrance pipes according to Section 701.03.06. Contrary to Section 701.03.06, regardless of cover height, backfill culvert pipes with flowable fill as shown on the Culvert Pipe Replacement Detail from the outside edge of shoulder or back of curb to outside edge of shoulder or back of curb. Steel plates will likely be required to maintain traffic while the flowable fill cures. Once the flowable fill has sufficiently cured, place the Asphalt Base in lifts with thicknesses of 3-4 inches, up to the surface of the existing pavement. Seal with Leveling & Wedging. Allow the asphalt base and leveling & wedging to be exposed to traffic for a minimum of 14 days to allow for settlement. During the waiting period, level & wedge any settlement as directed by the Engineer. After the waiting period has been met for the last pipe replacement constructed, the final milling and/or surfacing operations can begin, unless directed otherwise by the Engineer. For culvert pipe beyond the outside edge of shoulder or back of curb, backfill according to Section 701.03.06.
- G. Embankments.** Backfill pipe and culvert extensions, and construct shoulder embankments as directed by the Engineer. The Contractor shall bench into the existing slope and apply proper compaction according to Section 206. For more information and details on benching, refer to Note 2 on the detail sheet titled: ROADSIDE REGRADING AND EMBANKMENT BENCHING DETAILS, found elsewhere in the Proposal. Provide positive drainage of ditches, shoulders, and slopes at all times during and upon completion of construction.
- H. Property Damage.** Be responsible for all damage to public and/or private property resulting from the work. Repair or replace damaged roadway features in like kind materials and design, as directed by the Engineer at no additional cost to the Department. Repair or replace damaged private property in like kind materials and design to the satisfaction of the owner and the Engineer at no additional cost to the Department.
- I. Coordination with Utility Companies.** Locate all underground, above ground, and overhead utilities prior to beginning construction. Be responsible for contacting and maintaining liaison with all utility companies that have utilities located within the project limits. Do not disturb existing overhead or

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underground utilities. It is not anticipated that any utility facilities will need to be relocated and/or adjusted; however, in the event that it is discovered that the work does require that utilities be relocated and/or adjusted, the utility companies will work concurrently with the Contractor while relocating their facilities. Be responsible for repairing all utility damage that occurs as a result of pipe replacement and pipe extension operations at no additional cost to the Department. NOTIFY THE ENGINEER AND THE UTILITY OWNER(S) IMMEDIATELY WHEN IT IS DISCOVERED OR ANTICIPATED THAT ANY UTILITY CONFLICT COULD DELAY THE CONTRACTOR'S OPERATIONS. If the total delay exceeds ten working days, an extension of the specified completion date will be negotiated with the Contractor for delay to the Contractor's work; however, no extension will be granted for any delay caused by the Contractor's failure to notify the Engineer and/or the utility company as specified above when a conflict is discovered or anticipated as specified.

- J. Right-of-Way Limits.** The Department has not established exact limits of the Right-of-Way. Unless a consent and release form is obtained from the adjoining property owner, limit work activities to the obvious Right-of-Way and staging areas secured by the Contractor at no additional cost to the Department. In the event that private improvements (i.e. fences, buildings, etc.) encroach upon the Right-of-Way, the Contractor shall notify the Engineer and limit work activities in order to NOT disturb the improvements. If they become necessary, the Department will secure consent and releases from property owners through the Engineer. Be responsible for all encroachments onto private lands.
- K. Clean Up, Disposal of Waste.** Clean up the project area as work progresses. Dispose of all removed concrete, pipe, pavement, debris, excess and unsuitable excavation, and all other waste at approved sites off the Right of Way obtained by the Contractor at no additional cost to the Department. See the Special Provision for Waste and Borrow Sites.
- L. Final Dressing, Seeding and Protection.** Grade all disturbed areas to blend with the adjacent roadways features and to provide a suitable seed bed. Apply Class A Final Dressing to all disturbed areas, both on and off the Right-of-Way. Sow all disturbed earthen areas with the applicable seed mixture(s) according to Section 212.03.03.
- M. Erosion Control.** See the Special Note for Erosion Control.

IV. METHOD OF MEASUREMENT

- A. Maintain and Control Traffic.** See the Traffic Control Plan.
- B. Site Preparation.** Other than the bid items listed, site preparation will NOT be measured for payment, but shall be incidental to culvert and/or entrance pipe bid items, as applicable.
- C. Remove Headwall.** The Department will measure the removal of existing headwalls as Each. Any excavation, including rock excavation, necessary to remove existing headwalls will NOT be measured for payment, but shall be incidental to the bid item "Remove Headwall".
- D. Remove Pipe.** Removal of existing culvert and entrance pipe shall be measured according to Section

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701.04.14. Any excavation, including rock excavation, necessary to remove existing pipe will NOT be measured for payment, but shall be incidental to the bid item "Remove Pipe".

- E. Culvert and Entrance Pipe.** The Department will measure the quantities according to Section 701.04. Any excavation, including rock excavation, necessary to install culvert or entrance pipe shall be incidental to the corresponding pipe bid items.
- F. Headwalls, Drainage Boxes.** The Department will measure according to Section 710. Any excavation, including rock excavation, necessary to construct headwalls and/or drainage boxes will NOT be measured for payment, but shall be incidental to the applicable bid item.
- G. Excavation, Pipe Backfill, Embankments.** The Department will NOT measure for payment the following items: any excavation, including rock excavation, necessary to remove the existing pipe and/or install the proposed culvert or entrance pipe, pipe backfill material, geotextile fabric, flowable fill, and re-constructing shoulder embankments, but shall considered these items incidental to the bid items for culvert and entrance pipe.
- H. Clean Up, Disposal of Waste, Final Dressing, Seeding and Protection.** The Department will NOT measure for payment the following activities: Clean Up, Disposal of Waste, and Final Dressing. These activities shall be incidental to the project bid items. Seeding and Protection shall be measured according to Section 212.
- I. Erosion Control.** See the Special Note for Erosion Control.

V. BASIS OF PAYMENT

- A. Maintain and Control Traffic.** See the Traffic Control Plan.
- B. Remove Headwall.** The Department will make payment for the completed and accepted quantities of Each headwall removed. Payment at the Contract unit price per Each shall be full compensation for furnishing all labor, materials, equipment, and incidentals for removing the existing headwall.
- C. Remove Pipe.** The Department will make payment according to Section 701.05. Payment at the Contract unit price per linear foot shall be full compensation for furnishing all labor, materials, equipment, and incidentals for removing the existing pipe.
- D. Culvert and Entrance Pipe.** The Department will make payment according to Section 701.05. Payment at the Contract unit price per linear foot shall be full compensation for furnishing all labor, materials, equipment, and incidentals necessary for installing and backfilling new culvert and entrance pipe.
- E. Headwalls, Drainage Boxes.** The Department will make payment according to Section 710.
- F. Erosion Control.** See the Special Note for Erosion Control.

SPECIAL NOTE FOR PIPELINE INSPECTION

1.0 DESCRIPTION. The Department will perform visual inspections on all pipe on the project. A video inspection will be required on projects having more than 250 linear feet of storm sewer and/or culvert pipe and on routes with an ADT of greater than 1,000 vehicles. Conduct video inspections on all pipe located under the roadway and 50 percent of the remaining pipe not under the roadway. Storm sewer runs and outfall pipes not under the roadway take precedence over rural entrance pipes. Contractors performing this item of work must be prequalified with the Department in the work type J51 (Video Pipe Inspection and Cleaning). Deflection testing shall be completed using a mandrel in accordance with the procedure outlined below or by physical measurement for pipes greater than 36 inches in diameter. Mandrel testing for deflection must be completed prior to the video inspection testing. Unless otherwise noted, Section references herein are to the Department's most current version of the Standard Specifications for Road and Bridge Construction.

2.0 VIDEO INSPECTION. Ensure pipe is clear of water, debris or obstructions. Complete the video inspection and any necessary measurement prior to placing the final surface over any pipe. When paving will not be delayed, take measurements 30 days or more after the completion of earthwork to within 1 foot of the finished subgrade. Notify the Engineer a minimum of 24 hours in advance of inspection and notify the Engineer immediately if distresses or locations of improper installation are logged.

2.1 INSPECTION FOR DEFECTS AND DISTRESSES

A) Begin at the outlet end and proceed through to the inlet at a speed less than or equal to 30 ft/minute. Remove blockages that will prohibit a continuous operation.

B) Document locations of all observed defects and distresses including but not limited to: cracking, spalling, slabbing, exposed reinforcing steel, sags, joint offsets, joint separations, deflections, improper joints/connections, blockages, leaks, rips, tears, buckling, deviation from line and grade, damaged coatings/paved inverts, and other anomalies not consistent with a properly installed pipe.

C) During the video inspection provide a continuous 360 degree pan of every pipe joint.

D) Identify and measure all cracks greater than 0.1" and joint separations greater than 0.5".

E) Video Inspections are conducted from junction to junction which defines a pipe run. A junction is defined as a headwall, drop box inlet, curb box inlet, manhole, buried junction, or other structure that disturbs the continuity of the pipe. Multiple pipe inspections may be conducted from a single set up location, but each pipe run must be on a separate video file and all locations are to be referenced from nearest junction relative to that pipe run.

F) Record and submit all data on the TC 64-765 and TC 64-766 forms.

3.0 MANDREL TESTING. Mandrel testing will be used for deflection testing. For use on Corrugated Metal Pipe, High Density Polyethylene Pipe, and Polyvinyl Chloride Pipe,

use a mandrel device with an odd number of legs (9 minimum) having a length not less than the outside diameter of the mandrel. The diameter of the mandrel at any point shall not be less than the diameter specified in Section 3.6. Mandrels can be a fixed size or a variable size.

3.1 Use a proving ring or other method recommended by the mandrel manufacturer to verify mandrel diameter prior to inspection. Provide verification documentation for each size mandrel to the Engineer.

3.2 All deflection measurements are to be based off of the AASHTO Nominal Diameters. Refer to the chart in section 3.6.

3.3 Begin by using a mandrel set to the 5.0% deflection limit. Place the mandrel in the inlet end of the pipe and pull through to the outlet end. If resistance is met prior to completing the entire run, record the maximum distance achieved from the inlet side, then remove the mandrel and continue the inspection from the outlet end of the pipe toward the inlet end. Record the maximum distance achieved from the outlet side.

3.4 If no resistance is met at 5.0% then the inspection is complete. If resistance occurred at 5.0% then repeat 3.1 and 3.2 with the mandrel set to the 10.0% deflection limit. If the deflection of entire pipe run cannot be verified with the mandrel then immediately notify the Engineer.

3.5 Care must be taken when using a mandrel in all pipe material types and lining/coating scenarios. Pipe damaged during the mandrel inspection will be video inspected to determine the extent of the damage. If the damaged pipe was video inspected prior to mandrel inspection then a new video inspection is warranted and supersedes the first video inspection. Immediately notify the Engineer of any damages incurred during the mandrel inspection and submit a revised video inspection report.

3.6 AASHTO Nominal Diameters and Maximum Deflection Limits.

Base Pipe Diameter	AASHTO Nominal Diameter	Max. Deflection Limit	
		5.0%	10.0%
(inches)	(inches)	(inches)	
15	14.76	14.02	13.28
18	17.72	16.83	15.95
24	23.62	22.44	21.26
30	29.53	28.05	26.58
36	35.43	33.66	31.89
42	41.34	39.27	37.21
48	47.24	44.88	42.52
54	53.15	50.49	47.84
60	59.06	56.11	53.15

4.0 PHYSICAL MEASUREMENT OF PIPE DEFLECTION. Alternate method for deflection testing when there is available access or the pipe is greater than 36 inches in diameter, as per 4.1. Use a contact or non-contact distance instrument. A leveling device is recommended for establishing or verifying vertical and horizontal control.

4.1 Physical measurements may be taken after installation and compared to the AASHTO Nominal Diameter of the pipe as per Section 3.6. When this method is used, determine the smallest interior diameter of the pipe as measured through the center point of the pipe (D2). All measurements are to be taken from the inside crest of the corrugation. Take the D2 measurements at the most deflected portion of the pipe run in question and at intervals no greater than ten (10) feet through the run. Calculate the deflection as follows:

$$\% \text{ Deflection} = [(AASHTO \text{ Nominal Diameter} - D2) / AASHTO \text{ Nominal Diameter}] \times 100\%$$

Note: The Engineer may require that preset monitoring points be established in the culvert prior to backfilling. For these points the pre-installation measured diameter (D1) is measured and recorded. Deflection may then be calculated from the following formula:

$$\% \text{ Deflection} = [(D1 - D2) / D1] (100\%)$$

4.2 Record and submit all data.

5.0 DEDUCTION SCHEDULE. All pipe deductions shall be handled in accordance with the tables shown below.

FLEXIBLE PIPE DEFLECTION	
Amount of Deflection (%)	Payment
0.0 to 5.0	100% of the Unit Bid Price
5.1 to 9.9	50% of the Unit Bid Price ⁽¹⁾
10 or greater	Remove and Replace ⁽²⁾

⁽¹⁾ Provide Structural Analysis for HDPE and metal pipe. Based on the structural analysis, pipe may be allowed to remain in place at the reduced unit price. ⁽²⁾ The Department may allow the pipe to remain in place with no pay to the Contractor in instances where it is in the best interest to the public and where the structural analysis demonstrates that the pipe should function adequately.

RIGID PIPE REMEDIATION TABLE PIPE	
Crack Width (inches)	Payment
≤ 0.1	100% of the Unit Bid Price
Greater than 0.1	Remediate or Replace ⁽¹⁾

⁽¹⁾ Provide the Department in writing a method for repairing the observed cracking. Do not begin work until the method has been approved.

6.0 PAYMENT. The Department will measure the quantity in linear feet of pipe to inspect. The Department will make payment for the completed and accepted quantities under the following:

<u>Code</u>	<u>Pay Item</u>	<u>Pay Unit</u>
24814EC	Pipeline Inspection	Linear Foot
10065NS	Pipe Deflection Deduction	Dollars

Special Note for Cored Hole Drainage Box Connector

I. DESCRIPTION.

Except as provided herein, perform all work in accordance with the Department's Standard Specifications, interim Supplemental Specifications, Standard and Sepia Drawings, and Special Notes and Special Provisions, current editions. Section references are to the Standard Specifications. This project shall consist of furnishing all labor, equipment, materials, and incidentals for the following:

(1) Contractor staking; (2) Site preparation; (3) Core drill a hole in the side of an existing small drainage structure to connect the outlet end of a proposed pipe, instead of constructing an outlet headwall; (4) Maintain and Control Traffic; and (5) all other work specified as part of this contract.

II. MATERIALS.

Provide for sampling and testing of all materials in accordance with the Department's Sampling Manual. Make materials available for sampling a sufficient time in advance of the use of the materials to allow for the necessary time for testing unless otherwise specified in these notes.

- A. Maintain and Control Traffic.** See the Traffic Control Plan.
- B. Erosion Control.** See the Special Note for Erosion Control.
- C. Non-Shrink Grout.** Conform to Subsection 601.03.03 (B).
- D. Asphalt Mastic Joint Sealing Compound.** Conform to Section 807.
- E. Pipe.** Conform to Subsection 704.02. Furnish the same type and size as the underdrain pipe.
Culvert Pipe. Furnish the same type and size as the existing culvert pipe being connected to the existing small drainage structure. Furnish pipe meeting the requirements of Section 810. Select pipe for pH range Medium and minimum fill cover height according to the applicable Standard or Sepia Drawings, current editions. Verify maximum and minimum fill cover height required for new pipe prior to construction and obtain the Engineer's approval of the class or gauge of pipe and type of coating prior to delivering pipe to project. Furnish approved connecting bands or pipe anchors and toe walls.
- F. Flowable Fill.** Furnish Flowable Fill for Pipe Backfill per Section 601.03.03(B).
- G. Styrofoam Backer Rod.** Obtain the Engineer's approval.

III. CONSTRUCTION.

- A. Maintain and Control Traffic.** See the Traffic Control Plan.
- B. Erosion Control.** See the Special Note for Erosion Control.

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- C. Site Preparation.** Be responsible for all Site Preparation, including but not limited to removing pavement; roadway excavation and structure excavation; removal of obstructions or any other items; embankment and embankment in place; ditching, shouldering, roadside regrading, reshaping, and compacting backfill material; cleaning drainage structures; obtaining borrow and waste sites; disposal of materials, waste, and debris; and restoration, cleanup, and final dressing
- D. Core Hole Drainage Box.** Cut hole by core drilling into existing drainage structure at the location, or locations, specified in the Contract or where the Engineer directs, without damaging the existing structure. Cut holes of a diameter equal to the outside diameter of the proposed pipe with a tolerance of plus 1/2 inch. Place 2 styrofoam backer rods on the pipe near each wall face and seal the opening around the pipe with mastic material or a non-shrink grout. Use wyes, tees, and ells in the pipe system to reduce the number of holes to be drilled. Patch all damage to the existing wall in the coring operation with non-shrink grout. Apply non-shrink grout according to Subsection 601.03.
- IV. MEASUREMENT.** The Department will measure the quantity by each individual unit. The Department will not measure pipe, wyes, tees, ells, styrofoam backer rods, or repair of damage to existing wall for payment and will consider them incidental to this item of work.
- V. PAYMENT.** The Department will make payment for the completed and accepted quantities under the bid item CORED HOLE DRAINAGE BOX CON (Size). The Department will consider payment as full compensation for all work required.

Special Note for Signage

All sign sheeting shall be from the Cabinet's List of Approved Materials.

All permanent signs and sign components shall be fabricated using Type XI sheeting.

The following signs and sign components shall be fabricated using Type XI fluorescent yellow sheeting:

- Horizontal Alignment Signs and Plaques, including signs shown in Figure 2C-1 of the MUTCD
- All Advisory Speed (W13-1P) plaques

The following signs shall be fabricated using Type XI fluorescent yellow-green sheeting:

- School and school bus warning signs, including the fluorescent yellow-green signs shown in Figures 7B-1 and 7B-6 of the MUTCD and other school-related warning signs that are not included in the MUTCD.
- Bicycle Warning (W11-1) signs and SHARE THE ROAD (W16-1P) plaques or diagonal downward pointing arrow (W16-7P) plaques that supplement Bicycle Warning signs.
- Pedestrian Warning signs and diagonal downward pointing arrow plaques that supplement Pedestrian Warning signs.
- In-Street Pedestrian Crossing (R1-6) signs and Overhead pedestrian Crossing (R1-9) signs
- Supplemental plaques to any of the previously listed signs

Special Note for Signing

I. DESCRIPTION

Except as provided herein, this work shall be performed in accordance with the current edition of the Manual on Uniform Traffic Control Devices (MUTCD), the Department's current Standard Specifications and Interim Supplemental Specifications, applicable Standard and Sepia Drawings, and applicable Special Provisions. Article references are to the Standard Specifications. This project shall consist of furnishing all labor, equipment, materials, and incidentals for the following:

(1) Maintaining and Controlling Traffic; (2) Furnish, Fabricate, and Erect Signs; and (3) All other work specified in the Contract.

II. MATERIALS

All materials shall be sampled and tested in accordance with the Department's Sampling Manual and the materials shall be available for sampling a sufficient time in advance of the use of the materials to allow for the necessary time for testing unless otherwise specified in these Notes.

A. Maintain and Control Traffic. See Traffic Control Plan.

B. Erosion Control. See Special Note for Erosion Control.

III. CONSTRUCTION METHODS

A. Maintain and Control Traffic. See Traffic Control Plan.

B. Site Preparation. Be responsible for all site preparation including, but not limited to: clearing and grubbing, staking, excavation, backfill, and removal of obstructions or any other material not covered by other items. Perform all site preparation only as approved or directed by the Engineer.

C. Staking. See Special Note for Staking.

D. Signs and Posts. Before beginning installation, the Contractor shall furnish to the Engineer drawings, descriptions, manufacturer's cuts, etc. describing and/or detailing all material to be used. Mill test reports for beams, steel panels, and each different gauge of aluminum or steel sheeting used must be submitted to the Division of Construction and approved prior to erection.

Fabricate sheet signs from .080 or .125 gauge aluminum alloy 5052-H38 or 6061-T6, in accordance with ASTM B-209, and to the size and shape specified. Prepare the side of the aluminum sheet to receive the retroreflective background material according to the recommendations of the sheeting and retroreflective material manufacturer(s). Sheeting used as background material for sign faces is to be the color specified and visually in accordance with the standard requirements of ASTM D-4956 and meet the requirements of Section 830 of the Standard Specifications. Contrary to Section 830.02.06, only the types and colors of sheeting as specified in the proposal will be accepted. All

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retroreflective material shall be fabricated and assembled in accordance with the specifications and/or recommendations of the manufacturer(s).

All hardware for the erection of sheeting signs shall be rust resistant: stainless steel, zinc coated, aluminum, or an Engineer approved material. All beams and sign posts shall be of sufficient lengths so that a single, continuous length of sign post extends from the top of the sign to the required embedment in the anchor. Splicing of the sign post shall NOT be allowed. For installations in soil, Type I steel posts shall be mounted on either a standard anchor, with soil stabilizer plate, or on a Type D breakaway sign support. Refer to Sheeting Sign Detail Sheet 1 of 2 for installation details for a standard anchor with soil stabilizer plate. When installing a standard anchor with soil stabilizer plate, if solid rock is encountered, the Contractor shall drill a hole to the required depth into the rock, install the anchor into the hole, and backfill the anchor post with concrete, or other method approved by the Engineer. The cost shall be incidental to Type I steel post, and a soil stabilizer plate will not be required. Refer to Standard Drawing RGX-065, current edition, for installation details of Type D breakaway sign supports. Approved manufacturers for Type D breakaway sign supports have been placed on the list of approved materials. For installations to be installed on sufficiently cured existing concrete, such as a sidewalk, concrete median, etc., Type I steel posts shall be mounted on a Type D Surface Mount. For Type D Surface Mounts use only Redi-Torque Model 280 Surface Mount Slip Base Assembly (part number SMSB) by Xcessories Squared of Auburn, IL. Prior to installation, the Contractor shall submit to the Engineer shop drawings of the Type D Surface Mount. Install the Type D Surface Mount according to all the applicable requirements of the manufacturer (see shop drawings). During installation of the Type D Surface Mount, if the existing concrete surface is not flat (i.e. has a slope), galvanized metal shims may be required to ensure the surface mount base is level and plumb. If a Type D breakaway sign support is specified for a location that has an asphalt surface, the Contractor shall install the Type D breakaway sign support detailed on Standard Drawing RGX-065, current edition. All steel post shall meet the requirements of Section 832. All hardware including, but not limited to, sign post anchors, soil stabilizer plates, nuts, bolts, washers, fasteners, fittings, shims, and bracing, or any other incidentals necessary to erect the signs shall be furnished by the Contractor and will be incidental to the work.

New concrete bases, posts, support anchors, signs, etc. are to be installed prior to dismantling any existing sign(s). The removal of existing signs, posts, and support anchors is to be performed concurrently with the installation of new signs, posts, and support anchors, under the same lane closure during the same work shift. Completely remove existing sign support anchors or remove them to a minimum depth of six (6) inches below existing ground line and backfill the disturbed area to the existing ground line.

When listed on the plans and/or summaries, fabricate Reflective Sign Post Panels from .080 gauge aluminum alloy 5052-H38 or 6061-T6, in accordance with ASTM B-209 and to the size(s) specified. Prepare the side of the aluminum sheet to receive the retroreflective background material according to the recommendations of the sheeting and retroreflective material manufacturer(s). Sheeting for the Reflective Sign Post Panels shall be the same Type and color as the sign installed on the post. Examples include:

- Red, fluorescent yellow, and fluorescent yellow-green (Type XI Sheeting)
- White and yellow (Type XI Sheeting)

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Reflective Sign Post Panels shall be 2 inches wide and will typically have a height of 60 inches for rural installations and typically have a height of 84 inches for urban installations. There will be certain instances where a proposed Reflective Sign Post Panel will have a height dimension less than 60 inches; typically, this will be when the bottom of the bottom-most sign is mounted lower than the standard 5 ft minimum mounting height (e.g. 3 ft or 4 ft mount heights). In those cases, the height of the Reflective Sign Post Panel is expected to closely match (within 1-2 inches) the distance between the top of the anchor or support to the bottom edge of the bottom-most sign. Reflective Sign Post Panels shall have three 3/8" holes (one hole in the top 3", one hole near the center, and one hole in the bottom 3") that align with the holes on the Type I steel post.

All manufactured sheeting signs shall be free of visual defects including, but not limited to: cracks, tears, ridges, humps, discoloration, etc., and defective signs shall be replaced at no additional cost to the Department.

All sign blanks shall be hole punched by the manufacturer for either horizontal or vertical installation. Attach all aluminum sheeting signs to square post with 3/8" all steel rivets and nylon washers. Use bracing as indicated on the plans, summaries, and/or standard signing detail sheets, and/or when directed by the Engineer and/or District Traffic Engineer.

All sign posts shall be attached to anchors with 5/16" corner bolts and 5/16" flanged nuts, and all post and anchor cuts shall be treated with a Cold Galvanizing Compound spray.

Sign posts shall be erected vertically by using a bubble level. The tolerance shall be a two (2) degree angle in any direction. For locations where more than one sign is mounted beside each other, the posts shall be spaced to provide approximately six inches (6") of spacing between signs.

- E. Remove & Relocate Sheet Signs.** When listed on the plans and/or summaries, and/or as directed by the Engineer and/or District Traffic Engineer, remove the specified existing sheet sign(s) from the existing post(s) and reinstall on a new sign post. Once the specified existing sheet sign(s) have been removed and relocated, and if the existing sign post(s) are no longer needed to support other existing signs, removal of the existing sign post(s) will be paid under the bid item REMOVE SIGN. If any of the existing hardware components (bracing, brackets, bolts, rivets, etc.) are found to have pre-existing damage or are damaged during the Contractor's removal and reinstallation efforts, the Contractor shall provide the necessary replacement hardware for proper re-installation of the sheet sign. These components shall be incidental to the bid item REMOVE AND RELOCATE SHEET SIGNS.

Prior to removing and reinstalling a sheet sign, the Contractor shall first review the existing sheet sign for damage. It is the Contractor's responsibility to notify the Engineer of any existing sheet sign damage prior to removal and relocation of the sheet sign, so that it can be documented that the existing sheet sign had pre-existing damage. If the Contractor does not make the Engineer aware of pre-existing damage prior to detaching the sheet sign from its existing post, the Department will assume the damage was the result of the Contractor's removal and reinstallation efforts. The Contractor shall replace any sheet signs that are damaged during the removal and reinstallation efforts. Replacement of sheet signs damaged by the Contractor shall be incidental to the bid item REMOVE AND RELOCATE SHEET SIGNS.

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If the existing sheet sign is found to have pre-existing damage, the Department will provide the Contractor with a new sheet sign to replace the sheet sign with pre-existing damage. Detaching the existing, damaged sheet sign from the existing post and attaching the new, Department-provided sheet sign to the new sign post shall be incidental to the bid item REMOVE AND RELOCATE SHEET SIGNS.

- F. Remove & Relocate Sign Assemblies.** When listed on the plans and/or summaries, and/or as directed by the Engineer and/or District Traffic Engineer, remove the specified existing sign assemblies from the existing location and reinstall in a new location. The Department will consider all signs attached to one or more connected posts as a single sign assembly, no matter how many signs are attached to the existing sign assembly. If any of the existing hardware components (bracing, brackets, bolts, rivets, etc.) are found to have pre-existing damage or are damaged during the Contractor's removal and reinstallation efforts, the Contractor shall provide the necessary replacement hardware for proper re-installation of the sign assembly. These components shall be incidental to the bid item REMOVE AND RELOCATE SIGN ASSEMBLY.

Prior to removing and relocating a sign assembly, the Contractor shall review the existing sign(s) and sign post(s) for damage. It is the Contractor's responsibility to notify the Engineer of any sign or sign post damage prior to removal and relocation of the sign assembly, so that it can be documented that the existing sign and/or sign post had pre-existing damage. If the Contractor does not make the Department aware of pre-existing damage prior to removing a sign assembly from its existing location, the Department will assume the damage was the result of the Contractor's removal and reinstallation efforts. The Contractor shall replace any components of a sign assembly that are damaged during removal and relocation. Replacement of any components damaged by the Contractor shall be incidental to the bid item REMOVE AND RELOCATE SIGN ASSEMBLY.

If an existing sign that is part of a sign assembly to be removed and relocated is found to have pre-existing damage, the Department will provide the Contractor with a new sign to replace the sign with pre-existing damage. Detaching the existing, damaged sign from the existing post and attaching the new, Department-provided sign to the relocated existing post shall be incidental to the bid item REMOVE AND RELOCATE SIGN ASSEMBLY.

If an existing sign assembly that is to be removed and relocated is found to not have an existing soil stabilizer plate, or if the soil stabilizer plate and/or anchor is damaged during removal, then a new soil stabilizer plate and/or anchor shall be provided by the Contractor and shall be incidental to the bid item REMOVE AND RELOCATE SIGN ASSEMBLY.

If an existing sign assembly that is being relocated is not currently mounted on a Type D breakaway sign support, but the plans and/or summaries indicate, or wind load standards dictate, a Type D breakaway sign support or a Type D Surface Mount is required, provide and install the specified Type D support as part of the removal and reinstallation efforts. Type D breakaway sign supports shall be paid under the bid item GMSS TYPE D and Type D Surface Mount supports shall be paid under the bid item GMSS TYPE D (SURFACE MOUNT).

If an existing sign that is being relocated is found to have pre-existing damage to one or more of the sign post, the Department will NOT utilize the bid item REMOVE AND RELOCATE SIGN ASSEMBLY for removing and relocating such a sign assembly. Instead, the Department will require the Contractor

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to install a new sign post(s) at the new location, and pay for the new post(s) under the bid item STEEL POST TYPE I. Detaching the existing sign(s) from the existing, damaged post(s) and attaching the existing sign(s) to the new sign post(s) shall be incidental to the bid item STEEL POST TYPE I. Any hardware that is needed to complete the installation shall also be incidental to the bid item STEEL POST TYPE I. Removal of the existing damaged post(s) and any other sign components not needed will be paid under the bid item REMOVE SIGN.

- G. Property Damage.** The Contractor shall be responsible for all damage to public and/or private property resulting from the Contractor's activities. Repair or replace damaged roadway features in like kind materials and design as directed by the Engineer at no additional cost to the Department. Repair or replace damaged private property in like kind materials and design to the satisfaction of the owner and the Engineer at no additional cost to the Department.
- H. Coordination with Utility Companies.** Locate all underground, above ground, and overhead utilities prior to beginning construction. Be responsible for contacting and maintaining liaison with all utility companies that have utilities located within the project limits. Do not disturb existing overhead or underground utilities. It is not anticipated that any utility facilities will need to be relocated and/or adjusted; however, in the event that it is discovered that the work does require that utilities be relocated and/or adjusted, the utility companies will work concurrently with the Contractor while relocating their facilities. Be responsible for repairing all utility damage that occurs due to the Contractor's operations at no additional cost to the Department. NOTIFY THE ENGINEER AND THE UTILITY OWNER(S) IMMEDIATELY WHEN IT IS DISCOVERED OR ANTICIPATED THAT ANY UTILITY CONFLICT COULD DELAY THE CONTRACTOR'S OPERATIONS. If the total delay exceeds ten working days, an extension of the specified completion date will be negotiated with the Contractor for delay to the Contractor's work; however, no extension will be granted for any delay caused by the Contractor's failure to notify the Engineer and/or the utility company as specified above when a conflict is discovered or anticipated as specified.
- I. Caution.** The information in this proposal and the type of work listed herein are approximate only and are not to be taken as an exact evaluation of the materials and conditions to be encountered during construction; the bidder must draw his/her own conclusions when developing the Unit Bid Prices for each bid item. As such, if the conditions encountered are not in accordance with the information shown, the Department does not guarantee any changes to the Unit Bid Prices nor extension of the contract will be considered. The Department will pay for bid item quantity overruns, but only if pre-approved by the Engineer.
- J. Control.** Perform all work under the absolute control of the Department. Obtain the Engineer's approval of all designs required to be furnished by the Contractor prior to incorporation into the work. The Department reserves the right to have other work performed by other contractors and its own forces, and to permit public utility companies and others to do work during the construction within the limits of, or adjacent to, the project. Conduct operations and cooperate with such other parties so that interference with such other work will be reduced to a minimum. The Department will not honor any claims for money or time extension created by the operations of such other parties.

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Should a difference of opinion arise as to the rights of the Contractor and others working within the limits of, or adjacent to, the project, the Engineer will decide as to the respective rights of the various parties involved in order to assure the completion of the Department's work in general harmony and in a satisfactory manner, and the Engineer's decision shall be final and binding upon the Contractor.

- K. Clean Up, Disposal of Waste.** Clean up the project area as work progresses. Dispose of all removed concrete, debris, and other waste as per Section 204.03.08. The Department will incur no cost to obtain the disposal sites. The Department will NOT make direct payment for disposal of waste and debris from the project. Existing anchors, signs, posts, and any other hardware or material removed from the site are to become the property of the Contractor. See Special Provision for Waste and Borrow Sites.
- L. Final Dressing, Seeding and Protection.** Grade all disturbed areas to blend with the adjacent roadways features and to provide a suitable seed bed. Apply Class A Final Dressing to all disturbed areas, both on and off the Right-of-Way. Sow all disturbed earthen areas with the applicable seed mixture(s) according to Section 212.03.03.
- M. Erosion Control.** See Special Note for Erosion Control.

IV. METHOD OF MEASUREMENT

- A. Maintain and Control Traffic.** See Traffic Control Plan.
- B. Site Preparation.** Other than the bid items listed, the Department will NOT measure Site Preparation for payment, but shall be incidental to the project bid items.
- C. Signs and Reflective Sign Post Panels.** The Department will measure the finished in-place area of signs in Square Feet.
- D. Sign Posts.** The Department will measure the finished in-place length of sign posts in Linear Feet, from the top of the anchor, or top of the sign support, to the top of the sign post. Laps, cutoffs, excess, and waste will NOT be measured for payment.
- E. Type D Breakaway Sign Supports.** The Department will measure Type D breakaway sign supports as Each support installed.
- F. Type D Surface Mounts.** The Department will measure Type D Surface Mounts as Each surface mount installed.
- G. Class A Concrete for Signs.** The Department will measure the Class A Concrete used in conjunction with Type D breakaway sign support installations in Cubic Yards. Any concrete that is required as backfill due to hitting rock during a standard installation shall be incidental to the bid item STEEL POST TYPE I, and soil stabilizers will not be required.

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- H. Clean Up, Disposal of Waste, Final Dressing, Seeding and Protection.** The Department will NOT measure for payment the following activities: Clean Up, Disposal of Waste, and Final Dressing. These activities shall be incidental. Seeding and Protection shall be measured according to Section 212.
- I. Erosion Control.** See Special Note for Erosion Control.
- J. Remove Sign.** The Department will consider all signs attached to one or more connected posts as a single sign. The Department will measure as Each sign assembly removed and NOT each individual sign removed.
- K. Remove & Relocate Sheet Signs.** The Department will measure sheet signs removed from an existing sign post and reinstalled on a new sign post as Each sheet sign removed and reinstalled. as indicated in the contract documents, or as directed by the Engineer. The new sign post shall be measured as indicated in paragraph D. of this section.
- L. Remove & Relocate Sign Assemblies.** The Department will consider all signs attached to one or more connected posts as a single sign assembly. When the contract documents indicate that an existing sign assembly is to be removed from its existing location and reinstalled in a new location, the Department will measure and pay for "Remove and Relocate Sign Assembly" as each sign assembly removed and relocated; NOT each individual sign removed and relocated.
- M. Items Provided by KYTC.** The Department will NOT measure for payment the installation of signs and/or surface mounts provided by KYTC. These activities shall be incidental to the bid item STEEL POST TYPE I.

V. BASIS OF PAYMENT

- A. Maintain and Control Traffic.** See Traffic Control Plan.
- B. Signs and Reflective Sign Post Panels.** The Department will make payment for the completed and accepted quantities under the bid item SBM ALUM SHEET SIGNS .125 IN or .080 IN. The Department will consider payment full compensation for all work and incidentals necessary to install the signs, as required by these notes and the details found elsewhere in the plans/proposal, at the locations indicated on the summary sheets, plans, and/or as directed by the Engineer.
- C. Sign Posts.** The Department will make payment for the completed and accepted quantities under the bid item STEEL POST TYPE I. The Department will consider payment full compensation for all work and incidentals necessary to install the sign posts as required by these notes and the details found elsewhere in the plans/proposal.
- D. Type D Breakaway Sign Supports.** The Department will make payment for the completed and accepted quantities under the bid item GMSS TYPE D. The Department will consider payment full compensation for all work and incidentals necessary to install the Type D breakaway sign supports as required by Standard Drawing RGX-065, current edition.

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- E. Type D Surface Mounts.** The Department will make payment for the completed and accepted quantities under the bid item GMSS TYPE D (SURFACE MOUNT). The Department will consider payment full compensation for all work and incidentals necessary to install the Type D surface mounts according to all applicable manufacturer requirements.
NOTE: The permissible Type D Surface Mount alternative is: Redi-Torque Model 280 Surface Mount Slip Base Assembly (part number SMSB) by Xcessories Squared of Auburn, IL.
- F. Class A Concrete for Signs.** The Department will make payment for the completed and accepted quantities, used in conjunction with Type D breakaway sign support installations, under the bid item CLASS A CONCRETE FOR SIGNS. The Department will consider payment full compensation for all work and incidentals necessary to install the concrete as required by Standard Drawing RGX-065, current edition.
- G. Remove Sign.** The Department will make payment for the completed and accepted quantities under the bid item REMOVE SIGN. The Department will consider payment full compensation for all work and incidentals necessary to remove the existing signs, posts, anchors, and any other sign material or hardware, from the locations indicated on the summary sheets, plans, and/or as directed by the Engineer.
- H. Remove & Relocate Sheet Signs.** The Department will make payment for the completed and accepted quantities under the bid item REMOVE AND RELOCATE SHEET SIGNS. Any hardware that is needed to complete the removal and reinstallation shall be incidental. The Department will consider payment full compensation for all work and incidentals necessary to remove and reinstall the existing sheet signs as indicated on the plans, summaries, and/or as directed by the Engineer.
- I. Remove & Relocate Sign Assemblies.** The Department will make payment for the completed and accepted quantities under the bid item REMOVE AND RELOCATE SIGN ASSEMBLY. Any hardware that is needed to complete the removal and reinstallation shall be incidental. The Department will consider payment full compensation for all work and incidentals necessary to remove and reinstall the existing sign assembly as indicated on the plans, summaries, and/or as directed by the Engineer.
- J. Erosion Control.** See Special Note for Erosion Control.

Special Note for Completion Date & Liquidated Damages

I. COMPLETION DATE

There is a fixed milestone completion date of September 30, 2025, in which all work except permanent signing and permanent pavement markings must be complete. The ultimate fixed completion date to have all work completed, including permanent signing and permanent pavement markings shall be November 15, 2025. Liquidated Damages for failure to complete the project on time will be assessed following Section 108.09.

II. LIQUIDATED DAMAGES

In addition to the requirements of Section 108.09, the Department will assess Liquidated Damages in the amount of **\$1,000** per hour for each hour, or fraction of an hour, for any and all lane closures that are in place beyond the time frame(s) noted in the Traffic Control Plan and approved by the Engineer.

Contrary to Section 108.09, Liquidated Damages will be assessed regardless of whether seasonal limitations prohibit the Contractor from performing work on the controlling operation.

Contrary to Section 108.09, Liquidated Damages will be assessed for the months of December through March.

All liquidated damages will be applied accumulatively.

All other applicable portions of Section 108 apply.

SPECIAL PROVISION FOR WASTE AND BORROW SITES

Obtain U.S. Army Corps of Engineer's approval before utilizing a waste or borrow site that involves "Waters of the United States". The Corps of Engineers defines "Waters of the United States" as perennial or intermittent streams, ponds or wetlands. The Corps of Engineers also considers ephemeral streams, typically dry except during rainfall but having a defined drainage channel, to be jurisdictional waters. Direct questions concerning any potential impacts to "Waters of the United States" to the attention of the appropriate District Office for the Corps of Engineers for a determination prior to disturbance. Be responsible for any fees associated with obtaining approval for waste and borrow sites from the U.S. Army Corps of Engineer or other appropriate regulatory agencies.

1-296 Waste & Borrow Sites
01/02/2012

SPECIAL NOTE FOR EXPERIMENTAL KYCT AND HAMBURG TESTING

1.0 General

1.1 Description. The KYCT (Kentucky Method for Cracking Test) and the Hamburg test results will help determine if the mixture is susceptible to cracking and rutting. During the experimental phase, data will be gathered and analyzed by the Department to determine the durability of the bituminous mixes. Additionally, the data will help the Department to create future performance-based specifications which will include the KYCT and Hamburg test methods.

2.0 Equipment

2.1 KYCT Testing Equipment. The Department will require a Marshall Test Press with digital recordation capabilities. Other CT testing equipment may be used for testing with prior approval by the Department.

2.2 Water Baths. One or more water baths will be required that can maintain a temperature of 77° +/- 1.8° F with a digital thermometer showing the water bath temperature. Also, one water bath shall have the ability to suspend gyratory specimen fully submerged in water in accordance with AASHTO T-166, current edition.

2.3 Hamburg Wheel Track Testing. The department encourages the use of the PTI APA/Hamburg Jr. test equipment to perform the loaded wheel testing. The Department will allow different equipment for the Hamburg testing, but the testing device must be approved by the Department prior to testing.

2.4 Gyratory Molds. Gyratory molds will be required to assist in the production of gyratory specimens in accordance with AASHTO T-312, current edition.

2.5 Ovens. Adequate (minimum of two ovens) will be required to accommodate the additional molds and asphalt mixture necessary to perform the acceptance testing as outlined in Section 402 of the Kentucky Standard Specifications for Road and Bridge Construction, current edition.

2.6 Department Equipment. The Department will provide gyratory molds, PINE 850 Test Press with digital recordation, and CT testing equipment to assist during this experimental phase so data can be gathered. Hamburg test specimens will be submitted to the Division of Materials for testing on the PTI APA/Hamburg Jr if the asphalt contractor or district materials office does not have an approved Hamburg testing device.

3.0 Testing Requirements

3.1 Acceptance Testing. Perform all acceptance testing and aggregate gradation as according with Section 402 and Section 403 of the Kentucky Standard Specifications for Road and Bridge Construction, current edition.

3.2 KYCT Testing. Perform crack resistance analysis (KYCT) in accordance with the current Kentucky Method for KYCT Index Testing during the mix design phase and during the plant production of all surface mixtures. For mix design approvals, submit KYCT results on the Department MixPack. For Class 4 mixtures, submit ingredient materials to the Division of Materials for verification.

3.2.1 KYCT Frequency. Obtain an adequate sample of hot mix asphalt to ensure the acceptance testing, gradation, and KYCT gyratory samples can be fabricated and is representative of the bituminous mixture. Acceptance specimens shall be fabricated first, then immediately after, fabricate the KYCT samples with the gyratory compactor in accordance with Section 2.4 of this Special Note. Analysis of the KYCT specimens and gradation will be required one per subplot produced from the same asphalt material and at the same time as the acceptance specimen is sampled and tested.

3.2.2 Number of Specimens and Conditioning. Fabricate specimens in accordance with the Kentucky Method for KYCT Index Testing. Contrary to the method, for field specimens, fabricate a minimum of 3 and up to 6 test specimens. The specimens shall be compacted at the temperature in accordance with KM 64-411. KYCT mix design specimens shall be short-term conditioned uncovered for four hours at compaction temperature in accordance with KM 64-411. Contrary to the Kentucky Method, plant produced bituminous material shall be short-term conditioned immediately after sampling for two hours uncovered in the oven at compaction temperature in accordance with KM 64-411. Additionally, fabricated specimens shall be allowed to cool in air (fan is permissible) for 30 minutes +/- 5 minutes and conditioned in a 77 °F water bath for 30 minutes +/- 5 minutes. To ensure confidence and reliability of the test results provided by KYCT testing and Hamburg testing, reheating of the asphalt mixture is prohibited.

3.2.3 Record Times. For each subplot, record the time required between drying aggregates in the plant to KYCT specimen fabrication. The production time may vary due to the time that the bituminous material is held in the silo. Record the preconditioning time when the time exceeds the one-hour specimen cool down time as required in accordance with The Kentucky Method for KYCT Index Testing. The preconditioning time may exceed an hour if the technician is unable to complete the test on the same day or within the specified times as outlined in The Kentucky Method for KYCT Index Testing. The production time and the preconditioning time shall be recorded on the AMAW.

3.2.4 File Name. As according to section 7.12 of The Kentucky Method for KYCT Index Testing, save the filename with the following format: "CID_Approved Mix Number_Lot Number_Sublot Number_Date"

3.3 Hamburg Testing. Perform the rut resistance analysis (Hamburg) in accordance with AASTHO T-324, not to exceed 20,000 passes for all bituminous mixtures during the mix design phase and production. For mix design approvals, submit Hamburg results on the Department MixPack. For Class 4 mixtures, submit ingredient materials to the Division of Materials for informational verification.

3.3.1 Hamburg Testing Frequency. Perform testing and analysis per lot of material. The plant produced bituminous material sampled for the Hamburg test does not have to be obtained at the same time as the acceptance and KYCT sample. If the Hamburg test sample is not obtained at the same time as the KYCT sample, determine the Maximum Specific Gravity of the KYCT sample in accordance with AASHTO T-209 coinciding with the Hamburg specimens.

3.3.2 Record Times. Record the production time as according to section 3.2.3 in this special note. Also record the time that the specimens were fabricated and the time the Hamburg testing was started. All times shall be recorded on the AMAW.

3.3.3 File Name. Save the Excel spreadsheet with the following file name; “Hamburg_CID_Approved Mix Number_Lot Number_Sublot Number_Date” and upload the file into the AMAW.

4.0 Data

Submit the AMAW and all test data that was obtained for acceptance, gradation, KYCT, and Hamburg testing within five working days once all testing has been completed for a lot to Central Materials Lab and the District Materials Engineer. Also, any data and or comments that the asphalt contractor or district personnel deem informational during this experimental phase, shall also be submitted to the Central Materials Lab and the District Materials Engineer. Any questions or comments regarding any item in this Special Note can be directed to the Central Office, Division of Materials, Asphalt Branch.

5.0 Payment

Any additional labor and testing equipment that is required to fabricate and test the KYCT and Hamburg specimens shall be considered incidental to the asphalt surface line item. The Department will perform the testing for the KYCT and Hamburg specimens if a producer does not possess the proper equipment.

June 15th, 2022

COORDINATION OF WORK WITH OTHER CONTRACTS

Be advised, there may be an active project(s) adjacent to or within this project. The Engineer will coordinate the work of the Contractors. See Section 105.06.

1-3193 Coordination Contracts
01/02/2012

SPECIAL NOTE FOR DOUBLE ASPHALT SEAL COAT

Use RS-2 or RS-2C asphalt material that is compatible with the seal aggregate. Apply the first course of asphalt seal coat at the rate of 3.2 lbs/sy of asphalt and 30 lbs/sy of size #78 seal coat aggregate. Apply the second course at 2.8 lbs/sy of asphalt and 20 lbs/sy of size #9M seal coat aggregate. The Engineer may adjust the rate of application as conditions warrant. Use caution in applying liquid asphalt material to avoid over spray getting on curbs, gutter, barrier walls, bridges, guardrail, and other roadway appurtenances.

The Department will not measure any surface preparation required prior to applying the asphalt seal coat, but shall be incidental to “Asphalt Material for Asphalt Seal Coat”.

1-3215 Double Asphalt Seal Coat
01/02/2012

Special Note for Guardrail

I. DESCRIPTION

Except as specified herein, perform all work in accordance with the Department's Standard and Supplemental Specifications, Special Notes and Special Provisions, and the Standard and Sepia Drawings, current editions. Article references are to the Standard Specifications. Furnish all equipment, labor, materials, and incidentals for the following work items:

(1) Site preparation; (2) Remove existing guardrail systems; (3) Construct Guardrail, End Treatments, Bridge End Connectors, and Terminal Sections, as applicable; (4) Delineators for guardrail; (5) Maintain and Control Traffic; and (6) all other work specified as part of this contract.

II. MATERIALS

Except as specified herein, provide for all materials to be sampled and tested in accordance with the Department's Sampling Manual and make the materials available for sampling a sufficient time in advance of the use of the materials to allow for the necessary time for testing.

- A. Maintain and Control Traffic.** See Traffic Control Plan.
- B. Guardrail.** Furnish guardrail system components according to Section 814 and the Standard and Sepia Drawings; except use steel posts only, no alternates.
- C. Delineators for Guardrail.** Furnish white and/or yellow Delineators for Guardrail according to Standard Drawing RBR-055 – Delineators for Guardrail, current edition.
- D. Erosion Control.** See the Special Note for Erosion Control.

III. CONSTRUCTION METHODS

- A. Maintain and Control Traffic.** See Traffic Control Plan.
- B. Site Preparation.** Remove existing guardrail system, including the guardrail end treatments, Bridge End connectors and all other elements of the existing guardrail system as per Section 719, except that the Contractor will take possession of all concrete posts and all concrete associated with the existing bridge and/or guardrail end treatments. Locate all disposal areas off the Right of Way. Be responsible for all site preparation, including but not limited to, clearing and grubbing, excavation, embankment, and removal of all obstructions or any other items; regrading, reshaping, adding and compacting of suitable materials on the existing shoulders to provide proper template or foundation for the guardrail; filling voids left as the result of removing existing guardrail and guard posts with dry sand; temporary pollution and erosion control; disposal of excess, waste materials, and debris; and final dressing, cleanup, and seeding and protection. Perform all site preparation as

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approved or directed by the engineer.

- C. Guardrail.** Except as specified herein, construct guardrail system according to Section 719 and the Standard and Sepia Drawings, current editions. Locations listed on the summary and/or shown on the drawings are approximate only. The Engineer will determine the exact termini for individual guardrail installations at the time of construction. Unless directed otherwise by the Engineer, provide a minimum two (2) foot shoulder width. Construct radii at entrances and road intersections as directed by the Engineer.

Erect guardrail to the lines and grades shown on the current Standard and Sepia Drawings, or as directed by the Engineer by any method approved by the Engineer which allows construction of the guardrail to the true grade without apparent sags.

When removing existing guardrail and installing new guardrail, do not leave the blunt end exposed where it would be hazardous to the public. When it is not practical to complete the construction of the guardrail and the permanent end treatments and terminal sections first, provide a temporary end by connecting at least 25 feet of rail to the last post, and by slightly flaring, and burying the end of the rail completely into the existing shoulder. If left overnight, place a drum with bridge panel in advance of the guardrail end and maintain during use.

- D. Delineators for Guardrail.** Construct Delineators for Guardrail according to Standard Drawing RBR-055 – Delineators for Guardrail, current edition.
- E. Property Damage.** Be responsible for all damage to public and/or private property resulting from the work. Restore damaged roadway features and private property at no additional cost to the Department.
- F. Coordination with Utility Companies.** Locate all underground, above ground, and overhead utilities prior to beginning construction. Be responsible for contacting and maintaining liaison with all utility companies that have utilities located within the project limits. Do not disturb existing overhead or underground utilities. It is not anticipated that any utility facilities will need to be relocated and/or adjusted; however, in the event that it is discovered that the work does require utilities to be relocated and/or adjusted, the utility companies will work concurrently with the Contractor while relocating their facilities. Be responsible for repairing all utility damage that occurs as a result of guardrail operations at no additional cost to the Department.
- G. Right of Way Limits.** The Department has not established the exact limits of the Right-of-Way. Limit work activities to obvious Right-of-Way, permanent or temporary easements, and work areas secured by the Department through consent and release of the adjacent property owners. Be responsible for all encroachments onto private lands.
- H. Clean Up, Disposal of Waste.** Dispose of all removed concrete, debris, and other waste and debris off the Right-of-Way at sites obtained by the Contractor at no additional cost to the Department. See the Special Provision for Waste and Borrow Sites.

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Page 3 of 3

- I. **Final Dressing, Seeding and Protection.** Apply Class A Final Dressing to all disturbed areas, both on and off the Right-of-Way. Sow all disturbed earthen areas with the applicable seed mixture(s) according to Section 212.03.03.
- J. **Erosion Control.** See the Special Note for Erosion Control.

IV. METHOD OF MEASUREMENT

- A. **Maintain and Control Traffic.** See Traffic Control Plan.
- B. **Site preparation.** Other than the bid items listed, the Department will not measure Site Preparation for separate payment but shall be incidental to the Guardrail, End Treatments, Bridge End Connectors, and Terminal Sections, as applicable.
- C. **Guardrail, End Treatments, Bridge End Connectors, Terminal Sections, and Remove Guardrail.** The Department will measure according to Section 719.04.
- D. **Delineators for Guardrail.** See Standard Drawing RBR-055 – Delineators for Guardrail.
- E. **Clean Up, Disposal of Waste, Final Dressing, and Seeding and Protection.** The Department will NOT measure for payment the operations of: Clean Up, Disposal of Waste, and Final Dressing. These activities shall be incidental. Seeding and Protection will be measured according to Section 212.
- F. **Erosion Control.** See the Special Note for Erosion Control.

V. BASIS OF PAYMENT

- A. **Maintain and Control Traffic.** See Traffic Control Plan.
- B. **Guardrail, End Treatments, Bridge End Connectors, Terminal Sections, and Remove Guardrail.** The Department will make payment according to Section 719.05.
- C. **Delineators for Guardrail.** See Standard Drawing RBR-055 – Delineators for Guardrail.
- D. **Erosion Control.** See the Special Note for Erosion Control.

**SPECIAL NOTE FOR
ASPHALT MILLING AND TEXTURING**

Begin paving operations within **48 hours** of commencement of the milling operation. Continue paving operations continuously until completed. If paving operations are not begun within this time period, the Department will assess liquidated damages at the rate prescribed by Section 108.09 until such time as paving operations are begun.

Take possession of the millings and recycle the millings or dispose of the millings off the Right-of-Way at sites obtained by the Contractor at no additional cost to the Department.

1-3520 48 hours Contractor keeps millings
01/2/2012

SPECIAL NOTE FOR TYPICAL SECTION DIMENSIONS

Consider the dimensions shown on the typical sections for pavement and shoulder widths and thickness' to be nominal or typical dimensions. The Engineer may direct or approve varying the actual dimensions to be constructed to fit existing conditions. Do not widen existing pavement or shoulders unless specified elsewhere in this proposal or directed by the engineer.

1-3725 Typical Section Dimensions
01/02/2012

TRAFFIC CONTROL PLAN

TRAFFIC CONTROL GENERAL

Except as provided herein, traffic shall be maintained in accordance with the current editions of the Manual on Uniform Traffic Control Devices (MUTCD), Standard Specifications, Supplemental Specifications, and the Standard and Sepia Drawings. Except for the roadway and traffic control bid items listed, all items of work necessary to maintain and control traffic shall be paid at the lump sum bid price to "Maintain and Control Traffic".

Contrary to Section 106.01, traffic control devices used on this project may be new, or used in like new condition, at the beginning of the work and maintained in like new condition until completion of the work. Any temporary traffic control items, devices, materials, and incidentals shall remain the property of the contractor unless otherwise addressed, when no longer needed.

PROJECT PHASING & CONSTRUCTION PROCEDURES

Take these restrictions into account in submitting bid. The Department will not consider any claims for money or grant contract time extensions for any delays to the Contractor as a result of these restrictions.

The following is a description of Construction Phasing for US 60 between Station 793+50 to Station 845+70. See the Maintenance of Traffic Plan Sheets for additional information.

Phase 1 - Construct Loons #1 - #4 and right turn widening RT STA. 796+90.62 to Hawes Blvd. STA 51+51.21 up to the final base course.

Phase 2 - Construct median full depth pavement for median U-turns, and left turn lanes up to the final base course. Construct lighting and signing needed for phase 3.

Phase 3 - Directing traffic to median U-turns, construct standard barrier medians. Complete signing and lighting not previously completed.

Phase 4 - Complete asphalt milling and overlay and final striping.

Along US 60, the Contractor shall maintain two-lanes of travel in each direction with a minimum lane width of 11 feet. However, during working hours and with the approval of the Engineer, the Contractor may reduce the travel way to one-lane in each direction, provided proposer lane closure(s) are in place according to Standard Drawings. Provide a minimum clear lane width of 11 feet; however, provide for passage of vehicles of up to 16 feet in width.

Along Hawes Blvd. and Wrights Landing Road, maintain one lane of traffic in each direction. However, during working hours and with the approval of the Engineer, the Contractor may close one lane and maintain alternating one way traffic, provided adequate signing and flag persons are in place.

If traffic should be stopped due to construction operations, and a school bus or emergency vehicle on an official run arrives on the scene, make provisions for the passage of the school bus or emergency vehicle as quickly as possible.

Unless otherwise approved by the Engineer, no lane closures will be allowed during the following times:

Christmas Holiday	7 am Tuesday, December 24, 2024 – 8 pm Wednesday, December 25, 2024
New Year’s Day Holiday	7 am Tuesday, December 31, 2024 – 8 pm Wednesday, January 1, 2025
Easter Weekend	3 pm Friday, April 18, 2025 – 8 pm Sunday, April 20, 2025
Memorial Day Weekend	3 pm Friday, May 23, 2025 – 8 pm Monday, May 26, 2025
Independence Day	7 am Friday, July 4, 2025 – 8 pm Sunday, July 6, 2025
Labor Day Weekend	3 pm Friday, August 29, 2025 – 8 pm Monday, September 1, 2025

At the discretion of the Engineer, additional days and hours may be specified when lane closures will not be allowed.

The Department will provide public notification regarding lane closures. The Contractor shall submit proposed lane closure days and times to the Engineer at least 14 calendar days in advance for approval. Liquidated Damages will be assessed for each hour or fraction of an hour that a lane closure is in place outside of an approved time period. See the Special Notes for Completion Dates & Liquidated Damages for details on the Liquidated Damages amount.

LANE CLOSURES

Do not leave lane closures in place during prohibited periods. Except for the items noted under Construction Phasing, do not leave lane closures in place during non-working hours, unless otherwise approved by the Engineer. Contrary to Section 112.04.17, long-term lane closures will not be measured for payment, but shall be incidental to Maintain and Control Traffic

The Contractor shall be required to remove all long-term lane closures after three consecutive calendar days of inactivity on the project, unless approved otherwise by the Engineer. Once notified by the Engineer that a long-term lane closure must be removed due to inactivity, the Contractor shall have 12 hours to remove the long-term lane closure; otherwise, liquidated damages of \$1,000 per hour or any fraction of an hour shall apply. The Department will not make any payment to the Contractor for the removal or the reinstallation of a long-term lane closure other than the initial payment of the initial lane closure installation. If the Contractor is required to remove a long-term lane closure, the roadway must be returned to a condition that satisfies the Pavement Edge Drop-Off requirements noted below.

TRUCK MOUNTED ATTENUATORS

If traffic lanes are closed without the use of temporary barrier wall, use Truck Mounted Attenuators. Furnish and install Truck Mounted Attenuators in advance of work areas when workers will be within 20 feet from traffic. If there is less than 500 feet between work sites, only a single TMA will be required. The TMAs shall be located at the individual work sites and shall be moved as the work zone moves within the project limits. All details of the TMA installations are to follow manufacture recommendations and approved by the Engineer. Truck Mounted Attenuators shall be incidental to Maintain and Control Traffic.

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TEMPORARY SIGNS

Temporary signposts and splices shall be compliant with NCHRP 350 or MASH. Manufacturer's documentation validating this compliance shall be provided to the Engineer prior to installation. Temporary signs, including any splices, shall be installed according to manufacturer's specifications and installation recommendations. Contrary to section 112.04.02, only long-term temporary signs (temporary signs intended to be continuously in place for more than 3 days) will be measured for payment. Short-term temporary signs (temporary signs intended to be left in place for 3 days or less) will not be measured for payment but will be incidental to Maintain and Control Traffic.

CHANGEABLE MESSAGE SIGNS

Provide changeable message signs in advance of and within the project at locations determined by the Engineer. If work is in progress concurrently in both directions or if more than one lane closure is in place in the same direction of travel, provide additional changeable message signs as directed by the Engineer. Place changeable message signs approximately one mile in advance of the anticipated queue at each lane closure. As the actual queue lengthens and/or shortens, relocate or provide additional changeable message signs so that traffic has warning of slowed or stopped traffic at least one mile but not more than two miles before reaching the end of the actual queue. The Engineer may vary the designated locations as the work progresses. The Engineer will determine the messages to be displayed. In the event of damage or mechanical/electrical failure, repair or replace the Changeable Message Sign. If the damage or mechanical/electrical failure is identified during active work operations, repair or replace the Changeable Message Sign within 6 hours. If the damage or mechanical/electrical failure is identified when there are no active work operations on the project, repair or replace the Changeable Message Sign within 12 hours. The Department will measure for payment the maximum number of Changeable Message Signs in concurrent use at the same time on a single day on all sections of the contract. The Department will measure individual Changeable Message Signs only once for payment, regardless of how many times they are set, reset, removed, and/or relocated during the duration of the project. The Department will not measure for payment any replacements for damaged Changeable Message Signs or any changeable message signs the Engineer directs to be replaced due to poor condition or readability. Retain possession of the Changeable Message Signs upon completion of the work.

ARROW PANELS

Use arrow panels as shown on the Standard Drawings or as directed by the Engineer. The Department will measure for payment the maximum number of arrow panels in concurrent use at the same time on a single day on all sections of the contract. The Department will measure individual Arrow Panels only once for payment, regardless of how many times they are set, reset, removed, and relocated during the duration of the project. The Department will not measure replacements for damaged Arrow Panels or for panels signs the Engineer directs be replaced due to poor condition or readability for payment. Retain possession of the Arrow Panels upon completion of the work.

BARRICADES

The Department will not measure barricades used in lieu of barrels and cones for channelization or delineation but shall be incidental to Maintain and Control Traffic according to Section 112.04.01.

TEMPORARY ENTRANCES

The Engineer will not require the Contractor to provide continuous access to farms, single family, duplex, or triplex residential properties during working hours; however, provide reasonable egress and ingress to each such property when actual operations are not in progress at that location. Limit the time during which a farm or residential entrance is blocked to the minimum length of time required for actual operations, not extended for the Contractor's convenience, and in no case exceeding six (6) hours. Notify all residents twenty-four hours in advance of any driveway or entrance closings and make any accommodations necessary to meet the access needs of disabled residents.

Except as allowed by the Phasing as specified above, maintain direct access to all side streets and roads, schools, churches, commercial properties, and apartments or apartment complexes of four or more units at all times. Access to fire hydrants must also be maintained at all times

THERMOPLASTIC INTERSECTION MARKINGS

Consider the locations listed on the summary and/or shown on the plan sheets as approximate only. Prior to milling and/or resurfacing, locate and document the locations of the existing markings. After final surfacing operations, replace the markings at their approximate existing locations, as shown on the plan sheets, or as directed by the Engineer. Place markings not existing prior to resurfacing as shown on the plan sheets or as directed by the Engineer.

PAVEMENT MARKINGS

If there is to be a deviation from the existing striping plan, the Engineer will furnish the Contractor a striping plan prior to placement of the final surface course. Install Temporary Striping according to Section 112 with the following exception:

If the Contractor's operations or phasing requires temporary markings that must subsequently be removed from the final surface course, use an approved removable lane tape; however, the Department will not measure removable lane tape for separate payment, but will measure and pay for removable lane tape as temporary striping.

PAVEMENT EDGE DROP-OFFS

Do not allow a pavement edge between opposing directions of traffic or lanes that traffic is expected to cross in a lane change situation with an elevation difference greater than 1½". Place Warning signs (MUTCD W8-11 or W8-9A) in advance of and at 1500' intervals throughout the drop-off area. Dual post the signs on both sides of the traveled way. Wedge all transverse transitions between resurfaced and un-resurfaced areas which traffic may cross with asphalt mixture for leveling and wedging. Remove the wedges prior to placement of the final surface course.

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Protect pavement edges that traffic is not expected to cross, except accidentally, as follows:

Less than 2" - No protection required.

2" to 4" - Place plastic drums, vertical panels, or barricades every 50 feet. During daylight working hours only, the Engineer will allow the Contractor to use cones in lieu of plastic drums, panels, and barricades. Wedge the drop-off with DGA or asphalt mixture for leveling and wedging with a 1:1 or flatter slope in daylight hours, or 3:1 or flatter slope during nighttime hours, when work is not active in the drop-off area.

Greater than 4" - Protect drop-offs greater than 4 inches within 10 feet of traffic by placing drums, vertical panels, or barricades every 25 feet. The Engineer will not allow the use of cones in lieu of drums, vertical panels, or barricades for drop-offs greater than 4". Place Type III Barricades directly in front of the drop-off facing oncoming traffic in both directions of travel. Provide warning signs as shown on the Standard Drawings or as directed by the Engineer

Pedestrians & Bicycles - Protect pedestrian and bicycle traffic as directed by the Engineer.

USE AND PLACEMENT OF CHANGEABLE MESSAGE SIGNS

The following policy is based upon current Changeable Message Signs (CMS) standards and practice from many sources, including the Federal Highway Administration (FHWA), other State Departments of Transportation, and Traffic Safety Associations. It is understood that each CMS installation or use requires individual consideration due to the specific location or purpose. However, there will be elements that are constant in nearly all applications. Accordingly, these recommended guidelines bring a level of uniformity, while still being open to regional experience and engineering judgment.

Application

The primary purpose of CMS is to advise the driver of unexpected traffic and routing situations. Examples of applications where CMS can be effective include:

- Closures (road, lane, bridge, ramp, shoulder, interstate)
- Changes in alignment or surface conditions
- Significant delays, congestion
- Construction/maintenance activities (delays, future activities)
- Detours/alternative routes
- Special events with traffic and safety implications
- Crash/incidents
- Vehicle restrictions (width, height, weight, flammable)
- Advance notice of new traffic control devices
- Real-time traffic conditions (must be kept up to date)
- Weather /driving conditions, environmental conditions, Roadway Weather Information Systems
- Emergency Situations
- Referral to Highway Advisory Radio (if available)
- Messages as approved by the County Engineer's Office

CMS should not be used for:

- Replacement of static signs (e.g. ROAD WORK AHEAD), regulatory signage (e.g. speed limits), pavement markings, standard traffic control devices, conventional warning or guide signs.
- Replacement of lighted arrow board
- Advertising (Don't advertise the event unless clarifying "action" to be taken by driver – e.g. Speedway traffic next exit)
- Generic messages
- Test messages (portable signs only)
- Describe recurrent congestion (e.g. rush hour)
- Public service announcements (not traffic related)

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Messages

Basic principles that are important to providing proper messages and ensuring the proper operation of a CMS are:

- Visible for at least ½ mile under ideal daytime and nighttime conditions
- Legible from all lanes a minimum of 650 feet
- Entire message readable twice while traveling at the posted speed
- No more than two message panels should be used (three panels may be used on roadways where vehicles are traveling less than 45 mph). A panel is the message that fits on the face of the sign without flipping or scrolling.
- Each panel should convey a single thought; short and concise
- Do not use two unrelated panels on a sign
- Do not use the sign for two unrelated messages
- Should not scroll text horizontally or vertically
- Should not contain both the words left and right
- Use standardized abbreviations and messages
- Should be accurate and timely
- Avoid filler/unnecessary words and periods (hazardous, a, an, the)
- Avoid use of speed limits
- Use words (not numbers) for dates

Placement

Placement of the CMS is important to ensure that the sign is visible to the driver and provides ample time to take any necessary action. Some of the following principles may only be applicable to controlled access roadways. The basic principles of placement for a CMS are:

- When 2 signs are needed, place on same side of roadway and at least 1,000 feet apart
- Place behind semi-rigid/rigid protection (guardrail, barrier) or outside of the clear zone
- Place 1,000 feet in advance of work zone; at least one mile ahead of decision point
- Normally place on right side of roadway; but should be placed closest to the affected lane so that either side is acceptable
- Signs should not be dual mounted (one on each side of roadway facing same direction)
- Point trailer hitch downstream
- Secure to immovable object to prevent theft (if necessary)
- Do not place in sags or just beyond crest
- Check for reflection of sun to prevent the blinding of motorist
- Should be turned ~3 degrees outward from perpendicular to the edge of pavement
- Bottom of sign should be 7 feet above the elevation of edge of roadway
- Should be removed when not in use

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Standard Abbreviations

The following is a list of standard abbreviations to be used on CMS:

<u>Word</u>	<u>Abbrev</u>	<u>Example</u>
Access	ACCS	CRASH AHEAD/ USE ACCS RD NEXT RIGHT
Alternate	ALT	CRASH AHEAD/ USE ALT RTE NEXT RIGHT
Avenue	AVE	FIFTH AVE CLOSED/ DETOUR NEXT LEFT
Blocked	BLKD	FIFTH AVE BLKD/ MERGE LEFT
Boulevard	BLVD	MAIN BLVD CLOSED/ USE ALT RTE
Bridge	BRDG	SMITH BRDG CLOSED/ USE ALT RTE
Cardinal Directions	N, S, E, W	N I75 CLOSED/ DETOUR EXIT 30
Center	CNTR	CNTR LANE CLOSED/ MERGE LEFT
Commercial	COMM	OVRSZ COMM VEH/ USE I275
Condition	COND	ICY COND POSSIBLE
Congested	CONG	HVY CONG NEXT 3 MI
Construction	CONST	CONST WORK AHEAD/ EXPECT DELAYS
Downtown	DWNTN	DWNTN TRAF USE EX 40
Eastbound	E-BND	E-BND I64 CLOSED/ DETOUR EXIT 20
Emergency	EMER	EMER VEH AHEAD/ PREPARE TO STOP
Entrance, Enter	EX, EXT	DWNTN TRAF USE EX 40
Expressway	EXPWY	WTRSN EXPWY CLOSED/ DETOUR EXIT 10
Freeway	FRWY, FWY	GN SYNDR FWY CLOSED/ DETOUR EXIT 15
Hazardous Materials	HAZMAT	HAZMAT IN ROADWAY/ ALL TRAF EXIT 25
Highway	HWY	CRASH ON AA HWY/ EXPECT DELAYS
Hour	HR	CRASH ON AA HWY/ 2 HR DELAY
Information	INFO	TRAF INFO TUNE TO 1240 AM
Interstate	I	E-BND I64 CLOSED/ DETOUR EXIT 20
Lane	LN	LN CLOSED MERGE LEFT
Left	LFT	LANE CLOSED MERGE LFT
Local	LOC	LOC TRAF USE ALT RTE
Maintenance	MAINT	MAINT WRK ON BRDG/ SLOW
Major	MAJ	MAJ DELAYS I75/ USE ALT RTE
Mile	MI	CRASH 3 MI AHEAD/ USE ALT RTE
Minor	MNR	CRASH 3 MI MNR DELAY
Minutes	MIN	CRASH 3 MI/ 30 MIN DELAY
Northbound	N-BND	N-BND I75 CLOSED/ DETOUR EXIT 50
Oversized	OVRSZ	OVRSZ COMM VEH/ USE I275 NEXT RIGHT
Parking	PKING	EVENT PKING NEXT RGT
Parkway	PKWY	CUM PKWAY TRAF/ DETOUR EXIT 60
Prepare	PREP	CRASH 3 MI/ PREP TO STOP
Right	RGT	EVENT PKING NEXT RGT
Road	RD	HAZMAT IN RD/ ALL TRAF EXIT 25
Roadwork	RDWK	RDWK NEXT 4 MI/ POSSIBLE DELAYS
Route	RTE	MAJ DELAYS I75/ USE ALT RTE
Shoulder	SHLDR	SHLDR CLOSED NEXT 5 MI
Slippery	SLIP	SLIP COND POSSIBLE/ SLOW SPD
Southbound	S-BND	S-BND I75 CLOSED/ DETOUR EXIT 50
Speed	SPD	SLIP COND POSSIBLE/ SLOW SPD

Traffic Control Plan
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Standard Abbreviations (cont.)

<u>Word</u>	<u>Abbrev</u>	<u>Example</u>
Street	ST	MAIN ST CLOSED/ USE ALT RTE
Traffic	TRAF	CUM PKWAY TRAF/ DETOUR EXIT 60
Vehicle	VEH	OVRSZ COMM VEH/ USE I275 NEXT RIGHT
Westbound	W-BND	W-BND I64 CLOSED/ DETOUR EXIT 50
Work	WRK	CONST WRK 2MI/ POSSIBLE DELAYS

Certain abbreviations are prone to inviting confusion because another word is abbreviated or could be abbreviated in the same way. DO NOT USE THESE ABBREVIATIONS:

<u>Abbrev</u>	<u>Intended Word</u>	<u>Word Erroneously Given</u>
ACC	Accident	Access (Road)
CLRS	Clears	Colors
DLY	Delay	Daily
FDR	Feeder	Federal
L	Left	Lane (merge)
LOC	Local	Location
LT	Light (traffic)	Left
PARK	Parking	Park
POLL	Pollution (index)	Poll
RED	Reduce	Red
STAD	Stadium	Standard
TEMP	Temporary	Temperature
WRNG	Warning	Wrong

Typical Messages

The following is a list of typical messages used on CMS. The list consists of the reason or problem that you want the driver to be aware of and the action that you want the driver to take.

<u>Reason/Problem</u>	<u>Action</u>
CRASH AHEAD	ALL TRAFFIC EXIT RT
CRASH/XX MILES	AVOID DELAY USE XX
XX ROAD CLOSED	CONSIDER ALT ROUTE
XX EXIT CLOSED	DETOUR
BRIDGE CLOSED	DETOUR XX MILES
BRIDGE/(SLIPPERY, ICE, ETC.)	DO NOT PASS
CENTER/LANE/CLOSED	EXPECT DELAYS
DELAY(S), MAJOR/DELAYS	FOLLOW ALT ROUTE
DEBRIS AHEAD	KEEP LEFT
DENSE FOG	KEEP RIGHT
DISABLED/VEHICLE	MERGE XX MILES
EMER/VEHICLES/ONLY	MERGE LEFT
EVENT PARKING	MERGE RIGHT
EXIT XX CLOSED	ONE-WAY TRAFFIC
FLAGGER XX MILES	PASS TO LEFT

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Typical Messages (cont.)

Reason/Problem	Action
FOG XX MILES	PASS TO RIGHT
FREEWAY CLOSED	PREPARE TO STOP
FRESH OIL	REDUCE SPEED
HAZMAT SPILL	SLOW
ICE	SLOW DOWN
INCIDENT AHEAD	STAY IN LANE
LANES (NARROW, SHIFT, MERGE, ETC.)	STOP AHEAD
LEFT LANE CLOSED	STOP XX MILES
LEFT LANE NARROWS	TUNE RADIO 1610 AM
LEFT 2 LANES CLOSED	USE NN ROAD
LEFT SHOULDER CLOSED	USE CENTER LANE
LOOSE GRAVEL	USE DETOUR ROUTE
MEDIAN WORK XX MILES	USE LEFT TURN LANE
MOVING WORK ZONE, WORKERS IN ROADWAY	USE NEXT EXIT
NEXT EXIT CLOSED	USE RIGHT LANE
NO OVERSIZED LOADS	WATCH FOR FLAGGER
NO PASSING	
NO SHOULDER	
ONE LANE BRIDGE	
PEOPLE CROSSING	
RAMP CLOSED	
RAMP (SLIPPERY, ICE, ETC.)	
RIGHT LANE CLOSED	
RIGHT LANE NARROWS	
RIGHT SHOULDER CLOSED	
ROAD CLOSED	
ROAD CLOSED XX MILES	
ROAD (SLIPPERY, ICE, ETC.)	
ROAD WORK	
ROAD WORK (OR CONSTRUCTION) (TONIGHT, TODAY, TOMORROW, DATE)	
ROAD WORK XX MILES	
SHOULDER (SLIPPERY, ICE, SOFT, BLOCKED, ETC.)	
NEW SIGNAL XX MILES	
SLOW 1 (OR 2) - WAY TRAFFIC	
SOFT SHOULDER	
STALLED VEHICLES AHEAD	
TRAFFIC BACKUP	
TRAFFIC SLOWS	
TRUCK CROSSING	
TRUCKS ENTERING	
TOW TRUCK AHEAD	
UNEVEN LANES	
WATER ON ROAD	
WET PAINT	
WORK ZONE XX MILES	
WORKERS AHEAD	



EXISTING
FILL SLOPE or
DITCH FORESLOPE

EXISTING
FILL SLOPE or
DITCH FORESLOPE

1. DETAILS DO NOT APPLY TO OVERLAYS LESS THAN 1 INCH THICK.
2. THE DURABLE PAVEMENT EDGE DEVICE MAY BE DISENGAGED AT DRIVEWAYS, SIDE STREETS, HIGH SHOULDERS, AND OTHER LOCATIONS NOT FEASIBLE TO CONSTRUCT, AS APPROVED BY THE ENGINEER.

DURABLE PAVEMENT EDGE DETAILS



KENTUCKY TRANSPORTATION CABINET

Department of Highways



DIVISION OF RIGHT OF WAY & UTILITIES

RIGHT OF WAY CERTIFICATION

TC 62-226

Rev. 01/2016

Page 1 of 1

<input checked="" type="checkbox"/>	Original	<input type="checkbox"/>	Re-Certification	RIGHT OF WAY CERTIFICATION	
ITEM #		COUNTY		PROJECT # (STATE)	PROJECT # (FEDERAL)
2-936.00		Daviness		FD52 030 0060 023-025	HSIP 0601(215)
PROJECT DESCRIPTION					
Convert intersections at US 60 at Hawes Blvd. and Wrights Landing Rd. to RCUTs.					
<input checked="" type="checkbox"/>	No Additional Right of Way Required				
Construction will be within the limits of the existing right of way. The right of way was acquired in accordance to FHWA regulations under the Uniform Relocation Assistance and Real Property Acquisitions Policy Act of 1970, as amended. No additional right of way or relocation assistance were required for this project.					
<input type="checkbox"/>	Condition # 1 (Additional Right of Way Required and Cleared)				
All necessary right of way, including control of access rights when applicable, have been acquired including legal and physical possession. Trial or appeal of cases may be pending in court but legal possession has been obtained. There may be some improvements remaining on the right-of-way, but all occupants have vacated the lands and improvements, and KYTC has physical possession and the rights to remove, salvage, or demolish all improvements and enter on all land. Just Compensation has been paid or deposited with the court. All relocations have been relocated to decent, safe, and sanitary housing or that KYTC has made available to displaced persons adequate replacement housing in accordance with the provisions of the current FHWA directive.					
<input type="checkbox"/>	Condition # 2 (Additional Right of Way Required with Exception)				
The right of way has not been fully acquired, the right to occupy and to use all rights-of-way required for the proper execution of the project has been acquired. Some parcels may be pending in court and on other parcels full legal possession has not been obtained, but right of entry has been obtained, the occupants of all lands and improvements have vacated, and KYTC has physical possession and right to remove, salvage, or demolish all improvements. Just Compensation has been paid or deposited with the court for most parcels. Just Compensation for all pending parcels will be paid or deposited with the court prior to AWARD of construction contract					
<input type="checkbox"/>	Condition # 3 (Additional Right of Way Required with Exception)				
The acquisition or right of occupancy and use of a few remaining parcels are not complete and/or some parcels still have occupants. All remaining occupants have had replacement housing made available to them in accordance with 49 CFR 24.204. KYTC is hereby requesting authorization to advertise this project for bids and to proceed with bid letting even though the necessary right of way will not be fully acquired, and/or some occupants will not be relocated, and/or the just compensation will not be paid or deposited with the court for some parcels until after bid letting. KYTC will fully meet all the requirements outlined in 23 CFR 635.309(c)(3) and 49 CFR 24.102(j) and will expedite completion of all acquisitions, relocations, and full payments after bid letting and prior to AWARD of the construction contract or force account construction.					
Total Number of Parcels on Project		0	EXCEPTION (S) Parcel #	ANTICIPATED DATE OF POSSESSION WITH EXPLANATION	
Number of Parcels That Have Been Acquired					
Signed Deed					
Condemnation					
Signed ROE					
Notes/ Comments (Use Additional Sheet if necessary)					
LPA RW Project Manager			Right of Way Supervisor		
Printed Name			Printed Name		
Signature			Signature		
Date			Date		Digitally signed by Jennifer K. Cox Date: 2024.10.23 13:47:01 -05'00'
Right of Way Director			FHWA		
Printed Name			Printed Name		
Signature			Signature		No Signature Required as per FHWA-KYTC Current Stewardship Agreement
Date		Digitally signed by Kelly Divine Date: 2024.10.24 16:24:22 -05'00'	Date		

UTILITIES AND RAIL CERTIFICATION NOTE

Daviess County - HSIP 0601 (215)
FD52 030 0060 023-025
Construction of RCUTs at US 60 & Hawes Blvd & Wrights Landing Rd
Item No. 2-936.00

GENERAL PROJECT NOTES ON UTILITIES

For all projects over 2000 linear feet, which are defined as a "Large Project" in KRS 367.4903(18), the awarded contractor shall initially mark the first 2000 linear feet minimally of proposed excavation or construction boundaries of the project to be worked using the procedure set forth in KRS 367.4909(9)(k). This temporary field locating of the project excavation boundary shall take place prior to submitting an excavation location request to the underground utility protection Kentucky Contact Center. For large projects, the awarded contractor shall work with the impacted utilities to determine when additional white lining of the remainder of the project site will take place. This provision shall not alter or relieve the awarded contractor from complying with requirements of KRS 367.4905 to 367.4917 in their entirety.

NOTE: The information presented in this Utility Note is informational in nature and the information contained herein is not guaranteed.

The contractor will be responsible for contacting all utility facility owners on the subject project to coordinate his/her activities. The contractor will coordinate his/her activities to minimize and, where possible, avoid conflicts with utility facilities. Due to the nature of the work proposed, it is unlikely to conflict with the existing utilities beyond minor facility adjustments. Where conflicts with utility facilities are unavoidable, the contractor will coordinate any necessary relocation work with the facility owner and Resident Engineer. The Kentucky Transportation Cabinet maintains the right to remove or alter portions of this contract if a utility conflict occurs. The utility facilities as noted in the previous section(s) have been determined using data garnered by varied means and with varying degrees of accuracy: from the facility owners, a result of S.U.E., field inspections, and/or reviews of record drawings. The facilities defined may not be inclusive of all utilities in the project scope and are not Level A quality, unless specified as such. It is the contractor's responsibility to verify all utilities and their respective locations before excavating.

The contractor shall make every effort to protect underground facilities from damage as prescribed in the Underground Facility Damage Protection Act of 1994, Kentucky Revised Statute KRS 367.4901 to 367.4917. It is the contractor's responsibility to determine and take steps necessary to be in compliance with federal and state damage prevention directives. The contractor is instructed to contact KY 811 for the location of existing underground utilities. Contact shall be made a minimum of two (2) and no more than ten (10) business days prior to excavation. The contractor shall submit Excavation Locate Requests to the Kentucky Contact Center (KY 811) via web ticket entry. The submission of this request does not relieve the contractor from the responsibility of contacting non-member facility owners, whom are to be contacted through their individual Protection Notification Center. It may be necessary for the contractor to contact the County Court Clerk to determine what utility companies have facilities in the area. Non-compliance with these directives can result in the enforcement of penalties.

UTILITIES AND RAIL CERTIFICATION NOTE

Daviess County - HSIP 0601 (215)
FD52 030 0060 023-025
Construction of RCUTs at US 60 & Hawes Blvd & Wrights Landing Rd
Item No. 2-936.00

NOTE: DO NOT DISTURB THE FOLLOWING UTILITIES LOCATED WITHIN THE PROJECT DISTURB LIMITS

There are no known utility relocations within the project limits. If an unknown utility is encountered, the contractor will be responsible for arranging an on-site meeting with the utility owner/representative(s) and the Engineer to discuss potential impacts and solutions to either avoid the utility or relocate the utility. Depending on the solution selected, the Engineer will determine whether or not additional contract time is appropriate.

The Contractor is fully responsible for protection of all utilities listed above

THE FOLLOWING COMPANIES ARE RELOCATING/ADJUSTING THEIR UTILITIES WITHIN THE PROJECT LIMITS
AND WILL BE COMPLETE PRIOR TO CONSTRUCTION

None

THE FOLLOWING COMPANIES HAVE FACILITIES TO BE RELOCATED/ADJUSTED BY THE COMPANY OR THE
COMPANY’S SUBCONTRACTOR AND IS TO BE COORDINATED WITH THE ROAD CONTRACT

None

THE FOLLOWING COMPANIES HAVE FACILITIES TO BE RELOCATED/ADJUSTED BY THE ROAD
CONTRACTOR AS INCLUDED IN THIS CONTRACT

None

RAIL COMPANIES HAVE FACILITIES IN CONJUNCTION WITH THIS PROJECT AS NOTED

☒ No Rail Involvement ☐ Rail Involved ☐ Rail Adjacent

UTILITIES AND RAIL CERTIFICATION NOTE

Daviess County - HSIP 0601 (215)
FD52 030 0060 023-025
Construction of RCUTs at US 60 & Hawes Blvd & Wrights Landing Rd
Item No. 2-936.00

AREA UTILITIES CONTACT LIST

<u>Utility Company/Agency</u>	<u>Contact Name</u>	<u>Contact Information</u>
1. Kenergy Corp (Electric)	Scott Atherton	207-689-6110 satherton@kenergycorp.com
2. Atmos Energy Corporation (Gas)	Silas Bohlen	270-685-8020 silas.bohlen@atmosenergy.com
3. AT&T (Communications)	Lee Greathouse	502-302-7230 Tg2580@att.com
4. East Daviess County Water Association (Water)	Kasey Emmick	270-281-5187 kasey@east-daviess.utilitydistrict.com
5. Spectrum (Communications)	John Wade	812-253-2710 john.wade@charter.com
6. Regional Water Resource Agency (RWRA) (Water)	Mark Rhinerson	Mark.Rhinerson@rwra.org

NOTE: The Utilities Contact List is provided as informational only, and may not be a complete list of all Utility Companies with facilities in the project area.

KYTC BMP Plan for Project Item # **2-936**



Kentucky Transportation Cabinet

Highway District 2

And

_____ (2), Construction

Kentucky Pollutant Discharge Elimination System

Permit KYR10

Best Management Practices (BMP) plan

Groundwater protection plan

For Highway Construction Activities

For

**Highway Safety Improvement Project on US 60 in
DAVISS County**

Project: Item # 2-936

KYTC BMP Plan for Project Item # 2-936

Project information

Note – (1) = Design (2) = Construction (3) = Contractor

1. Owner – Kentucky Transportation Cabinet, District 2
2. Resident Engineer: (2)
3. Contractor name: (2)
Address: (2)

Phone number: (2)
Contact: (2)
Contractor's agent responsible for compliance with the KPDES permit requirements (3):
4. Project Control Number: (2)
5. Route (Address): US 60
6. Latitude/Longitude (project mid-point): 37° 49' 25", -87° 02' 20"
7. County (project mid-point): Daviess
8. Project start date (date work will begin): (2)
9. Projected completion date: (2)

KYTC BMP Plan for Project Item # 2-936

A. Site description:

1. Nature of Construction Activity (from letting project description): Asphalt Pavement & Roadway Rehab
2. Order of major soil disturbing activities: (2) and (3)
3. Projected volume of material to be moved: 4,449 CY (Cut) & 1,667 CY (Fill)
4. Estimate of total project area (acres): 22.8
5. Estimate of area to be disturbed (acres): 1.99
6. Post construction runoff coefficient will be included in the project drainage folder. Persons needing information pertaining to the runoff coefficient will contact the resident engineer to request this information.
7. Data describing existing soil condition: (1) & (2)
8. Data describing existing discharge water quality (if any): (1) & (2)
9. Receiving water name: Pup Creek, Ohio River
10. TMDLs and Pollutants of Concern in Receiving Waters: *No TDML's were involved on this project.*
11. Site map – Project layout sheet plus the erosion control sheets in the project plans that depict Disturbed Drainage Areas (DDAs) and related information. These sheets depict the existing project conditions with areas delineated by DDA (drainage area bounded by watershed breaks and right of way limits), the storm water discharge locations (either as a point discharge or as overland flow) and the areas that drain to each discharge point. These plans define the limits of areas to be disturbed and the location of control measures. Controls will be either site specific as designated by the designer or will be annotated by the contractor and resident engineer before disturbance commences. The project layout sheet shows the surface waters and wetlands.
12. Potential sources of pollutants:
The primary source of pollutants is solids that are mobilized during storm events. Other sources of pollutants include oil/fuel/grease from servicing and operating construction equipment, concrete washout water, sanitary wastes and trash/debris. (3)

KYTC BMP Plan for Project Item # 2-936

B. Sediment and Erosion Control Measures:

1. Plans for highway construction projects will include erosion control sheets that depict Disturbed Drainage Areas (DDAs) and related information. These plan sheets will show the existing project conditions with areas delineated by DDA within the right of way limits, the discharge points and the areas that drain to each discharge point. Project managers and designers will analyze the DDAs and identify Best Management Practices (BMPs) that are site specific. The balance of the BMPs for the project will be listed in the bid documents for selection and use by the contractor on the project with approval by the resident engineer.

Projects that do not have DDAs annotated on the erosion control sheets will employ the same concepts for development and managing BMP plans.

2. Following award of the contract, the contractor and resident engineer will annotate the erosion control sheets showing location and type of BMPs for each of the DDAs that will be disturbed at the outset of the project. This annotation will be accompanied by an order of work that reflects the order or sequence of major soil moving activities. The remaining DDAs are to be designated as "Do Not Disturb" until the contractor and resident engineer prepare the plan for BMPs to be employed. The initial BMP's shall be for the first phase (generally Clearing and Grubbing) and shall be modified as needed as the project changes phases. The BMP Plan will be modified to reflect disturbance in additional DDA's as the work progresses. All DDA's will have adequate BMP's in place before being disturbed.
3. As DDAs are prepared for construction, the following will be addressed for the project as a whole or for each DDA as appropriate:
 - Construction Access – This is the first land-disturbing activity. As soon as construction begins, bare areas will be stabilized with gravel and temporary mulch and/or vegetation.
 - At the beginning of the project, all DDAs for the project will be inspected for areas that are a source of storm water pollutants. Areas that are a source of pollutants will receive appropriate cover or BMPs to arrest the introduction of pollutants into storm water. Areas that have not been opened by the contractor will be inspected periodically (once per month) to determine if there is a need to employ BMPs to keep pollutants from entering storm water.
 - Clearing and Grubbing – The following BMP's will be considered and used where appropriate.
 - Leaving areas undisturbed when possible.
 - Silt basins to provide silt volume for large areas.
 - Silt Traps Type A for small areas.

KYTC BMP Plan for Project Item # **2-936**

- Silt Traps Type C in front of existing pipes and drop inlets which are to be saved
- Diversion ditches to catch sheet runoff and carry it to basins or traps or to divert it around areas to be disturbed.
- Brush and/or other barriers to slow and/or divert runoff.
- Silt fences to catch sheet runoff on short slopes. For longer slopes, multiple rows of silt fence may be considered.
- Temporary Mulch for areas which are not feasible for the fore mentioned types of protections.
- Non-standard or innovative methods.
- Cut & Fill and placement of drainage structures - The BMP Plan will be modified to show additional BMP's such as:
 - Silt Traps Type B in ditches and/or drainways as they are completed
 - Silt Traps Type C in front of pipes and drop inlets after they are placed
 - Channel Lining
 - Erosion Control Blanket
 - Temporary mulch and/or seeding for areas where construction activities will be ceased for 21 days or more.
 - Non-standard or innovative methods
- Profile and X-Section in place – The BMP Plan will be modified to show elimination of BMP's which had to be removed and the addition of new BMP's as the roadway was shaped. Probably changes include:
 - Silt Trap Type A, Brush and/or other barriers, Temporary Mulch, and any other BMP which had to be removed for final grading to take place.
 - Additional Silt Traps Type B and Type C to be placed as final drainage patterns are put in place.
 - Additional Channel Lining and/or Erosion Control Blanket.
 - Temporary Mulch for areas where Permanent Seeding and Protection cannot be done within 21 days.
 - Special BMP's such as Karst Policy
- Finish Work (Paving, Seeding, Protect, etc.) – A final BMP Plan will result from modifications during this phase of construction. Probable changes include:
 - Removal of Silt Traps Type B from ditches and drainways if they are protected with other BMP's which are sufficient to control erosion, i.e. Erosion Control Blanket or Permanent Seeding and Protection on moderate grades.
 - Permanent Seeding and Protection
 - Placing Sod

KYTC BMP Plan for Project Item # 2-936

- Planting trees and/or shrubs where they are included in the project
- BMP's including Storm Water Management Devices such as velocity dissipation devices and Karst policy BMP's to be installed during construction to control the pollutants in storm water discharges that will occur after construction has been completed are: *This project does not include storm water BMPs or flow controls for post-construction use.*

C. Other Control Measures

1. No solid materials, including building materials, shall be discharged to waters of the commonwealth, except as authorized by a Section 404 permit.

2. Waste Materials

All waste materials that may leach pollutants (paint and paint containers, caulk tubes, oil/grease containers, liquids of any kind, soluble materials, etc.) will be collected and stored in appropriate covered waste containers. Waste containers shall be removed from the project site on a sufficiently frequent basis as to not allow wastes to become a source of pollution. All personnel will be instructed regarding the correct procedure for waste disposal. Wastes will be disposed in accordance with appropriate regulations. Notices stating these practices will be posted in the office.

3. Hazardous Waste

All hazardous waste materials will be managed and disposed of in the manner specified by local or state regulation. The contractor shall notify the Section Engineer if there any hazardous wastes being generated at the project site and how these wastes are being managed. Site personnel will be instructed with regard to proper storage and handling of hazardous wastes when required. The Transportation Cabinet will file for generator, registration when appropriate, with the Division of Waste Management and advise the contractor regarding waste management requirements.

4. Spill Prevention

The following material management practices will be used to reduce the risk of spills or other exposure of materials and substances to the weather and/or runoff.

KYTC BMP Plan for Project Item # 2-936

➤ **Good Housekeeping:**

The following good housekeeping practices will be followed onsite during the construction project.

- An effort will be made to store only enough product required to do the job
- All materials stored onsite will be stored in a neat, orderly manner in their appropriate containers and, if possible, under a roof or other enclosure
- Products will be kept in their original containers with the original manufacturer's label
- Substances will not be mixed with one another unless recommended by the manufacturer
- Whenever possible, all of the product will be used up before disposing of the container
- Manufacturers' recommendations for proper use and disposal will be followed
- The site contractor will inspect daily to ensure proper use and disposal of materials onsite

➤ **Hazardous Products:**

These practices will be used to reduce the risks associated with any and all hazardous materials.

- Products will be kept in original containers unless they are not resealable
- Original labels and material safety data sheets (MSDS) will be reviewed and retained
- Contractor will follow procedures recommended by the manufacturer when handling hazardous materials
- If surplus product must be disposed of, manufacturers' or state/local recommended methods for proper disposal will be followed

The following product-specific practices will be followed onsite:

➤ **Petroleum Products:**

Vehicles and equipment that are fueled and maintained on site will be monitored for leaks, and receive regular preventative maintenance to reduce the chance of leakage. Petroleum products onsite will be stored in tightly sealed containers, which are clearly labeled and will be protected from exposure to weather.

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The contractor shall prepare an Oil Pollution Spill Prevention Control and Countermeasure plan when the project that involves the storage of petroleum products in 55 gallon or larger containers with a total combined storage capacity of 1,320 gallons. This is a requirement of 40 CFR 112.

This project (will / will not) (3) have over 1,320 gallons of petroleum products with a total capacity, sum of all containers 55 gallon capacity and larger.

➤ **Fertilizers:**

Fertilizers will be applied at rates prescribed by the contract, standard specifications or as directed by the resident engineer. Once applied, fertilizer will be covered with mulch or blankets or worked into the soil to limit exposure to storm water. Storage will be in a covered shed. The contents of any partially used bags of fertilizer will be transferred to a sealable plastic bin to avoid spills.

➤ **Paints:**

All containers will be tightly sealed and stored indoors or under roof when not being used. Excess paint or paint wash water will not be discharged to the drainage or storm sewer system but will be properly disposed of according to manufacturers' instructions or state and local regulations.

➤ **Concrete Truck Washout:**

Concrete truck mixers and chutes will not be washed on pavement, near storm drain inlets, or within 75 feet of any ditch, stream, wetland, lake, or sinkhole. Where possible, excess concrete and wash water will be discharged to areas prepared for pouring new concrete, flat areas to be paved that are away from ditches or drainage system features, or other locations that will not drain off site. Where this approach is not possible, a shallow earthen wash basin will be excavated away from ditches to receive the wash water

➤ **Spill Control Practices**

In addition to the good housekeeping and material management practices discussed in the previous sections of this plan, the following practices will be followed for spill prevention and cleanup:

- Manufacturers' recommended methods for spill cleanup will be clearly posted. All personnel will be made aware of procedures and the location of the information and cleanup supplies.
- Materials and equipment necessary for spill cleanup will be kept in the material storage area. Equipment and materials will include as

KYTC BMP Plan for Project Item # 2-936

appropriate, brooms, dust pans, mops, rags, gloves, oil absorbents, sand, sawdust, and plastic and metal trash containers.

- All spills will be cleaned up immediately after discovery.
- The spill area will be kept well ventilated and personnel will wear appropriate protective clothing to prevent injury from contact with a hazardous substance.
- Spills of toxic or hazardous material will be reported to the appropriate state/local agency as required by KRS 224 and applicable federal law.
- The spill prevention plan will be adjusted as needed to prevent spills from reoccurring and improve spill response and cleanup.
- Spills of products will be cleaned up promptly. Wastes from spill cleanup will be disposed in accordance with appropriate regulations.

D. Other State and Local Plans

This BMP plan shall include any requirements specified in sediment and erosion control plans, storm water management plans or permits that have been approved by other state or local officials. Upon submittal of the NOI, other requirements for surface water protection are incorporated by reference into and are enforceable under this permit (even if they are not specifically included in this BMP plan). This provision does not apply to master or comprehensive plans, non-enforceable guidelines, or technical guidance documents that are not identified in a specific plan or permit issued for the construction site by state or local officials. *There are no other local (MS4) requirements that are expected to be necessary for this project.* Maintenance

1. The BMP plan shall include a clear description of the maintenance procedures necessary to keep the control measures in good and effective operating condition.
 - Maintenance of BMPs during construction shall be a result of weekly and post rain event inspections with action being taken by the contractor to correct deficiencies.
 - Post Construction maintenance will be a function of normal highway maintenance operations. Following final project acceptance by the cabinet, district highway crews will be responsible for identification and correction of deficiencies regarding ground cover and cleaning of storm water BMPs. The project manager shall identify any BMPs that will be for the purpose of post construction storm water management with specific guidance for any non-routine maintenance. (1) Typically use: *There are no such BMP's for this project.*

KYTC BMP Plan for Project Item # 2-936

E. Inspections

Inspection and maintenance practices that will be used to maintain erosion and sediment controls:

- All erosion prevention and sediment control measures will be inspected at least once each week and following any rain of one-half inch or more.
- Inspections will be conducted by individuals that have successfully completed the KEPSC-RI course as required by Section 213.02.02 of the Standard Specifications for Road and Bridge Construction, current edition.
- Inspection reports will be written, signed, dated, and kept on file.
- Areas at final grade will be seeded and mulched within 14 days.
- Areas that are not at final grade where construction has ceased for a period of 21 days or longer and soil stock piles shall receive temporary mulch no later than 14 days from the last construction activity in that area.
- All measures will be maintained in good working order; if a repair is necessary, it will be initiated within 24 hours of being reported.
- Built-up sediment will be removed from behind the silt fence before it has reached halfway up the height of the fence.
- Silt fences will be inspected for bypassing, overtopping, undercutting, depth of sediment, tears, and to ensure attachment to secure posts.
- Sediment basins will be inspected for depth of sediment, and built-up sediment will be removed when it reaches 50 percent of the design capacity and at the end of the job.
- Diversion dikes and berms will be inspected and any breaches promptly repaired. Areas that are eroding or scouring will be repaired and re-seeded / mulched as needed.
- Temporary and permanent seeding and mulching will be inspected for bare spots, washouts, and healthy growth. Bare or eroded areas will be repaired as needed.
- All material storage and equipment servicing areas that involve the management of bulk liquids, fuels, and bulk solids will be inspected weekly for conditions that represent a release or possible release of pollutants to the environment.

F. Non – Storm Water Discharges

It is expected that non-storm water discharges may occur from the site during the construction period. Examples of non-storm water discharges include:

- Water from water line flushings.
- Water from cleaning concrete trucks and equipment.

KYTC BMP Plan for Project Item # 2-936

- Pavement wash waters (where no spills or leaks of toxic or hazardous materials have occurred).
- Uncontaminated groundwater and rain water (from dewatering during excavation).

All non-storm water discharges will be directed to the sediment basin or to a filter fence enclosure in a flat vegetated infiltration area or be filtered via another approved commercial product.

G. Groundwater Protection Plan (3)

This plan serves as the groundwater protection plan as required by 401 KAR 5:037.

- Contractors statement: (3)

The following activities, as enumerated by 401 KAR 5:037 Section 2 that require the preparation and implementation of a groundwater protection plan, will or may be may be conducted as part of this construction project:

_____ 2. (e) land treatment or land disposal of a pollutant;

_____ 2. (f) Storing, ..., or related handling of hazardous waste, solid waste or special waste, ..., in tanks, drums, or other containers, or in piles, (This does not include wastes managed in a container placed for collection and removal of municipal solid waste for disposal off site);

_____ 2. (g) Handling of materials in bulk quantities (equal or greater than 55 gallons or 100 pounds net dry weight transported held in an individual container) that, if released to the environment, would be a pollutant;

_____ 2. (j) Storing or related handling of road oils, dust suppressants,, at a central location;

_____ 2. (k) Application or related handling of road oils, dust suppressants or deicing materials, (does not include use of chloride-based deicing materials applied to roads or parking lots);

_____ 2. (m) Installation, construction, operation, or abandonment of wells, bore holes, or core holes, (this does not include bore holes for the purpose of explosive demolition);

Or, check the following only if there are no qualifying activities:

KYTC BMP Plan for Project Item # 2-936

_____ There are no activities for this project as listed in 401 KAR 5:037 Section 2 that require the preparation and implementation of a groundwater protection plan.

The contractor is responsible for the preparation of a plan that addresses the 401 KAR 5:037 Section 3. (3) Elements of site specific groundwater protection plan:

- (a) General information about this project is covered in the Project information;
- (b) Activities that require a groundwater protection plan have been identified above;
- (c) Practices that will protect groundwater from pollution are addressed in section C. Other control measures.
- (d) Implementation schedule – all practices required to prevent pollution of groundwater are to be in place prior to conducting the activity;
- (e) Training is required as a part of the ground water protection plan. All employees of the contractor, sub-contractor, and resident engineer personnel will be trained to understand the nature and requirements of this plan as they pertain to their job function(s). Training will be accomplished within one week of employment and annually thereafter. A record of training will be maintained by the contractor with a copy provide to the resident engineer.
- (f) Areas of the project and groundwater plan activities will be inspected as part of the weekly sediment and erosion control inspections
- (g) Certification (see signature page.)

KYTC BMP Plan for Project Item # 2-936

Contractor and Resident Engineer Plan certification

The contractor that is responsible for implementing this BMP plan is identified in the Project Information section of this plan.

The following certification applies to all parties that are signatory to this BMP plan:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. Further, this plan complies with the requirements of 401 KAR 5:037. By this certification, the undersigned state that the individuals signing the plan have reviewed the terms of the plan and will implement its provisions as they pertain to ground water protection.

Resident Engineer and Contractor Certification:

(2) Resident Engineer signature

Signed _____ title _____, _____
Typed or printed name² signature

(3) Signed _____ title _____, _____
Typed or printed name¹ signature

1. Contractor Note: to be signed by a person who is the owner, a responsible corporate officer, a general partner, or the proprietor or a person designated to have the authority to sign reports by such a person in accordance with 401 KAR 5:060 Section 9. This delegation shall be in writing to: Manager, KPDES Branch, Division of Water, 14 Reilly Road, Frankfort Kentucky 40601. Reference the Project Control Number (PCN) and KPDES number when one has been issued.
2. KYTC Note: to be signed by the Chief District Engineer, or a person designated to have the authority to sign reports by such a person (usually the resident engineer) in accordance with 401 KAR 5:060 Section 9. This delegation shall be in writing to: Manager, KPDES Branch, Division of Water, 14 Reilly Road, Frankfort Kentucky 40601 Reference the Project Control Number (PCN) and KPDES number when one has been issued.

KYTC BMP Plan for Project Item # **2-936**

Sub-Contractor Certification

The following sub-contractor shall be made aware of the BMP plan and responsible for implementation of BMPs identified in this plan as follows:

Subcontractor

Name:
Address:
Address:

Phone:

The part of BMP plan this subcontractor is responsible to implement is:

I certify under penalty of law that I understand the terms and conditions of the general Kentucky Pollutant Discharge Elimination System permit that authorizes the storm water discharges, the BMP plan that has been developed to manage the quality of water to be discharged as a result of storm events associated with the construction site activity and management of non-storm water pollutant sources identified as part of this certification.

Signed _____ title _____, _____
Typed or printed name¹ signature

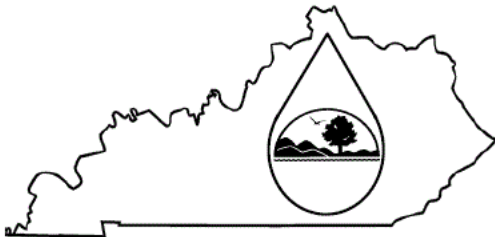
1. Sub-Contractor Note: to be signed by a person who is the owner, a responsible corporate officer, a general partner, or the proprietor or a person designated to have the authority to sign reports by such a person in accordance with 401 KAR 5:060 Section 9. This delegation shall be in writing to: Manager, KPDES Branch, Division of Water, 14 Reilly Road, Frankfort Kentucky 40601. Reference the Project Control Number (PCN) and KPDES number when one has been issued.

Item No.: 2-936.00
Daviess County
Highway Safety Improvement Project along US 60
from MP 23.260 to 24.460

An electronic Notice of Intent (eNOI) for obtaining coverage under the Kentucky Pollutant Discharge Elimination System (KPDES) General Permit for Stormwater Discharges Associated with Construction Activities (KYR10) has been drafted, a copy of which is attached. Upon award, the Contractor will be identified in Section III of the form as the “Building Contractor” and the eNOI will be submitted for approval to the Kentucky Division of Water. The Contractor shall be responsible for advancing the work within this contract in a manner that is compliant with all applicable and appropriate KYTC specifications for sediment and erosion control, as well as meeting the requirements of the KYR10 permit and the KDOW.

eForm Submittal ID: 449077

eForm Transaction ID: 4aa518e1-c012-4191-9d79-d0fe36fecc9d




KENTUCKY POLLUTION DISCHARGE
ELIMINATION SYSTEM (KPDES)

Notice of Intent (NOI) for coverage of Storm Water Discharge
Associated with Construction Activities Under the KPDES Storm
Water General Permit KYR100000

Click here for Instructions
(Controls/KPDES_FormKYR10_Instructions.htm)

Click here to obtain information and a copy of the KPDES General Permit.
([https://eec.ky.gov/Environmental-
Protection/Water/PermitCert/KPDES/Documents/KYR10PermitPage.pdf](https://eec.ky.gov/Environmental-Protection/Water/PermitCert/KPDES/Documents/KYR10PermitPage.pdf))

(*) indicates a required field; (✓) indicates a field may be required based on user input or is an
optionally required field

Reason for Submittal:(*) <div></div>	Agency Interest ID: <div>Agency Interest ID</div>	Permit Number:(✓) <div>KPDES Permit Number</div>	
If change to existing permit coverage is requested, describe the changes for which modification of coverage is being sought:(✓) <div></div>			
<div>ELIGIBILITY:</div> <div>Stormwater discharges associated with construction activities disturbing individually one (1) acre or more, including, in the case of a common plan of development, contiguous construction activities that cumulatively equal one (1) acre or more of disturbance.</div> <div>EXCLUSIONS:</div> <div>The following are excluded from coverage under this general permit:</div> <div>1) Are conducted at or on properties that have obtained an individual KPDES permit for the discharge of other wastewaters which requires the development and implementation of a Best Management Practices (BMP) plan;</div> <div>2) Any operation that the DOW determines an individual permit would better address the discharges from that operation;</div> <div>3) Any project that discharges to an Impaired Water listed in the most recent Integrated Report, §305(b) as impaired for sediment and for which an approved TMDL has been developed.</div>			
SECTION I -- FACILITY OPERATOR INFORMATION (PERMITTEE)			
Company Name:(✓) <div>Kentucky Transportation Cabinet, District 2</div>	First Name:(✓) <div>Deneatra</div>	M.I.: <div>MI</div>	Last Name:(✓) <div>Henderson</div>
Mailing Address:(*) <div>840 North Main Street</div>	City:(*) <div>Madisonville</div>	State:(*) <div>Kentucky</div>	Zip:(*) <div>42431</div>
eMail Address:(*) <div>Deneatra.Henderson@@ky.gov</div>	Business Phone:(*) <div>(270) 824-7080</div>	Alternate Phone: <div>Phone</div>	
SECTION II -- GENERAL SITE LOCATION INFORMATION			
Project Name:(*) <div>Daviess County US 60 RCUT</div>	Status of Owner/Operator(*) <div>State Government</div>	SIC Code(*) <div>1611 Highway and Street Cons</div>	
Company Name:(✓) <div>Kentucky Transportation Cabinet, District 2</div>	First Name:(✓) <div>Deneatra</div>	M.I.: <div>MI</div>	Last Name:(✓) <div>Henderson</div>
Site Physical Address:(*) <div>Daviess County US 60 from MP 23.260 to 24.460</div>			
City:(*) <div>Owensboro</div>	State:(*) <div>Kentucky</div>	Zip:(*) <div>42303</div>	
County:(*) <div>Daviess</div>	Latitude(decimal degrees)(*)DMS to DD Converter (https://www.fcc.gov/media/radio/dms-decimal) <div>37.823653</div>	Longitude(decimal degrees)(*) <div>-87.03888</div>	
SECTION III -- SPECIFIC SITE ACTIVITY INFORMATION 			
Project Description:(*) <div>Highway Safety Improvement Project to construct an RCUT, including pavement resurfacing and roadside slope improvements.</div>			
a. For single projects provide the following information			

Total Number of Acres in Project:(✓)	Total Number of Acres Disturbed:(✓)
22.8	2.0
Anticipated Start Date:(✓)	Anticipated Completion Date:(✓)
b. For common plans of development provide the following information	
Total Number of Acres in Project:(✓)	Total Number of Acres Disturbed:(✓)
# Acre(s)	# Acre(s)
Number of individual lots in development, if applicable:(✓)	Number of lots in development:(✓)
# lot(s)	# lot(s)
Total acreage of lots intended to be developed:(✓)	Number of acres intended to be disturbed at any one time:(✓)
Project Acres	Disturbed Acres
Anticipated Start Date:(✓)	Anticipated Completion Date:(✓)
List Building Contractor(s) at the time of Application:(*)	
<div>+ Company Name</div>	

SECTION IV -- IF THE PERMITTED SITE DISCHARGES TO A WATER BODY THE FOLLOWING INFORMATION IS REQUIRED ?

Discharge Point(s):

	Unnamed Tributary?	Latitude	Longitude	Receiving Water Name	Delete
1	Yes	37.831015	-87.035989	Pup Creek	Delete
2	Yes	37.828612	-87.036807	Pup Creek	Delete
3	Yes	37.827238	-87.037418	Pup Creek	Delete
4	Yes	37.824085	-87.038439	Pup Creek	Delete
5	Yes	37.825675	-87.038662	Pup Creek	Delete
6	Yes	37.822466	-87.039469	Ohio river	Delete
7	Yes	37.820030	-87.039497	Ohio River	Delete
8	Yes	37.818452	-87.040775	Ohio River	Delete
9	Yes	37.817519	-87.041240	Ohio River	Delete

SECTION V -- IF THE PERMITTED SITE DISCHARGES TO A MS4 THE FOLLOWING INFORMATION IS REQUIRED ?

Name of MS4:

Date of application/notification to the MS4 for construction site permit coverage:

Date

Discharge Point(s):(*)

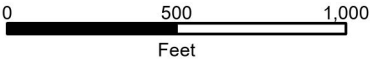
+ Latitude Longitude

SECTION VI -- WILL THE PROJECT REQUIRE CONSTRUCTION ACTIVITIES IN A WATER BODY OR THE RIPARIAN ZONE?

Will the project require construction activities in a water body or the riparian zone?: (*)	No
If Yes, describe scope of activity: (✓)	describe scope of activity
Is a Clean Water Act 404 permit required?:(*)	No

Is a Clean Water Act 401 Water Quality Certification required?:(*)			No		
SECTION VII -- NOI PREPARER INFORMATION					
First Name:(*) <div>First Name</div>		M.I.: <div>MI</div>	Last Name:(*) <div>Last Name</div>		Company Name:(*) <div>Company Name</div>
Mailing Address:(*) <div>Mailing Address</div>		City:(*) <div>City</div>		State:(*) <div></div>	Zip:(*) <div>Zip</div>
eMail Address:(*) <div>eMail Address</div>			Business Phone:(*) <div>Phone</div>		Alternate Phone: <div>Phone</div>
SECTION VIII -- ATTACHMENTS					
Facility Location Map:(*)			Upload file		
Supplemental Information:			Upload file		
SECTION IX -- CERTIFICATION					
I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.					
Signature:(*) <div>Signature</div>			Title:(*) <div>Title</div>		
First Name:(*) <div>First Name</div>		M.I.: <div>MI</div>	Last Name:(*) <div>Last Name</div>		
eMail Address:(*) <div>eMail Address</div>		Business Phone:(*) <div>Phone</div>		Alternate Phone: <div>Phone</div>	Signature Date:(*) <div>Date</div>
<div>Click to Save Values for Future Retrieval</div> <div>Click to Submit to EEC</div>					

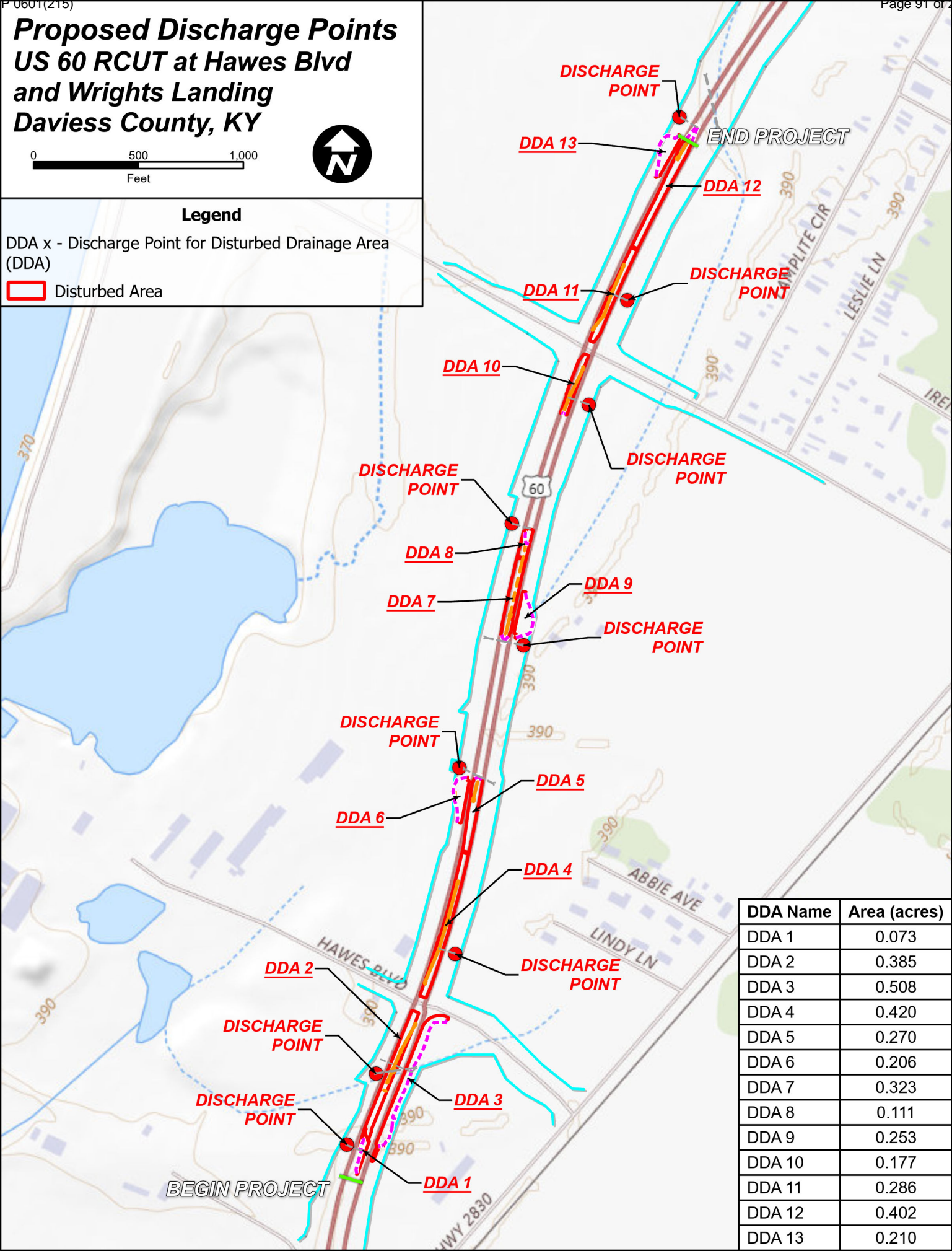
Proposed Discharge Points
US 60 RCUT at Hawes Blvd
and Wrights Landing
Davieess County, KY



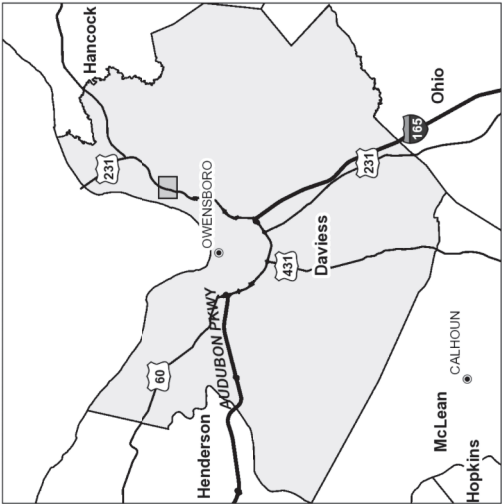
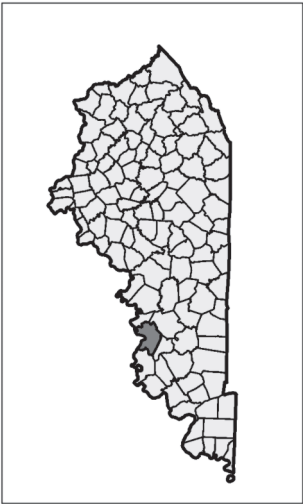
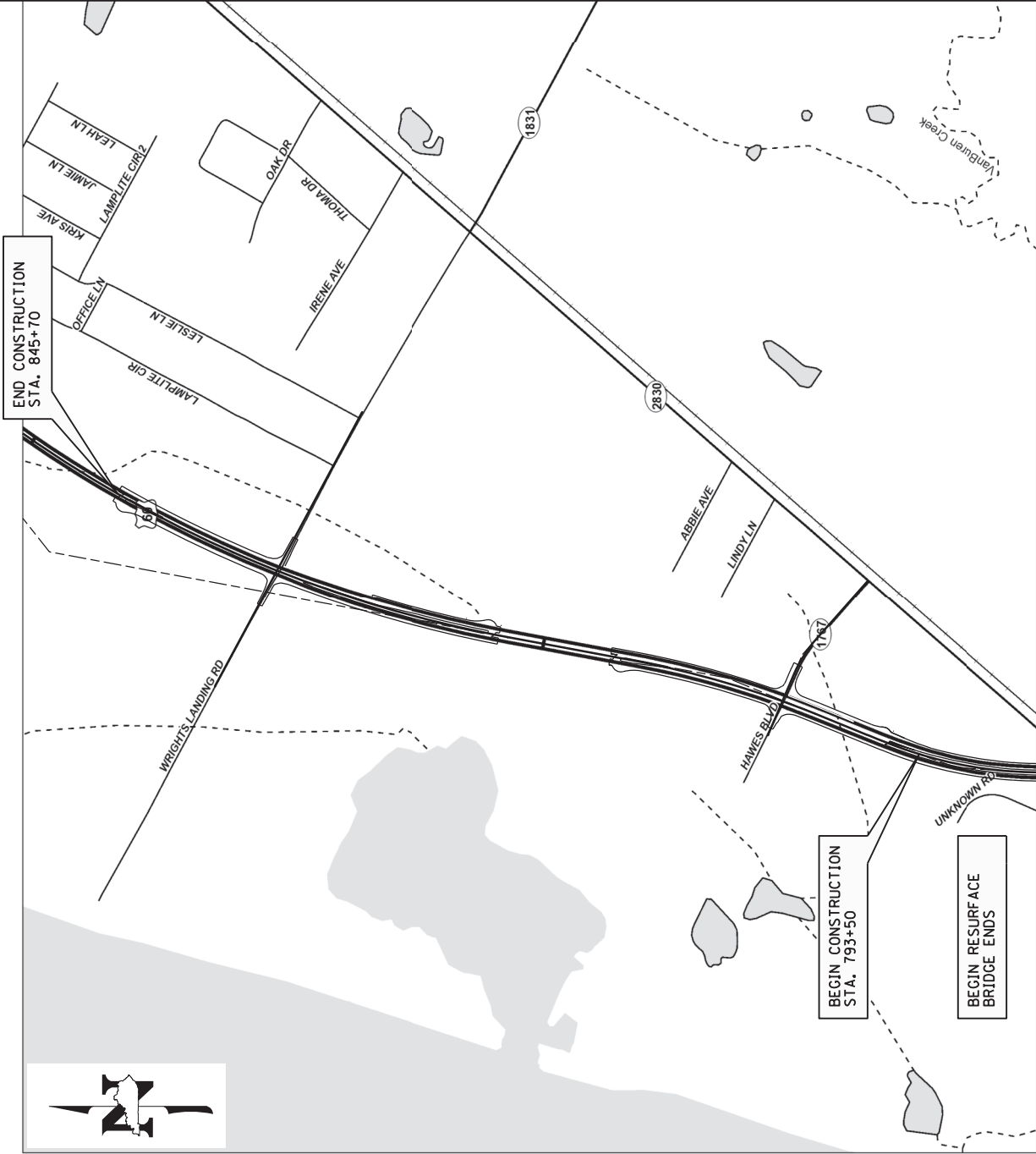
Legend

DDA x - Discharge Point for Disturbed Drainage Area (DDA)

Disturbed Area



COUNTY OF	ITEM NO.
DAVIESS	2-936.00



Commonwealth of Kentucky
DEPARTMENT OF HIGHWAYS

PLANS OF
PROPOSED PROJECT

DAVIESS COUNTY
US 60



LAYOUT SHEET

DAVIESS COUNTY - US 60 MILEPOST 23.3 TO 24.5 ITEM NO. 2-936.00 GENERAL SUMMARY			
SHEET 1 OF 2			
ITEM NUMBER	ITEM	UNIT	QUANTITY
3	CRUSHED STONE BASE	TON	6,106
78	CRUSHED STONE AGGREGATE SIZE NO 2 (1)	TON	3
80	CRUSHED STONE AGGREGATE SIZE NO 23 (2)(6)	TON	9,425
100	ASPHALT SEAL AGGREGATE	TON	12.0
190	LEVELING & WEDGING PG64-22	TON	82
214	CL3 ASPH BASE 1.00D PG64-22	TON	4,524
291	EMULSIFIED ASPHALT RS-2	TON	1.5
324	CL3 ASPH SURF 0.50B PG64-22	TON	4,460
356	ASPHALT MATERIAL FOR TACK	TON	11.9
521	STORM SEWER PIPE-15 IN	LF	1,133
522	STORM SEWER PIPE-18 IN	LF	594
526	STORM SEWER PIPE-30 IN	LF	14
1000	PERFORATED PIPE -4 IN	LF	2,510
1010	NON-PERFORATED PIPE -4 IN	LF	175
1015	INSPECT & CERTIFY EDGE DRAIN SYSTEM	LS	1
1028	PERF PIPE HEADWALL TY 3-4 IN	EACH	3
1456	CURB BOX INLET TYPE A	EACH	15
1511	DROP BOX INLET TYPE 5D	EACH	3
1514	DROP BOX INLET TYPE 5E	EACH	1
1584	CAP DROP BOX INLET	EACH	2
1740	CORED HOLE DRAINAGE BOX CON-4 IN	EACH	8
1917	STANDARD BARRIER MEDIAN TYPE 2 (3)	SQYD	2,027
1921	STANDARD BARRIER MEDIAN TYPE 4 (4)	SQYD	672
1982	DELINEATOR FOR GUARDRAIL MONO DIRECTIONAL WHITE	EACH	4
2091	REMOVE PAVEMENT	SQYD	99
2200	ROADWAY EXCAVATION	CUYD	7,002
2262	FENCE-WOVEN WIRE TYPE 1	LF	40
2265	REMOVE FENCE	LF	45
2351	GUARDRAIL-STEEL W BEAM-S FACE	LF	199.5
2369	GUARDRAIL END TREATMENT TYPE 2A	EACH	1
2381	REMOVE GUARDRAIL	LF	75
2545	CLEARING AND GRUBBING (5)	LS	1
2562	TEMPORARY SIGNS	SQFT	416
2568	MOBILIZATION	LS	1
2569	DEMOBILIZATION	LS	1
2602	FABRIC-GEOTEXTILE CLASS 1 (6)	SY	15,322
2604	FABRIC-GEOTEXTILE CLASS 1A (6)	SY	14,376
2625	REMOVE HEADWALL	EACH	2
2650	MAINTAIN & CONTROL TRAFFIC	LS	1
2671	PORTABLE CHANGEABLE MESSAGE SIGN	EACH	2
2676	MOBILIZATION FOR MILL & TEXT	LS	1
2677	ASPHALT PAVE MILLING & TEXTURING	TON	3,531
2696	SHOULDER RUMBLE STRIPS	LF	10,410
2701	TEMPORARY SILT FENCE	LF	1,600
2703	SILT TRAP TYPE A	EACH	4
2704	SILT TRAP TYPE B	EACH	1
2705	SILT TRAP TYPE C	EACH	9
2706	CLEAN SILT TRAP TYPE A	EACH	4
2707	CLEAN SILT TRAP TYPE B	EACH	1
2708	CLEAN SILT TRAP TYPE C	EACH	9

- (1)
- (2)
- (3)
- (4)
- (5)
- (6)
- UNDERDRAIN OUTLET PROTECTION
- SIZE NO. 2'S AND NO. 3'S ARE ACCEPTABLE FOR THIS QUANTITY
- 1872 SY MODIFIED TO DEPTH OF 5.5"
- 126 SY MODIFIED TO DEPTH OF 5.5"
- 0.01 ACRES IN AREA OF FENCE REMOVAL AND CONSTRUCTION
- FOR FABRIC WRAPPED AGGREGATE LAYER WITH 20% CONTINGENCY

DAVIESS COUNTY - US 60 MILEPOST 23.3 TO 24.5 ITEM NO. 2-936.00 GENERAL SUMMARY			
SHEET 2 OF 2			
ITEM NUMBER	ITEM	UNIT	QUANTITY
2726	STAKING	LS	1
2775	ARROW PANEL	EACH	2
4700	POLE 30 FT MTG HT	EACH	4
4701	POLE 40 FT MTG HT	EACH	4
4724	BRACKET 12 FT	EACH	4
4725	BRACKET 15 FT	EACH	4
4740	POLE BASE	EACH	8
4750	TRANSFORMER BASE	EACH	8
4761	LIGHTING CONTROL EQUIPMENT	EACH	2
4780	FUSED CONNECTOR KIT	EACH	22
4820	TRENCHING AND BACKFILLING	LF	4,140
4832	WIRE-NO. 12	LF	1,164
4871	POLE 35 FT WOODEN	EACH	2
5950	EROSION CONTROL BLANKET	SQYD	1,236
5952	TEMPORARY MULCH	SQYD	6,452
5953	TEMP SEEDING AND PROTECTION	SQYD	4,839
5963	INITIAL FERTILIZER	TON	0.22
5964	MAINTENANCE FERTILIZER	TON	0.36
5985	SEEDING AND PROTECTION	SQYD	5,952
5992	AGRICULTURAL LIMESTONE	TON	4
6404	FLEXIBLE DELINEATOR POST-M/Y	EACH	254
6406	SBM ALUM SHEET SIGNS .080 IN	SQFT	678.38
6407	SBM ALUM SHEET SIGNS .125 IN	SQFT	531.75
6410	STEEL POST TYPE 1	LF	1,398
6490	CLASS A CONCRETE FOR SIGNS	CUYD	9.00
6511	PAVE STRIPING-TEMP PAINT -6 IN	LF	31,991
6514	PAVE STRIPING-PERM PAINT-4 IN	LF	733
6542	PAVE STRIPING-THERMO-6 IN W	LF	18,364
6543	PAVE STRIPING-THERMO-6 IN Y	LF	10,649
6546	PAVE STRIPING-THERMO-12 IN W	LF	2,698
6547	PAVE STRIPING-THERMO-12 IN Y	LF	2,574
6568	PAVE MARKING-THERMO STOP BAR-24 IN	LF	79
6569	PAVE MARKING-THERMO CROSS-HATCH YELLOW	SQFT	686
6574	PAVE MARKING-THERMO CURV ARROW	EACH	55
10020NS	FUEL ADJUSTMENT	DOLL	13,984
10030NS	ASPHALT ADJUSTMENT	DOLL	35,124
20391NS835	ELECTRICAL JUNCTION BOX TYPE A	EACH	6
21289ED	LONGITUDINAL EDGE KEY	LF	5,967
21373ND	REMOVE SIGN	EACH	27
21541NN	CORED HOLE DRAINAGE BOX CON-18 IN	EACH	3
21543EN	BORE AND JACK CONDUIT	LF	920
21596ND	GMSS TYPE D	EACH	36
21596ND	GMSS TYPE D (SURFACE MOUNT)	EACH	16
23778EC	WIRE-NO. 10	LF	14,190
23822EC	CORED HOLE DRAINAGE BOX CON-15 IN	EACH	3
24489EC	INLAID PAVEMENT MARKER	EACH	135
24589ED	LED LUMINAIRE	EACH	8
24631EC	BARCODE SIGN INVENTORY	EACH	169
24679ED	PAVE MARK THERMO CHEVRON	SQFT	1,242
24814EC	PIPELINE INSPECTION	LF	1,741
24889EC	PAVE MARKING-THERMO U-TURN	EACH	33
24900EC	PVC CONDUIT-1 1/4 IN-SCHEDULE 80	LF	4,140
24901EC	PVC CONDUIT-2 IN-SCHEDULE 80	LF	920

DAVIESS COUNTY - US 60				
MILEPOST 23.3 TO 24.5				
ITEM NO. 2-936.00				
PAVING SUMMARY				
PAVING AREAS			PAVING QUANTITIES	
ITEM		TOTAL *	ITEM	TOTAL *
PAVING AREAS			PAVING QUANTITIES	TON
1.5"	CL3 ASPH SURF 0.50B PG64-22	62,621	CL3 ASPH SURF 0.50B PG64-22	4,460
7.25"	CL3 ASPH BASE 1.00D PG64-22	22,682	CL3 ASPH BASE 1.00D PG64-22	4,524
8"	CRUSHED STONE BASE	11,382	CRUSHED STONE BASE	6,106
12"	FABRIC WRAPPED AGGREGATE LAYER -		FABRIC WRAPPED AGGREGATE LAYER -	
	GEOTEXTILE FABRIC TYPE 1 (1)	15,322	GEOTEXTILE FABRIC TYPE 1 (1)	15,322 SY
	GEOTEXTILE FABRIC TYPE 1A (1)	14,376	GEOTEXTILE FABRIC TYPE 1A (1)	14,376 SY
	2'S, 3'S, OR 23'S (1)	11,382	2'S, 3'S, OR 23'S (1)	9,425
	LEVELING & WEDGING PG64-22 (2)		LEVELING & WEDGING PG64-22	82
	ASPHALT PAVE MILLING & TEXTURING	51,359	ASPHALT PAVE MILLING & TEXTURING	3,531
	ASPHALT MATERIAL FOR TACK	33,944	ASPHALT MATERIAL FOR TACK	11.9
	ASPHALT SEAL AGGREGATE		ASPHALT SEAL AGGREGATE	12
	EMULSIFIED ASPHALT RS-2		EMULSIFIED ASPHALT RS-2	1.5
NOTES:				
All asphalt mixtures shall be estimated at 110 lbs. per SQ. YD. per inch of depth unless noted otherwise				
Crushed Stone Base shall be estimated at 115 lbs. per SQ. YD. per inch of depth				
* TOTALS ARE CARRIED OVER TO GENERAL SUMMARY				
(1)	Includes 20% for contingency as needed and directed by the Engineer			
(2)	Use for leveling pavement under proposed barrier median between adjacent sections with different slopes			

1. ALL PROPOSED TO EXISTING PIPE CONNECTIONS SHOULD BE IN KIND MATERIAL.
2. IF A PIPE COLLAR IS NEEDED FOR CONSTRUCTION OF A PROPOSED CONNECTION, THEY SHALL BE INCIDENTAL TO THE COST OF THE PIPE BEING CONSTRUCTED.

DAVIESS COUNTY - US 60 MILEPOST 23.3 TO 24.5 ITEM NO. 2-936.00 PERFORATED PIPE EDGE DRAIN SYSTEM SUMMARY				
STATION TO STATION		PERFORATED EDGE DRAIN 4-INCH	NON-PERFORATED PIPE-4 INCH	OUTLET
		LF	LF	STRUCTURE ID OUTLET
US 60				
795+51			13	TYPE 3
796+00	798+00	200		
796+92				REMOVE HEADWALL
798+00	800+05	206		
799+30	801+37	132	75	
803+50	805+24	173		CORED HOLE - 4 IN
805+24	807+00	171		CORED HOLE - 4 IN
807+05	808+45	140	2	CORED HOLE - 4 IN
808+55	808+71	16	12	
808+71	812+50	379	11	CORED HOLE - 4 IN
812+50	812+83	36	1	CORED HOLE - 4 IN
820+51			10	TYPE 3
821+30	822+75	146	14	
822+23				REMOVE HEADWALL
822+69			10	TYPE 3
822+75	825+54	102	4	
832+31	833+30	97	5	CORED HOLE - 4 IN
835+65	837+56	185	7	CORED HOLE - 4 IN
837+63	838+00	57	1	CORED HOLE - 4 IN
838+00	842+70	470	10	

TOTALS*					
PERFORATED PIPE-4 INCH	NON-PERFORATED PIPE-4 INCH	CORED HOLE DRAIN BOX CON-4 IN**	HEADWALL		OUTLET STONE
LF	LF	EACH	TYPE 3	REMOVE	TON
2,510	175	8	3	2	3

* TOTALS ARE CARRIED OVER TO GENERAL SUMMARY

** USE AS NEEDED FOR PROPER DRAINAGE OF THE PAVEMENT SUBGRADE

SIGN LOCATION				MUTCD Code	Sign Description	Sign Text / Remarks	Sign Dimensions (in x in)	SHEETING			SBM Alum Sheet Signs 0.080 IN (SQ FT)	SBM Alum Sheet Signs 0.125 IN (SQ FT)	Installation Type	Bracing Req'd	# of Sign Posts	Estimated Length of 2" Post (ft)	Estimated Length of 2-1/2" Post (ft)	2-1/4" Stiffener Req'd (includnt to post)	TOTAL Estimated Sign Post Length (LF)	Barcode Sign Inv. (EACH)
Assembly ID	Side of Road	Approx Offset (ft)	Facing Traffic Traveling					Text/ Symbol Color	Background Color	Sheeting Type										
S-8	RT	75	793+60	WB	R5-1a	Wrong Way	Install on back of existing speed limit sign	42 x 30	White	Red	XI	8.75	On Existing Sign Post(s)		0					1
S-9	MED	4	793+60	WB	R5-1a	Wrong Way	Install on back of existing speed limit sign	42 x 30	White	Red	XI	8.75	On Existing Sign Post(s)		0					1
S-10	MED	4	794+70	EB	R3-4	No U-Turn	Facing eastbound	36 x 36	Red & Black	White	XI	9.00	Std w/ Soil Plate	Yes	1	11.3			11.3	1
				WB	R5-1	Do Not Enter	Facing westbound	36 x 36	White	Red	XI	9.00								1
				EB	M2-1	Junction		30 x 21	Black	White	XI	4.38								1
S-11	RT	75	794+70	EB	M1-5a	State Route Sign (3 or 4 digit)	KY 1767	45 x 36	Black	White	XI	11.25	Std w/ Soil Plate	Yes	2	14.8			29.5	1
				WB	R5-1	Do Not Enter	On back of KY 1767	36 x 30	White	Red	XI	9.00								1
S-15	RT	93	795+90	SB	R6-1L	One Way East	At Loon #1	54 x 18	Black	White	XI	6.75	Std w/ Soil Plate	Yes	1	11.5			11.5	1
				WB	M3-2	US Route Sign (1 or 2 digit)	Assembly 1	36 x 18	Black	White	XI	4.50								1
				WB	M1-4	US Route Sign (1 or 2 digit)	Assembly 1	36 x 36	Black	White	XI	9.00		Yes	2			Yes	33.7	1
S-16	MED	5	796+20	WB	M1-5a	State Route Sign (3 or 4 digit)	Assembly 1	45 x 36	Black	White	XI	11.25								1
				WB	CUST	U-Turn	Assembly 1	30 x 21	Black	White	XI	4.38								1
				WB	M3-1	North	Assembly 2	36 x 18	Black	White	XI	4.50								1
				WB	M1-4a	US Route Sign (3 digit)	Assembly 2	45 x 36	Black	White	XI		Type D Surface Mount	Yes	1	13.8			13.8	1
S-17	RT	83	796+80	WB	CUST	U-Turn	Assembly 2	30 x 21	Black	White	XI	4.38								1
				EB	R8-3	No Parking (symbol)	At Loon #1	36 x 36	Red & Black	White	XI	9.00	Std w/ Soil Plate		1	12.5			12.5	1
				WB	M3-4	US Route Sign (1 or 2 digit)	US 60	36 x 18	Black	White	XI	4.50								1
S-20	LT	64	799+20	WB	M6-3	Straight Arrow South		30 x 21	Black	White	XI	4.38								1
				WB	M3-3	US Route Sign (3 digit)	US 231	45 x 18	Black	White	XI	4.50								1
				WB	M1-4a	Straight Arrow		45 x 36	Black	White	XI	11.25								1
				WB	M6-3	Wrong Way		30 x 21	Black	White	XI	4.38								1
S-21	RT	75	799+35	WB	R5-1a	Do Not Enter	Facing westbound	42 x 30	White	Red	XI	8.75	Std w/ Soil Plate	Yes	1	13.5			13.5	1
S-23	RT	75	800+91	WB	R5-1	Do Not Enter	Facing westbound	36 x 36	White	Red	XI	9.00	Std w/ Soil Plate	Yes	1	12.5			12.5	1
				WB	M3-2	East		36 x 18	Black	White	XI	4.50								1
S-24	MED	13	801+30	WB	M1-4	US Route Sign (1 or 2 digit)	US 60	36 x 36	Black	White	XI	9.00								1
				WB	M3-1	North		36 x 18	Black	White	XI	4.50								1
				WB	M1-4a	US Route Sign (3 digit)	US 231	45 x 36	Black	White	XI	11.25		Yes	2			Yes	34.0	1
				WB	M6-2L	Upward Left Diagonal Arrow		30 x 21	Black	White	XI		Type D Surface Mount							1
				EB	M3-2	East		36 x 18	Black	White	XI	4.38								1
S-27	RT	85	801+75	EB	M1-5a	State Route Sign (3 or 4 digit)	KY 1767	45 x 36	Black	White	XI	11.25	Std w/ Soil Plate	Yes	2	15.5			31.0	1
				EB	M6-1R	Right Arrow		30 x 21	Black	White	XI	4.38								1
S-29	MED	15	801+85	EB	R3-4	No U-Turn		36 x 36	Red & Black	White	XI	9.00	Type D Surface Mount	Yes	1	11.0			11.0	1
S-30	MED	15	802+07	SB	R6-1R	One Way		54 x 18	Black	White	XI									1
S-31	RT	45	49+10	SB	R6-1R	One Way Stop		54 x 18	Black	White	XI	6.75	Std w/ Soil Plate	Yes	1	11.0			11.0	1
				SB	R1-1	Stop		48 x 48	White	Red	XI	16.00		Yes	2				30.0	1
S-32	RT	25	48+20	SB	CUST	RCUT Destination		72 x 36	White	Green	XI	18.00	Type D	Yes	2	12.3			24.5	1
S-33	RT	25	47+14	SB	R3-5R	Right Turn ONLY		30 x 36	Black	White	XI		Std w/ Soil Plate		1	12.5			12.5	1
S-34	RT	38	57+03	NB	W3-1	Stop Ahead		30 x 30	Red & Black	Yellow	XI	6.25	Std w/ Soil Plate		1	13.3			13.3	1
				NB	M2-1	Junction		21 x 15	Black	White	XI	2.19								1
S-35	RT	40	55+00	NB	M1-4	US Route Sign (1 or 2 digit)	US 60	24 x 24	Black	White	XI	4.00	Std w/ Soil Plate		1	12.8			12.8	1

SIGN LOCATION				SHEETING										SBM Alum		TOTAL						
Assembly ID	Side of Road	Approx Offset (ft)	Facing Traffic Traveling	MUTCD Code	Sign Description	Sign Text / Remarks	Sign Dimensions (in x in)	Text/ Symbol Color	Background Color	Sheeting Type	Sheet Signs 0.080 IN (SQ FT)	Sheet Signs 0.125 IN (SQ FT)	Installation Type	Bracing Req'd	# of Sign Posts	Estimated Length of 2" Post (ft)	Estimated Length of 2-1/2" Post (ft)	2-1/4" Stiffener Req'd (includnt to post)	Sign Post Length (LF)	Barcode Sign Inv. (EACH)		
S-36	RT	45	53+90	NB	M4-5	To South	24 x 12	Black	White	XI	2.00									1		
				NB	M3-3		24 x 12	Black	White	XI	2.00								1			
				NB	M1-4a	US Route Sign (3 digit)	US 231	30 x 24	Black	White	XI	5.00							1			
				NB	M3-4	West		30 x 21	Black	White	XI	4.38							1			
				NB	M1-4	US Route Sign (1 or 2 digit)	US 60	24 x 24	Black	White	XI	4.00			Type D	Yes	2	18.0	Yes	36.0	1	
S-37	RT	45	53+90	NB	M5-1R	Advance Right Turn Arrow	21 x 15	Black	White	XI	2.19									1		
				NB	M3-1	North	24 x 12	Black	White	XI	2.00									1		
				NB	M1-4a	US Route Sign (3 digit)	US 231	30 x 24	Black	White	XI	5.00								1		
				NB	M3-2	East	24 x 12	Black	White	XI	2.00									1		
				NB	M1-4	US Route Sign (1 or 2 digit)	US 60	24 x 24	Black	White	XI	4.00									1	
S-38	RT	45	53+90	NB	M5-1R	Advance Right Turn Arrow	21 x 15	Black	White	XI	2.19									1		
				NB	R3-5R	Right Turn ONLY	30 x 36	Black	White	XI	7.50			Stnd w/ Soil Plate		1	12.5			12.5	1	
				NB	CUST	RCUT Destination	72 x 36	White	Green	XI			18.00	Type D	Yes	2	12.3			24.5	1	
				NB	R6-1R	One Way Stop	54 x 18	Black	White	XI			6.75	Type D		2				30.0	1	
				NB	R1-1	Stop	48 x 48	White	Red	XI			16.00	Type D Surface Mount	Yes	1	9.5			9.5	1	
S-39	RT	48	50+90	NB	R6-1R	One Way	54 x 18	Black	White	XI	9.00									1		
				NB	M3-4	West	30 x 21	Black	White	XI	4.38									1		
				NB	M1-4	US Route Sign (1 or 2 digit)	US 60	24 x 24	Black	White	XI	4.00									1	
				NB	M5-1R	Advance Right Turn Arrow	21 x 15	Black	White	XI	2.19										1	
				NB	R3-5R	Right Turn ONLY	30 x 36	Black	White	XI	7.50			Stnd w/ Soil Plate		1	12.5			12.5	1	
S-40	MED	15	803+05	NB	M3-4	West	36 x 18	Black	White	XI	4.50									1		
				NB	M1-4	US Route Sign (1 or 2 digit)	US 60	36 x 36	Black	White	XI	9.00									1	
				NB	M3-3	South	36 x 18	Black	White	XI	4.50										1	
				NB	M1-4a	US Route Sign (3 digit)	US 231	45 x 36	Black	White	XI		11.25	Type D Surface Mount	Yes	2			Yes	34.0	1	
				NB	M6-2L	Upward Left Diagonal Arrow	30 x 21	Black	White	XI	4.38										1	
S-41	MED	15	803+30	NB	R3-4	No U-Turn	36 x 36	Red & Black	White	XI	9.00									1		
				NB	M3-4	West	36 x 18	Black	White	XI	4.50										1	
				NB	M1-4	US Route Sign (1 or 2 digit)	US 60	36 x 36	Black	White	XI	9.00									1	
				NB	M3-3	South	36 x 18	Black	White	XI	4.50										1	
				NB	M1-4a	US Route Sign (3 digit)	US 231	45 x 36	Black	White	XI		11.25	Type D Surface Mount	Yes	2			Yes	34.0	1	
S-42	LT	55	804+85	NB	R5-1a	Wrong Way	42 x 30	White	Red	XI	4.50									1		
				NB	M3-2	East	36 x 18	Black	White	XI	4.50										1	
				NB	M1-4	US Route Sign (1 or 2 digit)	US 60	36 x 36	Black	White	XI	9.00									1	
				NB	M6-3	Straight Arrow	30 x 21	Black	White	XI	4.38										1	
				NB	M3-1	North	36 x 18	Black	White	XI	4.50										1	
S-43	MED	0	806+35	NB	M1-4a	US Route Sign (3 digit)	US 231	45 x 36	Black	White	XI									1		
				NB	M6-3	Straight Arrow	30 x 21	Black	White	XI	4.38										1	
				NB	R8-3	No Parking (symbol)	At Loon #2	30 x 30	Red & Black	White	XI	6.25			Stnd w/ Soil Plate		1	12.5			12.5	1
				NB	M3-4	West	36 x 18	Black	White	XI	4.50										1	
				NB	M1-4	US Route Sign (1 or 2 digit)	US 60	36 x 36	Black	White	XI	9.00										1
S-44	MED	4	812+50	NB	M3-3	South	36 x 18	Black	White	XI	4.50									1		
				NB	M1-4a	US Route Sign (3 digit)	US 231	45 x 36	Black	White	XI		11.25								1	
				NB	CUST	U-Turn	30 x 21	Black	White	XI	4.38										1	
				NB	R6-1L	One Way	54 x 18	Black	White	XI	6.75			Stnd w/ Soil Plate	Yes	1	11.5			11.5	1	
				NB	R3-4	No U-Turn	Facing westbound	36 x 36	Red & Black	White	XI	9.00			Stnd w/ Soil Plate	Yes	1	13.0			13.0	1
S-45	MED	7	814+15	NB	R5-1	Do Not Enter	36 x 36	White	Red	XI	9.00									1		
				NB	M2-1	Junction	30 x 21	Black	White	XI	4.38										1	
				NB	M1-5a	State Route Sign (3 or 4 digit)	KY 1767	45 x 36	Black	White	XI		11.25	Stnd w/ Soil Plate	Yes	2	14.8			29.5	1	
				NB	R5-1	Do Not Enter	On back of KY 1767	36 x 30	White	Red	XI	9.00									1	
				NB	R5-1a	Wrong Way	42 x 30	White	Red	XI		8.75	Stnd w/ Soil Plate	Yes	1	12.5			12.5	1		
S-46	RT	56	818+45	NB	R5-1a	Wrong Way	42 x 30	White	Red	XI										1		
				NB	R5-1a	Wrong Way	42 x 30	White	Red	XI		8.75	Stnd w/ Soil Plate	Yes	1	11.5			11.5	1		
				NB	R2-1	Speed Limit XX	55 MPH	36 x 48	Black	White	XI		12.00	Stnd w/ Soil Plate		2	14.0			28.0	1	
				NB	R5-1a	Wrong Way	42 x 30	White	Red	XI		8.75	Stnd w/ Soil Plate	Yes	1	11.5			11.5	1		
				NB	R5-1a	Wrong Way	42 x 30	White	Red	XI		8.75	Stnd w/ Soil Plate	Yes	1	12.5			12.5	1		

SIGN LOCATION										MUTCD Code	Sign Description	Sign Text / Remarks	Sign Dimensions (in x in)	SHEETING			SBM Alum Sheet Signs 0.080 IN (SQ FT)	SBM Alum Sheet Signs 0.125 IN (SQ FT)	Installation Type	Bracing Req'd	# of Sign Posts	Estimated Length of 2" Post (ft)	Estimated Length of 2-1/2" Post (ft)	2-1/4" Stiffener Req'd (includntl to post)	TOTAL Estimated Sign Post Length (LF)	Barcode Sign Inv. (EACH)
Assembly ID	Side of Road	Approx Offset (ft)	Approx Station	Facing Traffic Traveling	Text/ Symbol Color	Background Color	Sheeting Type																			
S-68	MED	5	819+65	WB	R3-4	No U-Turn	Facing eastbound	36 x 36	Red & Black	White	Xi	9.00		Std w/ Soil Plate	Yes	1	13.0			13.0			1	1		
S-69	LT	62	819+65	WB	R5-1	Do Not Enter	Facing westbound	36 x 36	White	Red	Xi	9.00		Std w/ Soil Plate					28.0			1	1			
S-70	RT	55	819+65	WB	R2-1	Speed Limit XX	55 MPH	36 x 48	Black	White	Xi		12.00	Std w/ Soil Plate	Yes	2	14.0		13.0			1	1			
S-71	RT	85	821+25	WB	R5-1	Do Not Enter	Facing westbound	36 x 36	White	Red	Xi	9.00		Std w/ Soil Plate	Yes	1	13.0		11.5			1	1			
				WB	R6-1L	One Way	At Loon #3	54 x 18	Black	White	Xi		6.75	Std w/ Soil Plate	Yes	1	11.5					1	1			
				WB	M3-2	East		36 x 18	Black	White	Xi	4.50										1	1			
S-72	MED	0	821+65	WB	M1-4	US Route Sign (1 or 2 digit)	US 60	36 x 36	Black	White	Xi	9.00		Type D	Yes	2		14.8	Yes	29.5			1	1		
				WB	CUST	U-Turn		30 x 21	Black	White	Xi	4.38										1	1			
				WB	M3-1	North		36 x 18	Black	White	Xi	4.50										1	1			
				WB	M1-4a	US Route Sign (3 digit)	US 231	45 x 36	Black	White	Xi		11.25									1	1			
S-73	RT	55	822+40	WB	CUST	U-Turn		30 x 21	Black	White	Xi	4.38		Std w/ Soil Plate		1	12.5			12.5			1	1		
				WB	R8-3	No Parking (symbol)	At Loon #3	30 x 30	Red & Black	White	Xi	6.25										1	1			
				WB	M3-4	West		36 x 18	Black	White	Xi	4.50										1	1			
S-74	LT	60	824+15	WB	M1-4	US Route Sign (1 or 2 digit)	US 60	36 x 36	Black	White	Xi	9.00		Type D	Yes	2		14.5	Yes	29.0			1	1		
				WB	M6-3	Straight Arrow		30 x 21	Black	White	Xi	4.38										1	1			
				WB	M3-3	South		36 x 18	Black	White	Xi	4.50										1	1			
				WB	M1-4a	US Route Sign (3 digit)	US 231	45 x 36	Black	White	Xi		11.25									1	1			
				WB	M6-3	Straight Arrow		30 x 21	Black	White	Xi	4.38										1	1			
				WB	M3-2	East		36 x 18	Black	White	Xi	4.50										1	1			
S-75	MED	10	825+60	WB	M1-4	US Route Sign (1 or 2 digit)	US 60	36 x 36	Black	White	Xi	9.00		Type D	Yes	2		13.5	Yes	27.0			1	1		
				WB	M6-2L	Upward Left Diagonal Arrow		30 x 21	Black	White	Xi	4.38										1	1			
				WB	M3-1	North		36 x 18	Black	White	Xi	4.50										1	1			
S-76	RT	80	831+00	WB	R5-1a	Wrong Way	Facing westbound	42 x 30	White	Red	Xi		8.75	Std w/ Soil Plate	Yes	1	12.5			12.5			1	1		
S-77	RT	80	833+25	WB	D1-1	Destination (1 line)	Wright's Landing Rd	102 x 18	White	Green	Xi	12.75		Std w/ Soil Plate		2	12.2		24.3			1	1			
S-78	RT	85	833+70	WB	R5-1	Do Not Enter	Facing westbound	36 x 36	White	Red	Xi	9.00		Std w/ Soil Plate	Yes	1	13.0		13.0			1	1			
S-79	MED	14	834+10	WB	R3-4	No U-Turn		36 x 36	Red & Black	White	Xi	9.00		Type D Surface Mount		1	11.0			11.0			1	1		
S-80	MED	15	834+30	WB	R6-1R	One Way		54 x 18	Black	White	Xi		6.75	Std w/ Soil Plate	Yes	1	9.5			9.5			1	1		
S-81	RT	40	49+10	WB	R6-1R	One Way		54 x 18	Black	White	Xi		6.75	Type D	Yes	2		10.5		21.0			1	1		
S-82	RT	30	47+75	WB	R1-1	Stop		48 x 48	White	Red	Xi		16.00									1	1			
S-83	RT	30	46+40	WB	CUST	RCUT Destination		72 x 36	White	Green	Xi		18.00	Type D	Yes	2	12.3			24.5			1	1		
S-84	RT	20	56+00	WB	R3-5R	Right Turn ONLY		30 x 36	Black	White	Xi	7.50		Std w/ Soil Plate		1	12.0		12.0			1	1			
				NB	W3-1	Stop Ahead		30 x 30	Red & Black	Yellow	Xi	6.25		Std w/ Soil Plate		1	13.3		13.3			1	1			
				NB	M2-1	Junction		21 x 15	Black	White	Xi	2.19										1	1			
S-85	RT	15	54+60	NB	M1-4	US Route Sign (1 or 2 digit)	US 60	24 x 24	Black	White	Xi	4.00		Std w/ Soil Plate		1	12.8			12.8			1	1		
				NB	M4-5	To		24 x 12	Black	White	Xi	2.00										1	1			
				NB	M3-1	North		24 x 12	Black	White	Xi	2.00										1	1			
				NB	M1-4a	US Route Sign (3 digit)	US 231	30 x 24	Black	White	Xi	5.00										1	1			
				NB	M3-4	West		30 x 21	Black	White	Xi	4.38										1	1			
				NB	M1-4	US Route Sign (1 or 2 digit)	US 60	24 x 24	Black	White	Xi	4.00										1	1			
S-86	RT	25	53+55	NB	M5-1R	Advance Right Turn Arrow		21 x 15	Black	White	Xi	2.19		Type D	Yes	2		16.8	Yes	33.5			1	1		
				NB	M3-1	North		24 x 12	Black	White	Xi	2.00										1	1			
				NB	M1-4a	US Route Sign (3 digit)	US 231	30 x 24	Black	White	Xi	5.00										1	1			
				NB	M3-2	East		24 x 12	Black	White	Xi	2.00										1	1			
				NB	M1-4	US Route Sign (1 or 2 digit)	US 60	24 x 24	Black	White	Xi	4.00										1	1			
S-87	RT	15	52+85	NB	M5-1R	Advance Right Turn Arrow		21 x 15	Black	White	Xi	2.19		Std w/ Soil Plate		1	12.5			12.5			1	1		
S-88	RT	25	51+90	NB	R3-5R	Right Turn ONLY		30 x 36	Black	White	Xi	7.50		Std w/ Soil Plate		1	12.3			24.5			1	1		
S-89	RT	30	50+85	NB	CUST	RCUT Destination		72 x 36	White	Green	Xi		18.00	Type D	Yes	2		15.0		30.0			1	1		
				NB	R6-1R	One Way		54 x 18	Black	White	Xi		6.75	Type D		2						1	1			
S-90	MED	15	835+07	NB	R1-1	Stop		48 x 48	White	Red	Xi		16.00									1	1			
				NB	R6-1R	One Way		54 x 18	Black	White	Xi		6.75	Type D Surface Mount	Yes	1	9.5			9.5			1	1		

SIGN LOCATION				MUTCD Code	Sign Description	Sign Text / Remarks	Sign Dimensions (in x in)	SHEETING			SBM Alum Sheet Signs 0.080 IN (SQ FT)	SBM Alum Sheet Signs 0.125 IN (SQ FT)	Installation Type	Bracing Req'd	# of Sign Posts	Estimated Length of 2" Post (ft)	Estimated Length of 2-1/2" Post (ft)	2-1/4" Stiffener Req'd (includntl to post)	TOTAL Estimated Sign Post Length (LF)	Barcode	
Assembly ID	Side of Road	Approx Offset (ft)	Approx Station					Facing Traffic Traveling	Text/ Symbol Color	Background Color											Sheeting Type
S-91	MED	14	835+37	WB	R3-4	No U-Turn	Facing westbound	36 x 36	Red & Black	White	XI	9.00		Type D Surface Mount	Yes	1	11.0		11.0	1	
S-92	LT	60	835+75	EB	R5-1 M3-4	Do Not Enter West	Facing eastbound	36 x 36	White	Red	XI	9.00		Stnd w/ Soil Plate	Yes	1	13.0		13.0	1	
S-93	MED	12	836+00	EB	M1-4	US Route Sign (1 or 2 digit)	US 60	36 x 36	Black	White	XI	9.00		Type D Surface Mount	Yes	2	17.0	14.0	Yes	34.0	1
				EB	M3-3	South		36 x 18	Black	White	XI	4.50									1
				EB	M1-4a	US Route Sign (3 digit)	US 231	45 x 36	Black	White	XI	11.25									1
				EB	M6-2L	Upward Left Diagonal Arrow		30 x 21	Black	White	XI	4.38									1
S-94	LT	60	837+15	EB	R5-1a M3-2	Wrong Way East	Facing eastbound	42 x 30	White	Red	XI	8.75		Stnd w/ Soil Plate	Yes	1	12.5		12.5	1	
S-96	RT	60	840+50	EB	M1-4	US Route Sign (1 or 2 digit)	US 60	36 x 36	Black	White	XI	9.00		Type D	Yes	2		14.0	Yes	28.0	1
				EB	M6-3	Straight Arrow		30 x 21	Black	White	XI	4.38									1
				EB	M3-1	North		36 x 18	Black	White	XI	4.50									1
				EB	M1-4a	US Route Sign (3 digit)	US 231	45 x 36	Black	White	XI	11.25									1
S-97	LT	60	842+45	WB	D1-1	Destination (1 line)	Wright's Landing Rd	100 x 18	White	Green	XI	12.50		Stnd w/ Soil Plate		2	12.2		24.3	1	
S-98	LT	65	843+60	WB	R8-3 M3-2	No Parking (symbol) East	At Loon #4	30 x 30	Red & Black	White	XI	6.25		Stnd w/ Soil Plate		1	12.5		12.5	1	
S-99	MED	8	844+70	EB	M1-4	US Route Sign (1 or 2 digit)	US 60	36 x 36	Black	White	XI	9.00		Type D	Yes	2		13.5	Yes	27.0	1
				EB	CUST	U-Turn		30 x 21	Black	White	XI	4.38									1
				EB	M3-1	North		36 x 18	Black	White	XI	4.50									1
				EB	M1-4a	US Route Sign (3 digit)	US 231	45 x 36	Black	White	XI	11.25									1
S-100	LT	80	844+75	NB	R6-1L	One Way	At Loon #4	54 x 18	Black	White	XI	6.75		Stnd w/ Soil Plate	Yes	1	11.5		11.5	1	
S-101	RT	65	846+00	EB	R2-1	Speed Limit XX	55 MPH	36 x 48	Black	White	XI	12.00		Stnd w/ Soil Plate		2	15.0		30.0	1	
S-102	MED	3	846+00	WB	R3-4	No U-Turn	Facing westbound	36 x 36	Red & Black	White	XI	9.00		Stnd w/ Soil Plate	Yes	1	13.0		13.0	1	
S-103	LT	60	846+00	EB	R5-1	Do Not Enter	Facing eastbound	36 x 36	White	Red	XI	9.00		Stnd w/ Soil Plate	Yes	1	13.0		13.0	1	

REFER TO THE GENERAL NOTES, SPECIAL NOTE FOR SIGNING, SPECIAL NOTE FOR SIGNAGE, SPECIAL NOTE FOR STAKING, SPECIAL NOTE FOR BARCODES ON PERMANENT SIGNS, STANDARD SIGNING DETAIL SHEETS, AND PLAN SHEETS FOR MORE INFORMATION.

Summary of Items		
Steel Post - Type 1	LF	1398
GMSS Type D	EACH	36
GMSS Type D (Surface Mount)	EACH	16
Class A Concrete for Signs	CU YD	9.0

Summary of Items		
SBM Alum Sheet Signs 0.080 INCH	SQ FT	678.38
SBM Alum Sheet Signs 0.125 INCH	SQ FT	531.75
Barcode Sign Inventory	EACH	169

DAVIESS COUNTY - US 60 ITEM NO. 2-936.00 REMOVE SIGNING SUMMARY					
REMOVE SIGN ASSEMBLY ID	STATION	SIGN LOCATION		QUANTITY	SIGN TYPE
		SIDE OF ROAD	FACING TRAFFIC TRAVELING		
S13	795+35	RT	EB	1	REMOVE INTERSECTION SIGN ASSEMBLY
S14	795+35	MED	EB	1	REMOVE INTERSECTION SIGN ASSEMBLY
S19	801+75	LT	NB	3	REMOVE EXISTING US 60 WEST, US 231 SOUTH, & ONE WAY ASSEMBLIES
S20	799+20	LT	WB	2	REMOVE EXISTING US 60 WEST, & US 231 SOUTH ASSEMBLIES
S22	799+85	RT	EB	1	REMOVE KY 1767 JUNCTION ASSEMBLY
S25	801+40	RT	EB	3	REMOVE EXISTING US 60 EAST, US 231 NORTH, & KY 1767 EAST ASSEMBLIES
S26	801+60	RT	SB	1	REMOVE EXISTING ONE WAY SIGN ASSEMBLY
S31	49+10	RT	SB	1	REMOVE EXISTING STOP SIGN ASSEMBLY
S39	50+90	LT	NB	1	REMOVE EXISTING STOP SIGN ASSEMBLY
S42	49+25	LT	NB	1	REMOVE EXISTING ONE WAY SIGN ASSEMBLY
S44	803+80	LT	WB	3	REMOVE EXISTING US 60 WEST, US 231 SOUTH, & KY 1767 EAST ASSEMBLIES
S46	804+50	RT	EB	2	REMOVE EXISTING US 60 EAST & US 231 NORTH ASSEMBLIES
S50	807+00	LT	WB	1	REMOVE KY 1767 JUNCTION ASSEMBLY
S54	811+60	LT	WB	1	REMOVE INTERSECTION SIGN ASSEMBLY
S55	811+60	MED	WB	1	REMOVE INTERSECTION SIGN ASSEMBLY
S78	833+70	RT	WB	1	REMOVE EXISTING DO NOT ENTER SIGN ASSEMBLY
S81	49+10	RT	WB	1	REMOVE EXISTING STOP SIGN ASSEMBLY
S89	50+85	LT	EB	1	REMOVE EXISTING STOP SIGN ASSEMBLY
S92	835+75	LT	EB	1	REMOVE EXISTING DO NOT ENTER SIGN ASSEMBLY

BID ITEM	ITEM DESCRIPTION	UNITS	QUANTITY
21373ND	REMOVE SIGN	EACH	27

SPECIAL NOTES:
THE DEPARTMENT WILL CONSIDER ALL SIGNS ATTACHED TO ONE OR MORE CONNECTED POSTS AS A SINGLE SIGN. THE DEPARTMENT WILL MEASURE AS EACH SIGN ASSEMBLY REMOVED AND NOT EACH INDIVIDUAL SIGN REMOVED.

REFER TO THE GENERAL NOTES, SPECIAL NOTE FOR SIGNING, SPECIAL NOTE FOR SIGNAGE, SPECIAL NOTE FOR STAKING, SPECIAL NOTE FOR BARCODES ON PERMANENT SIGNS, STANDARD SIGNING DETAIL SHEETS, AND PLAN SHEETS FOR MORE INFORMATION.

ITEM NO. 2-936.00 - DAVIESS COUNTY - US 60 @ HAWES BLVD - RCUT STRIPING AND PAVEMENT MARKING SUMMARY PAGE 1 OF 5						
BEGIN		END		LENGTH	DESCRIPTION	BID UNIT
STATION	OFFSET	STATION	OFFSET			
US 60 Striping						
6" Single Solid White Line (PAVE STRIPING-THERMO-6 IN W)						LF
785+16	44' RIGHT	795+51	44' RIGHT	1035	US 60 Eastbound Thru	1035
795+51	44' RIGHT	796+91	66' RIGHT	157	Loon #1	157
796+91	66' RIGHT	801+55	66' RIGHT	464	US 60 Eastbound Offset Right Turn Lane	464
801+55	66' RIGHT	802+28	144' RIGHT	121	US 60 Eastbound Right Turn Radius	121
797+50	20' RIGHT	799+22	20' RIGHT	172	US 60 Eastbound Left Turn Lane	172
801+35	5' RIGHT	802+56	20' LEFT	127	US 60 Eastbound Left Turn Lane	127
802+64	114' RIGHT	803+38	44' RIGHT	113	Hawes Right Turn Radius to US 60	113
803+38	44' RIGHT	813+50	44' RIGHT	1019	US 60 Eastbound Thru	1019
805+22	20' RIGHT	813+30	20' LEFT	829	US 60 Eastbound U-Turn Lane	829
784+12	44' LEFT	801+65	44' LEFT	665	US 60 Westbound Thru	665
801+65	44' LEFT	802+41	115' LEFT	115	Hawes Right Turn Radius to US 60	115
795+00	20' RIGHT	799+74	20' LEFT	1753	US 60 Westbound U-Turn Lane	1753
802+78	124' LEFT	803+55	44' LEFT	123	US 60 Westbound Right Turn Radius	123
803+55	44' LEFT	811+36	44' LEFT	775	US 60 Westbound Thru	775
811+36	44' LEFT	813+29	44' LEFT	215	Loon #2	215
813+29	44' LEFT	813+50	44' LEFT	21	US 60 Westbound Thru	21
802+50	20' RIGHT	803+60	5' LEFT	116	US 60 Westbound Left Turn Lane	116
805+82	20' LEFT	810+27	20' LEFT	443	US 60 Westbound Left Turn Lane	443
6" Single Dashed White Line (PAVE STRIPING-THERMO-6 IN W)						LF
785+00	32' RIGHT	813+50	32' RIGHT	2850	US 60 Eastbound (10' length, 30' gap)	713
784+25	32' LEFT	813+50	32' LEFT	2925	US 60 Westbound (10' length, 30' gap)	731
6" Single Dotted White Line (PAVE STRIPING-THERMO-6 IN W)						LF
795+50	44' RIGHT	798+00	44' RIGHT	250	Loon #1 (2' length, 2'-6" gap)	111
811+36	44' LEFT	813+29	44' LEFT	193	Loon #2 (2' length, 2'-6" gap)	86
6" Single Solid Yellow Line (PAVE STRIPING-THERMO-6 IN Y)						LF
784+85	20' RIGHT	795+50	20' RIGHT	1065	US 60 Eastbound Thru	1065
796+00	20' RIGHT	796+50	20' RIGHT	50	US 60 Eastbound Thru	50
796+50	20' RIGHT	802+37	20' LEFT	590	US 60 Eastbound Left Turn Lane	590
802+68	20' RIGHT	803+42	20' RIGHT	74	US 60 Eastbound Thru	74
803+42	20' RIGHT	812+80	20' LEFT	972	US 60 Eastbound U-Turn Lane	972
812+81	20' RIGHT	813+50	20' RIGHT	69	US 60 Eastbound Thru	69
784+40	20' LEFT	795+96	20' LEFT	1156	US 60 Westbound Thru	1156
796+00	20' RIGHT	801+53	20' LEFT	587	US 60 Westbound U-Turn Lane	587
801+53	20' LEFT	802+37	20' LEFT	84	US 60 Westbound Thru	84
802+68	20' RIGHT	812+10	20' LEFT	944	US 60 Westbound Left Turn Lane	944
812+10	20' LEFT	812+80	20' LEFT	70	US 60 Westbound Thru	70
813+30	20' LEFT	813+50	20' LEFT	20	US 60 Westbound Thru	20
12" Single Solid White Line (PAVE STRIPING-THERMO-12 IN W)						LF
798+00	44' RIGHT	802+25	44' RIGHT	425	US 60 Eastbound Offset Right Turn Lane	425
798+00	44' RIGHT	799+00	54' RIGHT	100	US 60 Eastbound Offset Right Turn Lane	100
799+00	54' RIGHT	802+25	54' RIGHT	325	US 60 Eastbound Offset Right Turn Lane	325
802+25	44' RIGHT	802+25	54' RIGHT	16	US 60 Eastbound Offset Right Turn Nose	16
799+22	20' RIGHT	801+35	20' RIGHT	213	US 60 Eastbound Left Turn Lane	213
799+22	20' RIGHT	801+35	5' RIGHT	213	US 60 Eastbound Left Turn Lane	213
802+48	54' RIGHT	802+70	54' RIGHT	22	Hawes Northbound Approach Island	22
802+36	54' LEFT	802+57	54' LEFT	21	Hawes Southbound Approach Island	21
803+60	20' LEFT	805+82	20' LEFT	223	US 60 Westbound Left Turn Lane	223
803+60	5' LEFT	805+82	20' LEFT	223	US 60 Westbound Left Turn Lane	223
12" Single Solid Yellow Line (PAVE STRIPING-THERMO-12 IN Y)						LF
801+34	20' RIGHT	802+50	20' RIGHT	116	US 60 Eastbound Thru	116
802+56	20' LEFT	803+60	20' LEFT	104	US 60 Westbound Thru	104

ITEM NO. 2-936.00 - DAVIESS COUNTY - US 60 @ HAWES BLVD - RCUT STRIPING AND PAVEMENT MARKING SUMMARY PAGE 2 OF 5						
BEGIN		END		LENGTH	DESCRIPTION	BID UNIT
STATION	OFFSET	STATION	OFFSET			
US 60 Pavement Marking						
Chevron White Marking (PAVE MARK THERMO CHEVRON)						SQ FT
799+22	20' RIGHT	801+34	5' to 20' RT	212	US 60 Eastbound Left Turn Offset Chevron White - 2' Width @ 20' Spacing	220
803+60	5' to 20' LT	805+82	20' LEFT	222	US 60 Westbound Left Turn Offset Chevron White - 2' Width @ 20' Spacing	214
798+00	44' RIGHT	802+25	44' to 54' RT	425	US 60 Eastbound Right Turn Offset Chevron White - 2' Width @ 20' Spacing	400
Pavement Marking Thermo Turn Arrows (PAVE MARKING-THERMO CURV ARROW)						EACH
797+50	14' RIGHT	802+37	14' LEFT	510	US 60 Eastbound Left Turn Arrows Max Spacing of 80'	7
798+50	60' RIGHT	801+50	60' RIGHT	300	US 60 Eastbound Right Turn Arrows Max Spacing of 80'	5
802+68	14' RIGHT	810+26	14' LEFT	775	US 60 Westbound Left Turn Arrows Max Spacing of 80'	11
Pavement Marking Thermo U-Turn Arrows (PAVE MARKING-THERMO U-TURN)						EACH
795+96	14' LEFT	799+74	14' LEFT	376	US 60 Westbound U-Turn Arrows Max Spacing of 80'	6
805+22	14' RIGHT	812+81	14' RIGHT	760	US 60 Eastbound U-Turn Arrows Max Spacing of 80'	11
Hawes Approach Striping						
4" Single Solid White Line (PAVE STRIPING-PERM PAINT-4 IN W)						LF
48+27	15' RIGHT	48+87	18' RIGHT	60	Hawes Southbound Right Turn Lane	60
48+29	18' LEFT	48+76	18' LEFT	47	Hawes Southbound Receiving Lane	47
51+15	18' LEFT	53+28	16.3' LEFT	216	Hawes Northbound Right Turn Lane	216
51+47	18' RIGHT	53+28	19.7' RIGHT	185	Hawes Northbound Receiving Lane	185
4" Single Solid + Dashed Yellow Line (PAVE STRIPING-PERM PAINT-4 IN Y)						LF
52+37	6' RIGHT	53+27	7.6' RIGHT	90	Hawes Northbound TWLTL	112.5
52+37	6' LEFT	53+27	4.3' LEFT	90	Hawes Northbound TWLTL	112.5
12" Single Solid Yellow Line (PAVE STRIPING-THERMO-12 IN Y)						LF
48+29	0'	49+48	20' RIGHT	126	Hawes Southbound Island	126
48+29	0'	49+47	1' LEFT	120	Hawes Southbound Island	120
50+55	2' RIGHT	52+37	6' RIGHT	184	Hawes Northbound Island	184
50+54	20' LEFT	52+37	6' LEFT	191	Hawes Northbound Island	191
52+37	6' RIGHT	52+37	6' LEFT	19	Hawes Northbound Island Nose	19
Hawes Approach Pavement Markings						
24" Stop Bar (PAVE MARKING-THERMO STOP BAR-24IN)						LF
49+47	25' RIGHT	49+42	42' RIGHT	18	Hawes Southbound Stop Bar	18
50+56	25' LEFT	50+62	39' LEFT	16	Hawes Northbound Stop Bar	16
Cross-Hatch Yellow Marking (PAVE MARKING-THERMO CROSS-HATCH)						SQ FT
48+29	0'	49+47	1' LT to 25' RT	118	Hawes Southbound Island Hatch Yellow - 2' Width @ 20' Spacing	156
50+55	2' RT to 20' LT	52+37	6' LT to 6' RT	184	Hawes Northbound Island Hatch Yellow - 2' Width @ 20' Spacing	284

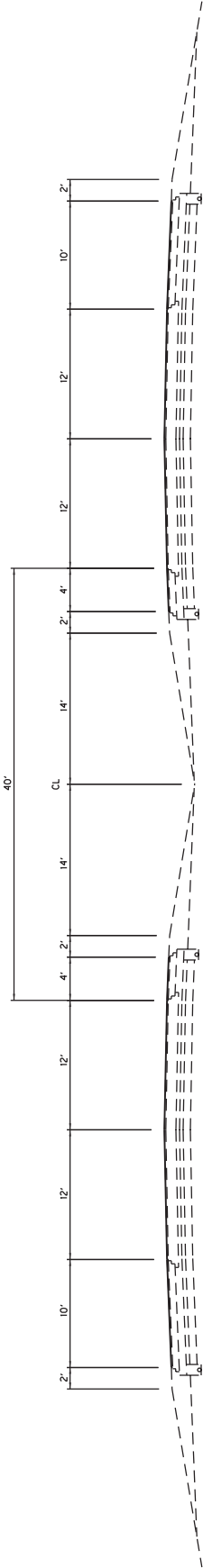
ITEM NO. 2-936.00 - DAVIESS COUNTY - US 60 @ WRIGHTS LANDING - RCUT STRIPING AND PAVEMENT MARKING SUMMARY PAGE 3 OF 5						
BEGIN		END		LENGTH	DESCRIPTION	BID UNIT
STATION	OFFSET	STATION	OFFSET			
US 60 Striping						
6" Single Solid White Line (PAVE STRIPING-THERMO-6 IN W)						LF
820+50	44' RIGHT	820+76	44' RIGHT	26	US 60 Eastbound Thru	26
820+76	44' RIGHT	822+70	44' RIGHT	215	Loon #3	215
822+70	44' RIGHT	833+78	44' RIGHT	1102	US 60 Eastbound Thru	1102
828+12	20' RIGHT	831+45	20' RIGHT	275	US 60 Eastbound Left Turn Lane	331
833+67	5' RIGHT	834+78	20' LEFT	118	US 60 Eastbound Left Turn Lane	118
835+53	44' RIGHT	845+70	44' RIGHT	1012	US 60 Eastbound Thru	1012
837+42	20' RIGHT	845+50	20' LEFT	824	US 60 Eastbound U-Turn Lane	824
820+50	44' LEFT	834+22	44' LEFT	1380	US 60 Westbound Thru	1380
820+75	20' RIGHT	824+47	20' LEFT	392	US 60 Westbound U-Turn Lane	392
835+50	44' LEFT	843+62	44' LEFT	816	US 60 Westbound Thru	816
843+62	44' LEFT	845+49	44' LEFT	211	Loon #4	211
845+49	44' LEFT	845+70	44' LEFT	21	US 60 Westbound Thru	21
834+61	20' RIGHT	835+78	5' LEFT	123	US 60 Westbound Left Turn Lane	123
838+01	20' LEFT	842+60	20' LEFT	460	US 60 Westbound Left Turn Lane	460
6" Single Dashed White Line (PAVE STRIPING-THERMO-6 IN W)						LF
820+50	32' RIGHT	845+70	32' RIGHT	2510	US 60 Eastbound (10' length, 30' gap)	628
820+50	32' LEFT	845+70	32' LEFT	2530	US 60 Westbound (10' length, 30' gap)	633
6" Single Dotted White Line (PAVE STRIPING-THERMO-6 IN W)						LF
820+75	44' RIGHT	822+70	44' RIGHT	195	Loon #3 (2' length, 2'-6" gap)	87
843+62	44' LEFT	845+49	44' LEFT	187	Loon #4 (2' length, 2'-6" gap)	83
6" Single Solid Yellow Line (PAVE STRIPING-THERMO-6 IN Y)						LF
820+50	20' RIGHT	820+75	20' RIGHT	25	US 60 Eastbound Thru	25
821+25	20' RIGHT	825+69	20' RIGHT	443	US 60 Eastbound Thru	443
825+69	20' RIGHT	834+60	20' LEFT	892	US 60 Eastbound Left Turn Lane	892
834+80	20' RIGHT	835+62	20' RIGHT	82	US 60 Eastbound Thru	82
835+62	20' RIGHT	845+00	20' LEFT	970	US 60 Eastbound U-Turn Lane	970
845+03	20' RIGHT	845+70	20' RIGHT	67	US 60 Eastbound Thru	67
820+50	20' LEFT	821+24	20' LEFT	74	US 60 Westbound Thru	74
821+25	20' RIGHT	825+50	20' LEFT	459	US 60 Westbound U-Turn Lane	459
825+50	20' LEFT	834+60	20' LEFT	912	US 60 Westbound Thru	912
834+80	20' RIGHT	844+90	20' LEFT	1014	US 60 Westbound Left Turn Lane	1014
844+90	20' LEFT	845+00	20' LEFT	10	US 60 Westbound Thru	10
845+50	20' LEFT	845+70	20' LEFT	20	US 60 Westbound Thru	20
12" Single Solid White Line (PAVE STRIPING-THERMO-12 IN W)						LF
831+45	20' RIGHT	833+67	20' RIGHT	222	US 60 Eastbound Left Turn Lane	222
831+45	20' RIGHT	833+67	5' RIGHT	222	US 60 Eastbound Left Turn Lane	222
834+60	54' RIGHT	834+77	54' RIGHT	17	Wrights Landing Northbound Approach Island	17
834+67	54' LEFT	834+79	54' LEFT	12	Wrights Landing Southbound Approach Island	12
835+79	20' LEFT	838+01	20' LEFT	222	US 60 Westbound Left Turn Lane	222
835+79	5' LEFT	838+01	20' LEFT	222	US 60 Westbound Left Turn Lane	222
12" Single Solid Yellow Line (PAVE STRIPING-THERMO-12 IN Y)						LF
833+66	20' RIGHT	834+61	20' RIGHT	95	US 60 Eastbound Thru	95
834+78	20' LEFT	835+79	20' LEFT	101	US 60 Westbound Thru	101

ITEM NO. 2-936.00 - DAVIESS COUNTY - US 60 @ WRIGHTS LANDING - RCUT STRIPING AND PAVEMENT MARKING SUMMARY PAGE 4 OF 5						
BEGIN		END		LENGTH	DESCRIPTION	BID UNIT
STATION	OFFSET	STATION	OFFSET			
US 60 Pavement Marking						
Chevron White Marking (PAVE MARK THERMO CHEVRON)						SQ FT
831+45	20' RIGHT	833+67	5' to 20' RT	220	US 60 Eastbound Left Turn Offset Chevron White - 2' Width @ 20' Spacing	200
835+79	5' to 20' LT	838+01	20' LEFT	220	US 60 Westbound Left Turn Offset Chevron White - 2' Width @ 20' Spacing	208
Pavement Marking Thermo Turn Arrows (PAVE MARKING-THERMO CURV ARROW)						EACH
828+12	14' RIGHT	834+60	14' LEFT	670	US 60 Eastbound Left Turn Arrows Max Spacing of 80'	9
834+80	14' RIGHT	842+60	14' LEFT	795	US 60 Westbound Left Turn Arrows Max Spacing of 80'	11
Pavement Marking Thermo U-Turn Arrows (PAVE MARKING-THERMO U-TURN)						EACH
821+24	14' LEFT	824+47	14' LEFT	324	US 60 Westbound U-Turn Arrows Max Spacing of 80'	5
837+42	14' RIGHT	845+03	14' RIGHT	760	US 60 Eastbound U-Turn Arrows Max Spacing of 80'	11
Wrights Landing Approach Striping						
12" Single Solid Yellow Line (PAVE STRIPING-THERMO-12 IN Y)						LF
47+48	0'	49+48	16' RIGHT	207	Wrights Landing Southbound Island	207
47+48	0'	49+47	4' RIGHT	186	Wrights Landing Southbound Island	186
50+56	11' RIGHT	52+30	12' RIGHT	176	Hawes Northbound Island	176
50+54	6' LEFT	52+30	12' RIGHT	184	Hawes Northbound Island	184
Wrights Landing Approach Pavement Markings						
24" Stop Bar (PAVE MARKING-THERMO STOP BAR-24IN)						LF
49+41	21' RIGHT	49+33	41' RIGHT	21	Wrights Landing Southbound Stop Bar	21
50+59	12' LEFT	50+66	35' LEFT	24	Wrights Landing Northbound Stop Bar	24
Cross-Hatch Yellow Marking (PAVE MARKING-THERMO CROSS-HATCH)						SQ FT
47+48	0'	49+48	4' RT to 16' RT	200	Wrights Landing Southbound Island Hatch Yellow - 2' Width @ 20' Spacing	96
50+54	6' LT to 11' RT	52+30	12' RIGHT	175	Wrights Landing Northbound Island Hatch Yellow - 2' Width @ 20' Spacing	150

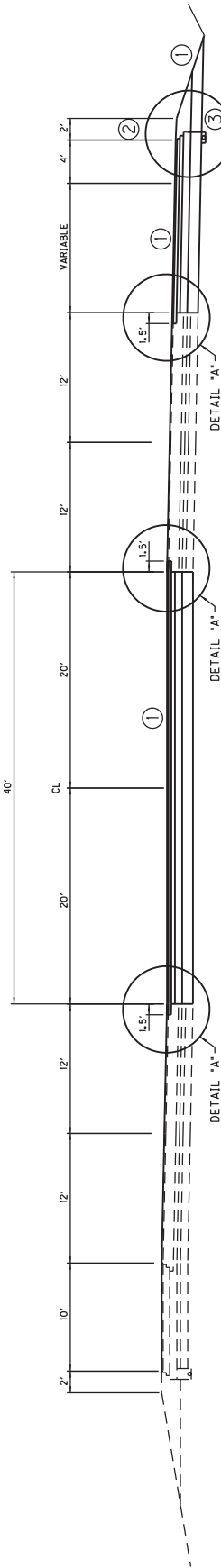
ITEM NO. 2-936.00 - DAVIESS COUNTY - US 60 RCUTS STRIPING AND PAVEMENT MARKING SUMMARY PAGE 5 OF 5			
STRIPING AND PAVEMENT MARKING SUMMARY			
BID ITEM	DESCRIPTION	UNIT	QUANTITY
6514	PAVE STRIPING-PERM PAINT-4 IN W	LF	508
6514	PAVE STRIPING-PERM PAINT-4 IN Y	LF	225
6542	PAVE STRIPING-THERMO-6 IN W	LF	18,364
6543	PAVE STRIPING-THERMO-6 IN Y	LF	10,649
6546	PAVE STRIPING-THERMO-12 IN W	LF	2,698
6547	PAVE STRIPING-THERMO-12 IN Y	LF	2,574
6568	PAVE MARKING-THERMO STOP BAR-24IN	LF	79
6569	PAVE MARKING-THERMO CROSS HATCH (YELLOW)	SQFT	686
6574	PAVE MARKING-THERMO CURV ARROW	EACH	55
24679ED	PAVE MARK THERMO CHEVRON	SQFT	1,242
24889EC	PAVE MARKING-THERMO U-TURN	EACH	33

TYPICAL SECTION AND DETAILS

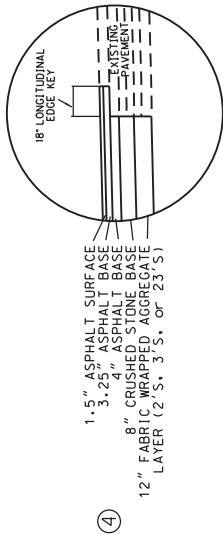
COUNTY OF	ITEM NO.
DAVISS	2-936.00



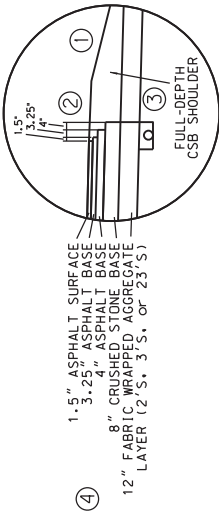
US 60
EXISTING TEMPLATE
1.5" MILLING AND OVERLAY



US 60
LOON LOCATIONS



DETAIL "A"



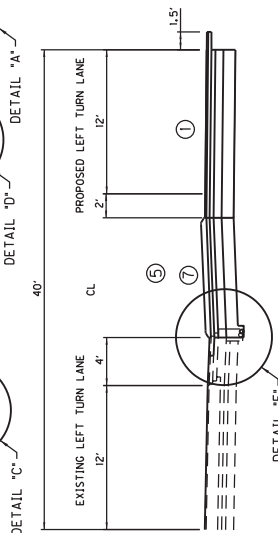
DETAIL "B"

- SEE SECTIONS FOR SLOPES AND ELEVATIONS
- ① ASPHALT SEAL COAT REQUIRED FROM OUTSIDE EDGE OF PAVED SHOULDER TO A POINT 2' DOWN THE DITCH OR FILL SLOPE.
- ② 2.4 LB/SY ASPHALT SEAL COAT (TWO APPLICATIONS) AND 20 LB/SY ASPHALT SEAL AGGREGATE (TWO APPLICATIONS).
- ③ DAYLIGHT SUBGRADE DRAINAGE OR PLACE EDGE DRAIN AS SHOWN IN THE PLANS AND CROSS SECTIONS OR AS DIRECTED BY THE ENGINEER
- ④ BASED ON RECORD PLANS, THE EXISTING PAVEMENT DEPTH MATCHES THE PROPOSED PAVEMENT DEPTH. IF FIELD CONDITIONS REVEAL THE EXISTING THICKNESS TO BE DIFFERENT, ADJUSTMENTS MAY BE MADE BY THE ENGINEER TO BEST MATCH THAT THICKNESS AND INSURE PROPER SUBGRADE DRAINAGE.
- ⑤ 1.5" MILLING AND OVERLAY WILL BE COMPLETED ON HAWES BOULEVARD AND WRIGHTS LANDING ROAD FROM EDGE TO EDGE WITHIN THE LIMITS SHOWN IN THE PLANS.

- ④ 1.5" SURFACE — [1.5" DEPTH CLASS 3 ASPHALT SURFACE 0.50B PG 64-22
- 27.25" BASE — [3.25" DEPTH CLASS 3 ASPHALT BASE 1.00D PG 64-22
- 4" CRUSHED STONE BASE — [4" DEPTH CLASS 3 ASPHALT BASE 1.00D PG 64-22
- 8" CRUSHED STONE BASE — [8" CRUSHED STONE BASE
- 12" FABRIC WRAPPED AGGREGATE LAYER (2' S, 3' S, OR 23' S)

NOT TO SCALE

COUNTY OF	ITEM NO.
DAVIESS	2-936.00



US 60
BARRIER MEDIAN ON EXISTING
AND PROPOSED PAVEMENT



- ① SEE SECTIONS FOR SLOPES AND ELEVATIONS.
- ② ASPHALT SEAL COAT REQUIRED FROM OUTSIDE EDGE OF PAVED SHOULDER TO A POINT 2' DOWN THE DITCH OR FILL SLOPE.
- ③ 2.4 LB/SY ASPHALT SEAL COAT (TWO APPLICATIONS) AND 20 LB/SY ASPHALT SEAL AGGREGATE (TWO APPLICATIONS).
- ④ DAYLIGHT SUBGRADE DRAINAGE OR PLACE EDGE DRAIN AS SHOWN IN THE PLANS AND CROSS SECTIONS OR AS DIRECTED BY THE ENGINEER BASED ON RECORD PLANS, THE EXISTING PAVEMENT DEPTH MATCHES THE PROPOSED PAVEMENT DEPTH, IF FIELD CONDITIONS REVEAL THE EXISTING THICKNESS TO BE DIFFERENT, ADJUSTMENTS MAY BE MADE BY THE ENGINEER TO BEST MATCH THAT THICKNESS AND INSURE PROPER SUBGRADE DRAINAGE.
- ⑤ STANDARD BARRIER MEDIAN TYPE 4 OR TYPE 4 MODIFIED ON EXISTING PAVEMENT & TYPE 2 OR TYPE 2 MODIFIED ON NEW PAVEMENT. SEE PLANS FOR LOCATIONS.
- ⑥ USE LEVELING AND WEDGING AS NEEDED TO FILL THE AREA CAUSED BY THE DIFFERENCES IN SLOPES OF ADJACENT WIDENINGS.
- ⑦ THE CURB FACE OF STANDARD BARRIER MEDIAN TYPE 2 MODIFIED AND TYPE 4 MODIFIED MATCHES THE DIMENSIONS OF ISLAND CURB WHICH CHANGES THE DEPTH OF THE BARRIER MEDIAN. SEE CURRENT STANDARD DRAWINGS FOR FULL DIMENSIONS OF CURB FACE.
- ⑧ WHERE PROPOSED PAVEMENT EDGE DRAIN IS LOCATED IN THE SAME LOCATION OF THE EXISTING EDGE DRAIN SYSTEM, THE DRAINAGE SYSTEM MAY BE USED WITH APPROVAL OF THE ENGINEER IF PROPER DRAINAGE WILL OCCUR.

NOT TO SCALE

US 60 RCUT
TYPICAL SECTION
2 OF 2

COUNTY OF	DAVISS	ITEM NO.	2-936.00
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PIPE UNDERDRAIN CONSTRUCTION CHART				
LT	RT	MED	STATION	
		X	798+00 to 800+05	PERF. PIPE
		X	799+30 to 801+37	NON-PERF. PIPE
		X	803+50 to 805+24	PERF. PIPE
		X	805+24 to 807+00	PERF. PIPE

STA. 802+53.26 M.L. =
STA. 50+01.25 HAWES BLVD.

805+00
47+73

BEGIN ASPH. MILLING AND OVERLAY STA. 48+20

STA. 798+00 TO STA. 807+00 PLACE FLEXIBLE
DELINEATORS ON EACH COMPLETED STANDARD
BARRIER MEDIAN AT 10' INCREMENTS
IN THE MIDDLE OF THE MEDIAN (QTY 99)

PI 806+22.45
D=11" 32'5.3"
T=586.49
L=1169.00
R=5800.00
E=29.58
e=2.9%

MATCH LINE STA. 807+00

MATCH LINE STA. 798+00

DROP BOX & CURB BOX INLET CHART				
INLET #	DBI CBI	TYPE	LT/RT/MED	STA.
				TOP/GRATE THROAT
1	CBI	A	LT.	798+50
2	CBI	A	LT.	799+00
3	CBI	A	RT.	799+03.3
4	CBI	A	LT.	800+00
5	CBI	A	RT.	801+41
6	CBI	A	LT.	803+54
7	CBI	A	RT.	805+24
8	CBI	A	RT.	806+50
9	CBI	A	RT.	807+00

CONSTRUCT STANDARD BARRIER MEDIAN		
STATION TO STATION	TYPE	SO. YDS.
798+00.00 to 801+36.93	2 MOD.	296
801+36.93 to 801+88.39	2	25
801+33.77 to 803+60.49	4	291
801+33.77 to 803+60.49	2	32
803+10.70 to 803+57.42	2	23
803+57.42 to 807+00.00	2 MOD.	301



END ASPH. MILLING AND OVERLAY STA. 52+45

US 60 RCUT
HAWES BOULEVARD
PLAN SHEET STA. 798+00 TO STA. 807+00

DITCH CONSTRUCTION CHART

LT	RT	MED	STA. TO STA.	TYPE	QUANTITY	DEPTH	THICKNESS	DITCH
		X	810+25 to 812+44	ERO BLANKET	195 SY	1.00		V
X			812+39 to 813+32	ERO BLANKET	86 SY	1.00		V

CONSTRUCT STANDARD BARRIER MEDIAN

STATION TO STATION	TYPE	SQ. YDS.
807+00.00 to 809+95.00	2 MOD.	327

LT STA. 812+35 TO STA. 812+72.62
REMOVE 45 L.F. FENCE
CONSTRUCT 40 L.F. FENCE - WOVEN WIRE TYPE I
CLEARING AND GRUBBING ~ 0.01 ACRES
DO NOT DISTURB
EXISTING FENCE
BEYOND LIMITS SHOWN

00+018

STA. 807+00 TO STA. 810+12 PLACE FLEXIBLE
DELINEATORS ON COMPLETED STANDARD
BARRIER MEDIAN AT 10' INCREMENTS
IN THE MIDDLE OF THE MEDIAN (QTY 30)

PI 806+22.45
D=11" 32'53"
T=586.49
L=1169.00
R=5800.00
E=29.58
e=2.9%

CONSTRUCT MEDIAN CROSSOVER AND LOON #2

END ASPH. MILLING AND
OVERLAY LT STA. 813+50

LOON #2

END ASPH. MILLING AND
OVERLAY RT STA. 813+50

MATCH LINE STA. 807+00

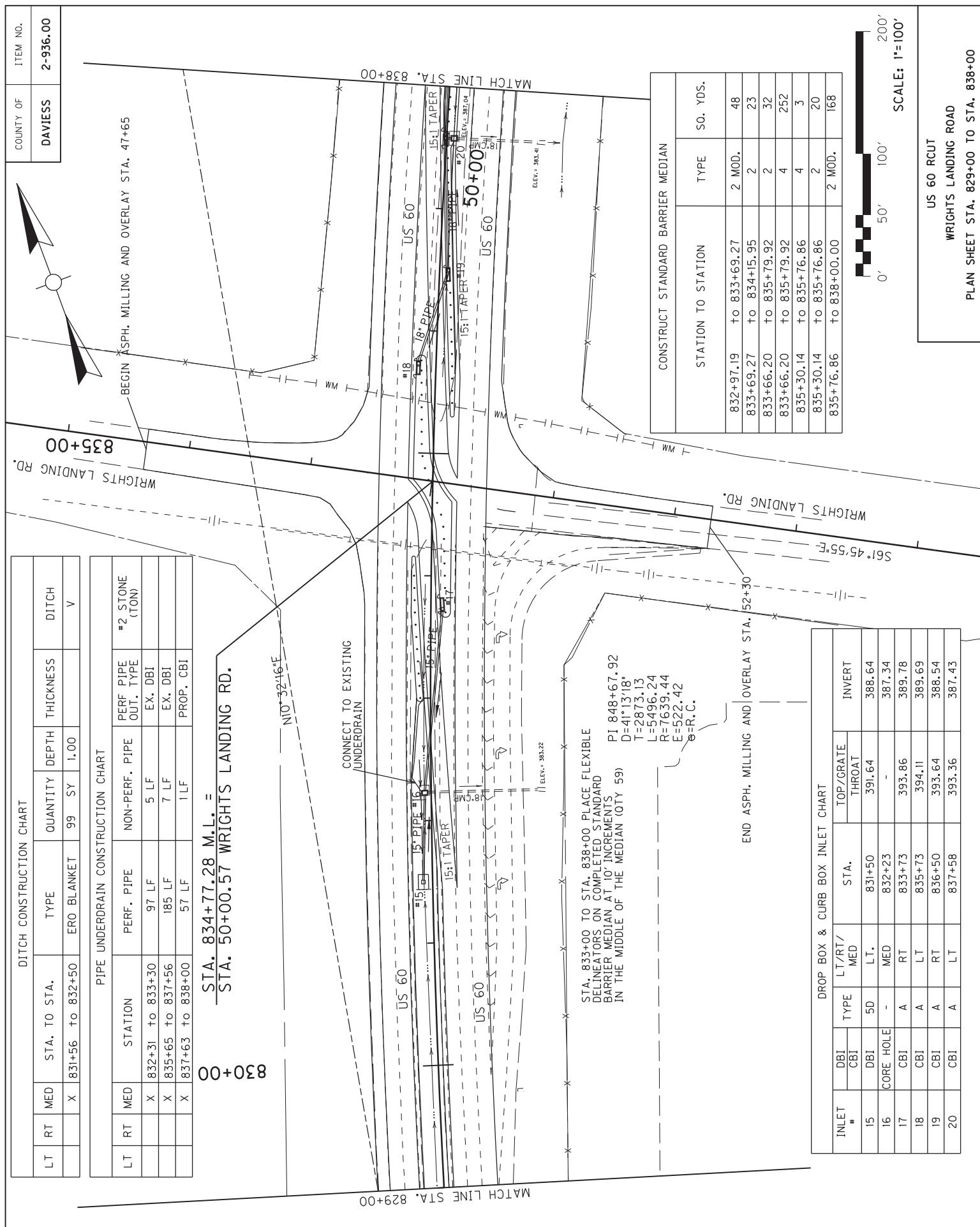
PIPE UNDERDRAIN CONSTRUCTION CHART						
LT	RT	MED	STATION	PERF. PIPE	NON-PERF. PIPE	PERF PIPE OUT. TYPE
		X	807+05 to 808+45	140 LF	2 LF	PROP. CBI
		X	808+55 to 808+71	16 LF	12 LF	EX. CROSS.
		X	808+71 to 812+50	379 LF	11 LF	PROP. DBI, EX. CROSS.
		X	812+50 to 812+83	36 LF	1 LF	PROP. DBI

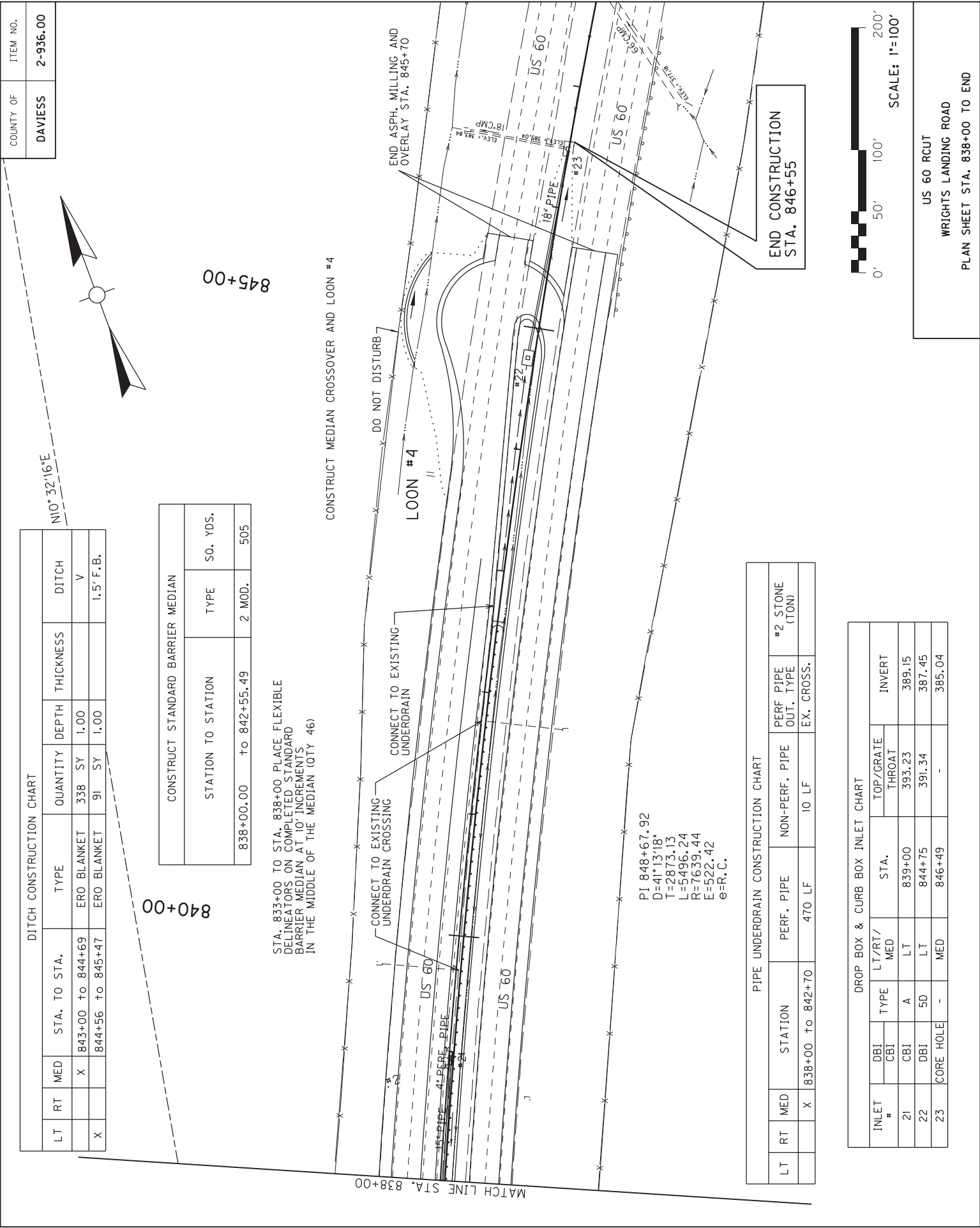
DROP BOX & CURB BOX INLET CHART

INLET #	DBI		TYPE	LT/RT/ MED	STA.	TOP/GRATE THROAT		INVERT
	CBI	DBI						
9		CBI	A	RT.	807+00	393.08		388.87
10		CBI	A	RT.	808+50	392.48		389.60
11		DBI	5D	MED	812+50	391.00		384.88
12		CORE HOLE	-	MED	813+66	-		383.75



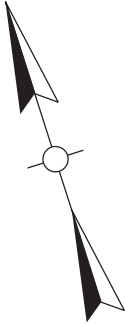
US 60 RCUT
HAWES BOULEVARD
PLAN SHEET STA. 807+00 TO STA. 815+00





US 60 RCUT
WRIGHTS LANDING ROAD
PLAN SHEET STA. 838+00 TO END

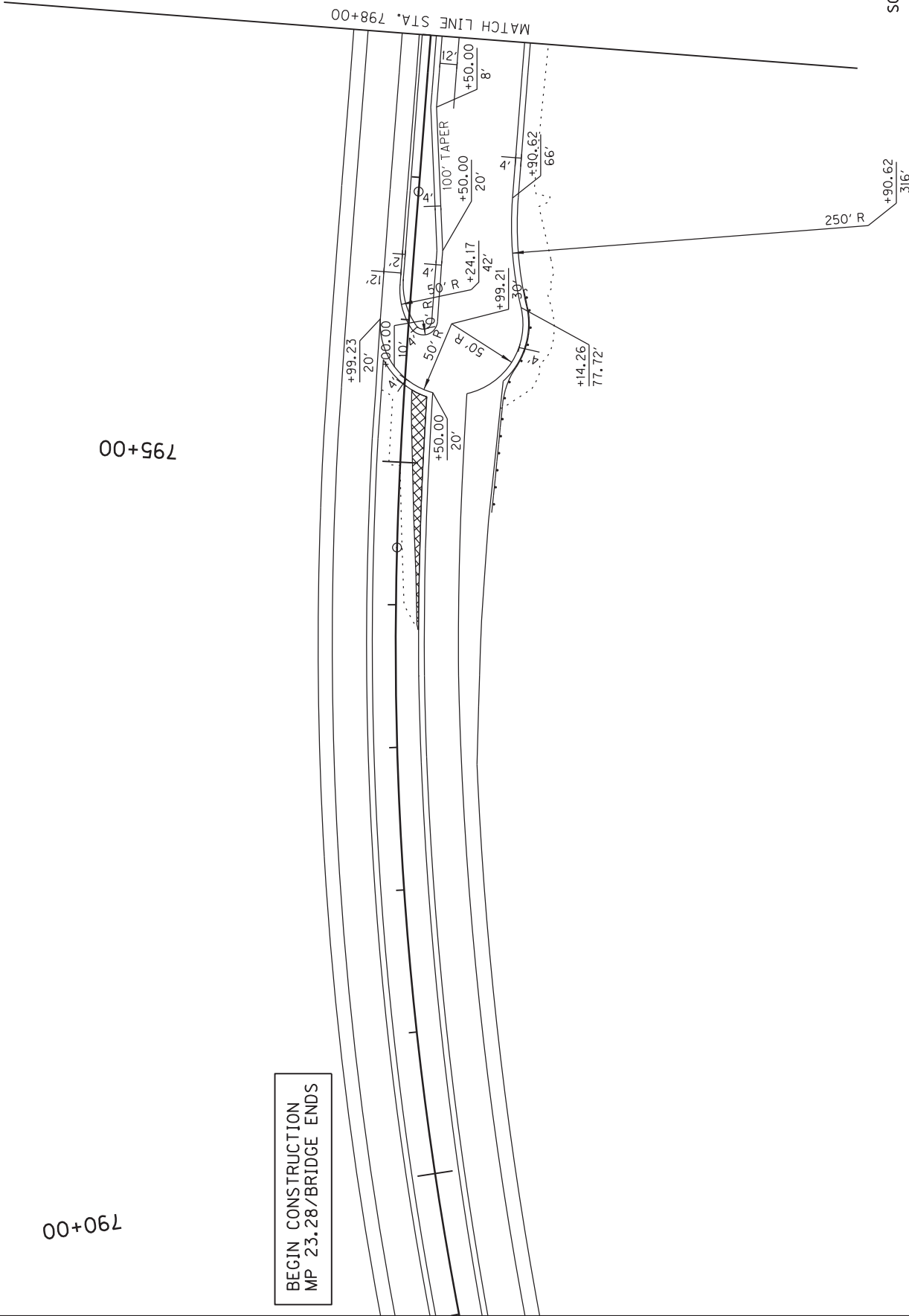
COUNTY OF	ITEM NO.
DAVISS	2-936.00



790+00

795+00

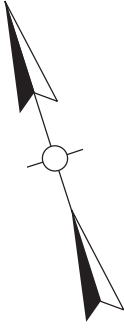
BEGIN CONSTRUCTION
MP 23.28/BRIDGE ENDS



US 60 RCUT
HAWES BOULEVARD
PLAN SHEET BEGIN TO STA. 798+00



COUNTY OF	ITEM NO.
DAVISS	2-936.00



805+00
47+73

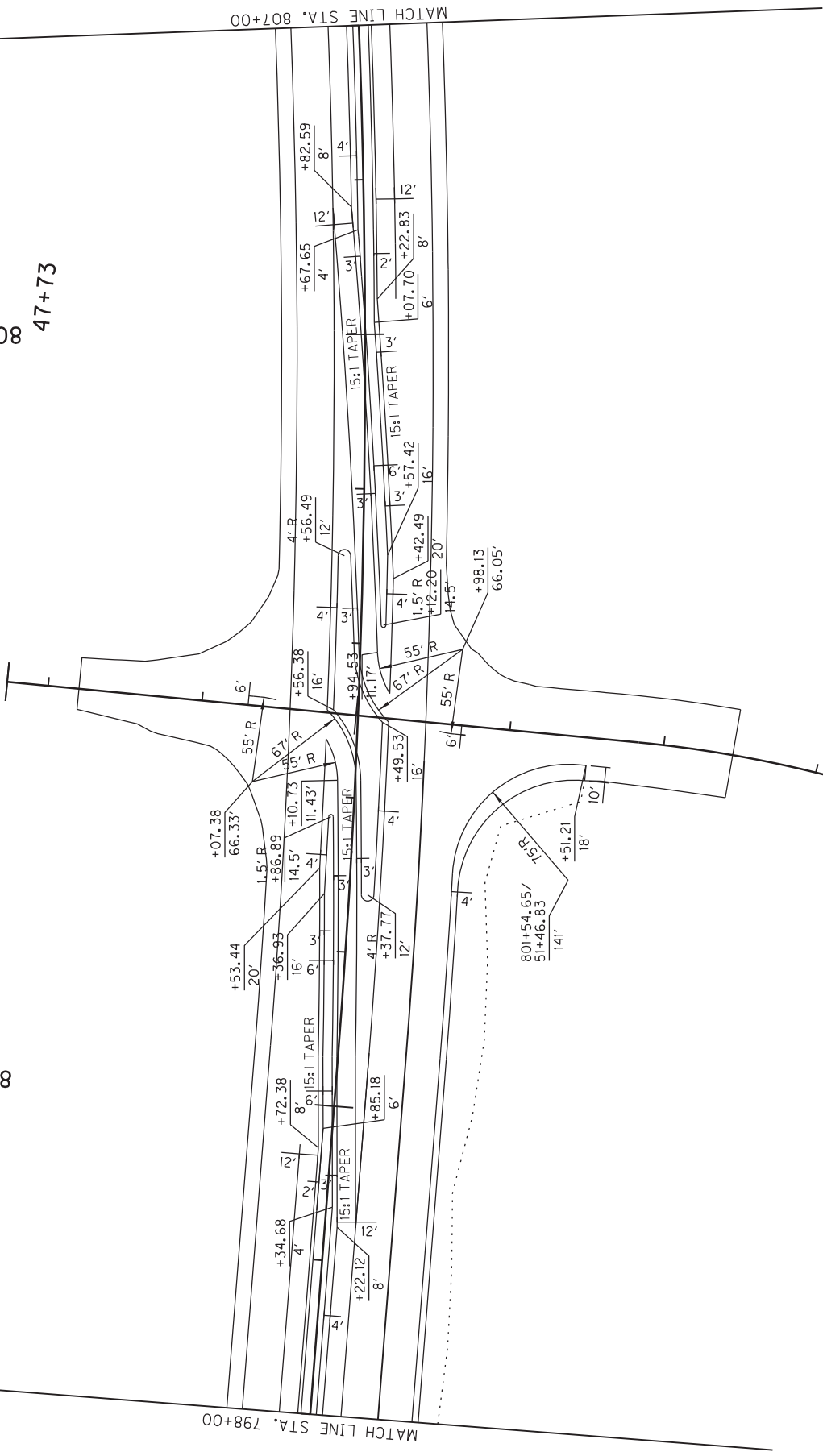
800+00

MATCH LINE STA. 807+00

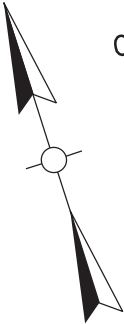
MATCH LINE STA. 798+00



US 60 RCUT
HAWES BOULEVARD
PLAN SHEET STA. 798+00 TO STA. 807+00



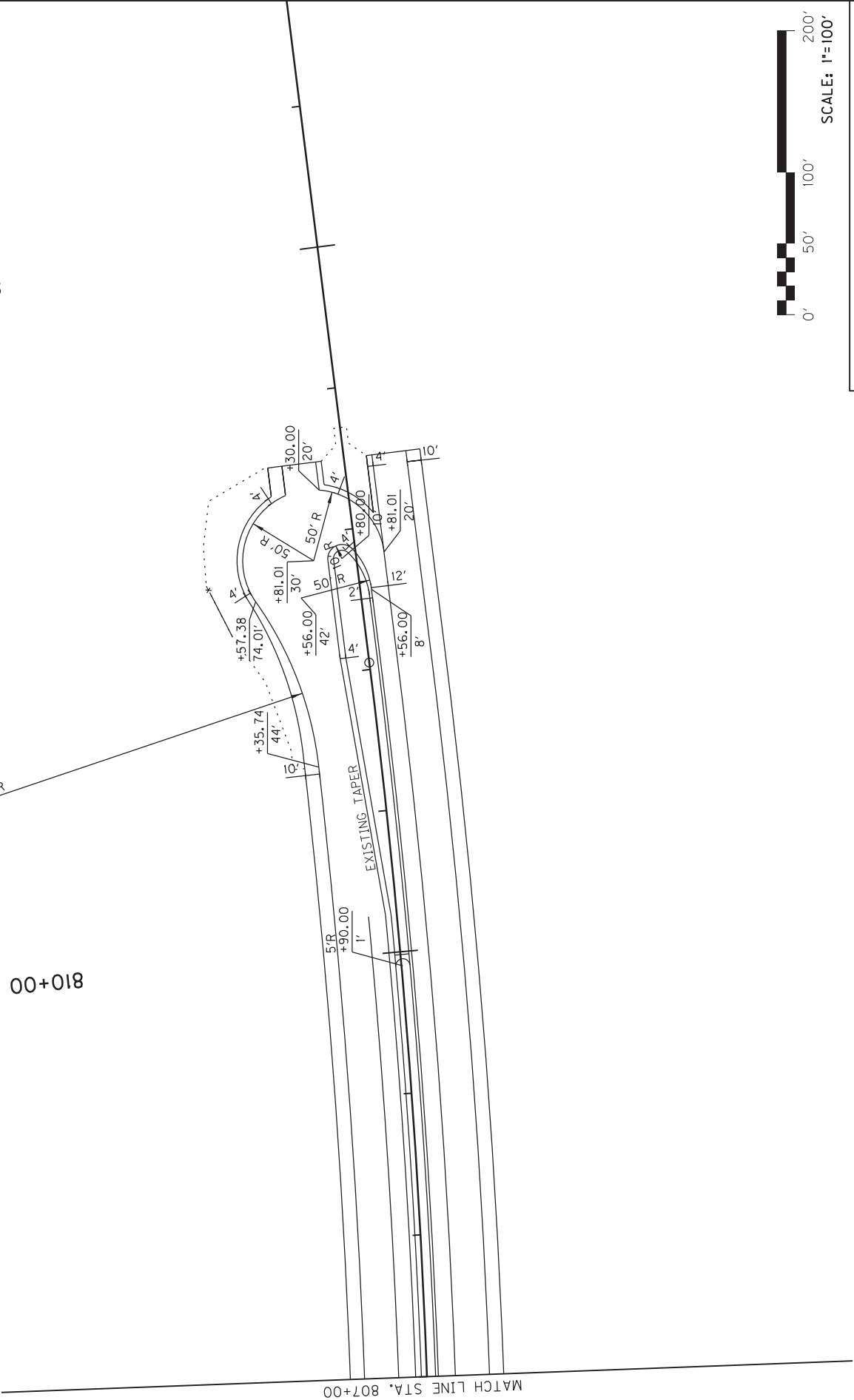
COUNTY OF	ITEM NO.
DAVISS	2-936.00



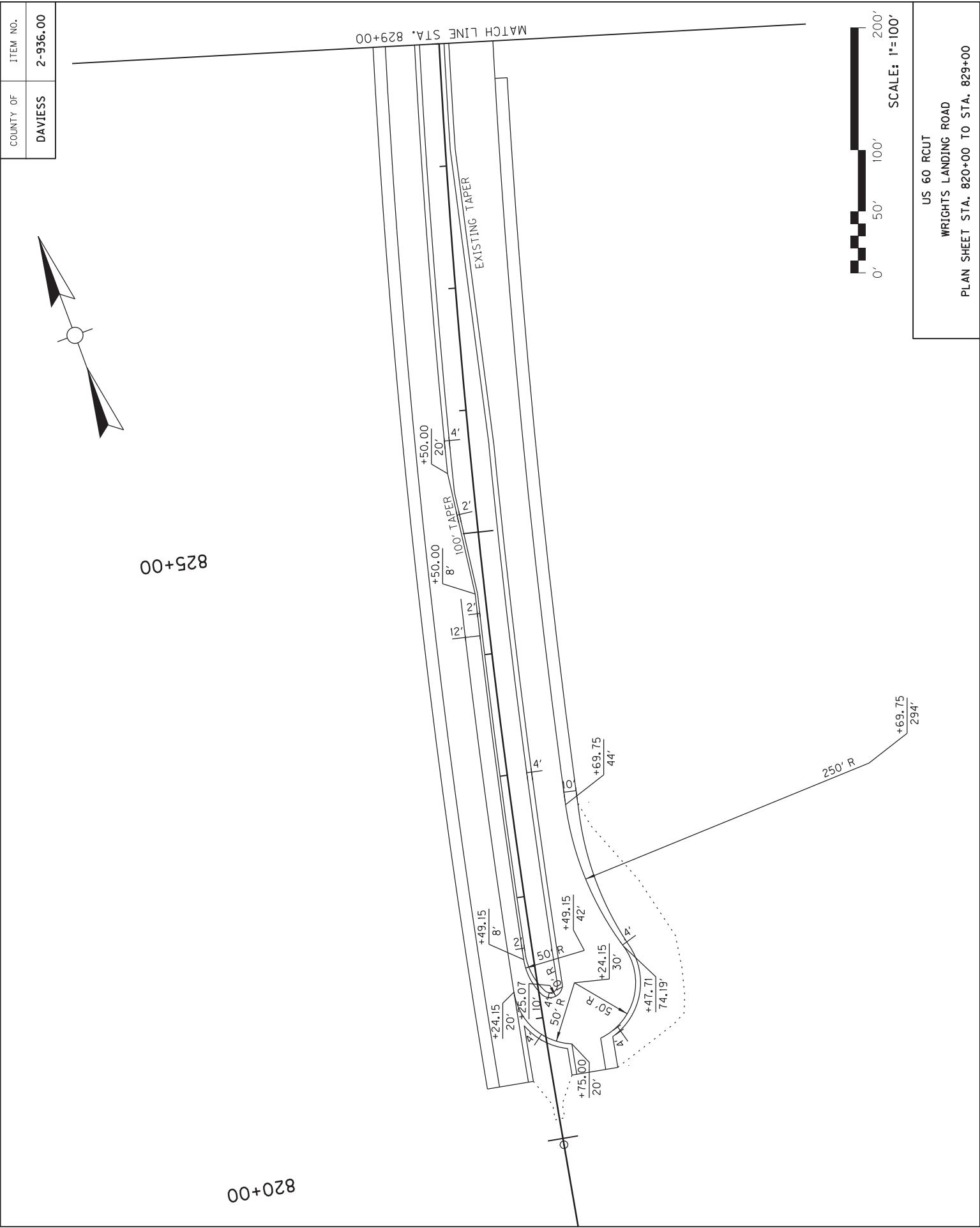
815+00

+35.74
294' 250' R

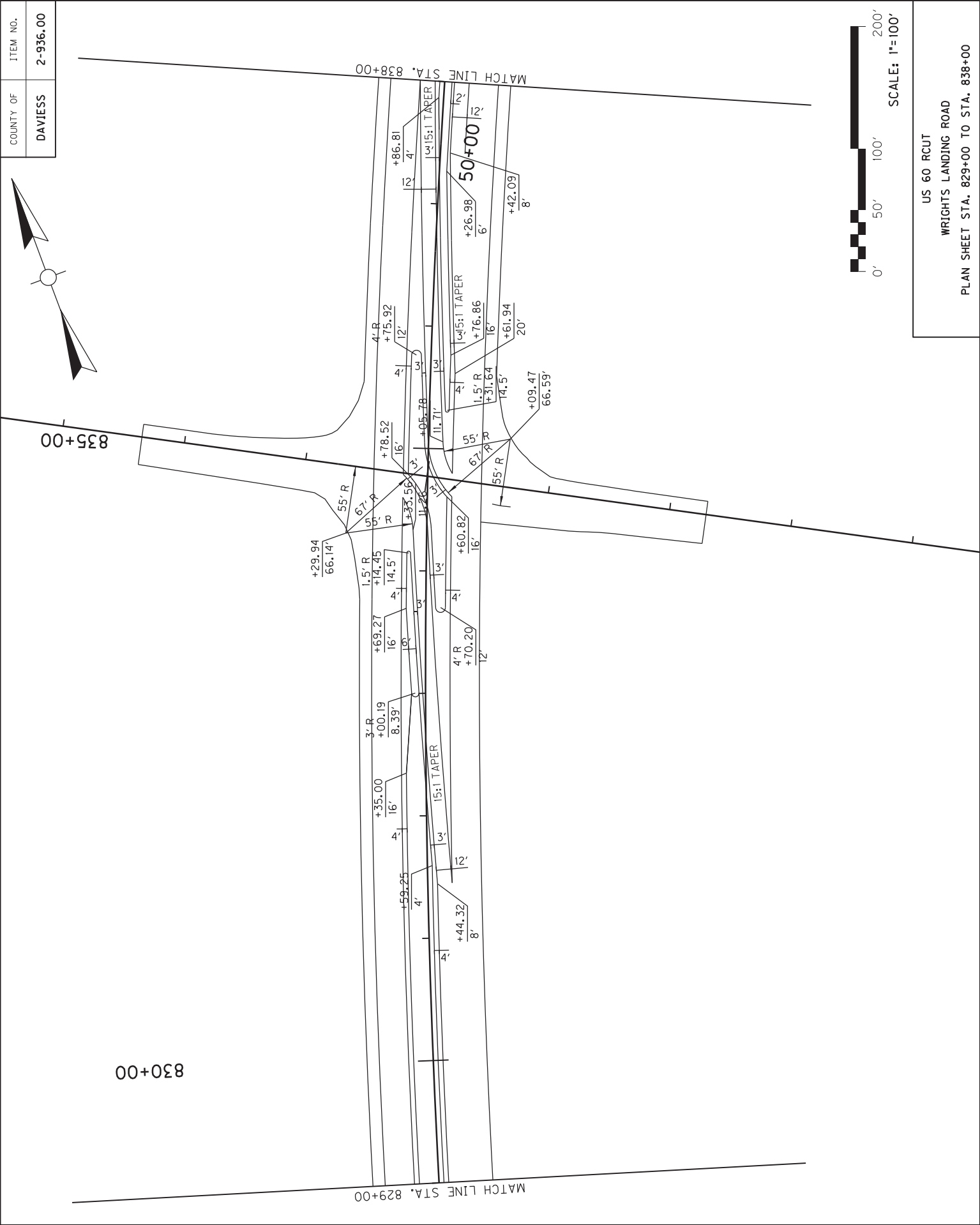
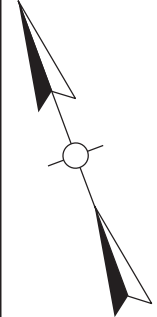
810+00



US 60 RCUT
HAWES BOULEVARD
PLAN SHEET STA. 807+00 TO STA. 815+00

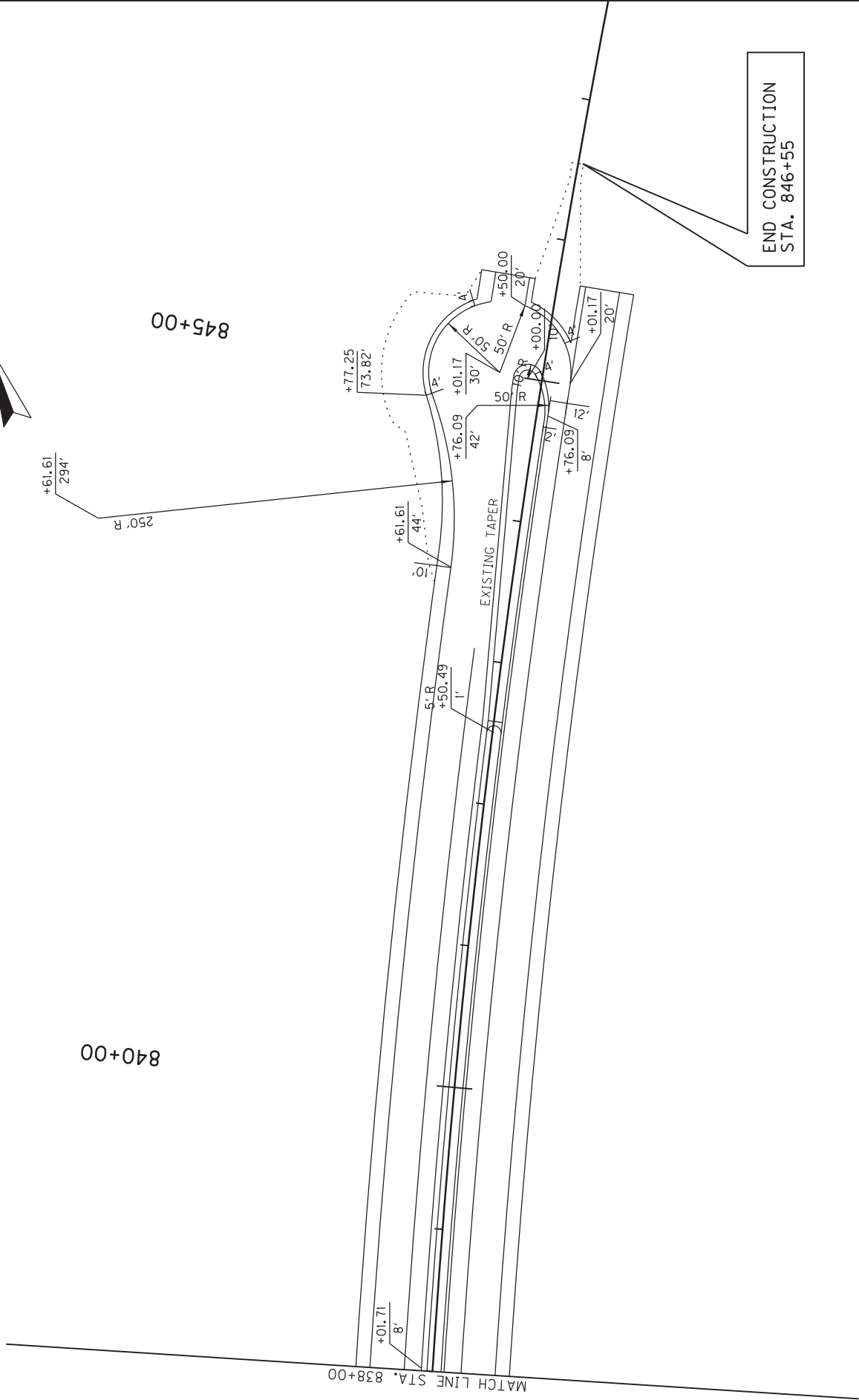


COUNTY OF	ITEM NO.
DAVISS	2-936.00



US 60 RCUT
WRIGHTS LANDING ROAD
PLAN SHEET STA. 829+00 TO STA. 838+00

COUNTY OF	ITEM NO.
DAVISS	2-936.00



US 60 RCUT
WRIGHTS LANDING ROAD
PLAN SHEET STA. 838+00 TO END

COUNTY OF	ITEM NO.
DAVEISS	2-936.00

MAINLINE ALIGNMENT POINTS			
POINT	DESCRIPTION	STATE PLANE COORDINATES	
		NORTH (Y)	EAST (X)
POB	778 + 27.61	3822152.0511	4548184.7812
TS	785 + 20.14	3822844.4705	4548196.8803
SPI	786 + 86.82	3823011.1336	4548199.7925
SC	787 + 70.14	3823094.2971	4548205.4122
PI	791 + 07.15	3823430.5464	4548228.1341
CS	794 + 40.13	3823748.7759	4548339.0839
SPI	795 + 23.48	3823827.4826	4548366.5248
ST	796 + 90.13	3823981.9398	4548429.1987
PC	800 + 35.97	3824302.4005	4548559.2315
PI	806 + 22.45	3824845.8534	4548779.7474
PT	812 + 04.97	3825422.4504	4548887.0055
PC	819 + 94.79	3826198.9480	4549031.4488
PI	848 + 67.92	3829023.6263	4549556.8929
PT	874 + 91.03	3830801.9942	4551813.5068
POE	881 + 44.54	3831206.4935	4552326.7858

COORDINATE SYSTEM

Coordinates for horizontal control were obtained from GPS methods and adjusted to the National NAD83/FBN System.

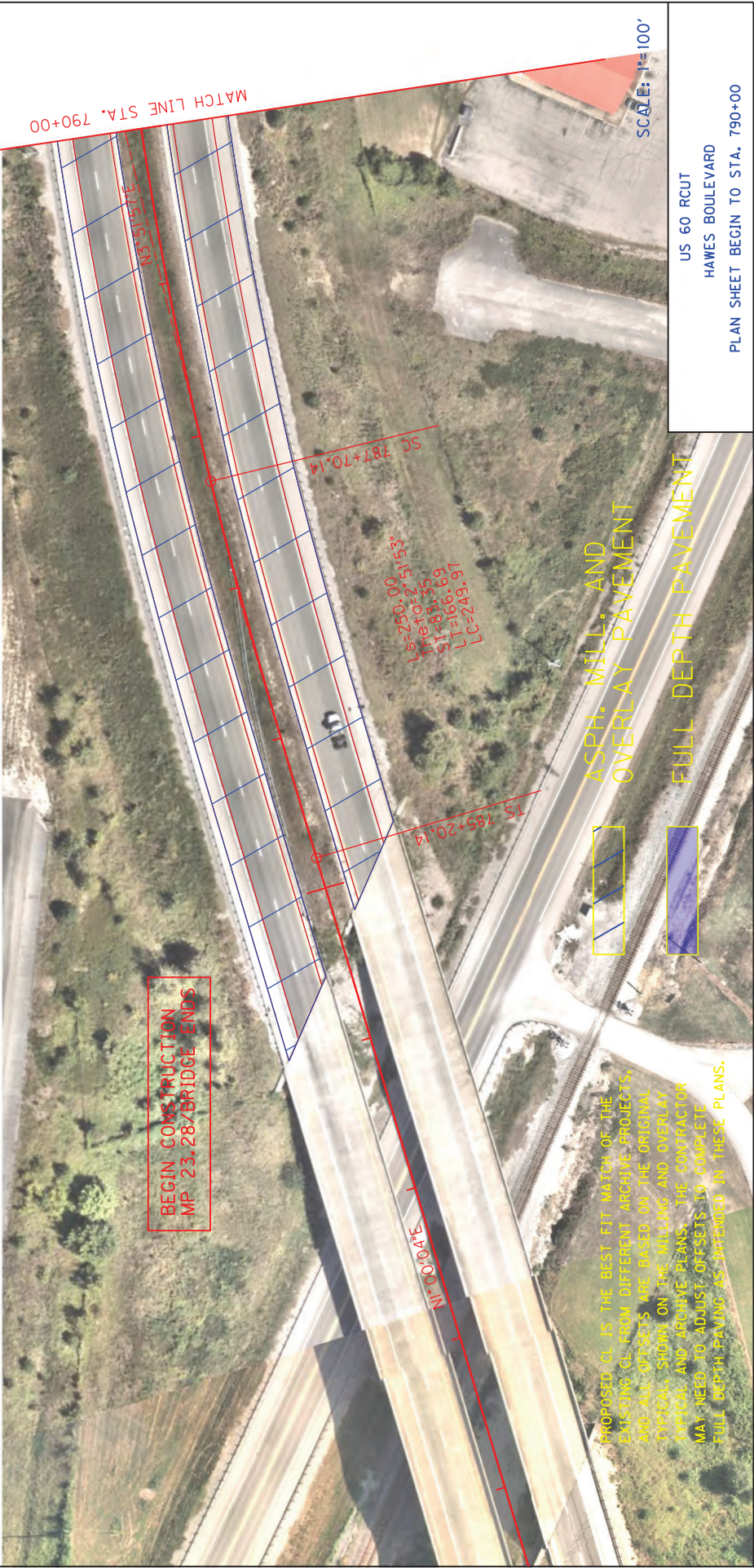
Coordinates are based on State Plane Coordinate System Single Zone and in U.S. Survey Feet.

BASIS OF ELEVATIONS

Elevations were derived from GPS methods and are adjusted to the NAVD88 Vertical Datum. Geoid model used was Geoid09.

POINT	DESCRIPTION	STATE PLANE COORD.			STATION	OFFSET
		NORTH (Y)	EAST (X)	ELEV. (Z)		
1	CP 1	3829116.4710	4550242.0210	393.235	851 + 77.19	3.57 RT
2	DRONE CHECK PT	3828006.1540	4549550.5930	394.106	838 + 72.82	51.34 LT
3	DRONE CHECK PT	3825789.4760	4548902.8640	393.196	815 + 68.70	51.53 LT
4	DRONE CHECK PT	3824368.4710	4548533.1360	392.826	800 + 81.81	48.79 LT
383	MAGNAIL	3824098.1660	4548553.2380	392.408	798 + 44.46	71.24 RT
384	MAGNAIL	3824427.0200	4548744.1560	394.809	802 + 17.02	127.39 RT

CONTROL INFORMATION

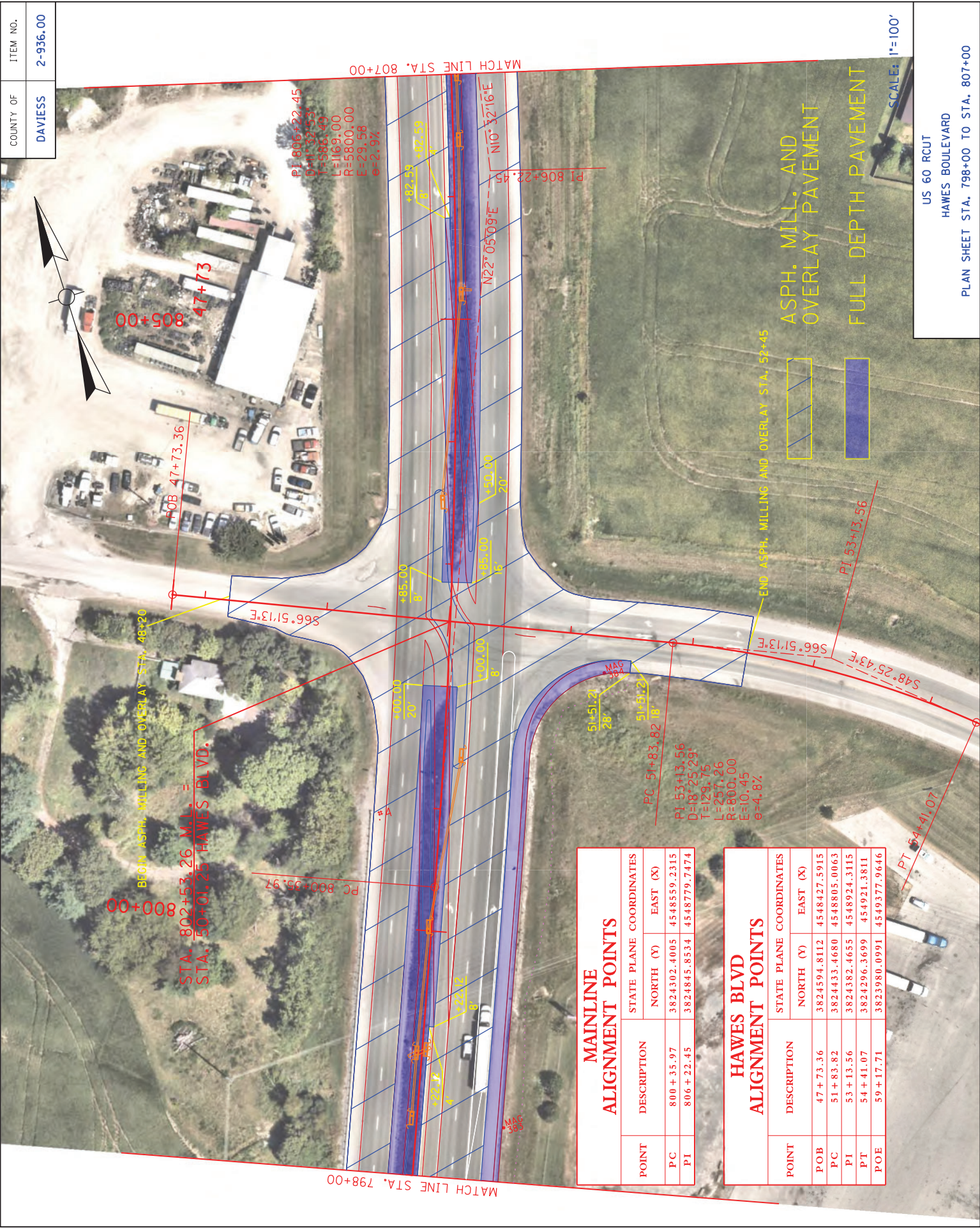


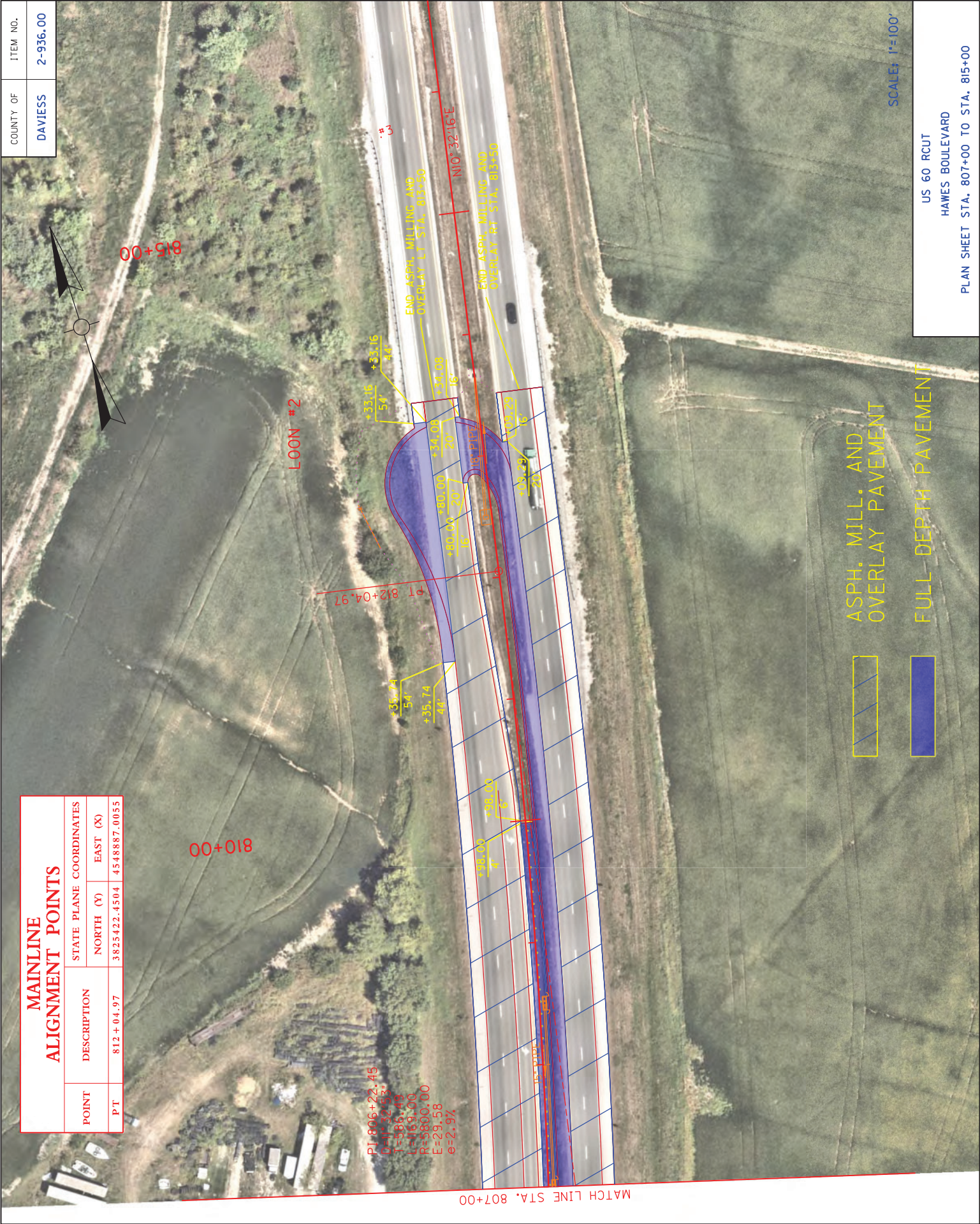
POINT	DESCRIPTION	STATE PLANE COORDINATES	
		NORTH (Y)	EAST (X)
PI	791 + 07.15	3823430.5464	4548228.1341
CS	794 + 40.13	3823748.7759	4548339.0839
SPI	795 + 23.48	3823827.4826	4548366.5248
ST	796 + 90.13	3823981.9398	4548429.1987

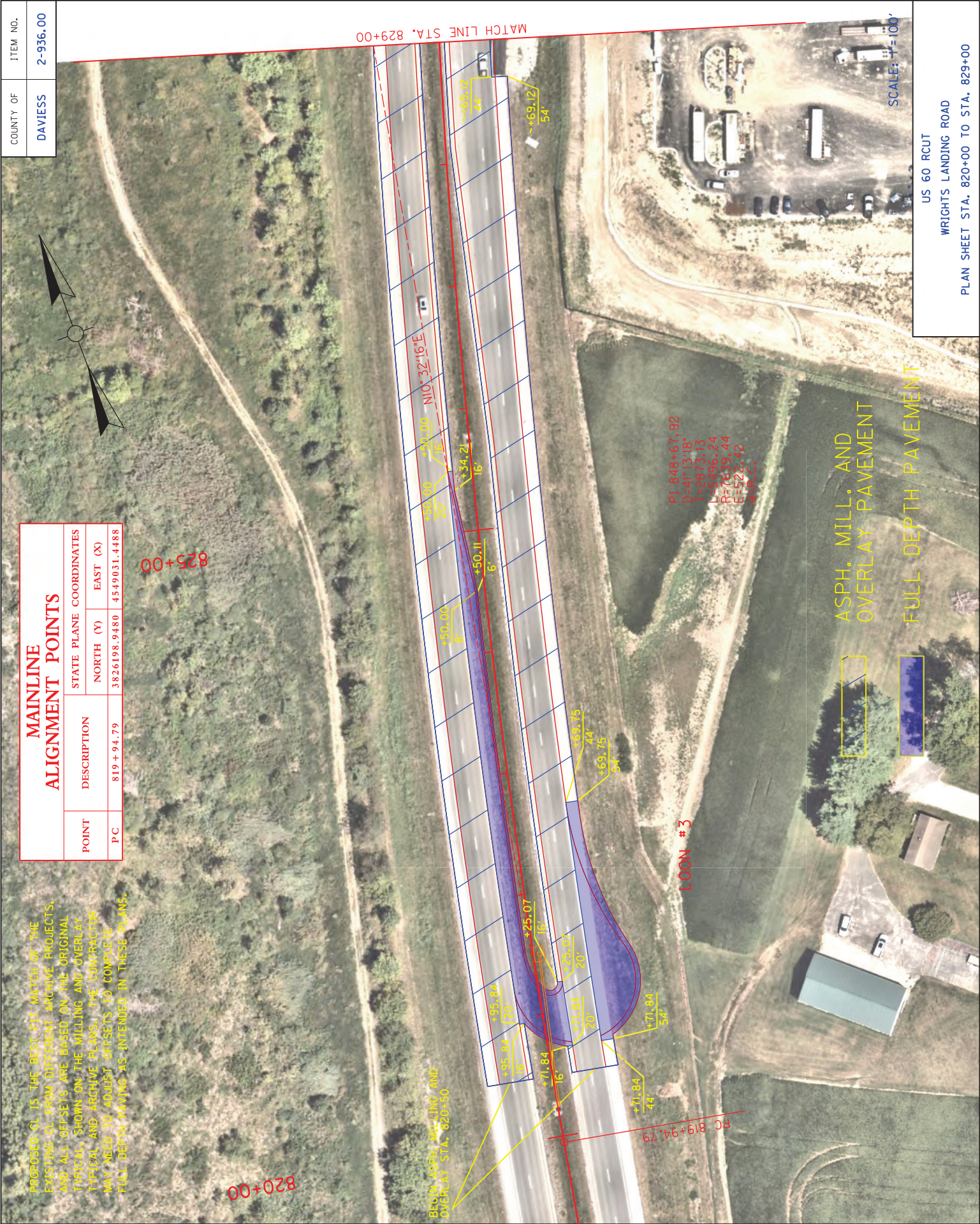


SCALE: 1"=100'

US 60 RCUT
HAWES BOULEVARD
PLAN SHEET 790+00 TO STA. 798+00

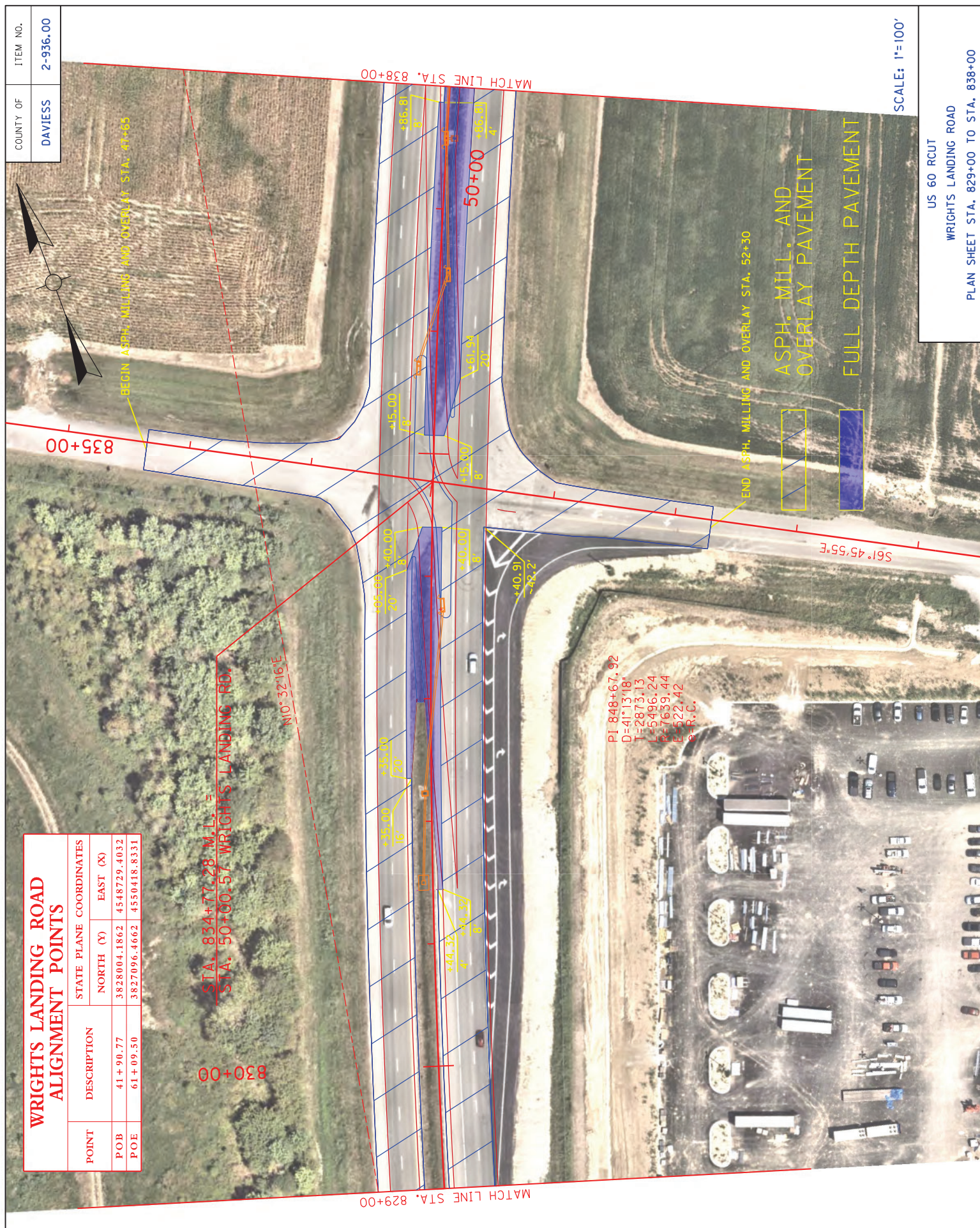






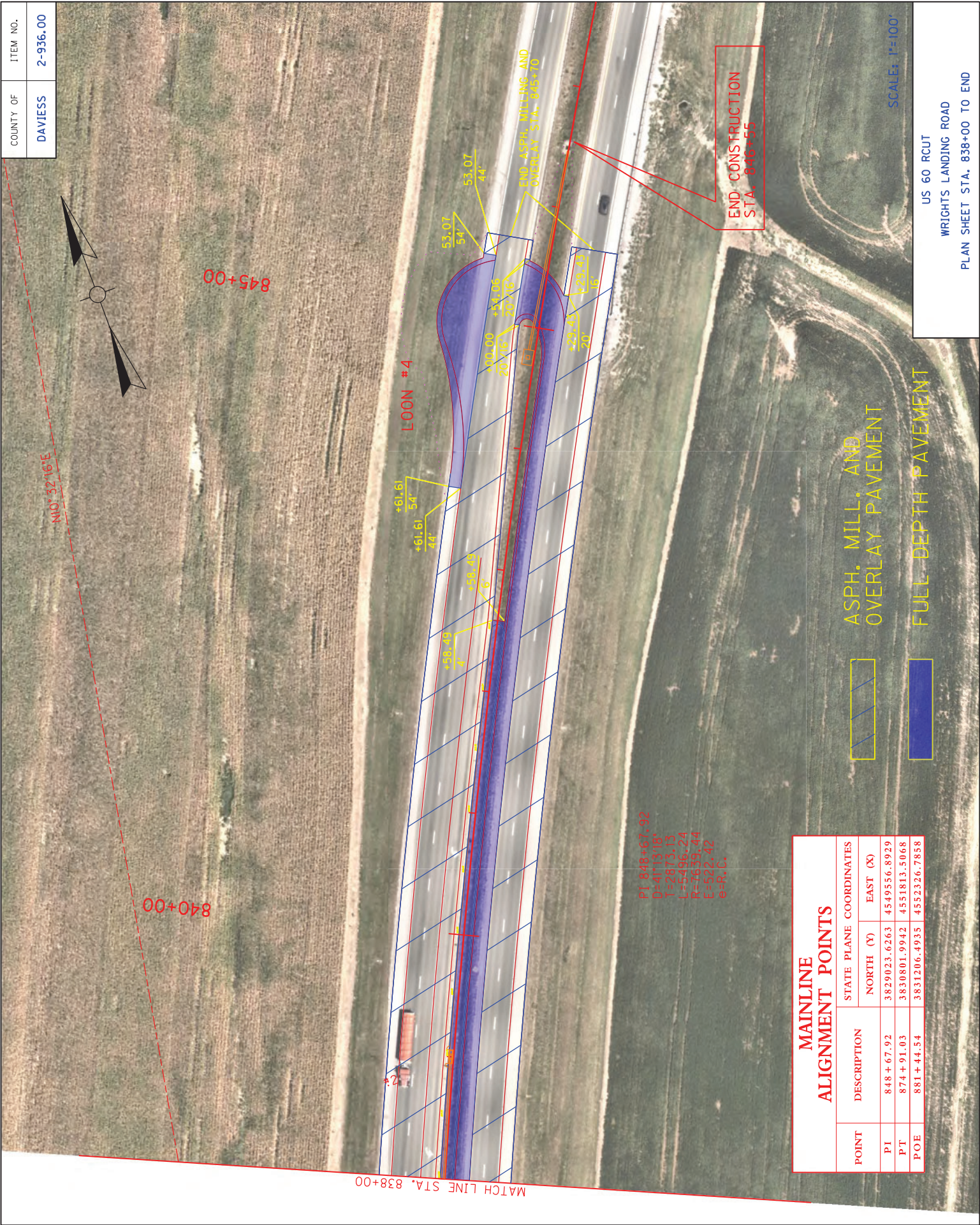
WRIGHTS LANDING ROAD ALIGNMENT POINTS				
POINT	DESCRIPTION	STATE PLANE COORDINATES		
		NORTH (Y)	EAST (X)	
POB	41 + 90.77	3828004.1862	4548729.4032	
POE	61 + 09.50	3827096.4662	4550418.8331	

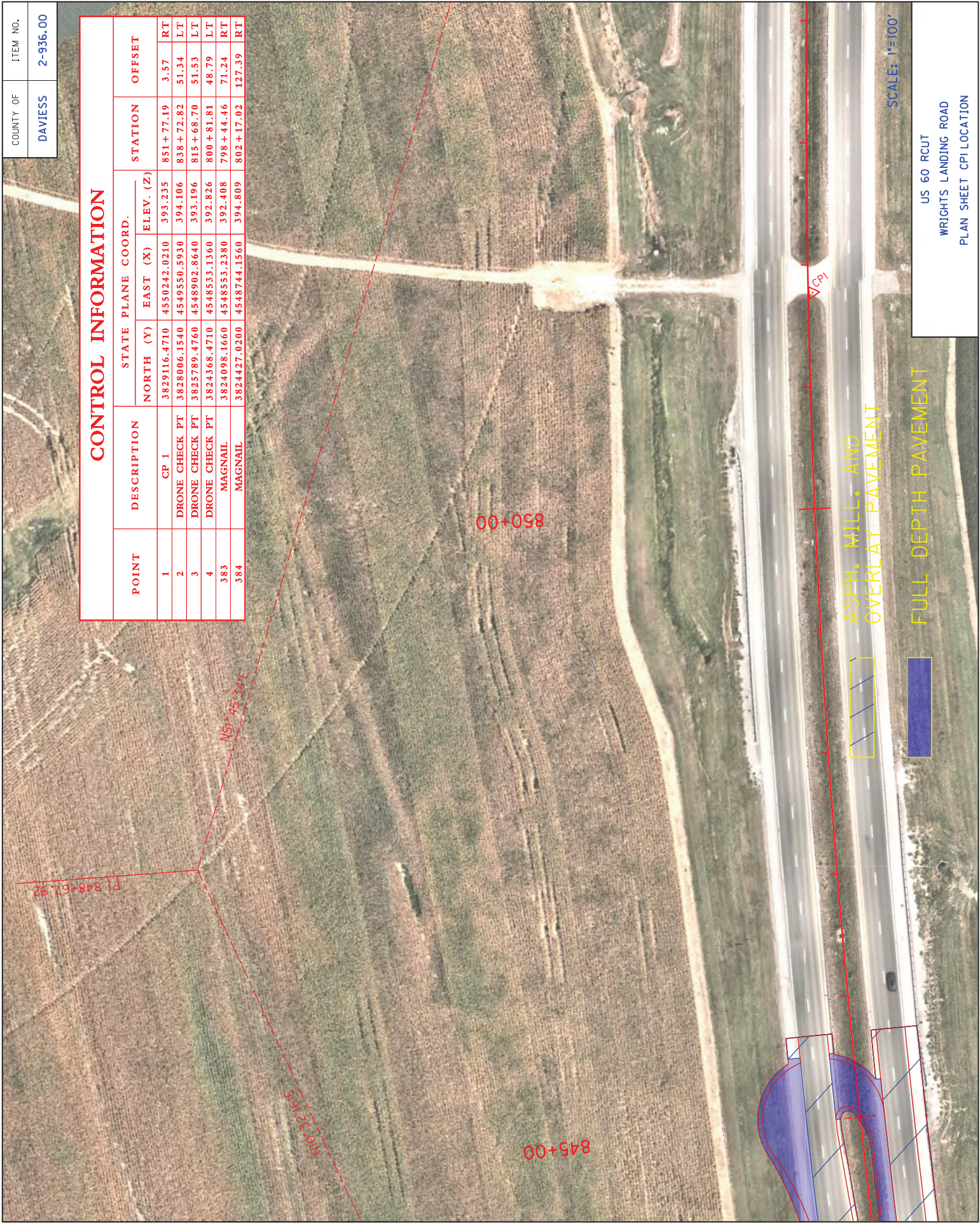
COUNTY OF	ITEM NO.
DAVISS	2-936.00



SCALE: 1"=100'

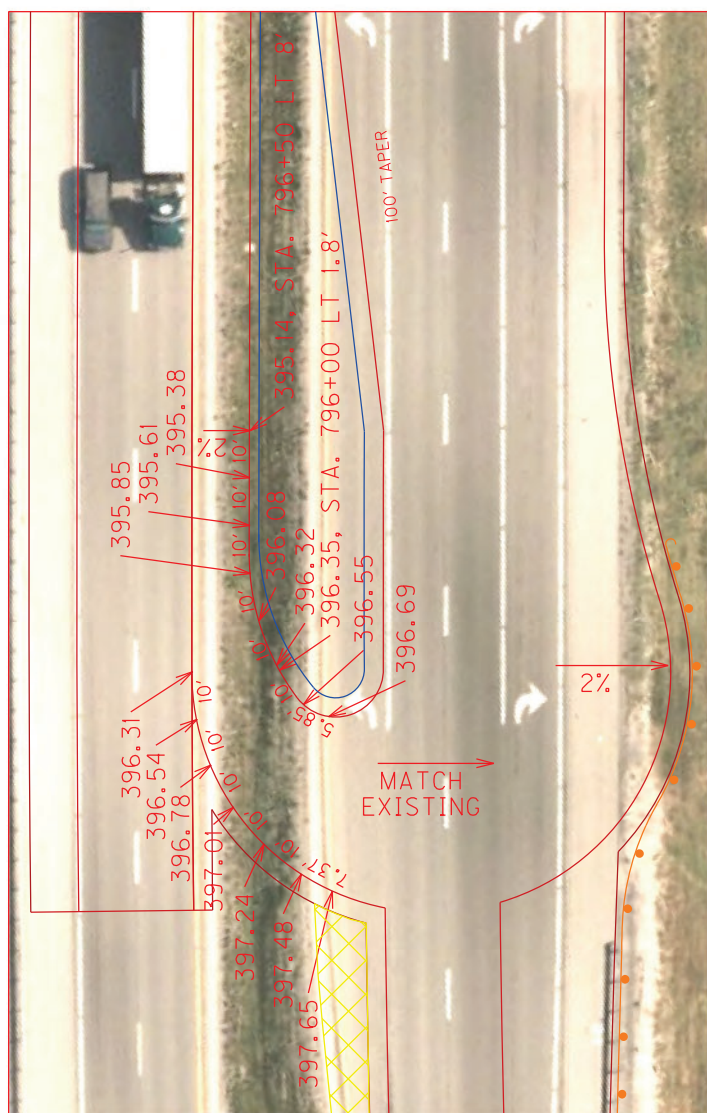
US 60 RCUT
WRIGHTS LANDING ROAD
PLAN SHEET STA. 829+00 TO STA. 838+00





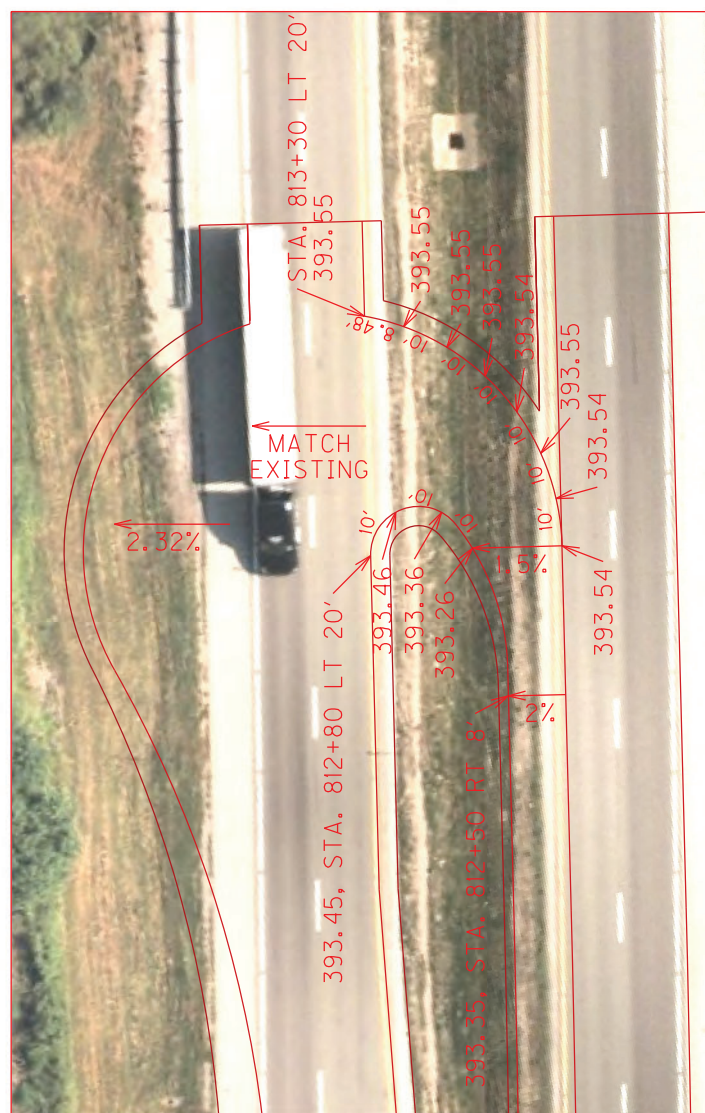
COUNTY OF	ITEM NO.
DAVIESS	2-936.00

#ZOO



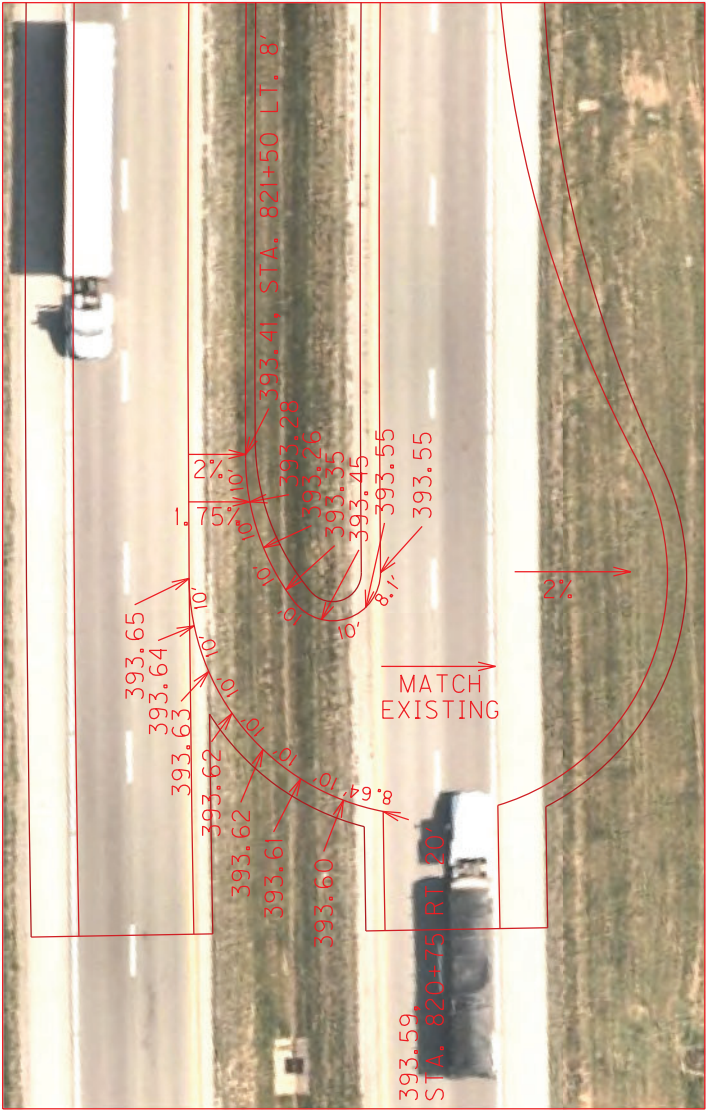
2

NOON

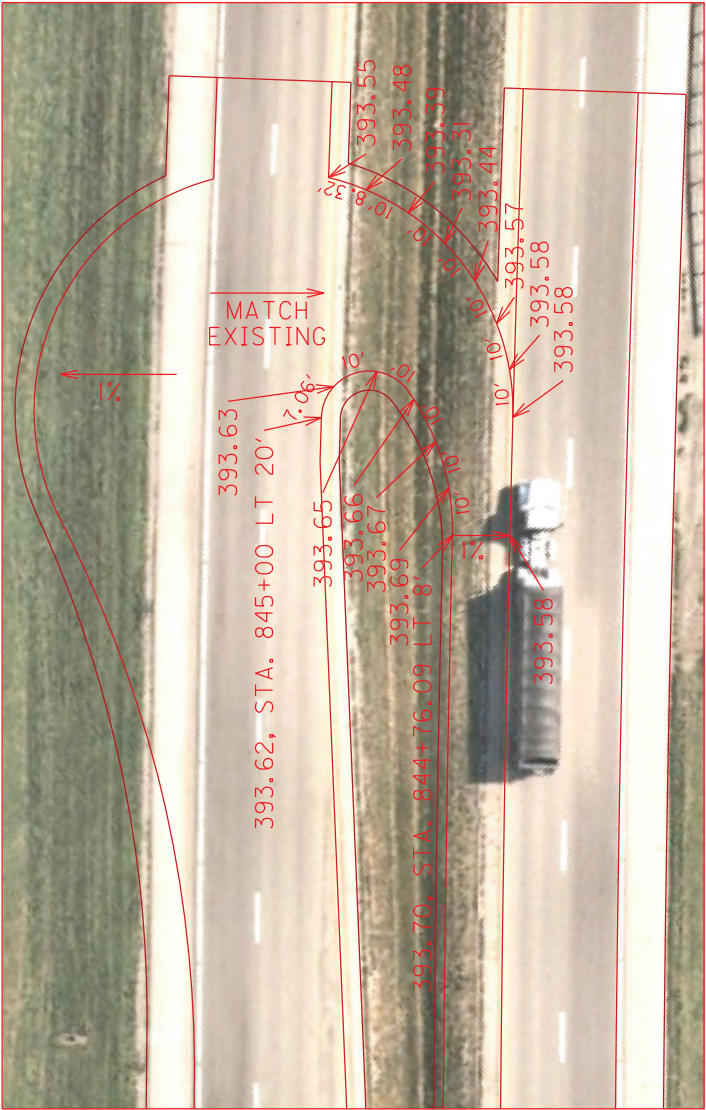


US 60 RCUT
HAWES BLVD.
PAVEMENT DEVELOPMENT SHEET

COUNTY OF	ITEM NO.
DAVIESS	2-936.00

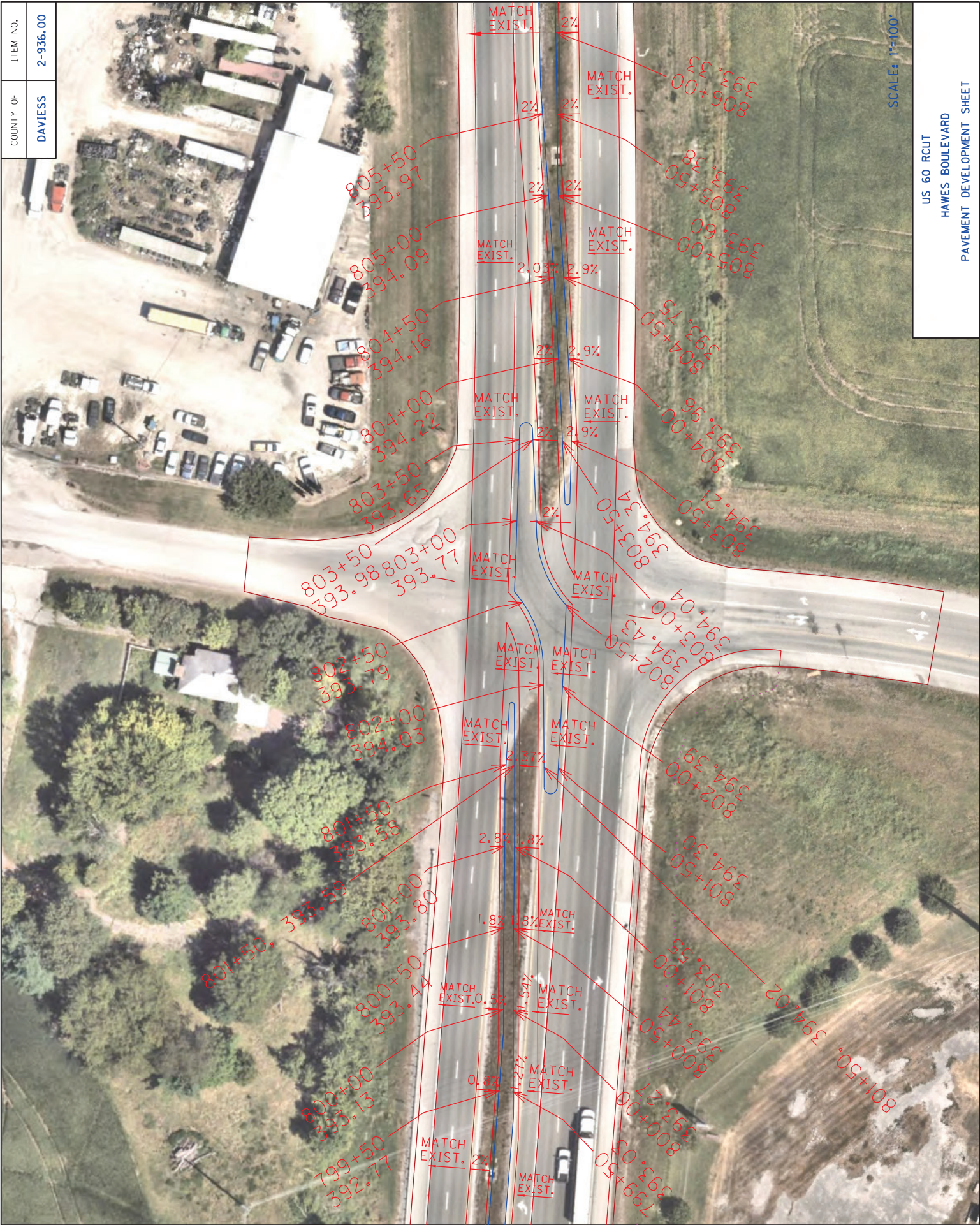


LOON #3



LOON #4

COUNTY OF	ITEM NO.
DAVISS	2-936.00



US 60 RCUT
HAWES BOULEVARD
PAVEMENT DEVELOPMENT SHEET

COUNTY OF	DAVISS
ITEM NO.	2-936.00



US 60 RCUT
WRIGHTS LANDING ROAD
PAVEMENT DEVELOPMENT SHEET

COUNTY OF	ITEM NO.
DAVISS	2-936.00

PHASING NOTES

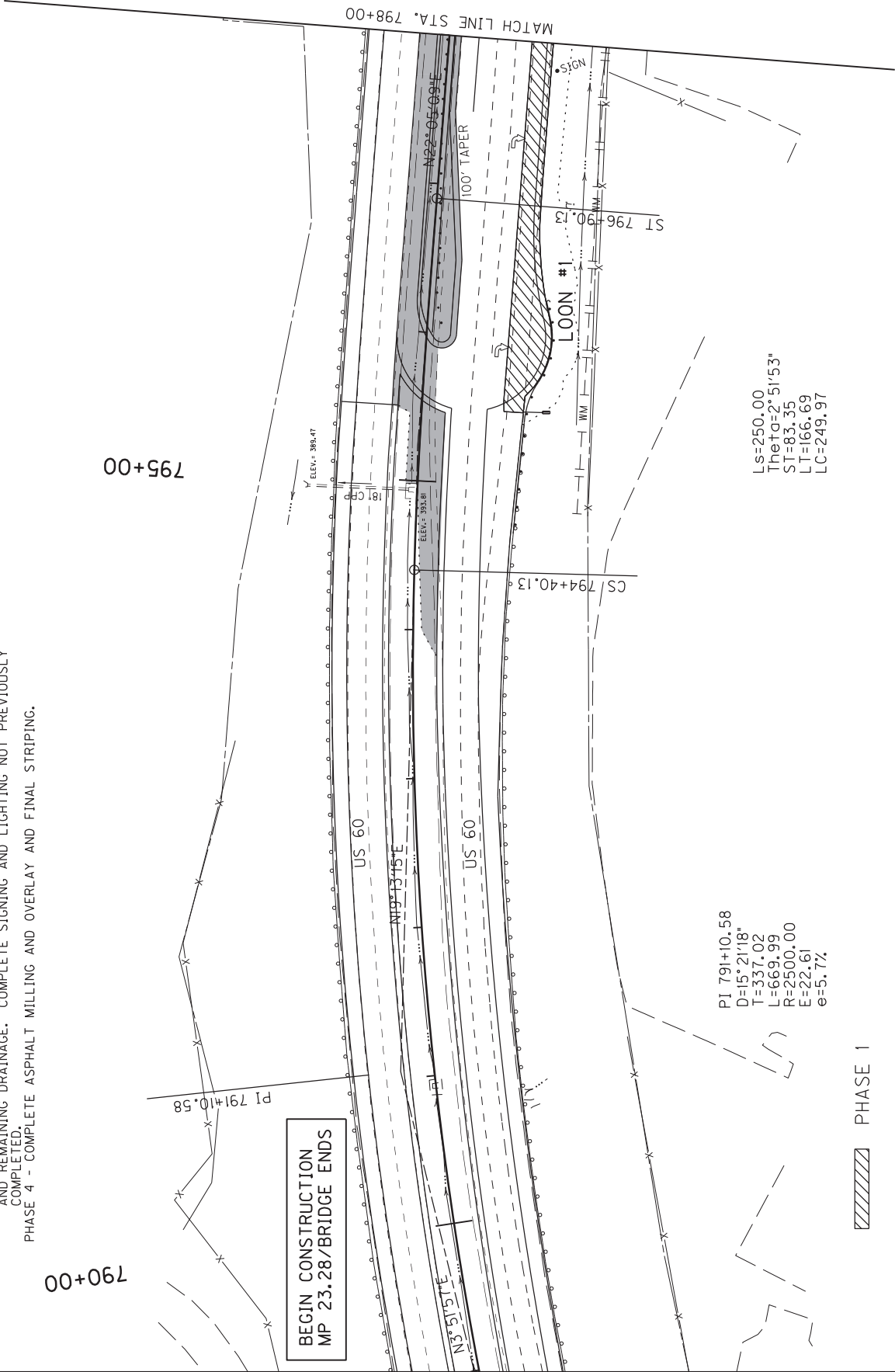
- PHASE 1 - CONSTRUCT LOONS #1 - #4 AND RIGHT TURN WIDENING RT STA. 796+90.62 TO HAWES BLVD. STA. 51+51.21 UP TO THE FINAL BASE COURSE.
- PHASE 2 - CONSTRUCT MEDIAN FULL DEPTH PAVEMENT FOR MEDIAN U-TURNS AND LEFT TURN LANES UP TO THE FINAL BASE COURSE, AND BARRIER MEDIANS. CONSTRUCT LIGHTING AND SIGNING NEEDED FOR PHASE 3.
- PHASE 3 - DIRECTING TRAFFIC TO MEDIAN U-TURNS, CONSTRUCT BARRIER MEDIANS AND REMAINING DRAINAGE. COMPLETE SIGNING AND LIGHTING NOT PREVIOUSLY COMPLETED.
- PHASE 4 - COMPLETE ASPHALT MILLING AND OVERLAY AND FINAL STRIPING.



790+00

795+00

BEGIN CONSTRUCTION
MP 23.28/BRIDGE ENDS



PI 791+10.58
D=15° 21' 18"
T=337.02
L=669.99
R=2500.00
E=22.61
e=5.7%

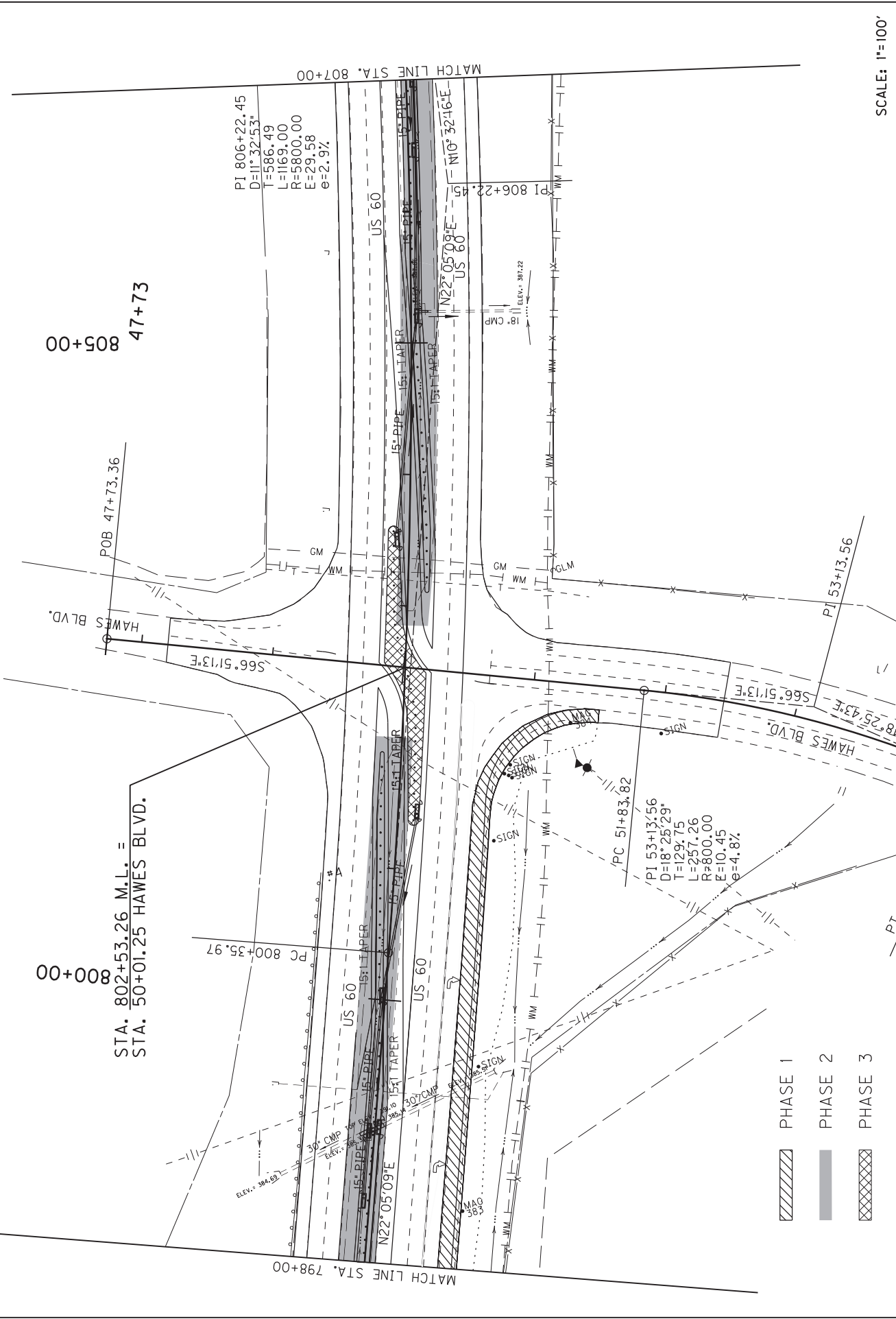
Ls=250.00
Theta=2° 51' 53"
ST=83.35
LT=166.69
LC=249.97

- PHASE 1
- PHASE 2
- PHASE 3

SCALE: 1"=100'

US 60 RCUT
BEGIN TO STA. 798+00
MAINTENANCE OF TRAFFIC

COUNTY OF	ITEM NO.
DAVIESS	2-936.00

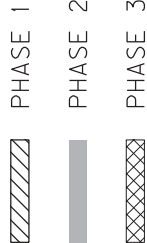
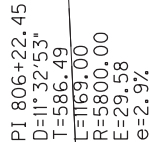
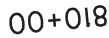
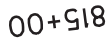
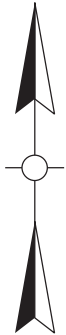


US 60 RCUT
STA. 798+00 TO STA. 807+00
MAINTENANCE OF TRAFFIC

SCALE: 1"=100'

- PHASE 1
- PHASE 2
- PHASE 3

COUNTY OF	ITEM NO.
DAVISS	2-936.00



PHASING NOTES

PHASE 1 - CONSTRUCT LOONS #1 - #4 AND RIGHT TURN WIDENING RT. STA. 796+90.62 TO HAWES BLVD. STA. 51+51.21 UP TO THE FINAL BASE COURSE.

PHASE 2 - CONSTRUCT MEDIAN FULL DEPTH PAVEMENT FOR MEDIAN U-TURNS AND LEFT TURN LANES UP TO THE FINAL BASE COURSE, AND BARRIER MEDIANS.

PHASE 3 - CONSTRUCT LIGHTING AND SIGNING NEEDED FOR PHASE 3.

PHASE 3 - DIRECTING TRAFFIC TO MEDIAN U-TURNS, CONSTRUCT BARRIER MEDIANS AND REMAINING DRAINAGE. COMPLETE SIGNING AND LIGHTING NOT PREVIOUSLY COMPLETED.

PHASE 4 - COMPLETE ASPHALT MILLING AND OVERLAY AND FINAL STRIPING.

COUNTY OF	ITEM NO.
DAVISS	2-936.00



825+00

820+00

MATCH LINE STA. 829+00

ELEV. = 384.25

18' CMP

NHO = 32°16'E

EXISTING TAPER

ELEV. = 385.15

100' TAPER

US 60

US 60

PC 819+94.79

PI 848+67.92
D=41°13'18"
T=2873.13
L=5496.24
R=7639.44
E=522.42
e=R.C.

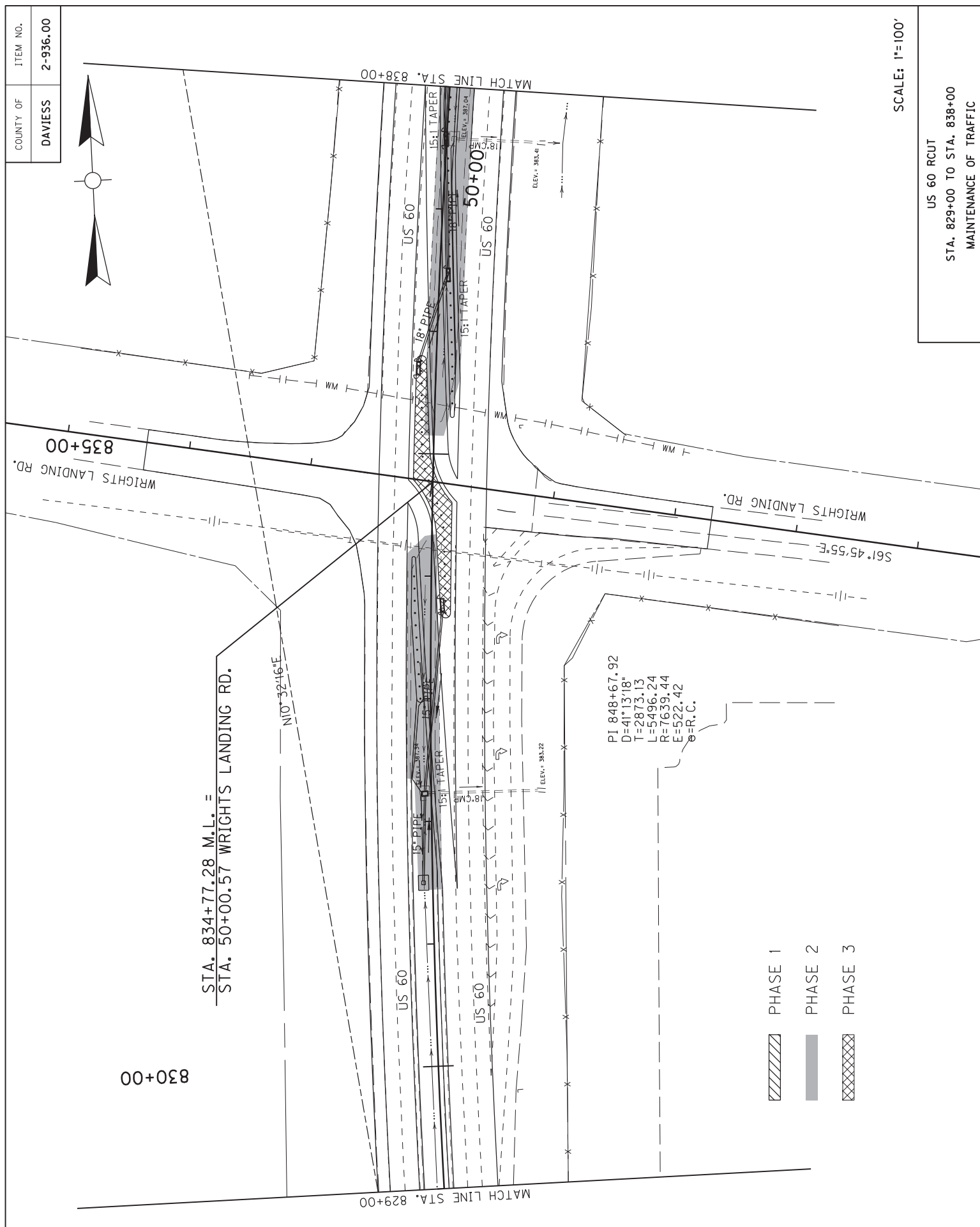
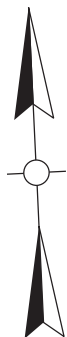
LOON #3

- PHASE 1
- PHASE 2
- PHASE 3

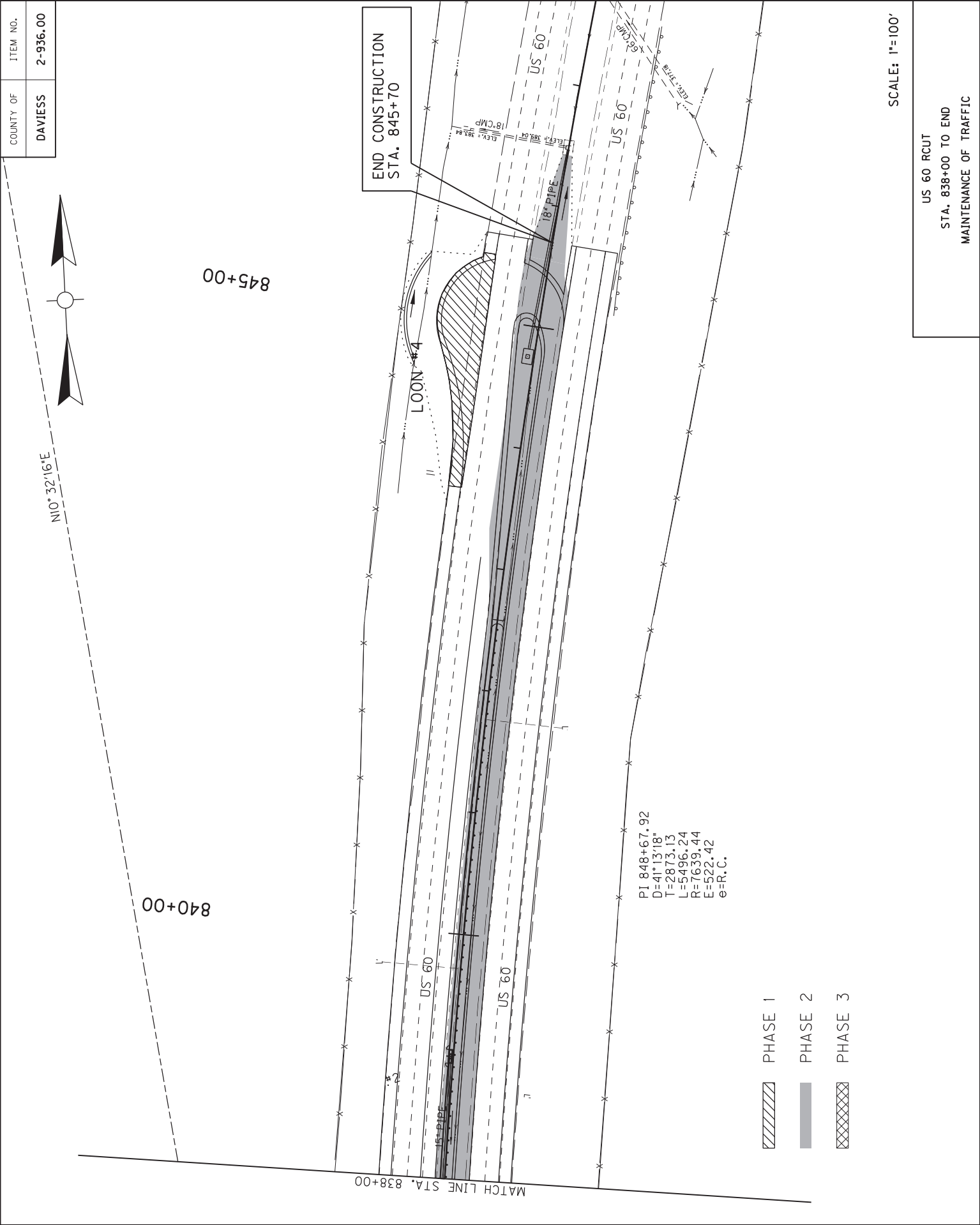
SCALE: 1"=100'

US 60 RCUT
STA. 820+00 TO STA. 829+00
MAINTENANCE OF TRAFFIC

COUNTY OF	ITEM NO.
DAVISS	2-936.00



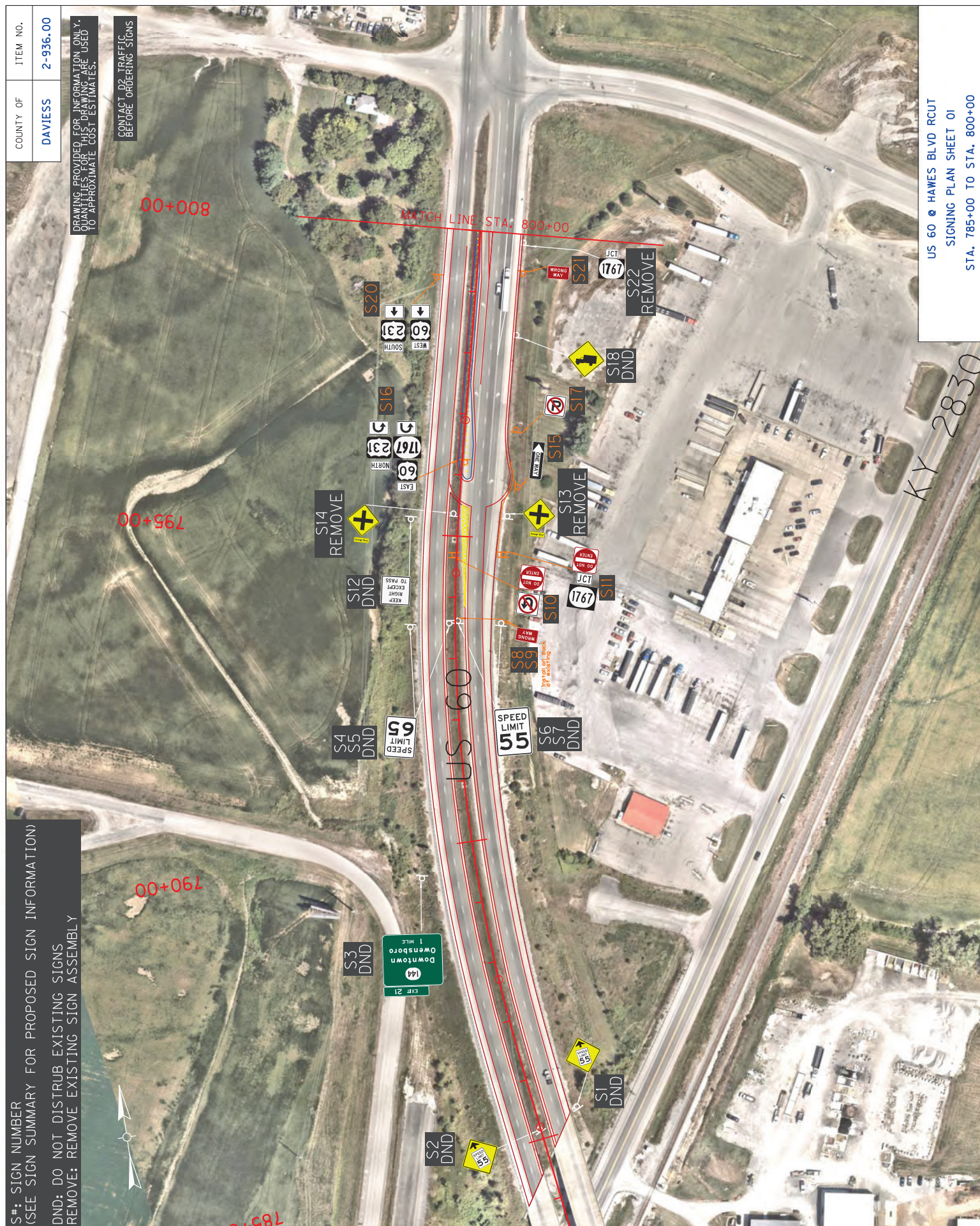
COUNTY OF	ITEM NO.
DAVIESS	2-936.00



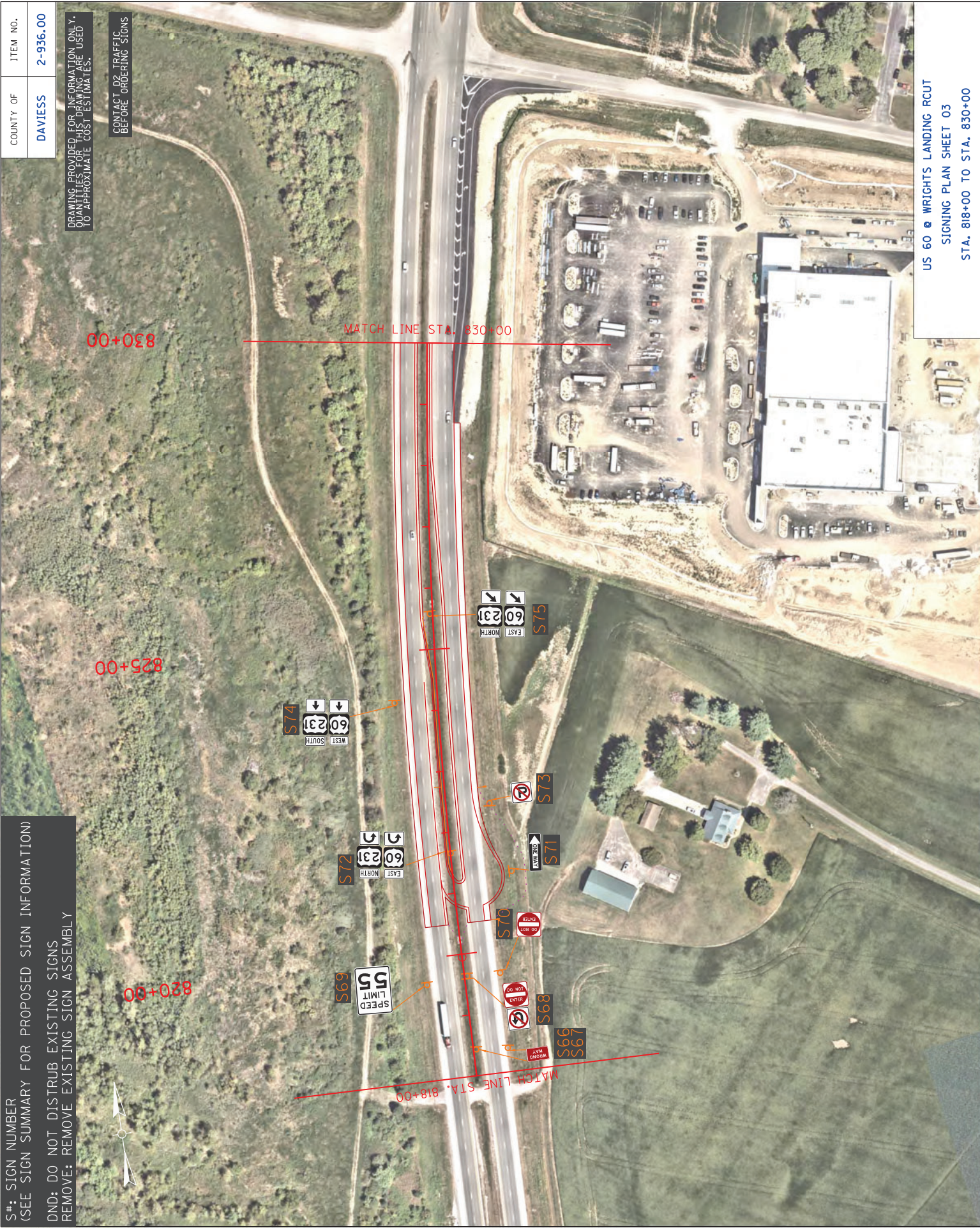
COUNTY OF	ITEM NO.
DAVISS	2-936.00

DRAWING PROVIDED FOR INFORMATION ONLY.
QUANTITIES FOR THIS DRAWING ARE USED
TO APPROXIMATE COST ESTIMATES.

CONTACT D2 TRAFFIC
BEFORE ORDERING SIGNS









S#: SIGN NUMBER
(SEE SIGN SUMMARY FOR PROPOSED SIGN INFORMATION)

DND: DO NOT DISTURB EXISTING SIGNS
REMOVE: REMOVE EXISTING SIGN ASSEMBLY

COUNTY OF	ITEM NO.
DAVIESS	2-936.00

DRAWING PROVIDED FOR INFORMATION ONLY.
QUANTITIES FOR THIS DRAWING ARE USED
TO APPROXIMATE COST ESTIMATES.


CONTACT D2 TRAFFIC
BEFORE ORDERING SIGNS


US 60 @ WRIGHTS LANDING RCUT
SIGNING PLAN SHEET 04
STA. 830+00 TO END

US 60
CIRCUT INTERSECTIONS
SIGN DETAIL SHEET

	COUNTY OF	ITEM NO.
	DAVIES	2-936.00

DRAWING PROVIDED FOR INFORMATION ONLY.
 QUANTITIES FOR THIS DRAWING ARE USED
 TO APPROXIMATE COST ESTIMATES.

THERMO TURN ARROW 

THERMO U-TURN ARROW 

1ST ARROW 40' FROM STOP BAR

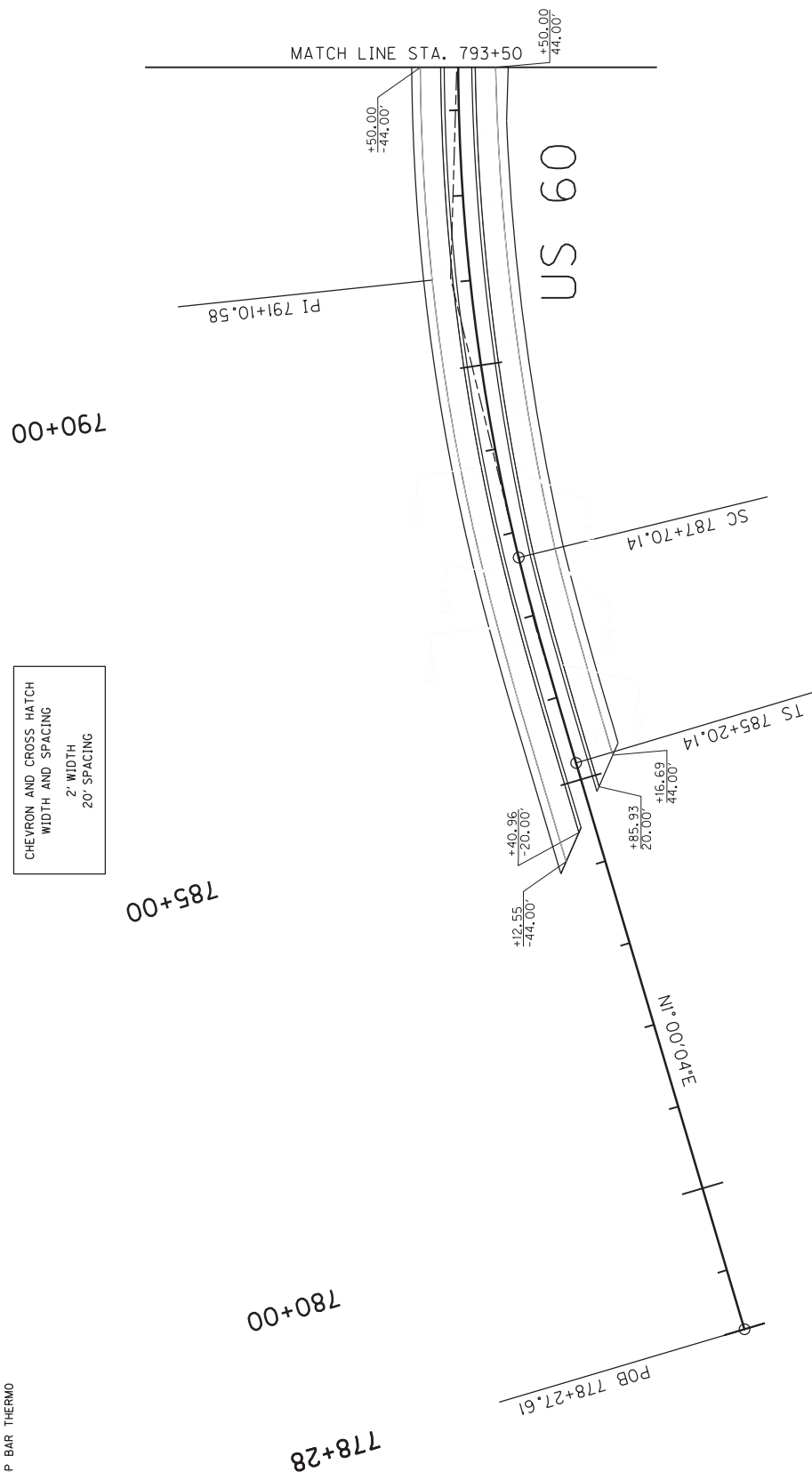
ALL OTHER SPACED 80' MAX

SEE STANDARD DRAWINGS

CHEVRON AND CROSS HATCH
WIDTH AND SPACING

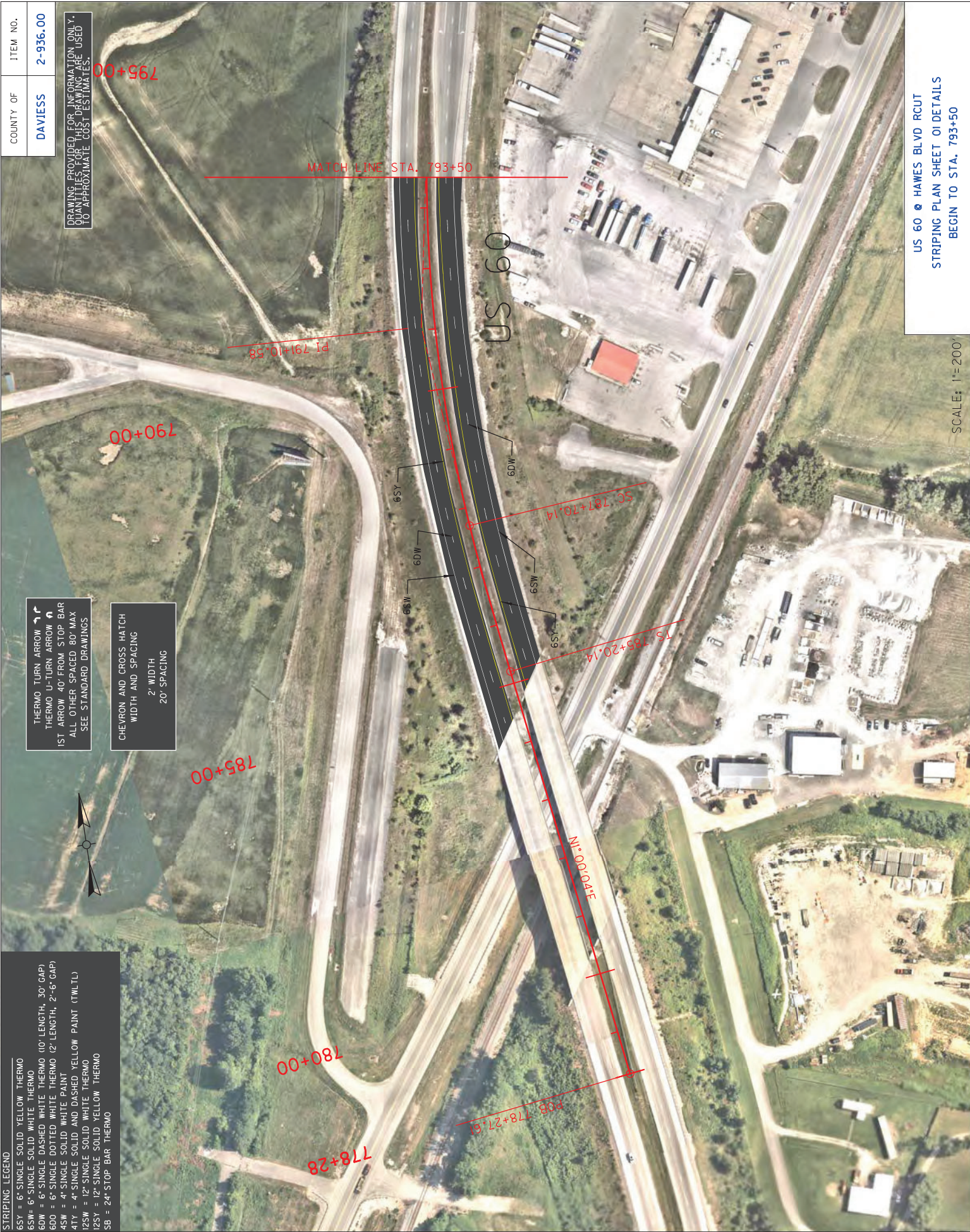
STRIPING LEGEND

65Y = 6" SINGLE SOLID YELLOW THERMO	12Y = 12" SINGLE SOLID YELLOW THERMO
65W = 6" SINGLE SOLID WHITE THERMO	12SW = 12" SINGLE SOLID WHITE THERMO
65DW = 6" SINGLE DASHED WHITE THERMO (10" LENGTH, 30" GAP)	12DSW = 12" SINGLE SOLID WHITE THERMO
65D = 6" SINGLE DOTTED WHITE THERMO (2" LENGTH, 2'-6" GAP)	12DSY = 12" SINGLE SOLID YELLOW THERMO
45W = 4" SINGLE SOLID WHITE PAINT	SB = 24" STOP BAR THERMO
45Y = 4" SINGLE SOLID YELLOW PAINT	
45YLT = 4" SINGLE SOLID AND DASHED YELLOW PAINT (TWLT)	



US 60 @ HAWES BLVD RCUT
STRIPING PLAN SHEET 01 DETAILS
BEGIN TO STA. 793+50

SCALE: 1"=200'



DRAWING PROVIDED FOR INFORMATION ONLY.
QUANTITIES FOR THIS DRAWING ARE USED
TO APPROXIMATE COST ESTIMATES.

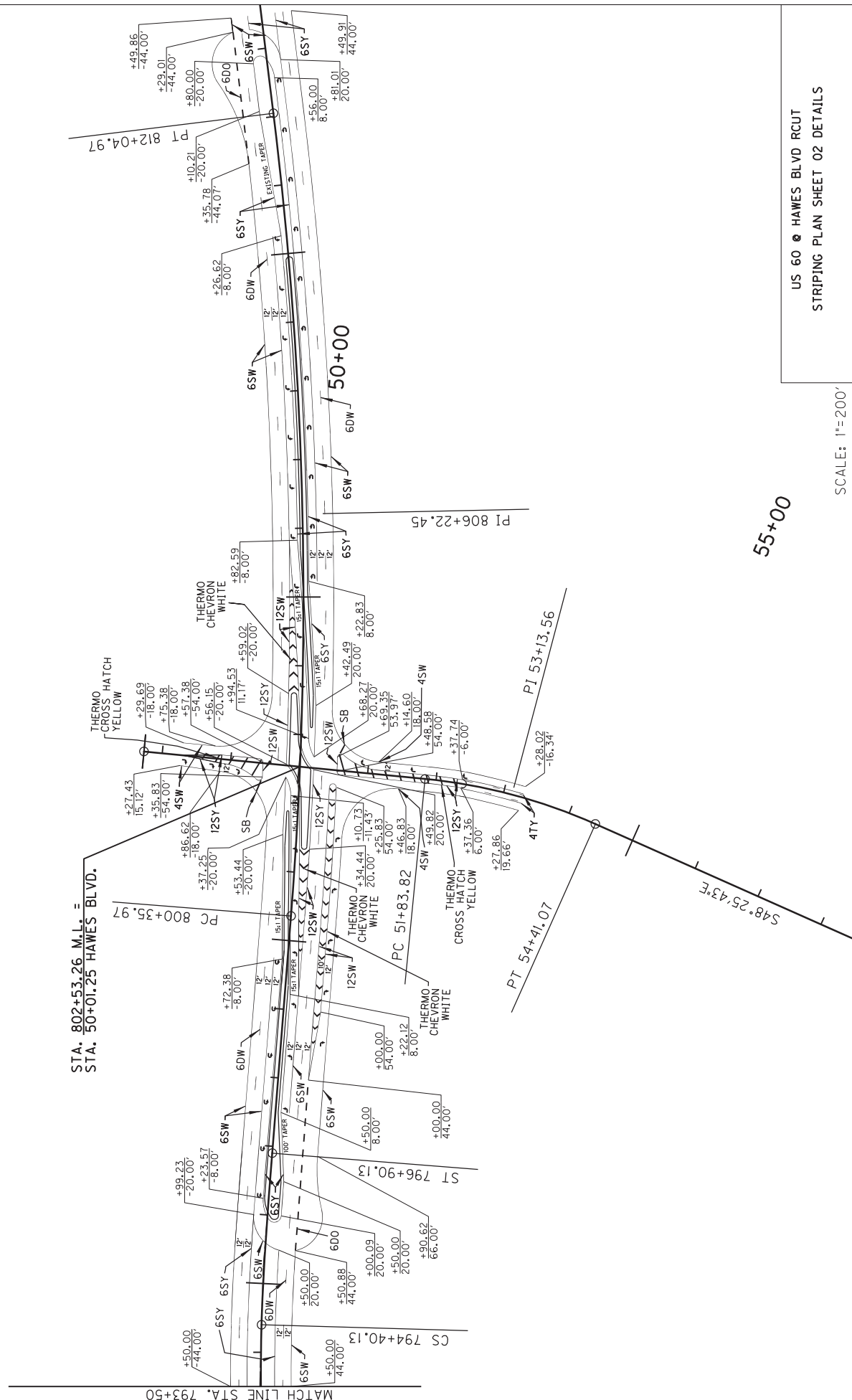


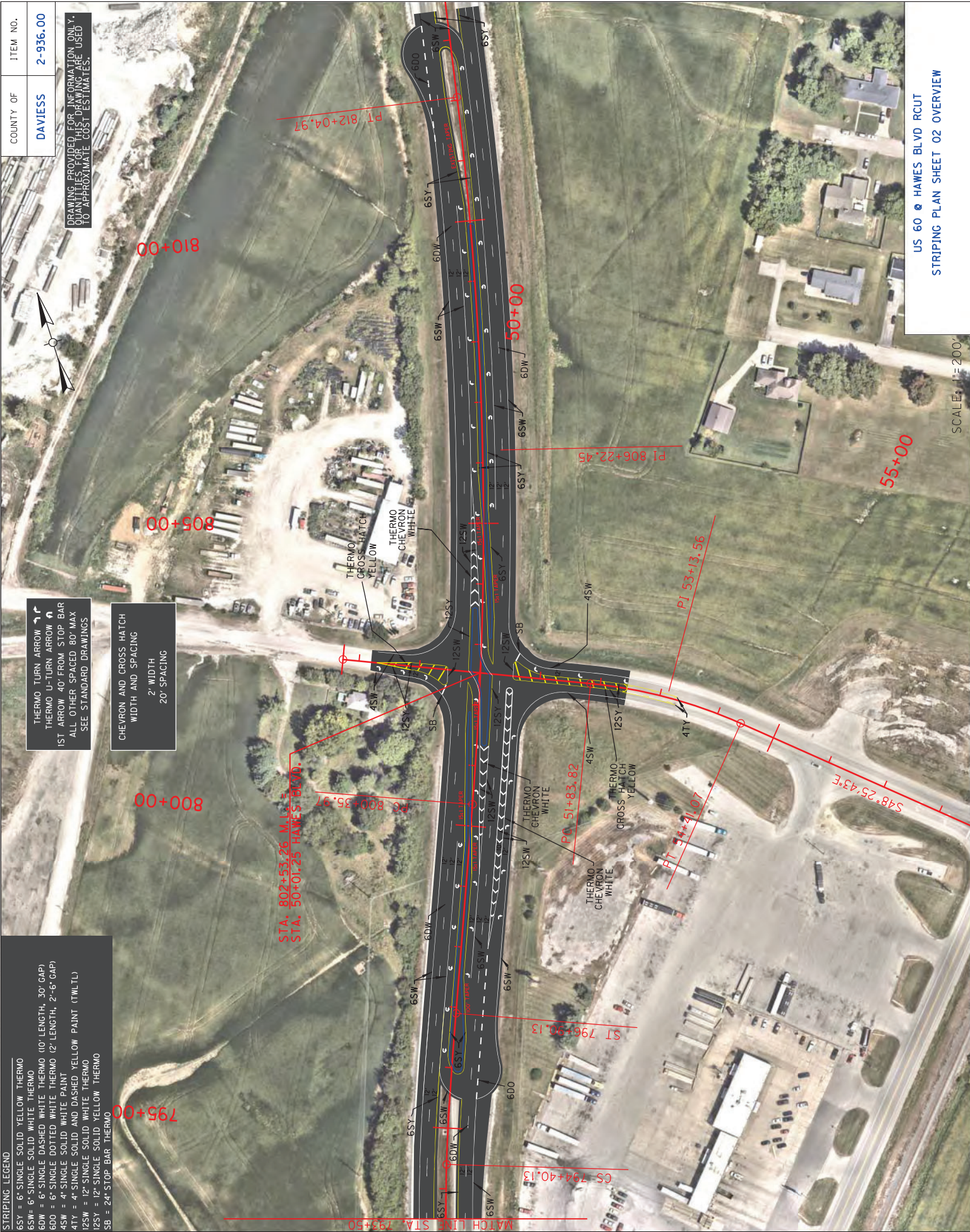
CHEVRON AND CROSS HATCH
WIDTH AND SPACING

805+00

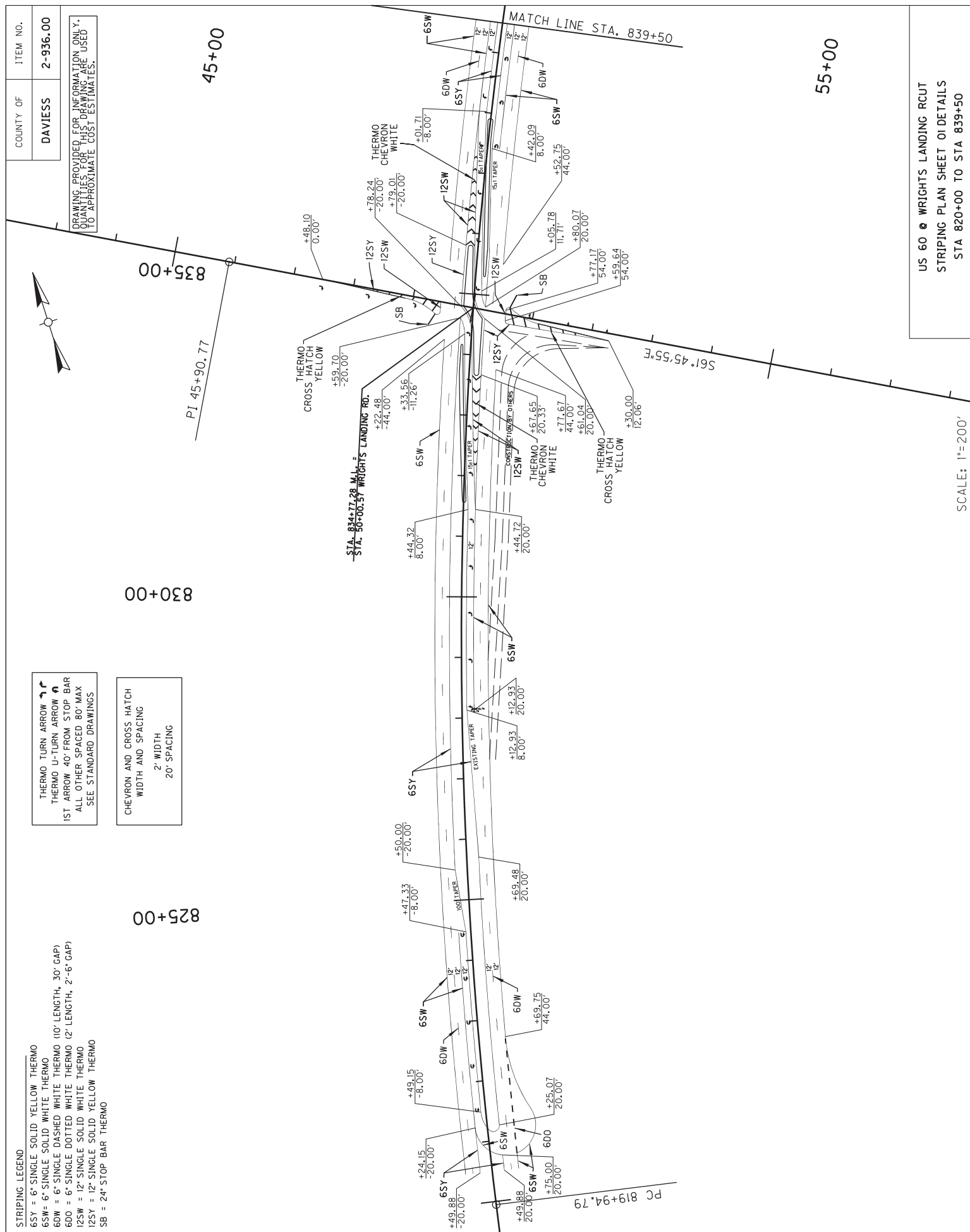
00+008

STA. $\frac{802+53.26 \text{ M.L.}}{50+01.25 \text{ HAWES BLVD.}} =$



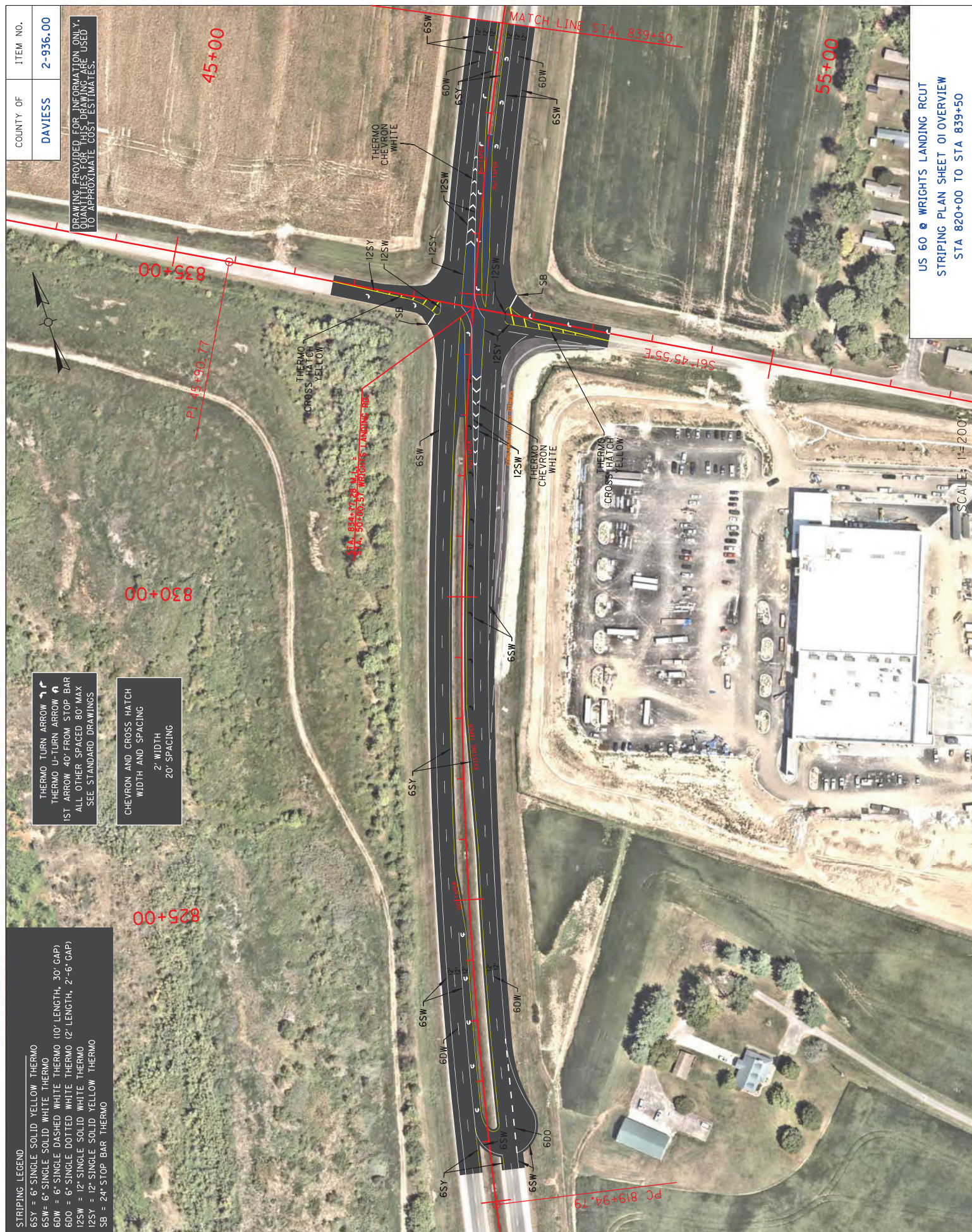


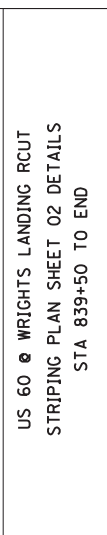
US 60 @ HAWES BLVD RCUT
STRIPING PLAN SHEET 02 OVERVIEW



COUNTY OF	ITEM NO.
DAVISS	2-936.00

DRAWING PROVIDED FOR INFORMATION ONLY.
QUANTITIES FOR THIS DRAWING ARE USED
TO APPROXIMATE COST ESTIMATES.







SCALE: 1"=200'

COUNTY OF	ITEM NO.
DAVISS	2-936.00

DRAWING PROVIDED FOR INFORMATION ONLY.
QUANTITIES FOR THIS DRAWING ARE USED
TO APPROXIMATE COST ESTIMATES.



THERMO TURN ARROW 

THERMO U-TURN ARROW 

1ST ARROW 40' FROM STOP BAR
ALL OTHER SPACED 80' MAX
SEE STANDARD DRAWINGS

CHEVRON AND CROSS HATCH
WIDTH AND SPACING

STRIPING LEGEND

65Y = 6" SINGLE SOLID YELLOW	THERMO
65W = 6" SINGLE SOLID WHITE	THERMO
60W = 6" SINGLE DASHED WHITE	THERMO (10' LENGTH, 30" GAP)
60D = 6" SINGLE DOTTED WHITE	THERMO (2' LENGTH, 2'-6" GAP)
125W = 12" SINGLE SOLID WHITE	THERMO
125Y = 12" SINGLE SOLID YELLOW	THERMO
SB = 24" STOP BAR	THERMO



US 60 @ WRIGHTS LANDING RCUT
STRIPING PLAN SHEET 02 OVERVIEW
STA 839+50 TO END

SCALE: 1"=200'

COUNTY OF	ITEM NO.	SHEET NO.
DAVIESS	2-936.00	11

ROADWAY LIGHTING ESTIMATE OF QUANTITIES

HAWES BLVD	WRIGHTS LANDING RD	TOTAL	UNITS	CODE	ITEM DESCRIPTION
2	2	4	EACH	4700	POLE 30' MTG HT
2	2	4	EACH	4701	POLE 40' MTG HT
2	2	4	EACH	4724	BRACKET 12'
2	2	4	EACH	4725	BRACKET 15'
4	4	8	EACH	4740	POLE BASE
4	4	8	EACH	4750	TRANSFORMER BASE
1	1	2	EACH	4761	LIGHTING CONTROL EQUIPMENT
11	11	22	EACH	4780	FUSED CONNECTOR KIT
1,730	2,410	4,140	LIN FT	4820	TRENCHING AND BACKFILLING
582	582	1,164	LIN FT	4832	WIRE-NO. 12
1	1	2	EACH	4871	POLE 35' WOODEN
3	3	6	EACH	2039INS835	ELECTRICAL JUNCTION BOX TYPE A
450	470	920	LIN FT	21543EN	BORE AND JACK CONDUIT
6,060	8,130	14,190	LIN FT	23778EC	WIRE-NO. 10
4	4	8	EACH	24589ED	LED LUMINAIRE
1,730	2,410	4,140	LIN FT	24900EC	PVC CONDUIT-1 1/4 IN-SCHEDULE 80
450	470	920	LIN FT	24901EC	PVC CONDUIT-2 IN-SCHEDULE 80

CONSTRUCTION AND MEASUREMENT NOTES THAT ARE CONTRARY TO SECTION 716 & 834

SUBSECTION: REMOVE:	716.03.03 TRENCHING. REMOVE SENTENCE UNDER B1: NO PAYMENT FOR ADDITIONAL JUNCTION BOXES FOR GREATER DEPTHS WILL BE ALLOWED.
SUBSECTION: REVISION:	716.03.04 CONDUIT INSTALLATION ADD TO SECOND SENTENCE WITH THE FOLLOWING: BASES WITH BREAKWAY DEVICES INSTALLED.
SUBSECTION: REVISION:	716.03.04 (K) BORE AND JACK. REPLACE TITLE WITH THE FOLLOWING: BORE AND JACK/OPEN CUT ROADWAY ADD SENTENCES AFTER LAST SENTENCE: WITH PERMISSION OF THE ENGINEER, ROADWAY MAY BE OPEN CUT IF CONDUIT IS UNDER PAVEMENT. THE CONDUIT IN OPEN CUT CAN BE EITHER 2" RIGID STEEL OR SCHEDULE 80 PVC UNDER ALL PAVEMENT'S AREAS. IF IT IS THE LOOP TRANSITION FROM THE SAW SLOT, IT SHALL BE RIGID STEEL.
SUBSECTION: REMOVE:	834.15.03 TRANSFORMER BASES. REMOVE SENTENCE: CONSTRUCT THE DOOR OF A HIGH DENSITY POLYETHYLENE MATERIAL IN COLOR THAT MATCHES THE BASE.
SUBSECTION: REVISION:	834.15.03 TRANSFORMER BASES. REPLACE THE BASE. CONSTRUCT THE DOOR OF AN ALUMINUM MATERIAL IN A COLOR THAT MATCHES THE BASE. THE DOOR SHOULD HAVE A THEFT DETERRENT DEVICE THAT IS EQUAL TO THE LOCKDOWN LIGHTLOCK DOOR ASSEMBLY. THE DOOR LOCK WILL HAVE A LOCKING DEVICE WITH A KYTC CUSTOM KEY THAT WILL BE SEND TO CENTRAL OFFICE TRAFFIC OPERATIONS FROM THE MANUFACTURER AND BE ISSUED TO THE CONTRACTOR FOR THE INSTALLATION OF THE FINAL DOOR DEVICE. THE KEY FOR THE DOOR SHALL BE RETURNED TO CENTRAL OFFICE TRAFFIC OPERATIONS AFTER THE CLOSURE OF THE CONTRACT. THERE SHALL BE A 4" BY 6" ARC FLASH WARNING STICKER INSTALLED CENTER TOP OF EACH DOOR. THE STICKER SHALL BE METALCRAFT PLY695 PREM STYLEMARK LABEL WITH .007 THICKNESS, WITH UV WHITE POLYCARBONATE MATERIAL, AND WITH MC53FL PRESSURE SENSITIVE ADHESIVE. THE STICKER SHALL HAVE TWO COLORS OF BLACK AND CUSTOM COLOR ORANGE. THE WORDING FOR THE ARC FLASH STICKER SHALL BE THE FOLLOWING: "WARNING ARC FLASH HAZARD. APPROPRIATE PPE REQUIRED. FAILURE TO COMPLY CAN RESULT IN DEATH OR INJURY. REFER TO NFPA 70E."
SECTION:	834.15 LIGHTING POLES.
REVISION:	ADD THE FOLLOWING TO THE FIRST PARAGRAPH: THE CABINET WILL WAIVE THE REQUIREMENT STATED IN THE FIRST SENTENCE OF SECTION 5.14.6.2 - REINFORCED HOLES AND CUTOUT FOR HIGH MAST POLES (ONLY).
SECTION:	834.33 WARNING TAPE.
REVISION:	REPLACE FIRST SENTENCE WITH THE FOLLOWING: PROVIDE DETECTABLE TYPE TAPE THAT IS 6 INCHES WIDE AND 7.0 MILS (NOMINAL)THICK.

7-25-2022

THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, CURRENT EDITION, AND OTHER SPECIAL NOTES AND SPECIFICATIONS WILL APPLY ON THIS PROJECT. SEE SECTION 716 FOR MEASUREMENT AND OTHER DETAILS. SEE SECTION 602 FOR SPIRAL REINFORCEMENT SPLICING

THE CONTRACTOR SHALL MAKE AN INSPECTION OF THE PROJECT SITE PRIOR TO SUBMITTING A BID AND SHALL BE THOROUGHLY FAMILIARIZED WITH EXISTING CONDITIONS. SUBMISSIONS OF A BID WILL BE CONSIDERED AN AFFIRMATION OF THIS INSPECTION HAVING BEEN COMPLETED.

ADD SENTENCE TO SECTION 834.06: ALL WIRE SHALL HAVE WORDING ADDED TO THE OUTER JACKET THAT STATES : "PROPERTY OF KENTUCKY TRANSPORTATION CABINET 502 564 0501".

ADD SENTENCE TO SECTION 834.10: ALL WIRE SHALL HAVE WORDING ADDED TO THE OUTER JACKET THAT STATES: "PROPERTY OF KENTUCKY TRANSPORTATION CABINET 502 564 0501".

MEASUREMENT NOTE THAT ARE IN ADDITION TO SECTION 716:

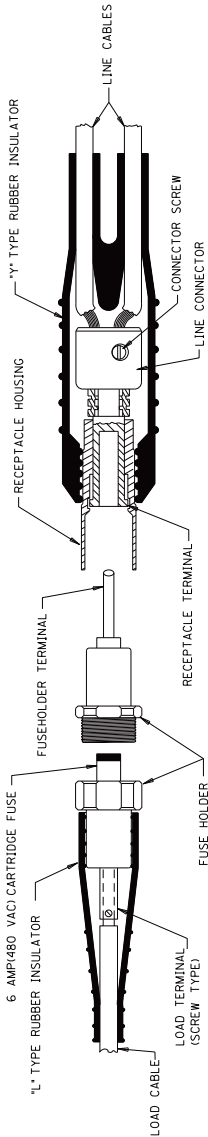
WOOD POLE - DEPARTMENT WILL MEASURE THE QUANTITY AS EACH INDIVIDUAL UNIT FURNISHED AND INSTALLED. THE DEPARTMENT WILL NOT MEASURE EXCAVATION, BACKFILLING, AND RESTORING DISTURBED AREAS.

WIRE OR CABLE SHALL INCLUDE INSTALLING SPECIFIED WIRE OR CABLE WITHIN CONDUIT AS INDICATED ON THE PLAN SHEETS. INCIDENTAL TO THIS ITEM SHALL BE THE FURNISHING AND INSTALLING OF SPLICE BOOTS OR ANY OTHER HARDWARE REQUIRED FOR INSTALLING CABLE. THE CONTRACTOR SHALL INSTALL ALL CABLE OR WIRE RUNS SPLICE-FREE FROM THE CONTROLLER TO EACH POLE. THE CABLE OR WIRE IS FEEDING. EXCEPTIONS TO THIS MUST BE APPROVED BY THE ENGINEER OR AS SPECIFIED ON THE PLANS. EACH RUN OF WIRE FROM POLE TO POLE (UP EACH POLE) SHALL BE THE FOLLOWING COLOR CODED: 2-BLACK (HOT) AND GREEN (GROUND).

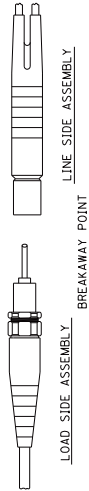
DESIGNED BY:	
DATE SUBMITTED:	
Commonwealth of Kentucky DEPARTMENT OF HIGHWAYS COUNTY OF DAVIESS	
PROJECT NUMBERS:	
ROADWAY LIGHTING ESTIMATES OF QUANTITIES US 60	

COUNTY OF	ITEM NO.	SHEET NO.
DAVIESS	2-936.00	T2

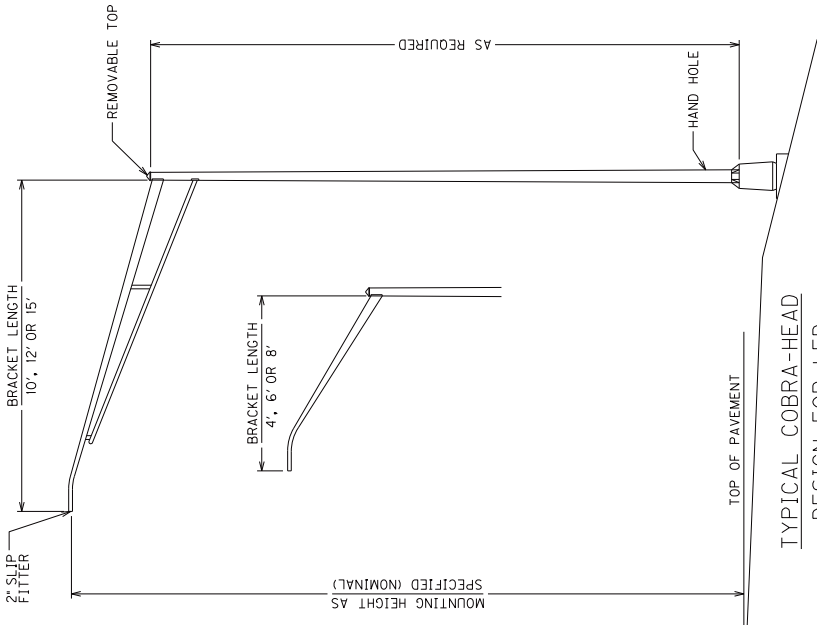
BREAKAWAY FUSE CONNECTOR KIT



DETAILS OF TYPE HEB-JW-RYC CONNECTOR

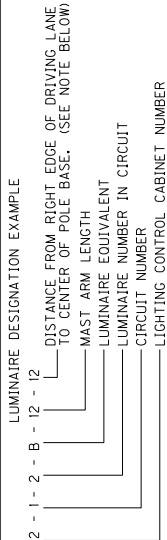


TYPE HEB-JW-RYC CONNECTOR SHOWN



TYPICAL COBRA-HEAD
DESIGN FOR LED
LUMINAIRES

SPECIAL NOTE:
ALL LUMINAIRES SHALL HAVE THE NEMA LABEL
INSTALL ON THE BOTTOM OF THE FIXTURE TO
VERIFY THE WATTAGE.



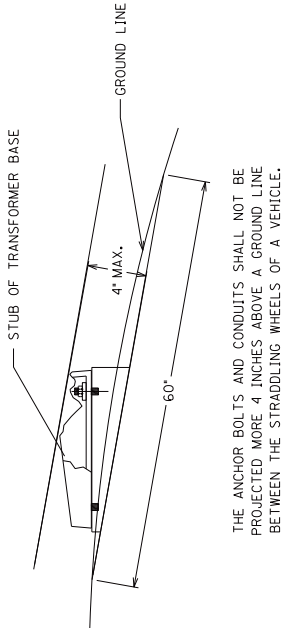
NOTE:
ALL TYPE B LUMINAIRES SHALL BE NO MORE THAN 84 WATTS, IES TYPE III, AND GROUND MOUNTED AT 30 FOOT (NOMINAL).
ALL TYPE C LUMINAIRES SHALL BE NO MORE THAN 169 WATTS, IES TYPE IV, AND GROUND MOUNTED AT 40 FOOT (NOMINAL).

4-24-2017

COBRA-HEAD LUMINAIRE/FUSE
CONNECTOR DETAILS

TRAFFIC SIGNAL AND
ROADWAY LIGHTING
JUNCTION BOX AND CONDUIT DETAILS

COUNTY OF	ITEM NO.	SHEET NO.
DAVISS	2-998J00	T4

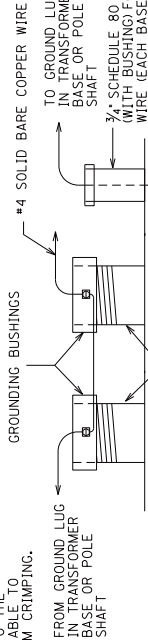


THE ANCHOR BOLTS AND CONDUITS SHALL NOT BE PROJECTED MORE 4 INCHES ABOVE A GROUND LINE BETWEEN THE STRADDLING WHEELS OF A VEHICLE.

BREAKAWAY SUPPORT STUB HEIGHT MEASUREMENT

DUCTED CABLE INSTALLED THROUGH 3\"/>

IF DUCTED CABLE INSTALLED BETWEEN POLE BASES:
INSTALL RIGID STEEL/DUCTED CABLE COUPLING. USE BONDING CONDUIT ADHESIVE TO ATTACH TO RIGID STEEL. THE RIGID STEEL TO DUCTED CABLE RACEWAYS SHALL BE THE SAME SIZE AS THE DUCTED CABLE WHICH ATTACHES TO THE RIGID STEEL CONDUIT. ALTERNATELY IF DUCTED CABLE IS USED, THE CONTRACTOR CAN INSTALL RIGID STEEL CONDUIT TWO TIMES THE SIZE OF THE DUCT AND RUN THE DUCT INSIDE THE RIGID STEEL CONDUIT. THE RIGID STEEL CONDUIT SHALL BE INCREASED TO ADHERE TO THE BENDING RADIUS RECOMMENDED BY THE MANUFACTURER OF THE DUCT.



TYPICAL GROUNDING DETAIL

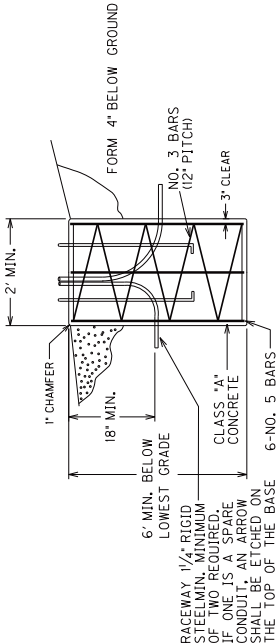
GROUNDING REQUIREMENTS:
CONTRACTOR SHALL PROVIDE A MINIMUM OF 6 INCHES OF GROUND WIRE FOR TESTING PRIOR TO CONNECTING THE WIRE TO TRANSFORMER BASE.

POLE/TRANSFORMER BASE GROUND - GROUND WIRE SHALL COME FROM THE GROUND ROD THROUGH THE PVC CONDUIT, CONNECTING TO THE TRANSFORMER BASE/POLE AND THEN TO EACH RIGID STEEL GROUNDING BUSHING.

NOTES:

ALL CONDUITS USED FOR THE GROUNDING, SPARES AND CONDUCTORS THAT ARE INSTALLED IN THE POLE BASE ARE INCIDENTAL TO BID ITEM *4740*. THIS INCLUDES PROVIDING A MINIMUM OF 24 INCHES OF CONDUIT PAST THE EDGE OF THE POLE BASE.

NOTE: PRECAST CONCRETE BASES ARE NOT ACCEPTABLE



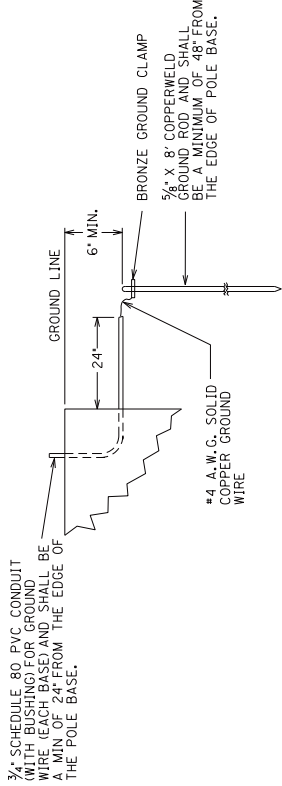
2\"/>

3/4\"/>

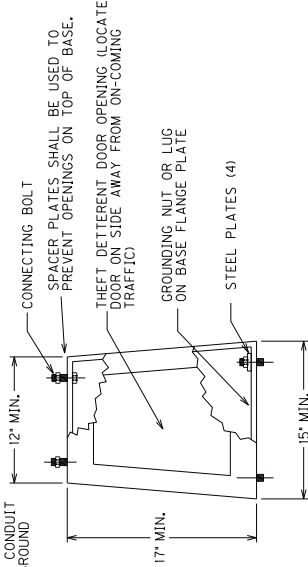
6-NO. 5 BARS

ALL POLE BASES SHALL HAVE A MINIMUM OF TWO CONDUITS INCLUDING GROUND CONDUIT. THE SPARE CONDUIT SHALL BE 180 DEGREE FROM THE CONDUIT FOR THE CONDUCTORS.

FOUNDATION DETAIL



GROUNDING DETAIL



CONCRETE BASES SHALL BE POURED LEVEL, NO MORE THAN A 3/4\"/>

TYPICAL

CAST ALUMINUM TRANSFORMER BASE

NOTE: TRANSFORMER BASE DOOR SHALL HAVE 1\"/>

SPECIAL NOTE FOR TRANSFORMER BASES:
FURNISH AN ARC FLASH AND SHOCK HAZARD WARNING STICKER ON TRANSFORMER BASE WITH THE FOLLOWING INFORMATION:
VOLTAGE (480 VOLT)
GLOVE CLASS (0)
LIMITED APPROACH BOUNDARY (42 IN)
RESTRICTED APPROACH BOUNDARY (36 IN)
MINIMUM CLOTHING ARC RATING (CAT 2)
SEE NFPA 70E FOR ADDITIONAL PPE REQUIRED

TRANSFORMER BASE DETAIL



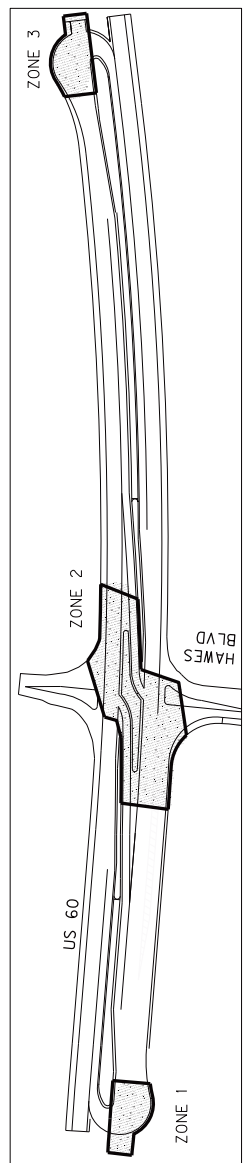


Power Info: v8.11.5.397 E-SHEET NAME:	USFR r-yon-s DATE PLOTTED: February 2, 2023 FILE NAME: C:\PW\WORKDIR\RYM\N\S\0024807\100700CL.DGN	LED LUMINAIRE DETAILS
<div>DESIGN CRITERIA</div> <div>US 60 / HAWES BLVD</div> <div>ZONE 1</div> <div>OVERALL CRITERIA ILLUMINANCE: AVERAGE: NOT LESS THAN 0.80 FOOTCANDLES AND MORE THAN 0.92 FOOTCANDLES MINIMUM: NOT LESS THAN 0.20 FOOTCANDLES AVERAGE/MINIMUM: NOT MORE THAN 4:1</div> <div>ZONE 2</div> <div>OVERALL CRITERIA ILLUMINANCE: AVERAGE: NOT LESS THAN 0.80 FOOTCANDLES MINIMUM: NOT LESS THAN 0.20 FOOTCANDLES AVERAGE/MINIMUM: NOT MORE THAN 4:1</div> <div>ZONE 3</div> <div>OVERALL CRITERIA ILLUMINANCE: AVERAGE: NOT LESS THAN 0.80 FOOTCANDLES AND MORE THAN 0.85 FOOTCANDLES MINIMUM: NOT LESS THAN 0.20 FOOTCANDLES AVERAGE/MINIMUM: NOT MORE THAN 4:1</div> <div>US 60 / WRIGHTS LANDING RD</div> <div>ZONE 4</div> <div>OVERALL CRITERIA ILLUMINANCE: AVERAGE: NOT LESS THAN 0.80 FOOTCANDLES AND MORE THAN 0.88 FOOTCANDLES MINIMUM: NOT LESS THAN 0.20 FOOTCANDLES AVERAGE/MINIMUM: NOT MORE THAN 4:1</div> <div>ZONE 5</div> <div>OVERALL CRITERIA ILLUMINANCE: AVERAGE: NOT LESS THAN 0.78 FOOTCANDLES MINIMUM: NOT LESS THAN 0.20 FOOTCANDLES AVERAGE/MINIMUM: NOT MORE THAN 4:1</div> <div>ZONE 6</div> <div>OVERALL CRITERIA ILLUMINANCE: AVERAGE: NOT LESS THAN 0.80 FOOTCANDLES AND MORE THAN 0.84 FOOTCANDLES MINIMUM: NOT LESS THAN 0.20 FOOTCANDLES AVERAGE/MINIMUM: NOT MORE THAN 4:1</div> <div>ALL POLE LOCATIONS, ARM LENGTHS, AND ORIENTATION OF LUMINAIRE (TO CURVE/ROAD) SHOULD BE MAINTAINED DUE TO UTILITIES/DRAINAGE/RIGHT-OF-WAY.</div> <div>LUMINAIRE DESIGN</div> <div>TYPE III OR IV DISTRIBUTION (SEE PLANS) CCT: 4000K LAMP WATTAGE: NOT TO EXCEED 84W FOR TYPE B AND 169W FOR TYPE C</div>		
<div>The following are the required Specifications for the LED Fixture:</div> <div>1. The Luminaire shall be listed by a National Recognized Testing Laboratory (NRTL) as defined by the U.S. Department of Labor. The testing laboratory must be listed by OSHA in its scope of recognition for the applicable tests being conducted as required by this specification. A list of recognized testing labs for products sold in the United States may be found on the U.S. Department of Labor's website.</div> <div>2. The Luminaire shall be listed and labeled by a NRTL or CSA as being in compliance with UL 1598 and suitable for use in wet locations.</div> <div>3. Key components including LED drivers, LED light sources, and surge protection devices shall be ROHS compliant.</div> <div>4. The housing shall have an International Electrotechnical Commission (IEC) 529 Ingress Protection (IP) rating of IP 65 or greater.</div> <div>5. Shall be in compliance with Electro Magnetic Interference (EMI) requirements as defined by FCC 47 Sub Part 15: CISPR15, CISPR22 Class A (120V/min), EN61000-3-2, -3-3, -4-4, -4-5.</div> <div>6. Shall be tested according to the most current version of Illuminating Engineering Society of North America (IESNA) LM-79.</div> <div>7. Shall have lumen maintenance measured in accordance the most current version of Illuminating Engineering Society of North America (IESNA) LM-80.</div> <div>8. Shall have lumen maintenance documented according to the most current version of Illuminating Engineering Society of North America (IESNA) TM-21.</div> <div>9. The fixture shall have a diecast aluminum housing.</div> <div>10. The luminaire finish shall be corrosion resistant with a polyester powdercoat of 2.5 mil nominal thickness. Finish shall pass per ASTM D1654 after 3000 hours of testing per ASTM B117.</div> <div>11. All hardware on the exterior of the housing including cover and latch shall be stainless steel, zinc or steel with zinc alloy electroplate and chromate top coat.</div> <div>12. The luminaire shall be easy to open when properly mounted and shall have readily accessible internal parts. Access to all internal parts requiring replacement shall not require tools (i.e., "too-less" entry).</div> <div>13. The luminaire shall have a Vibration rating of 3G per the American National Standard (ANSI) IEEE C136.31, Table 2 Roadway Lighting Equipment -Luminaire Installation for normal applications and bridge and overhead applications.</div> <div>14. The luminaire shall have a passive cooling method shall be employed to manage thermal output of LED light engine and power supply.</div> <div>16. The luminaire shall have a label per ANSI C136.22 that states operating voltage and current range. The label must be clearly visible on the inside of the housing.</div> <div>17. The luminaire shall fully operate in a temperature range of -40 degrees C up to 40 degrees C (-40 degrees F to 104 degrees F).</div> <div>18. In retrofit applications, the LED luminaire shall not be more wattage than the original HPS fixture if you are replacing one for one. For the optimized proposal, we will allow the wattage to be greater than the original proposed luminaire.</div> <div>19. The luminaire shall have an integral power supply (electronic driver). The power supply shall not have a manual, field-adjustable setting for current output.</div> <div>20. The luminaire shall have a power supply (electronic driver) that will operate on a 480 volt single phase at 60 hertz.</div> <div>21. The luminaire shall have a power supply (electronic driver) that has a power factor of .90 or greater at full load.</div> <div>22. The luminaire shall have a power supply (electronic driver) that has total harmonic distortion of 20% or less at full load.</div> <div>23. The luminaire shall have power supply (electronic driver) output ripple of less than 15%.</div> <div>24. The luminaire shall have power supply (electronic driver) with a rated life of 100,000 hours with a luminaire operated at an ambient temperature of 25°C (77°F).</div> <div>25. The luminaire shall have an isolated power supply (electronic driver) output.</div> <div>26. The luminaire shall have a power supply (electronic driver) that has terminal block protected.</div> <div>27. The luminaire shall have a power supply (electronic driver) that is self-terminated short circuit protected and over load protected.</div> <div>28. The luminaire shall not use any active thermal cutback, such as in order to achieve a higher thermal performance.</div> <div>29. The luminaire shall have a power supply (electronic driver) that is terminated with quick disconnect wire harnesses for easy maintenance. Wire nut termination is not acceptable.</div> <div>30. The luminaire shall have a terminal block for terminating wiring to the luminaire. The terminal block shall be a 3 station, tunnel lug terminal board that will accommodate #6 thru #18 AWG pole wire.</div> <div>31. Fixture shall have a surge protection that meets 10KV/5KA per ANSI/IEEE C62.41.</div> <div>32. The luminaire shall have life rating on all electrical components of 100,000 hrs or greater when operated at full lumen output at 25 degrees C.</div> <div>33. All LED components shall be rated when operated in a luminaire at 25 degrees C (77 degrees F) at 100,000 hours.</div> <div>34. Electrical components shall be protected per ANSI/IEEE standard C62.41, for Class C applications.</div> <div>35. The LED shall fully operate in a temperature range -40 degrees C to 40 degrees C (-40 degrees F to 104 degrees F).</div>		
<div>36. The LED shall lose no more than a 15% optical intensity of initial delivered lumens due to thermal loading when operated at 25°C (77°F)</div> <div>37. The LED shall have a rated life of 100,000 hours when operated at 40 °C.</div> <div>38. The LED shall have a minimum Luminaire efficacy of 120 lumens/watt.</div> <div>39. The Correlated Color Temperature (CCT) shall be 4000K with a variance of 250K, white, that conforms to LM-79. The Correlated Color Temperature (CCT) shall be 5000K with a variance of 250K, white, that conforms to LM-79 (HIGH MAST ONLY).</div> <div>40. The minimum color rendering index (CRI) shall not be less than 70.</div> <div>41. The optics shall have a completely sealed optical system.</div> <div>42. The optics system shall have a (IEC) (IP) rating of 65 or greater.</div> <div>43. The optics shall have an Illuminating Engineering Society of North America (IESNA) Backlight and Glare (BUG) rating as follows:</div> <div>a. Backlight rating shall not exceed 5 (highmast fixture backlight rating shall not exceed 5)</div> <div>b. Uplight rating shall not exceed 0;</div> <div>c. Glare rating shall not exceed 3/4</div> <div>44. The Light Loss Factor (LLF) shall be calculated for each fixture as follows:</div> <div>LLF = LLD X LDD</div> <div>Lamp Lumen Depreciation Factor (LLD) shall be the specified percentage of LED lumen maintenance at 70,000 hours at 25°C (77°F) from the TM-21 report. This LLD should be according to LM -80 and TM -21 reports. This report shall be submitted for verification.</div> <div>Luminaire Dirt Depreciation (LDD)= .9</div> <div>45. The TM-21 Report must show the drive current used for the submitted luminaire. The report can show a larger drive current to represent a worst case scenario.</div> <div>46. The Luminaire Maintenance Life L80 from the TM-21 Report must not be below 80% at 70,000 hours at 25°C (77°F).</div> <div>47. The manufacturer shall provide certified test laboratories IES photometries which verify light levels. Product submittal shall be accompanied by IES TM-21 compliant test reports from a CALPERF qualified or NVLAP accredited testing laboratory for the specific model being submitted.</div> <div>48. The luminaire shall be equipped with a shoring cap and a 7-pin photocontrol receptacle that meets ANSI 2013 standard C136.41</div> <div>49. The luminaire shall have an exterior label that identifies the fixture type (A,B,C,D) and the distribution type. This label shall be submitted and approved by the project engineer.</div> <div>50. The luminaire shall have a QR code label that can be scanned and identify the model number and serial number for each individual fixture. This label shall be submitted and approved by the project engineer.</div> <div>51. WARRANTY: The Manufacturer shall ensure that the LED luminaires have a minimum 5 year warranty. The luminaire shall be warranted against light output, and shipping (both ways) required to repair or replace the luminaire. The warranty shall begin upon the date the luminaire is received. The warranty shall be transferable, Technical Support. During the warranty period, technical support shall be available from the manufacturer via telephone within 24 hours of the time the call is made from KYTC, and this support shall be made available from factory certified personnel or factory certified installers at no additional charge to the Department.</div> <div>52. MINIMUM REQUIRED SUBMITTALS:</div> <div>Luminaire specification sheet.</div> <div>LED driver specification sheet.</div> <div>LM-79 Luminaire photometric report.</div> <div>The vendor must submit LM-79 In-situ test data to confirm thermal operating temperatures of the luminaire.</div> <div>TM-21 Luminaire maintenance report.</div> <div>Backlight, Uplight, Glare (BUG) rating of the luminaire.</div> <div>Written product warranty.</div> <div>Certified test lab IES photometric reports.</div> <div>Including IES electronic file.</div> <div>Including intensity and chromaticity data.</div> <div>Instructions for installation and maintenance.</div>		
5/12/2022		

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●	○	LUMINAIRE POLE	---	---	1 1/4 INCH SCH 80 PVC CONDUIT (UNLESS OTHERWISE NOTED)
7A		JUNCTION BOXES - TYPES A & C (AS DESIGNATED)	---	---	2 INCH SCH 80 PVC CONDUIT (UNLESS OTHERWISE NOTED)
8		BASE MOUNTED CABINET WITH WOOD SERVICE POLE	---	---	

WIRING SCHEDULE		TO	WIRE SIZE
DOWN	ROLLER	1-1-C-15-15	WIRE - NO. 10
	1-15-15	JBA1	WIRE - NO. 10
		1-1-2-B-12-15	WIRE - NO. 10
		1-1-2-B-12-15	WIRE - NO. 10
	ROLLER	JBA1	WIRE - NO. 10
		JBA2	WIRE - NO. 10
		JBA3	WIRE - NO. 10
		1-2-1-C-15-24	WIRE - NO. 10
		1-2-2-B-12-14	WIRE - NO. 10
	15-24		WIRE - NO. 10



US 60
LIGHTING PLAN
STA. 791+00 TO STA. 804+00

COUNTY OF	ITEM NO.	SHEET NO.
DAVISS	2-936.00	T9

GENERAL CONVENTIONAL NOTES:

ALL SPLICES NOTED ON THIS PLAN SHALL BE APPROVED BY CENTRAL OFFICE TRAFFIC OPERATIONS. THESE SPLICES SHALL BE WATERPROOF AND SHALL BE OF THE CORRECT SIZE FOR THE WIRE USED AND SHALL BE RAYCHEM G7AP-28181, OR APPROVED EQUAL. ALL SPLICES SHALL BE INCIDENTAL TO THE WIRE AND CABLE BEING INSTALLED.

CONVENTIONAL LIGHTING:

ALL POLES SHALL HAVE A #12 AWG GREEN GROUND WIRE RUN FROM BOTTOM OF POLE TO THE LUMINAIRE FOR GROUNDING. ALL POLES SHALL HAVE A GREEN WIRE THE SAME SIZE AS THE CIRCUIT WIRE RUN FROM POLE TO POLE FOR GROUNDING. GROUNDING WIRES SHALL BE CONNECTED TO GROUNDING LUGS ON CONDUITS OR ON THE POLE/TRANSFORMER BASE.

POLE HEIGHTS, ARM LENGTHS AND SETBACKS ARE DENOTED AS STATED ON "LUMINAIRE DESIGNATION EXAMPLE" ON LUMINAIRE/FUSE CONNECTOR DETAIL SHEET1.

POLES SHALL BE PLACED AS CLOSE TO STATIONS AS STATED ON PLANS TO PROVIDE PROPER ILLUMINATION. IF ANY POLE NEEDS TO BE MOVED FROM THE STATION INDICATED, C.O. TRAFFIC SHALL BE CONTACTED AT 502-564-3026.

LEGEND

LUMINAIRE POLE

JUNCTION BOXES - TYPES A & C (AS DESIGNATED)

BASE MOUNTED CABINET WITH WOOD SERVICE POLE

1 1/4 INCH SCH 80 PVC CONDUIT (UNLESS OTHERWISE NOTED)

2 INCH SCH 80 PVC CONDUIT (UNLESS OTHERWISE NOTED)

WIRING SCHEDULE

CKT #	FROM	TO	WIRE SIZE
1-1-1	CONTROLLER	1-1-1-C-15-15	WIRE - NO. 10
		JBA1	WIRE - NO. 10
1-2-1	CONTROLLER	1-2-1-B-12-15	WIRE - NO. 10
		JBA1	WIRE - NO. 10
1-2-2	CONTROLLER	1-2-2-B-12-14	WIRE - NO. 10
		JBA1	WIRE - NO. 10
1-2-3	CONTROLLER	1-2-3-C-15-24	WIRE - NO. 10
		JBA3	WIRE - NO. 10

LUMINAIRES	STATION OFFSET	ALIGNMENT
1-1-1-C-15-15	STA. 801+81, 85 RT	US 60
1-2-1-B-12-15	STA. 795+64, 81 RT	US 60
1-2-1-C-15-24	STA. 803+20, 76 LT	US 60
1-2-2-B-12-14	STA. 813+03, 89 LT	US 60

US 60
LIGHTING PLAN
STA. 804+00 TO STA. 817+00

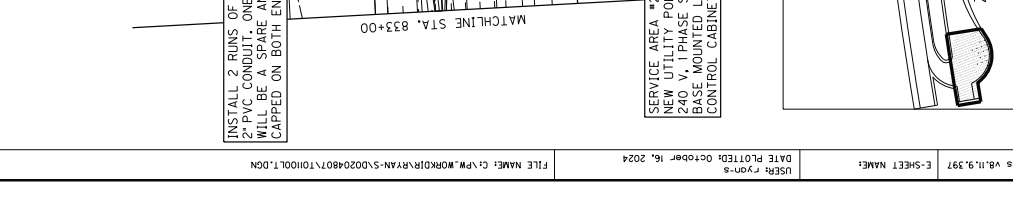
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Power InRoads v8.11.9.397
E-SHEET NAME:

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TRAFFIC
CORRECT SIZE
UAL. ALL



PL017



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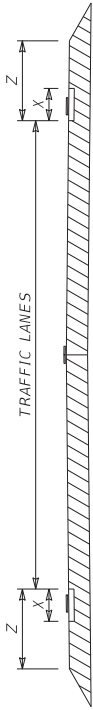
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Finger

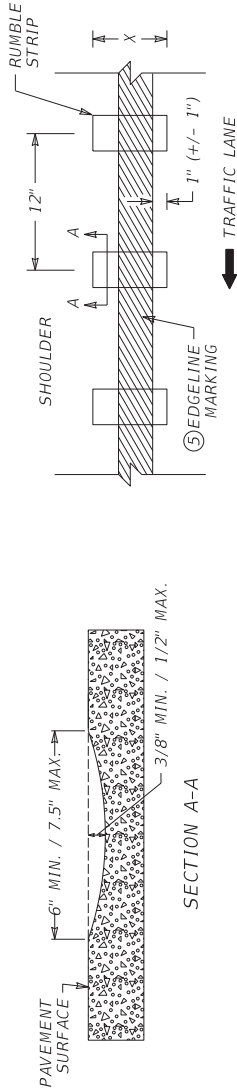
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100

SHOULDER WIDTH (Z) ②	RUMBLE TYPE ①	RUMBLE LENGTH (X) ③
>=1' up to <3'	ELRS	8"
>=3' up to <6.5'	ELRS ⑥	8"
>=6.5' up to <8'	ELRS ⑥	12"
>=8'	ELRS ⑥	16"

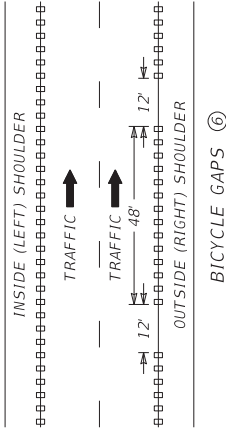


PAVEMENT CROSS-SECTION
(FOR EDGELINE RUMBLE STRIPS)



~ NOTES ~

- FOR MULTI-LANE ROADWAYS, THE RUMBLE TYPE TO BE INSTALLED IS EDGELINE RUMBLE STRIPS (ELRS).
- FOR EDGELINE RUMBLE STRIPS, THE SHOULDER WIDTH (Z) IS FROM THE LANE SIDE EDGE OF THE EDGELINE RUMBLE STRIP TO THE OUTSIDE EDGE OF SHOULDER PAVEMENT.
- THE RUMBLE LENGTH (X) MAY BE MODIFIED AS DIRECTED BY THE ENGINEER.
- THE DIMENSIONS SHOWN ON THIS DRAWING ARE APPROXIMATE. MAINTAIN RUMBLE STRIP DIMENSIONS AND SPACING AS MUCH AS POSSIBLE.
- PLACE THE EDGELINE MARKING SO THAT THE LANE SIDE EDGE OF THE MARKING GENERALLY FOLLOWS THE LANE SIDE EDGE OF THE RUMBLE STRIP. THE TARGET IS FOR THE LANE SIDE EDGE OF THE MARKING TO BE 1" BEYOND THE LANE SIDE EDGE OF THE RUMBLE STRIP WITH AN ACCEPTABLE VARIANCE OF +/- 1".
- EDGELINE RUMBLE STRIPS ALONG OUTSIDE (RIGHT) SHOULDERS THAT ARE 3' OR WIDER SHALL INCLUDE BICYCLE GAPS AS DETAILED. BICYCLE GAPS ARE NOT REQUIRED ON INSIDE (LEFT) SHOULDERS.
NOTE: BICYCLE GAPS SHALL NOT BE USED ON INTERSTATES AND PARKWAYS.
- RUMBLE STRIPS SHOULD BE OMITTED WHERE THE POSTED SPEED LIMIT IS 45 MPH OR LESS, OR WHEN THE SHOULDER WIDTH (Z) IS LESS THAN 1 FT.



DRAWING NOT TO SCALE
USE WITH CUR. STD. DWG.
TPR-115

LF
LF

SUBMITTED *[Signature]* 08-21-2023
DIVISION DIRECTOR DATE



DRAWING TITLE: SEPIA 030 - EDGELINE RUMBLE STRIP DETAILS MULTI-LANE ROADWAYS AND RAMPS

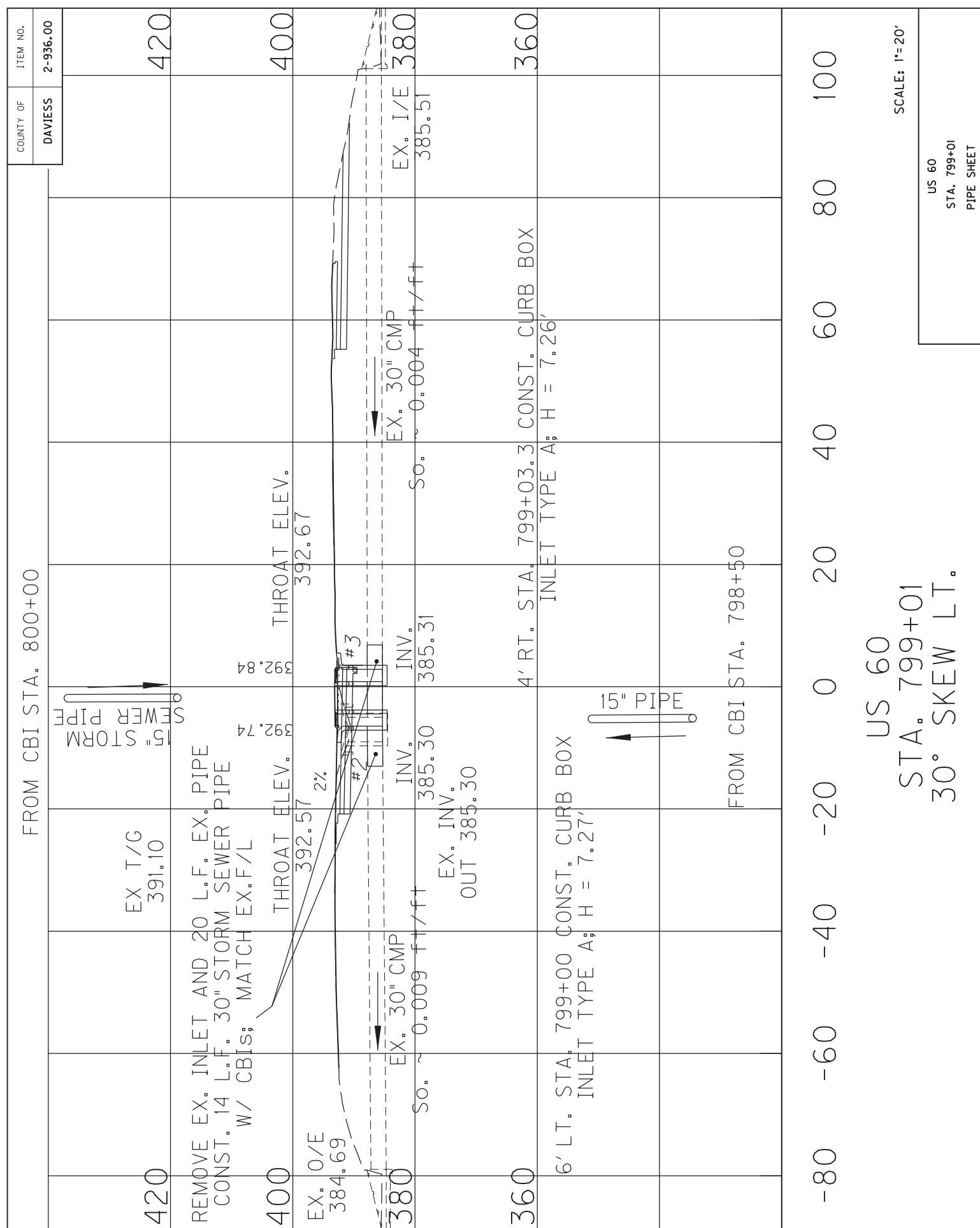
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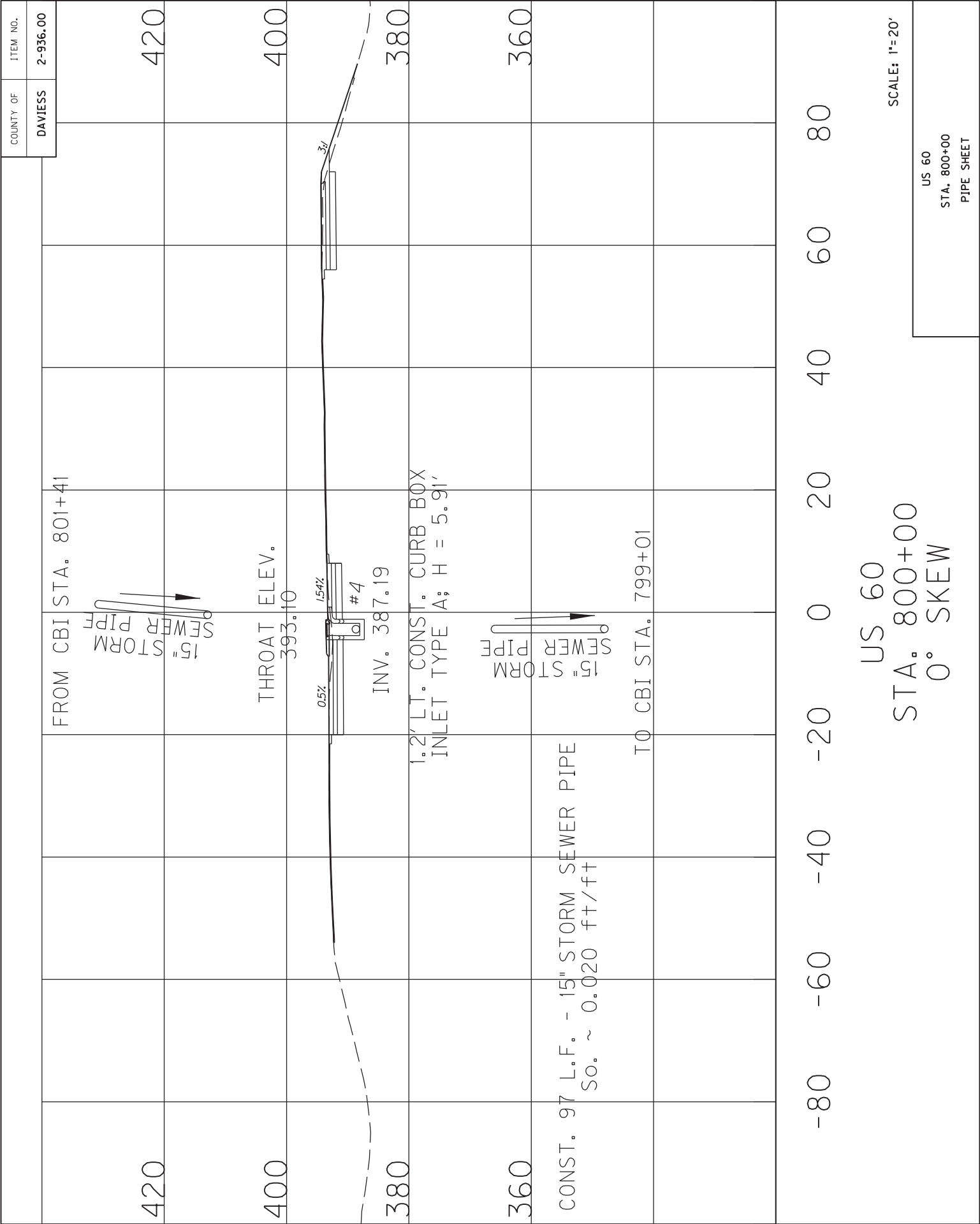
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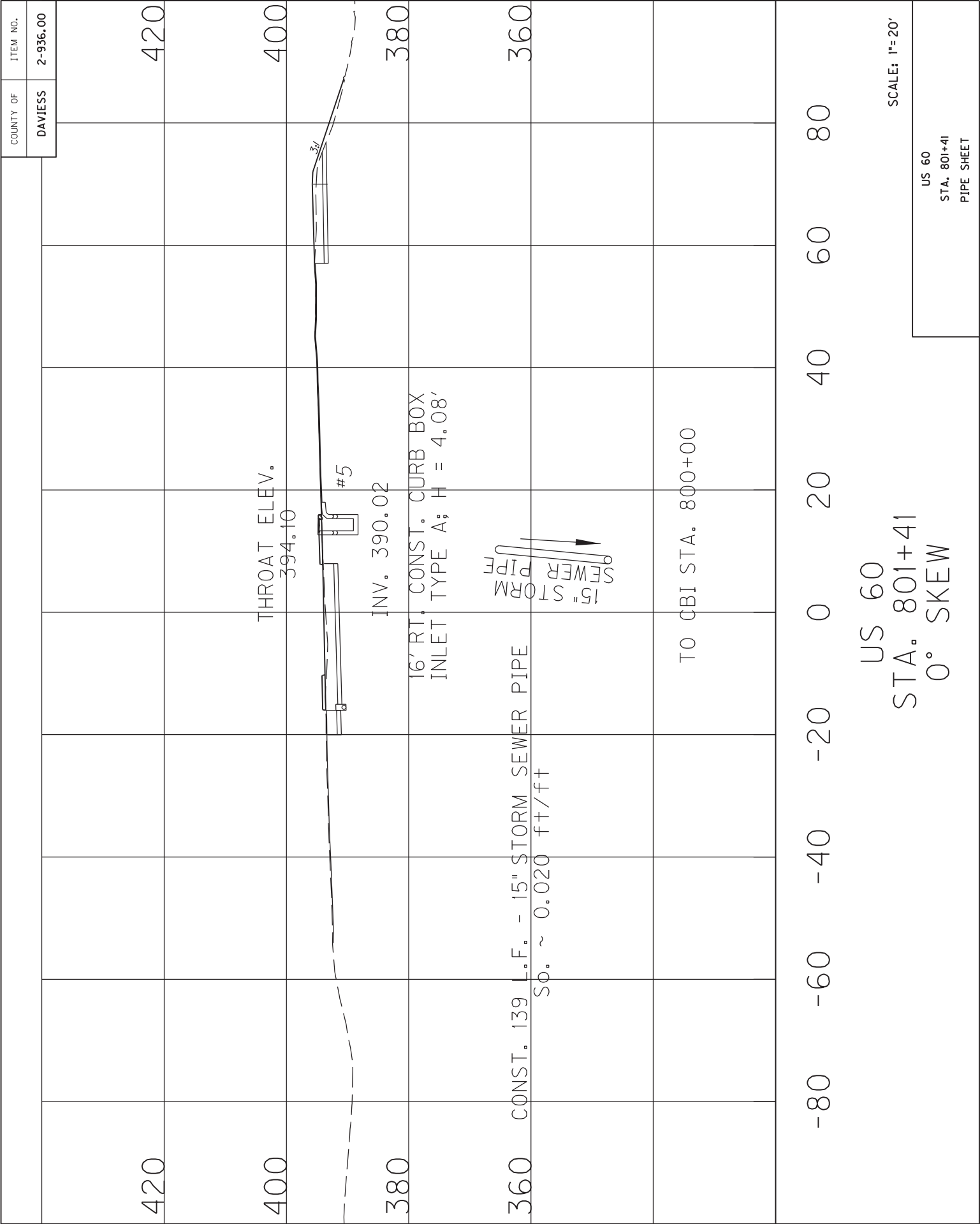
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SHEET NO.

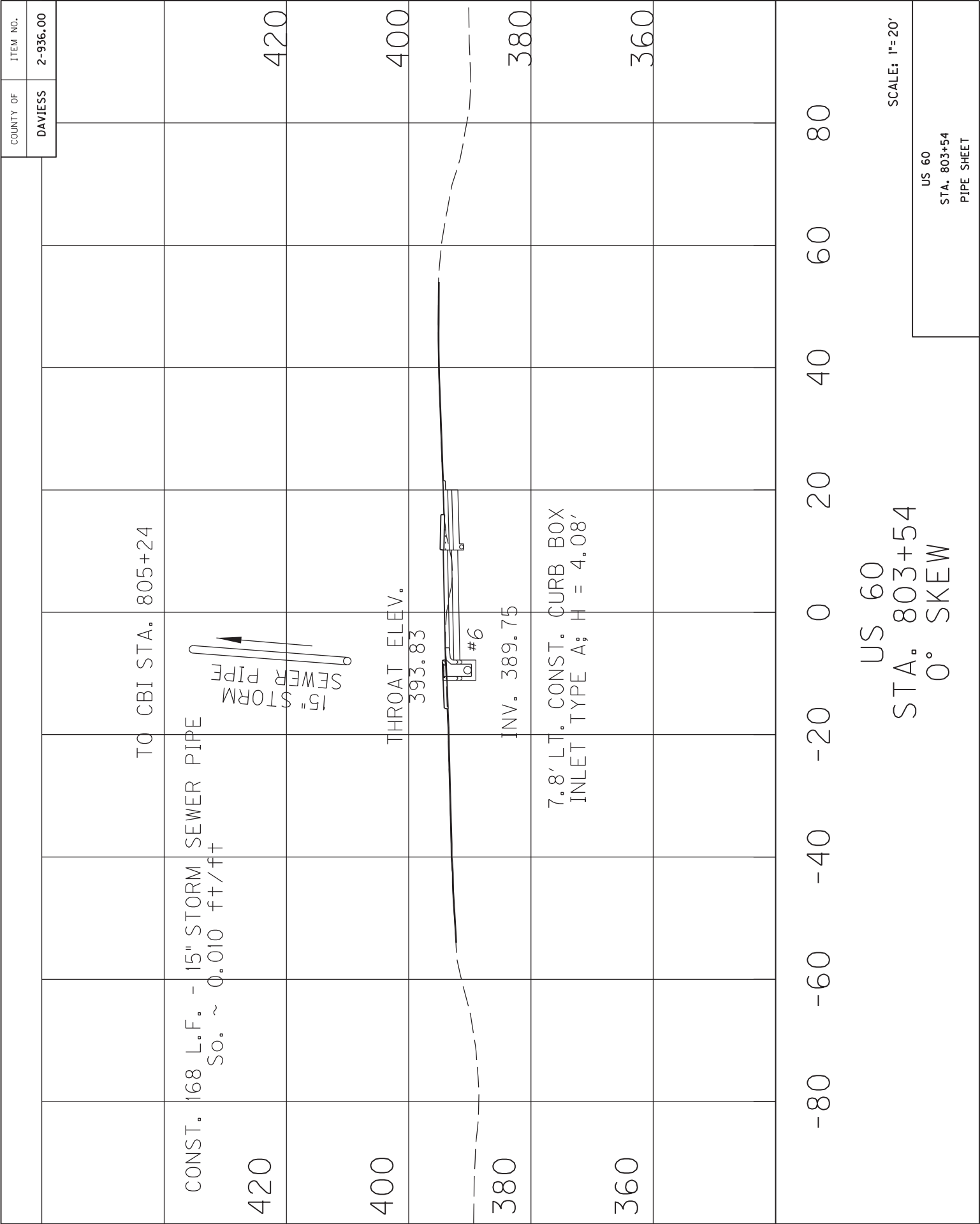
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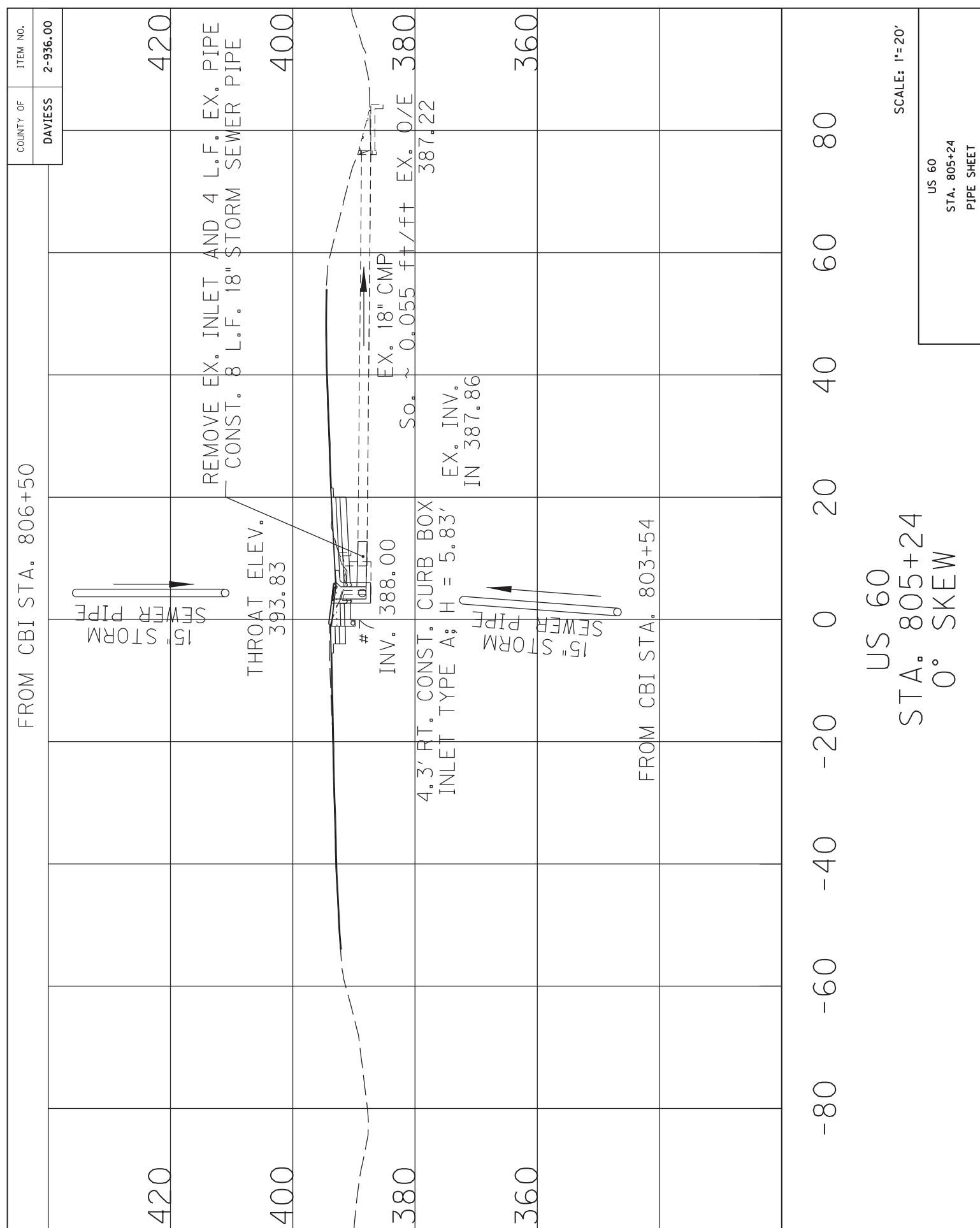
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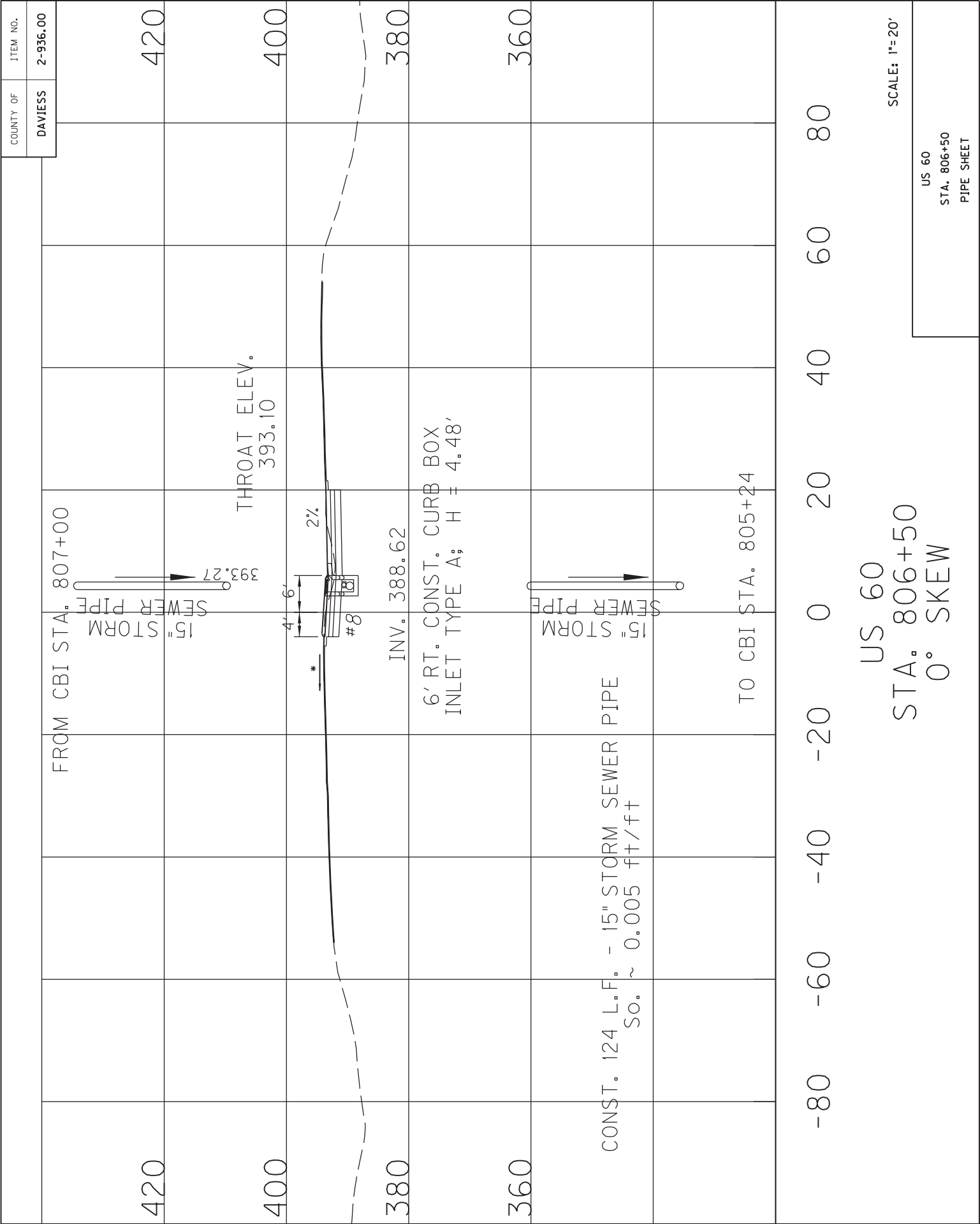


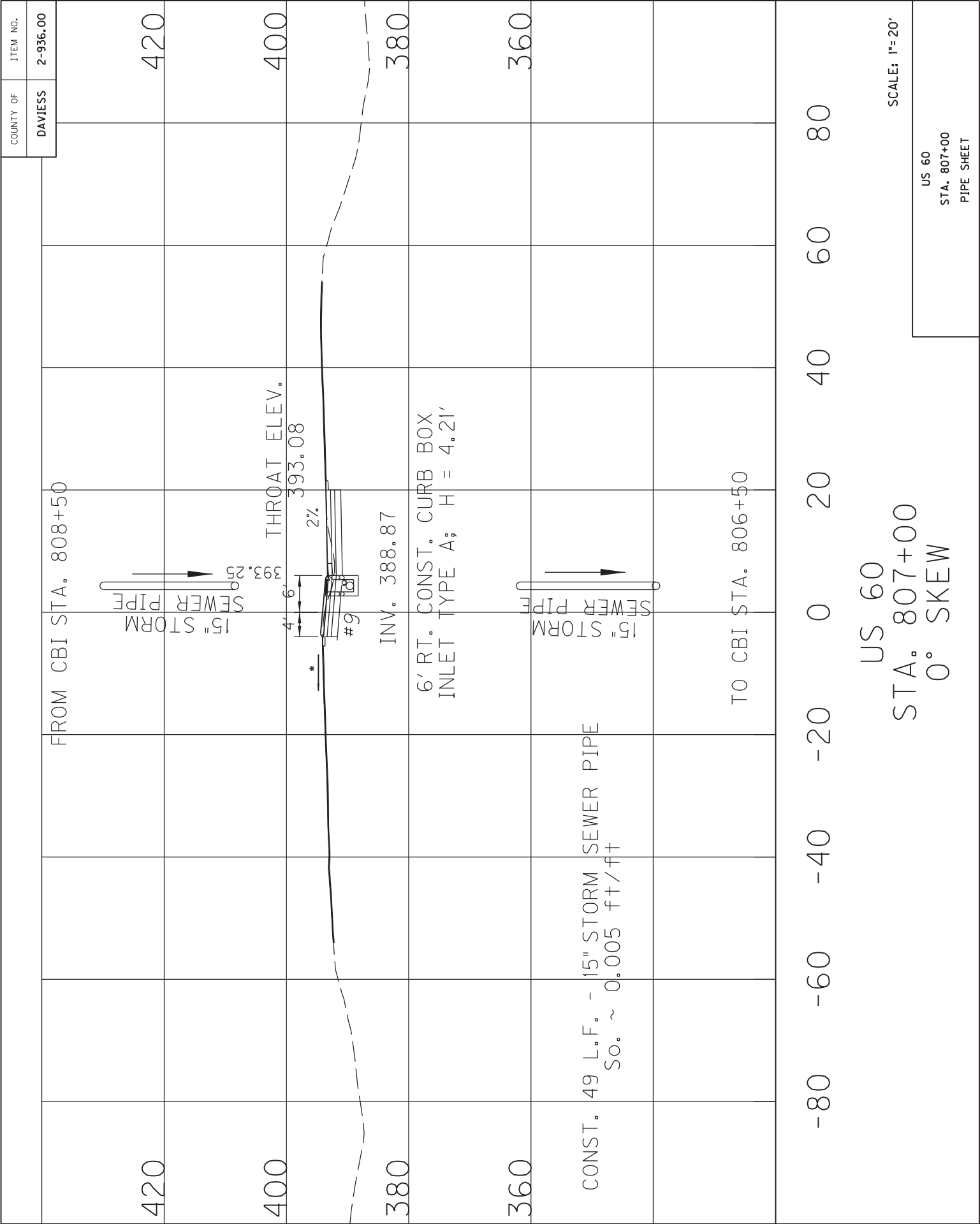


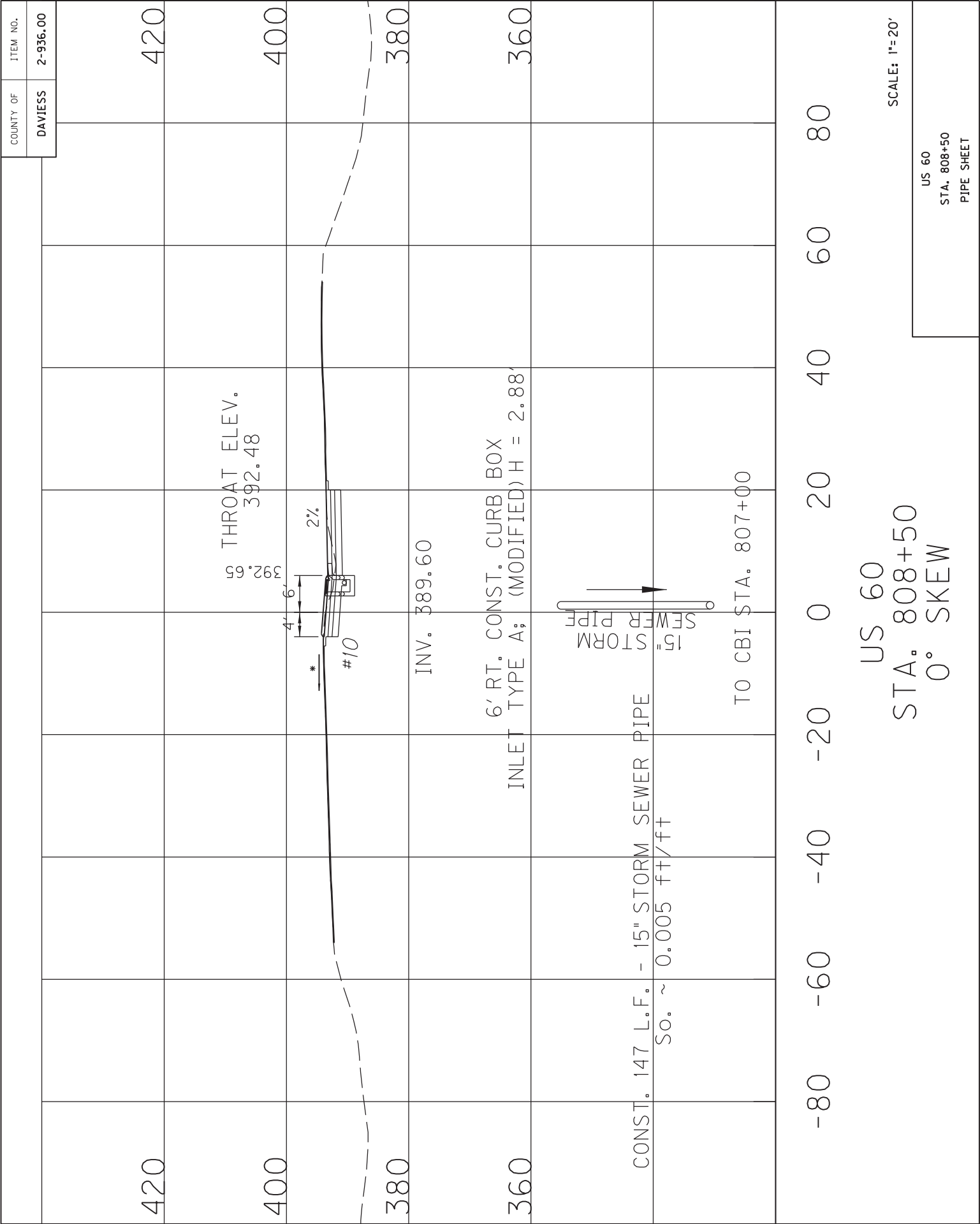


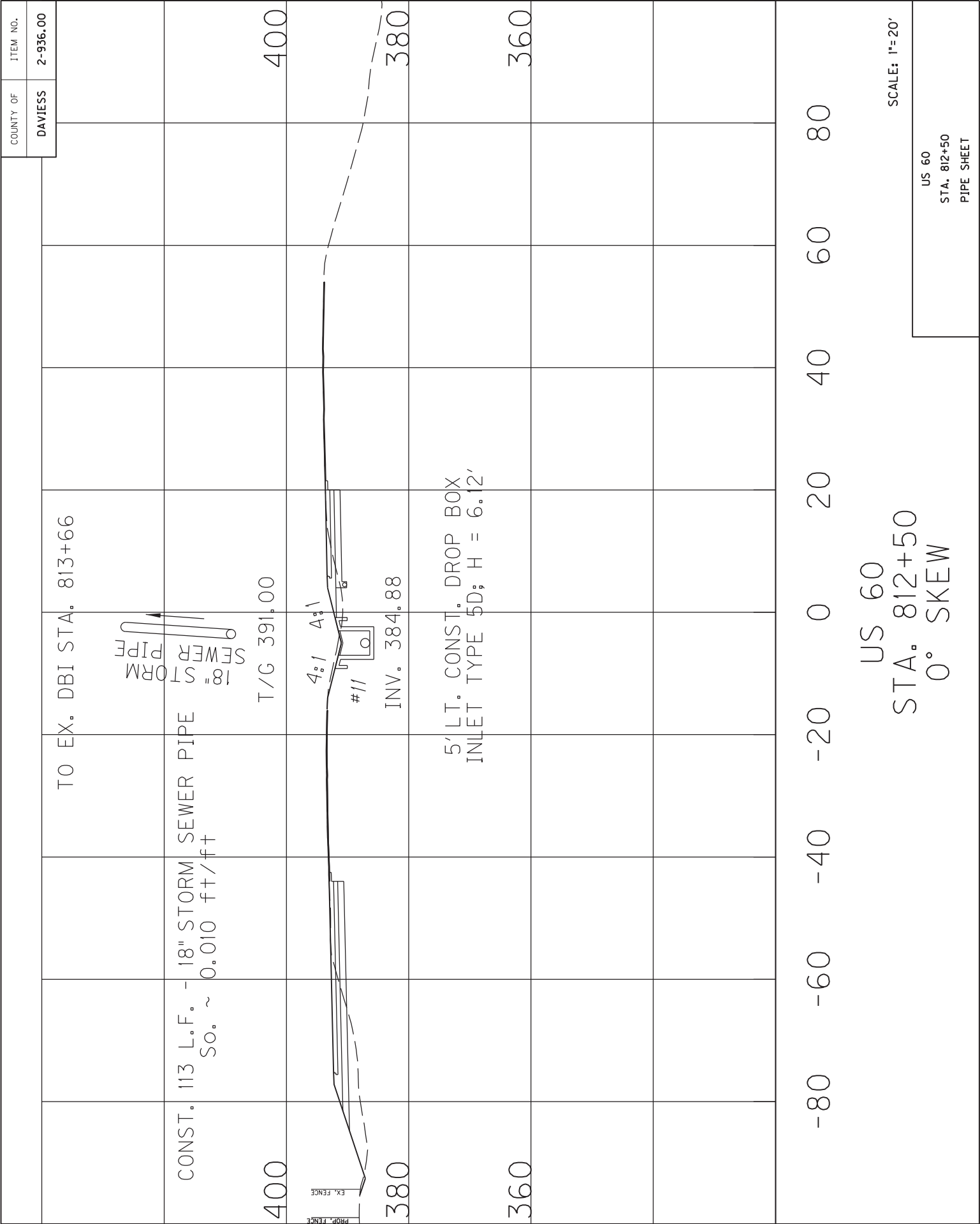


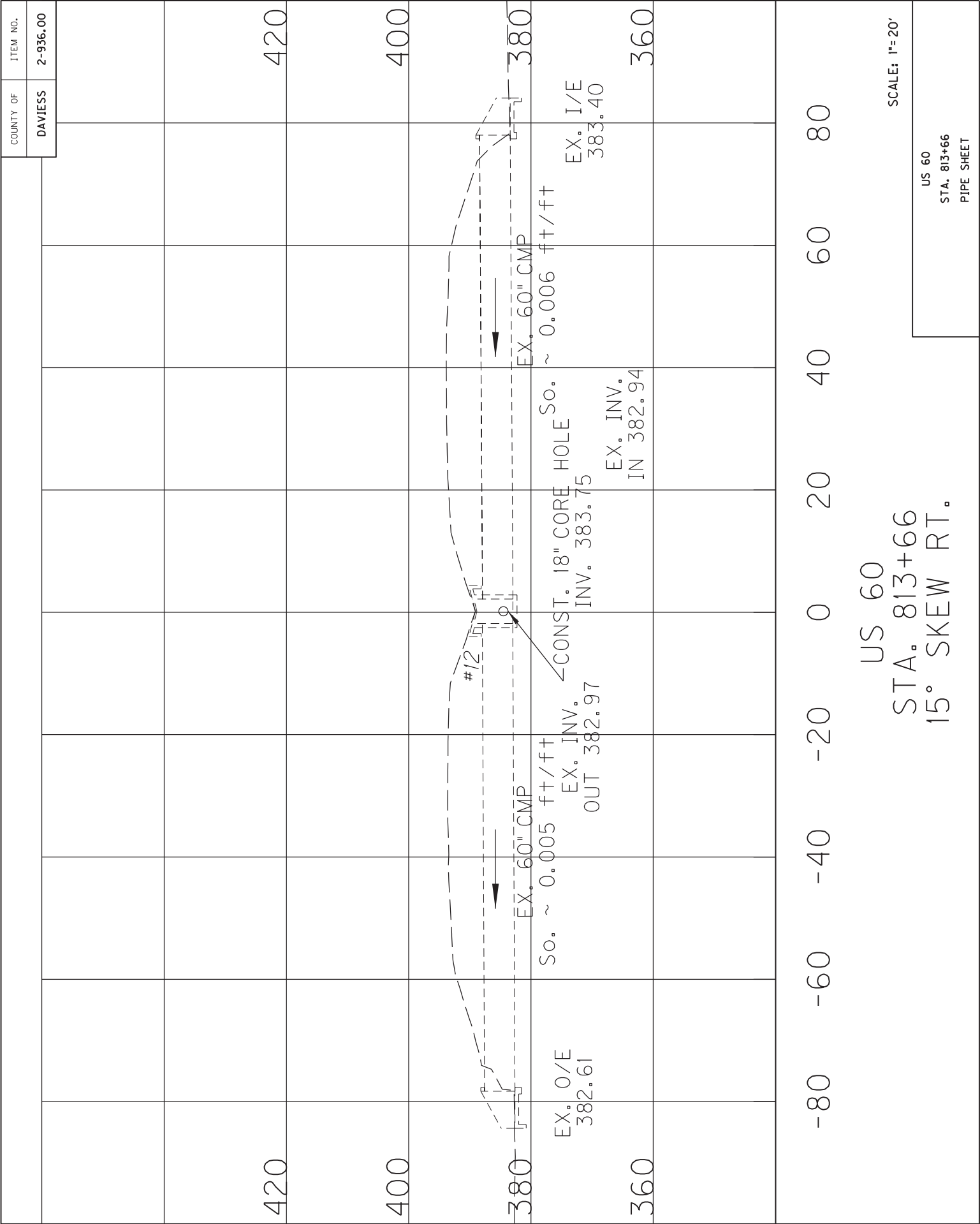


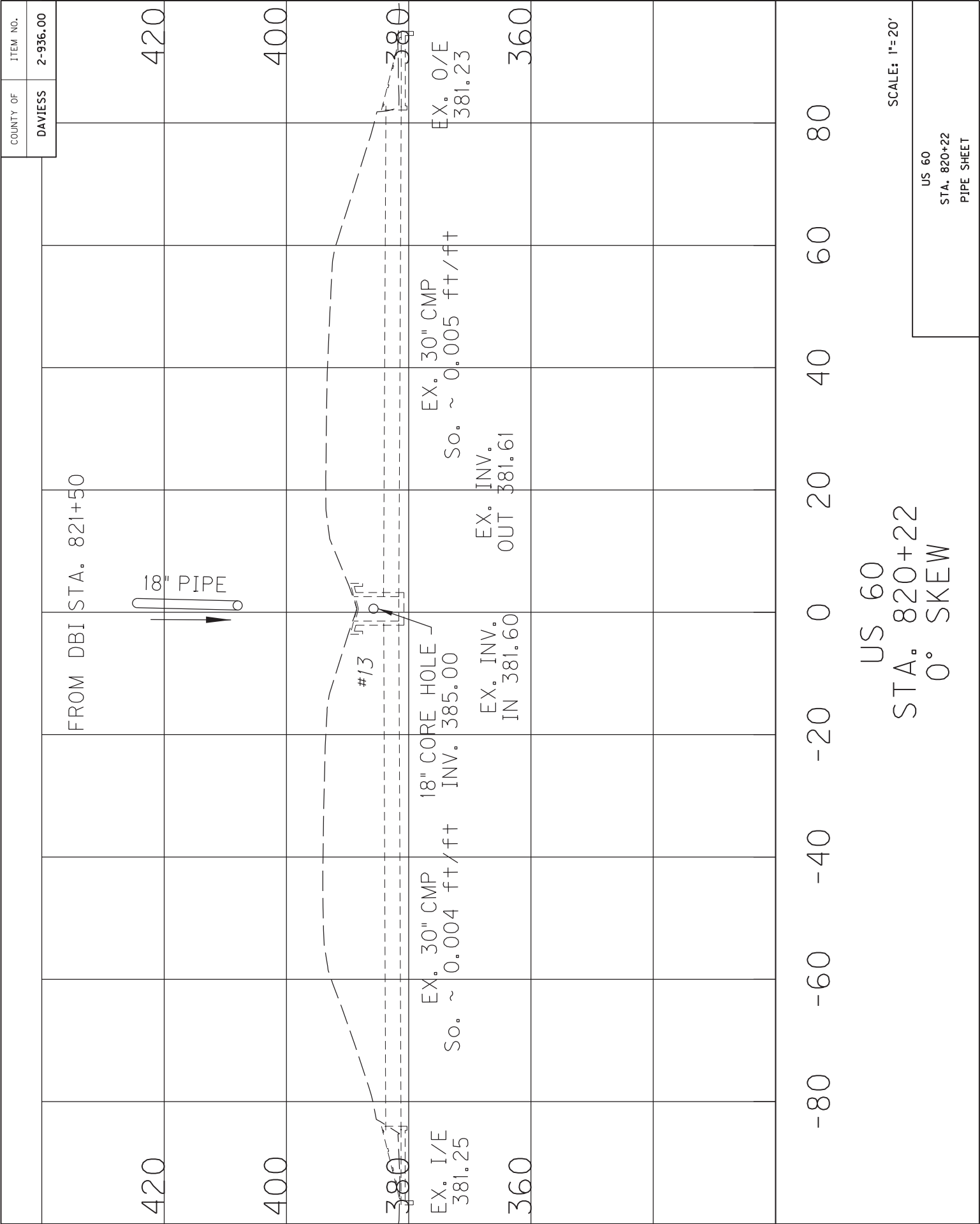


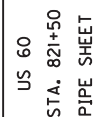


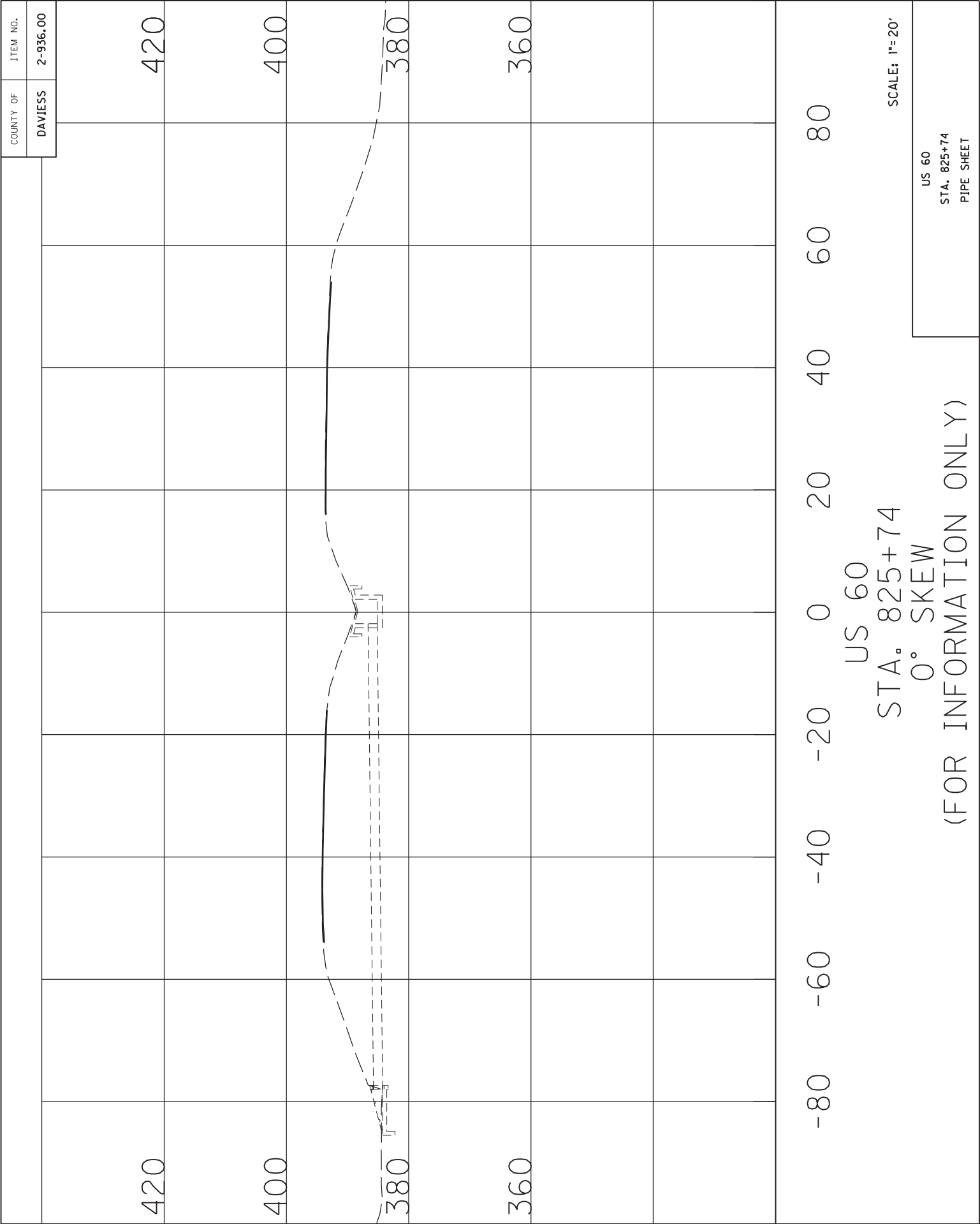


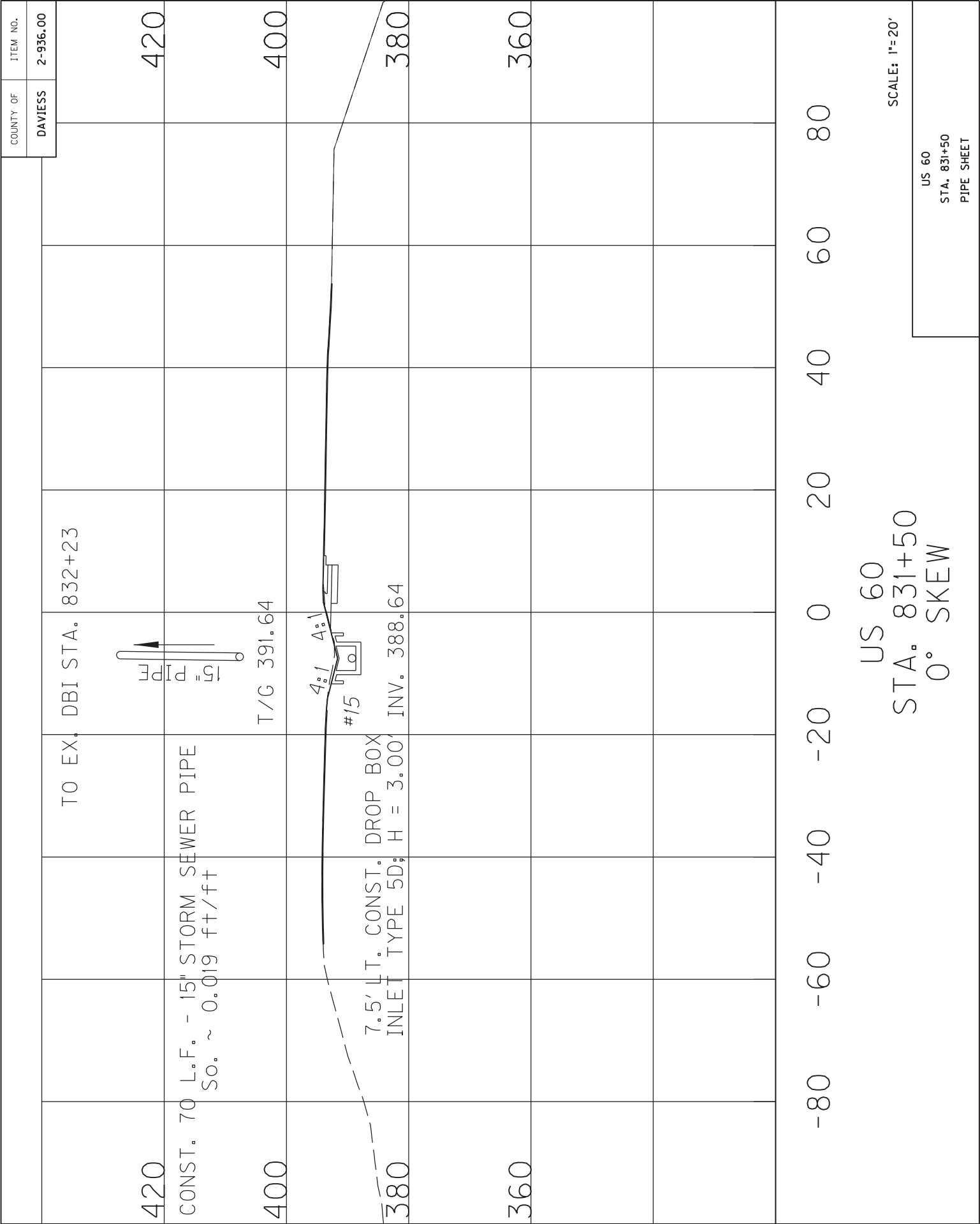


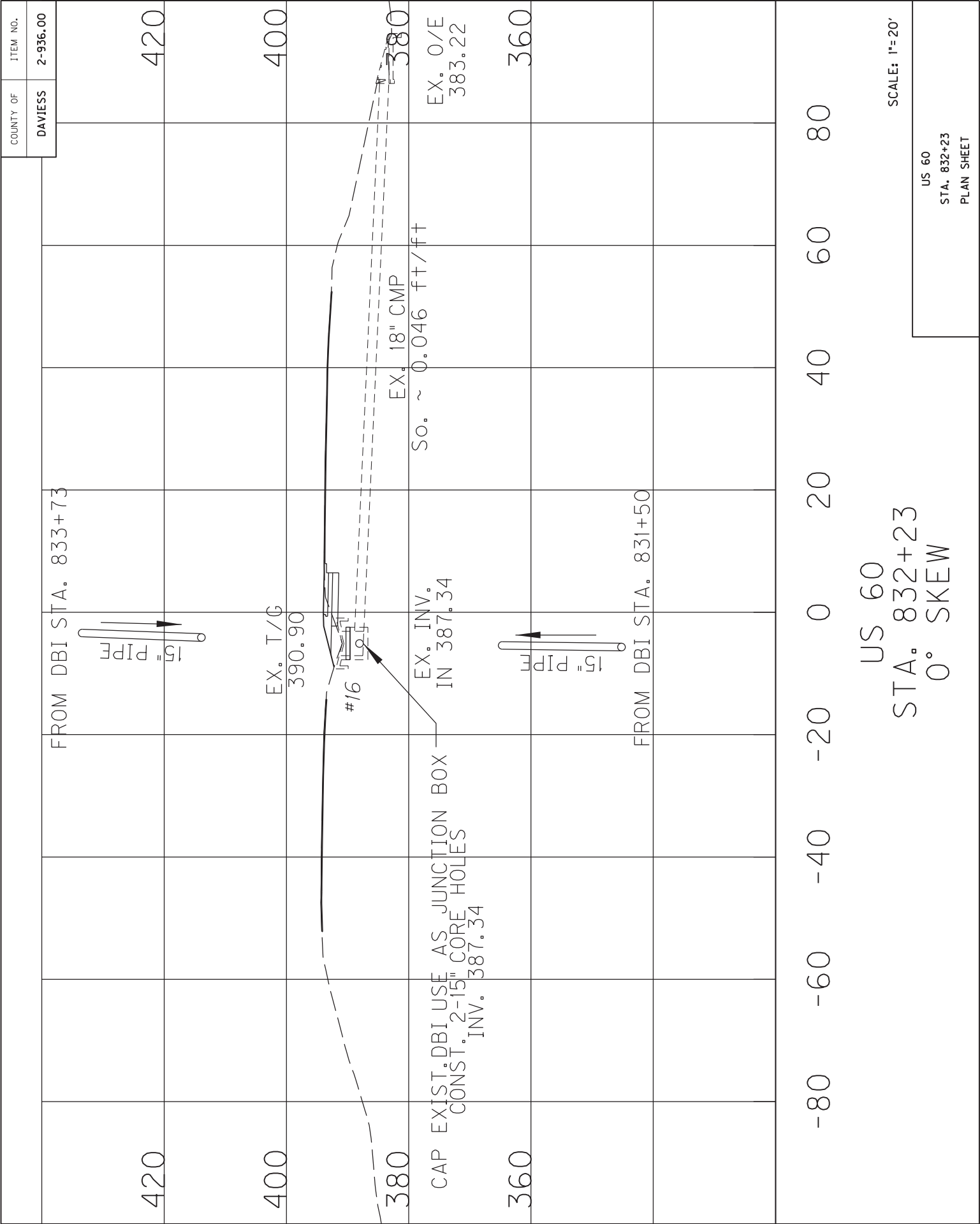


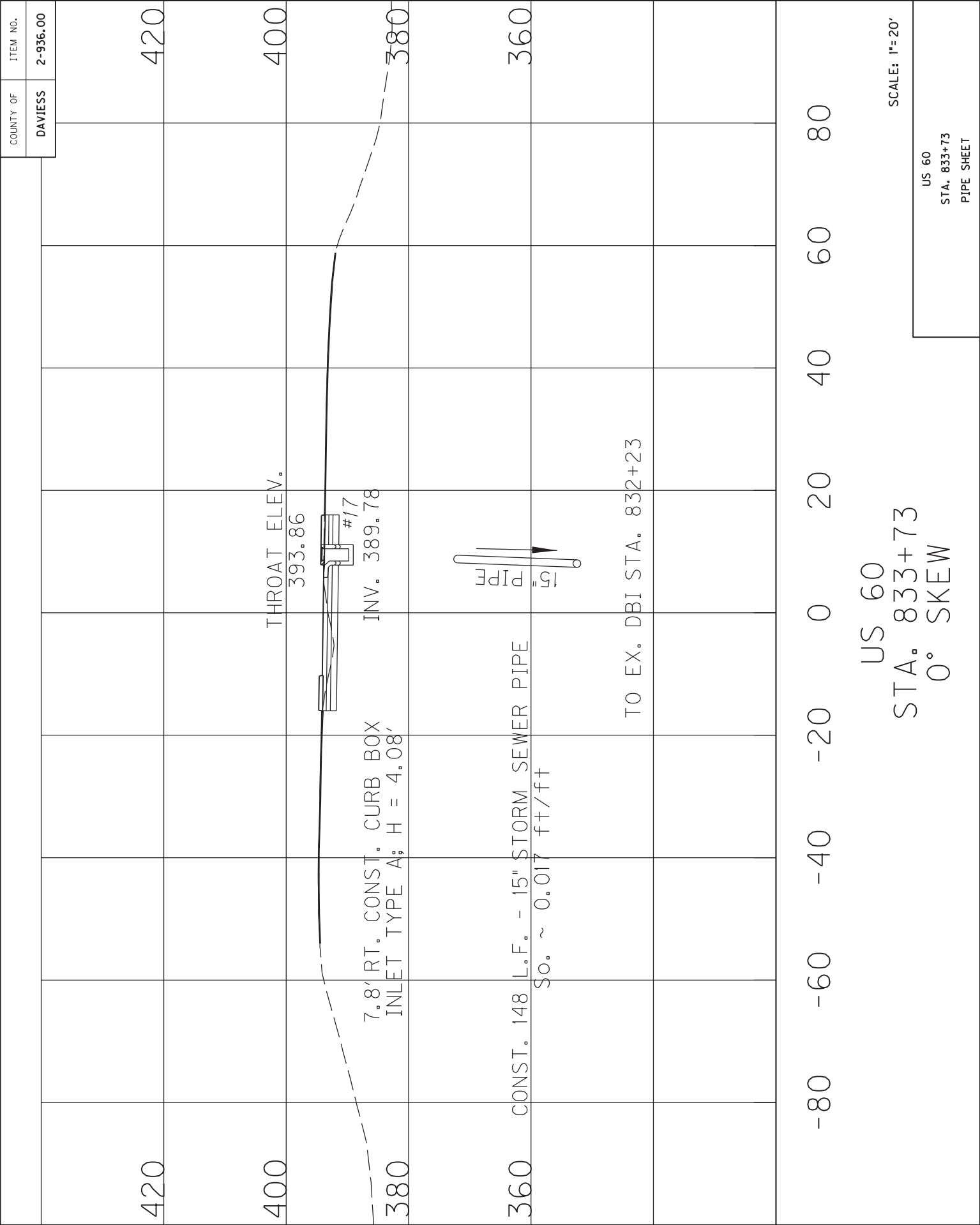


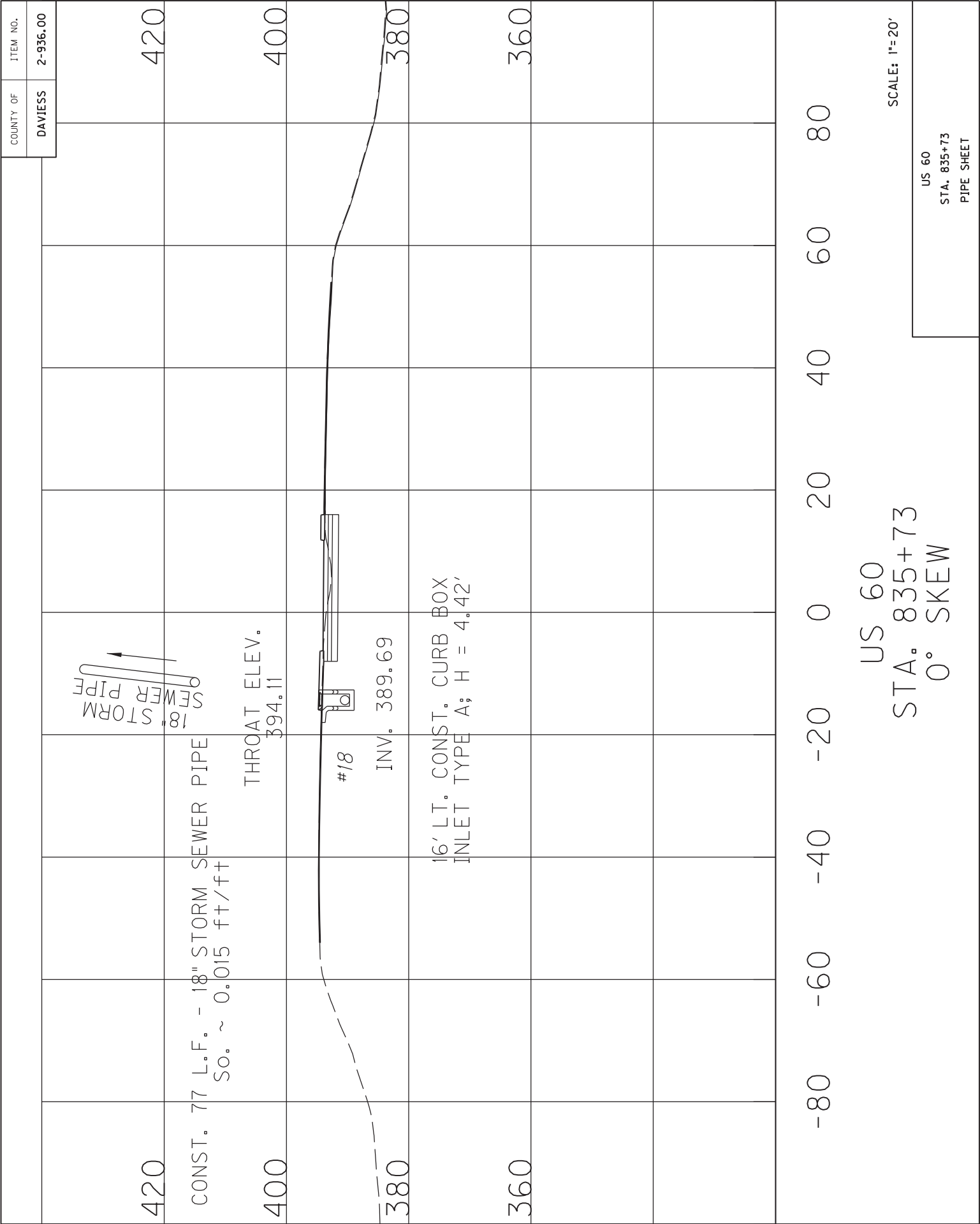


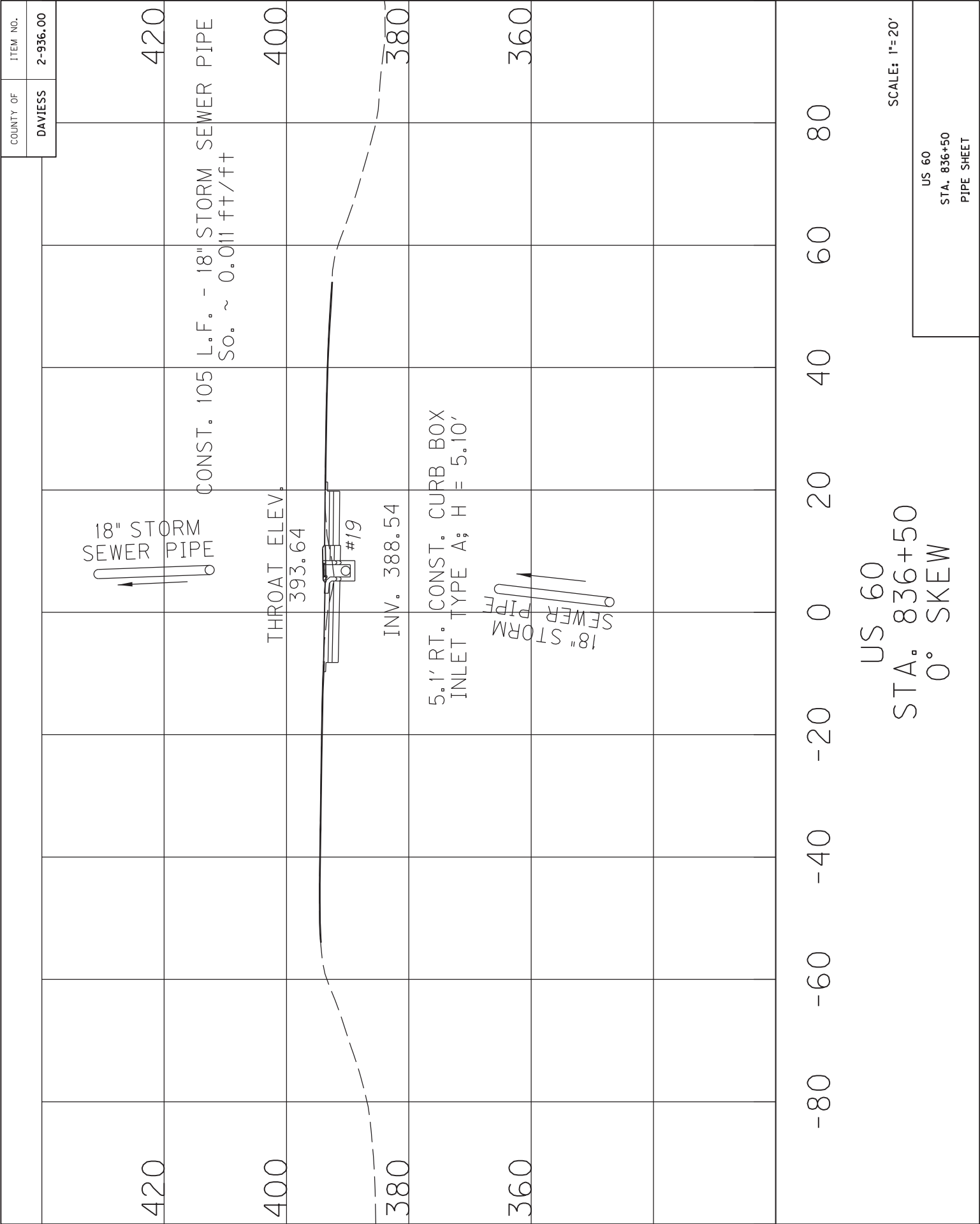


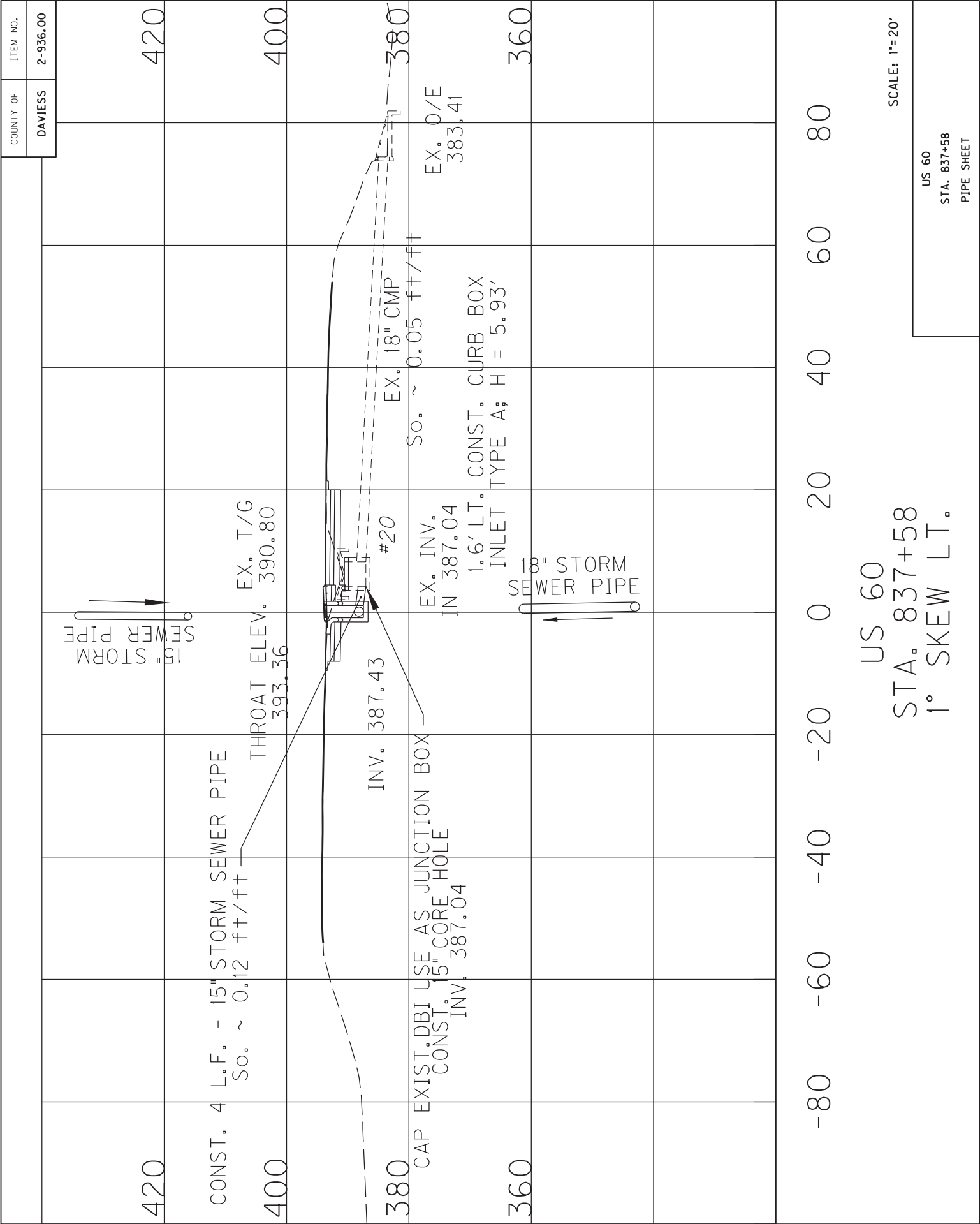


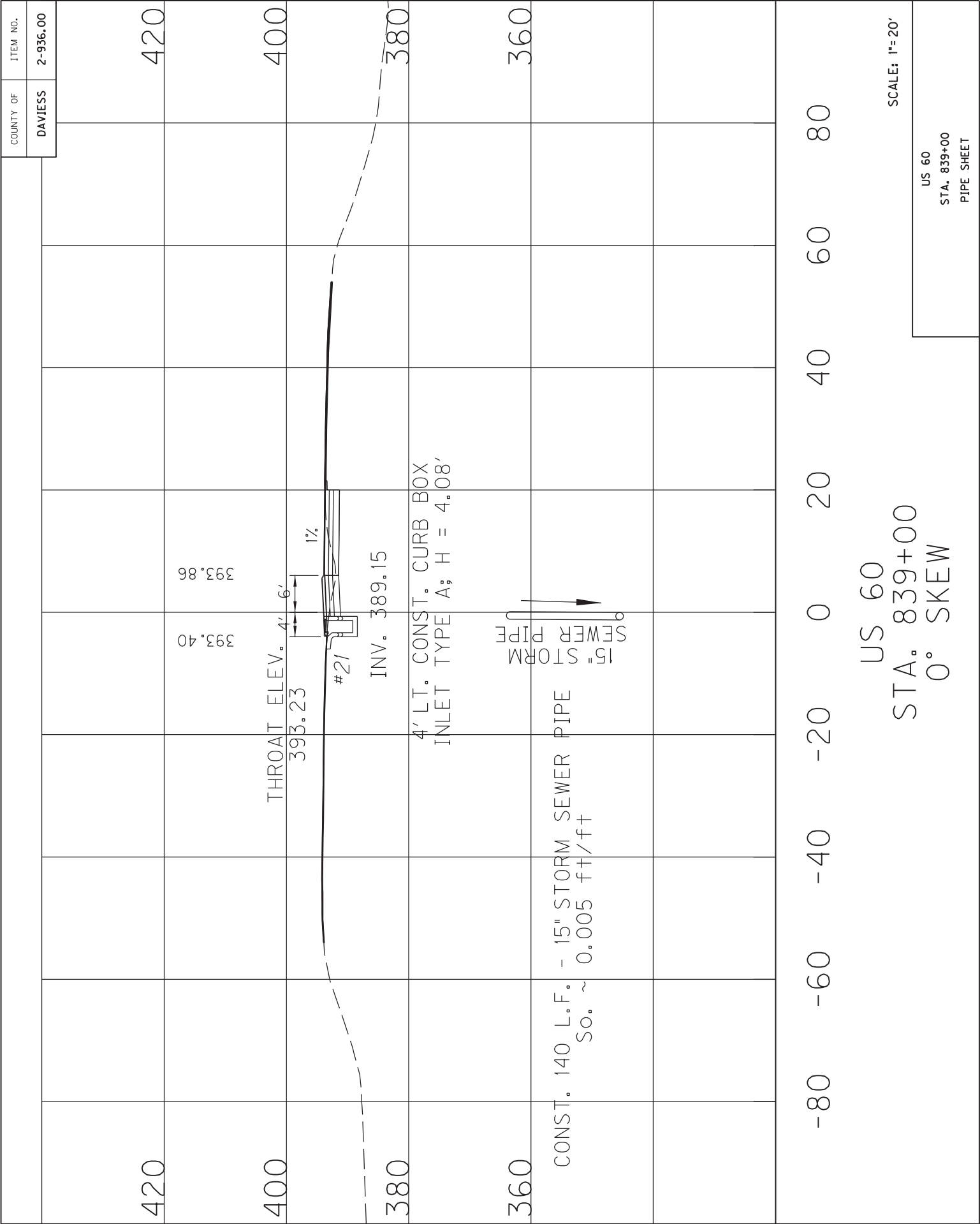


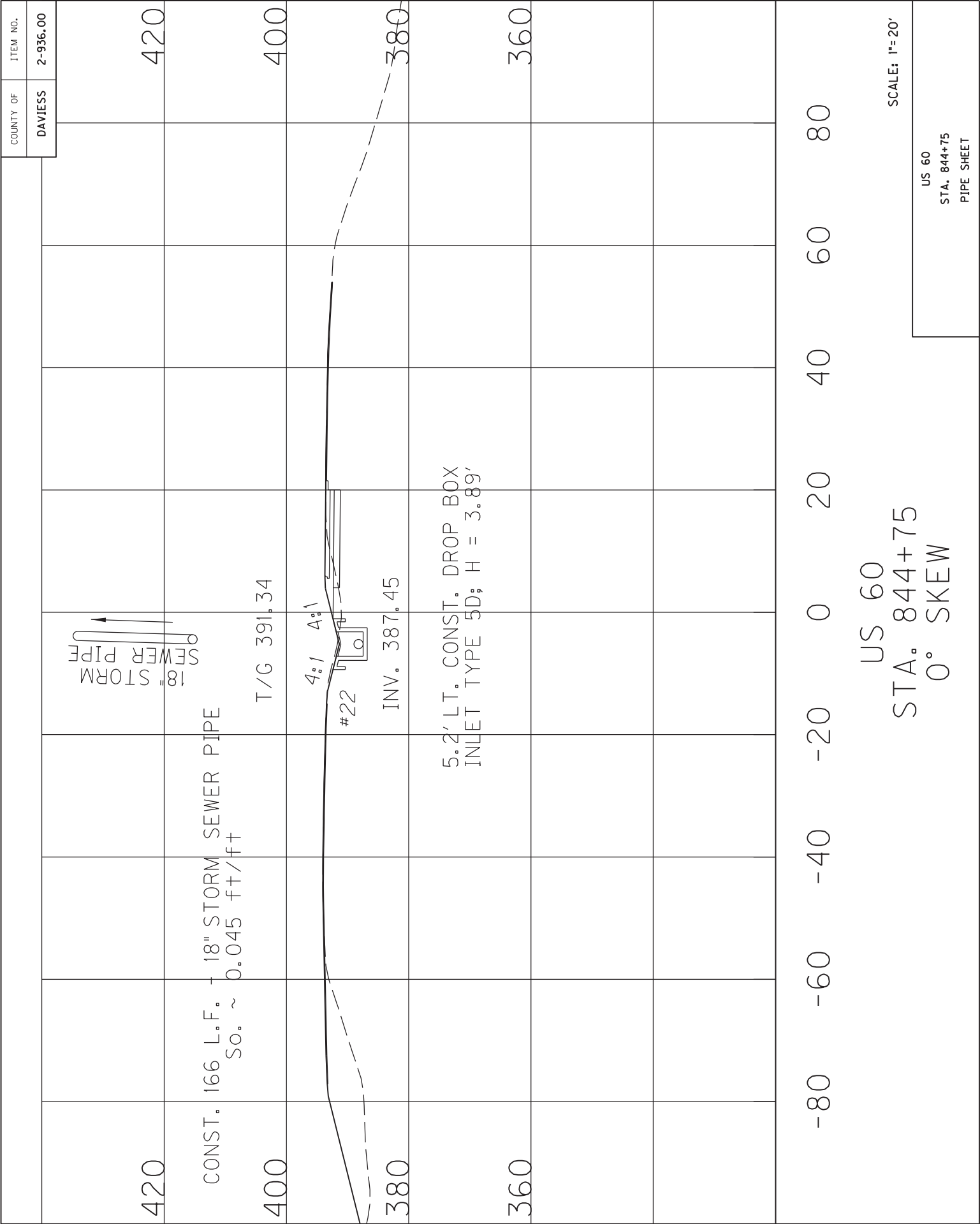


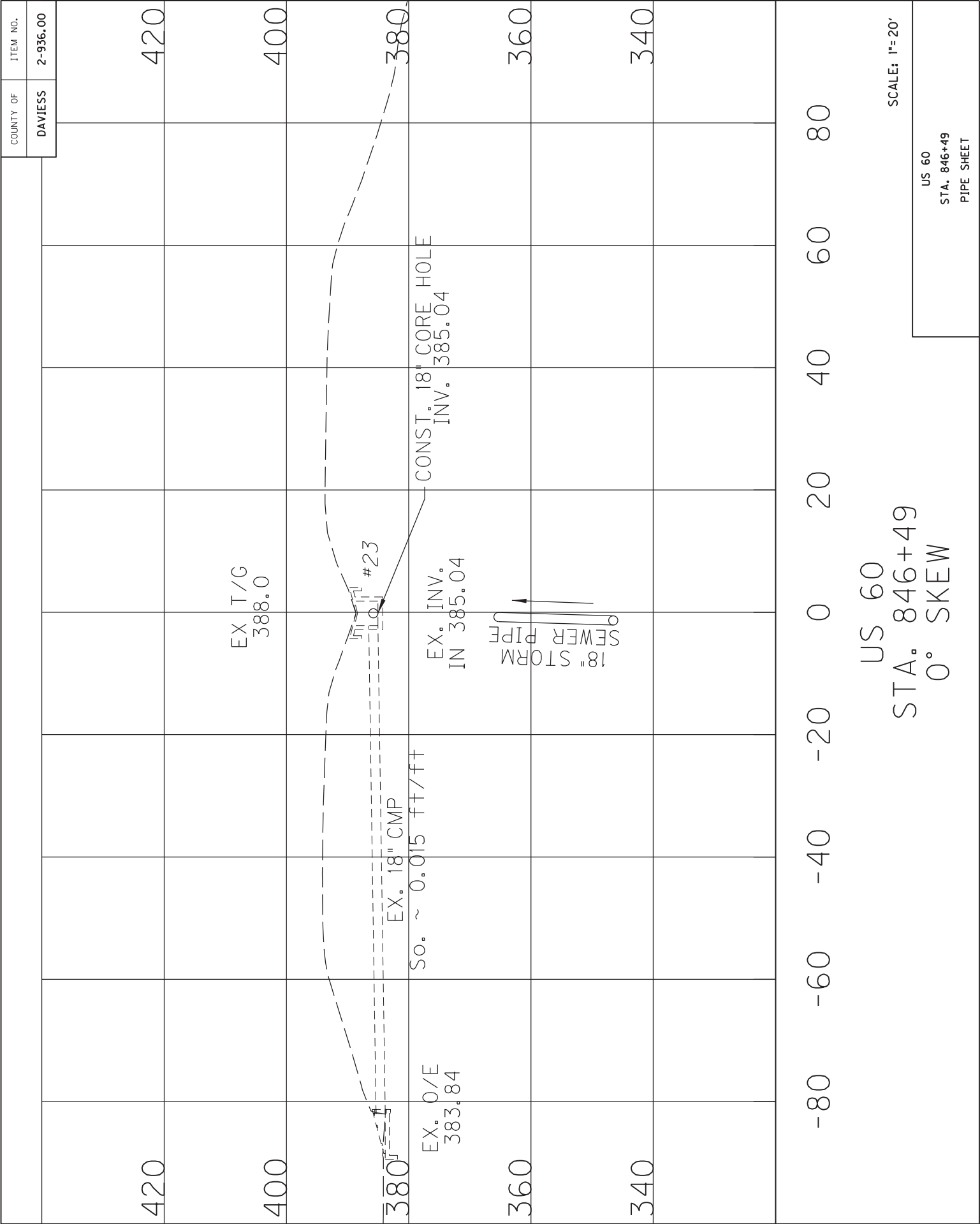




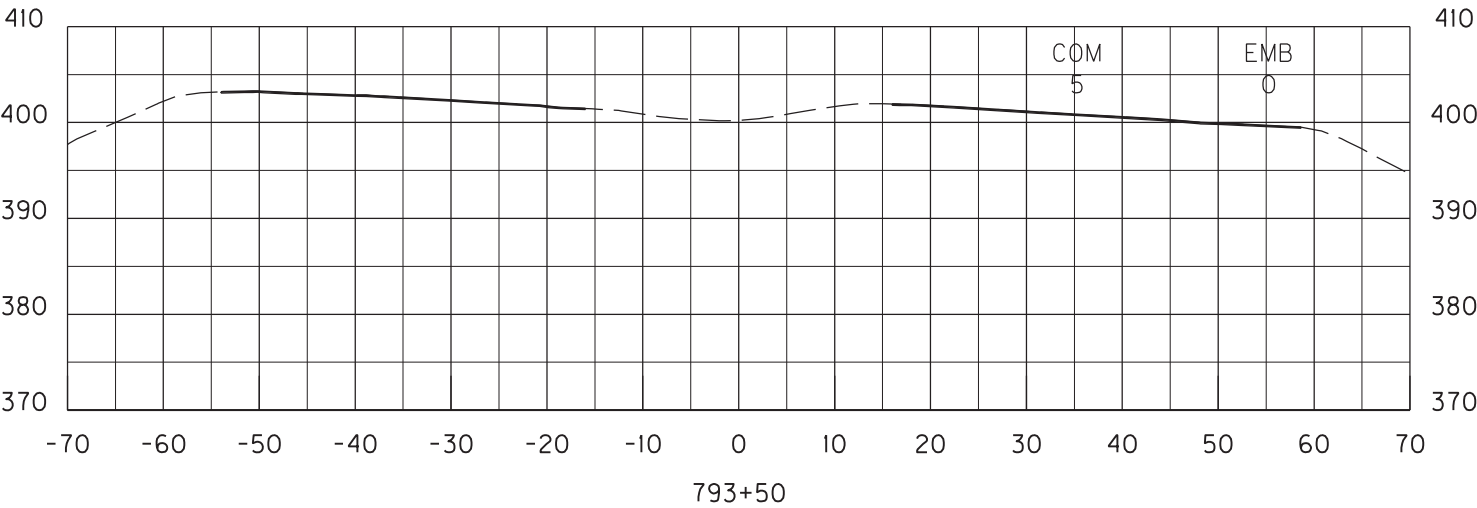
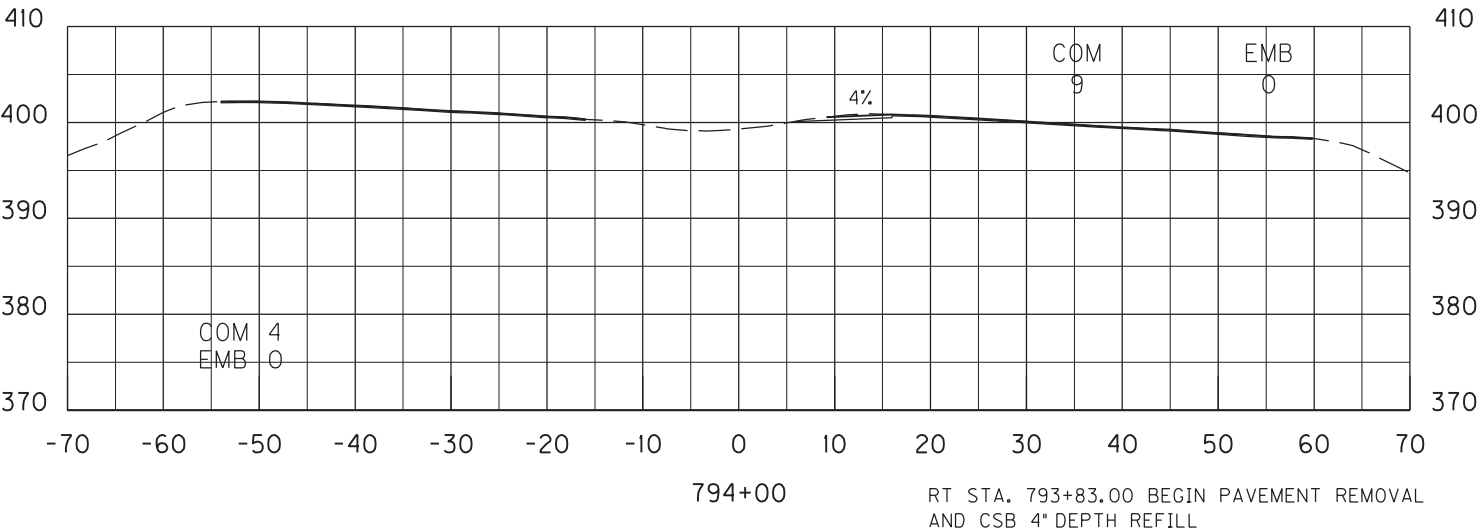
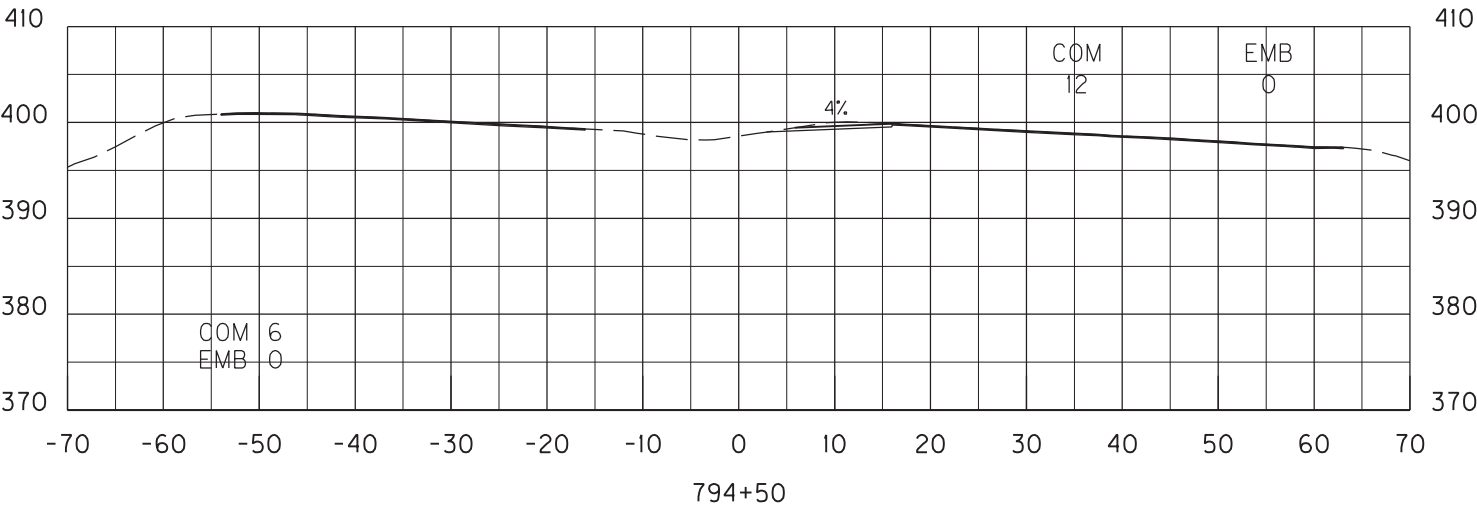








COUNTY OF	ITEM NO.
DAVIESS	2-936.00

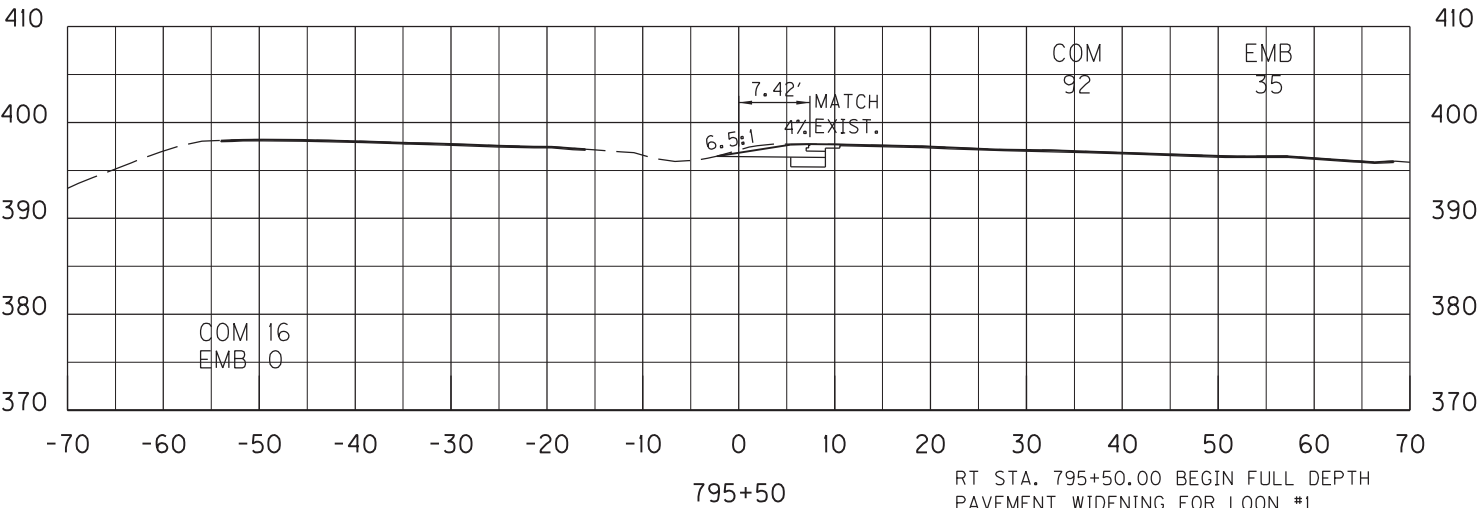
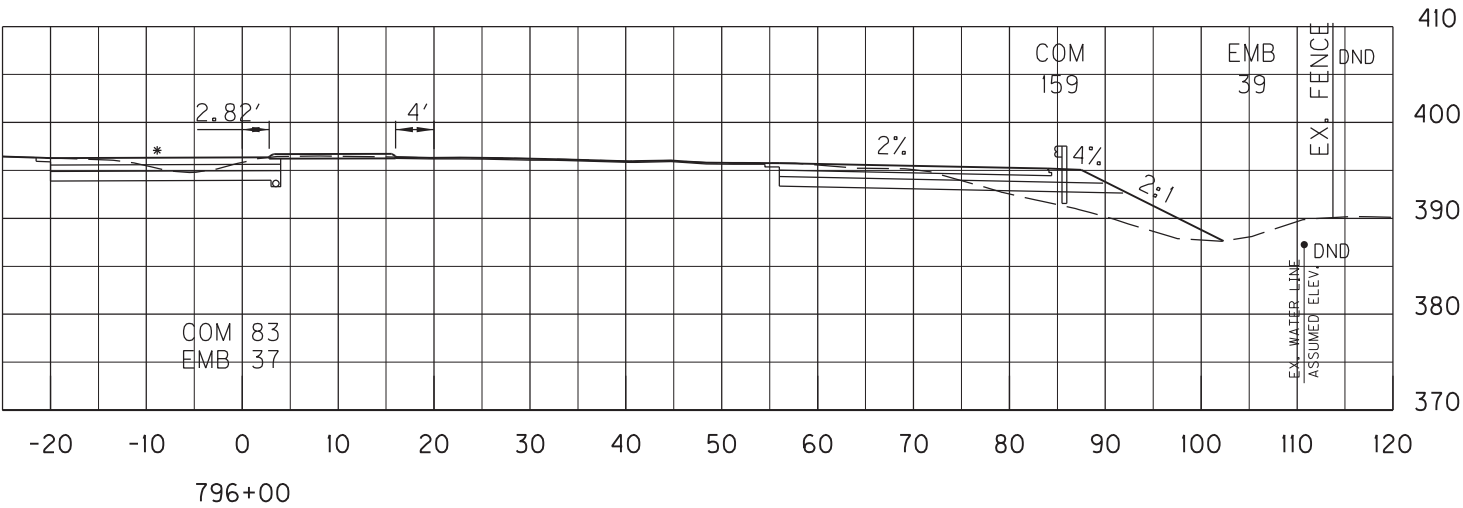


LT AND RT US 60 MP 23.28 AT BRIDGE ENDS BEGIN
1.5" ASPHALT MILLING AND OVERLAY PAVEMENT
SCALE: 1"= 20'

US 60 AT HAWES BLVD
STA. 793+50 TO STA. 794+50
CROSS SECTIONS

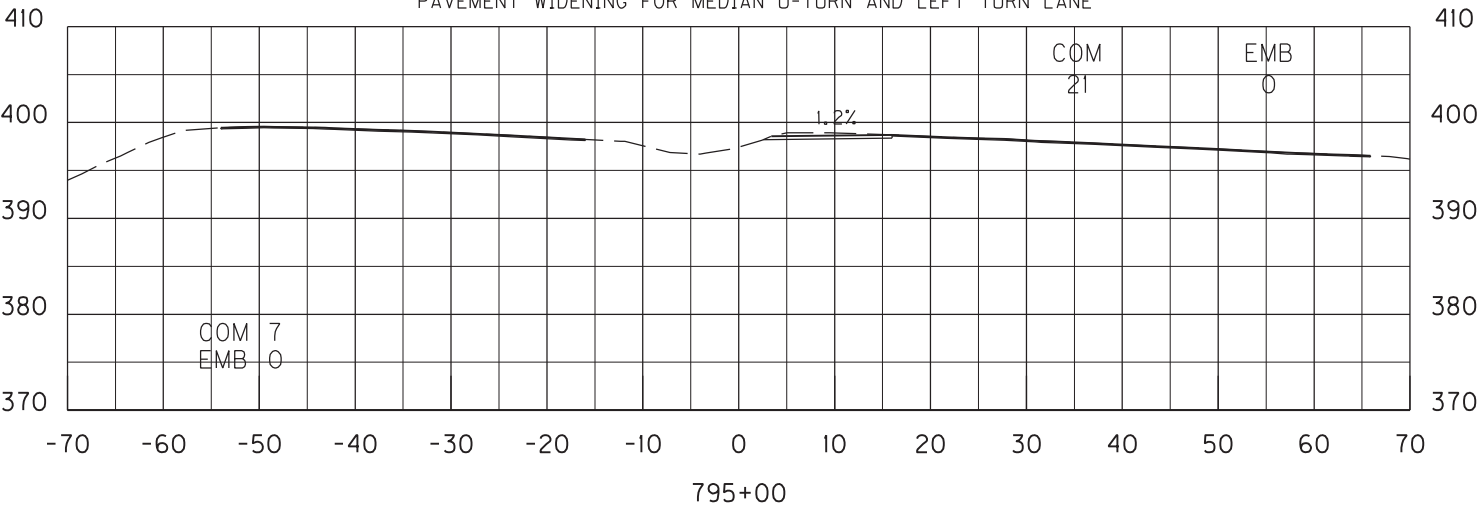
COUNTY OF	ITEM NO.
DAVISS	2-936.00

•SEE PAVEMENT DEVELOPMENT SHEET



RT STA. 795+50.00 BEGIN FULL DEPTH
PAVEMENT WIDENING FOR LOON #1

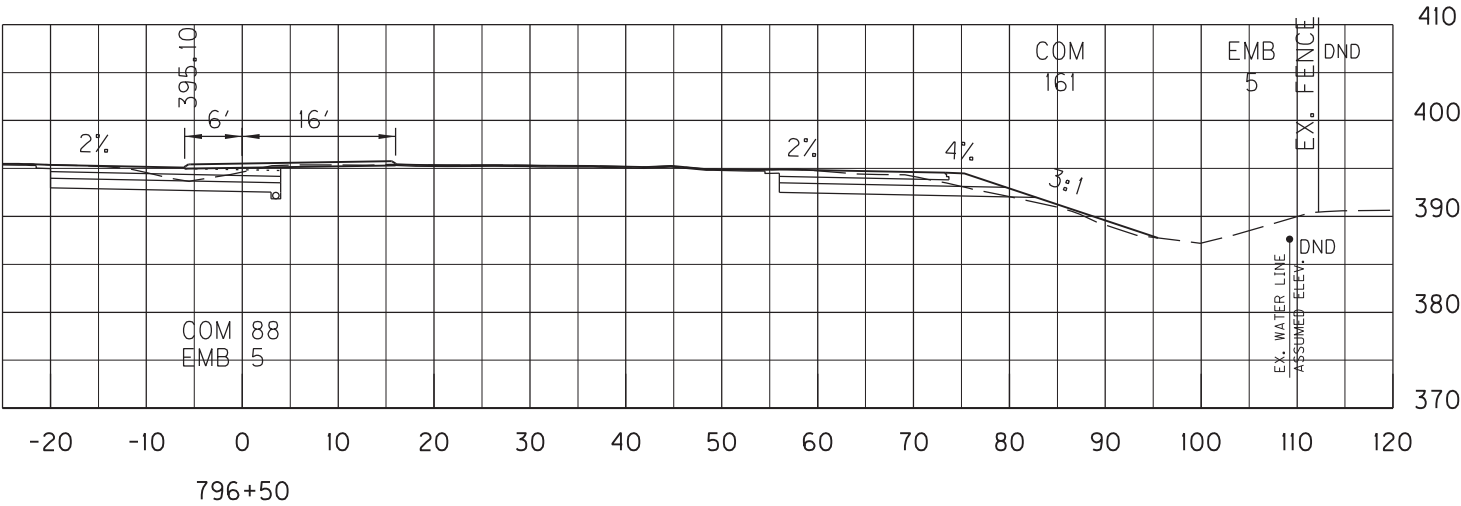
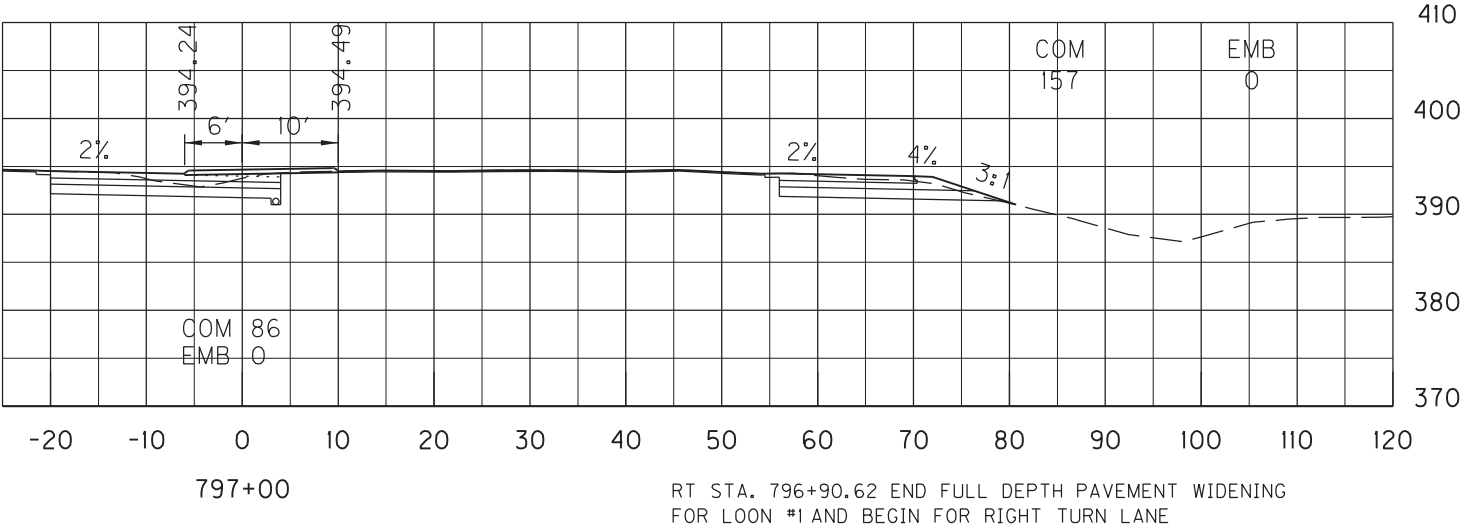
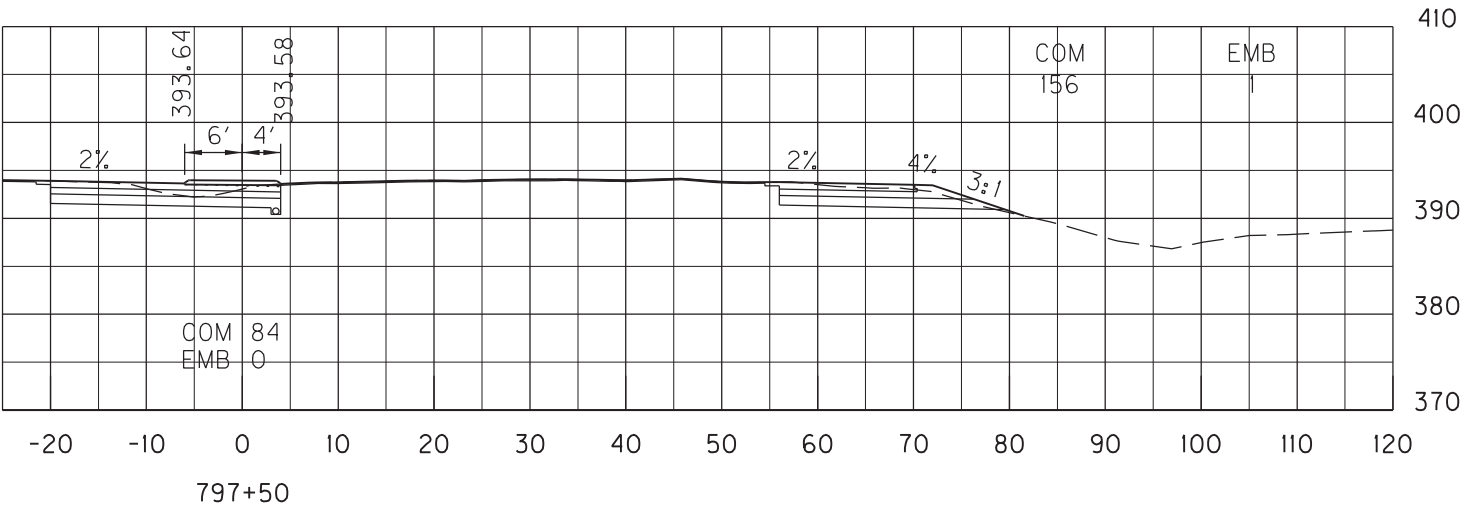
RT STA. 795+49.26 AND LT STA. 795+70.90 BEGIN FULL DEPTH
PAVEMENT WIDENING FOR MEDIAN U-TURN AND LEFT TURN LANE



SCALE: 1"= 20'

US 60 AT HAWES BLVD
STA. 795+00 TO STA. 796+00
CROSS SECTIONS

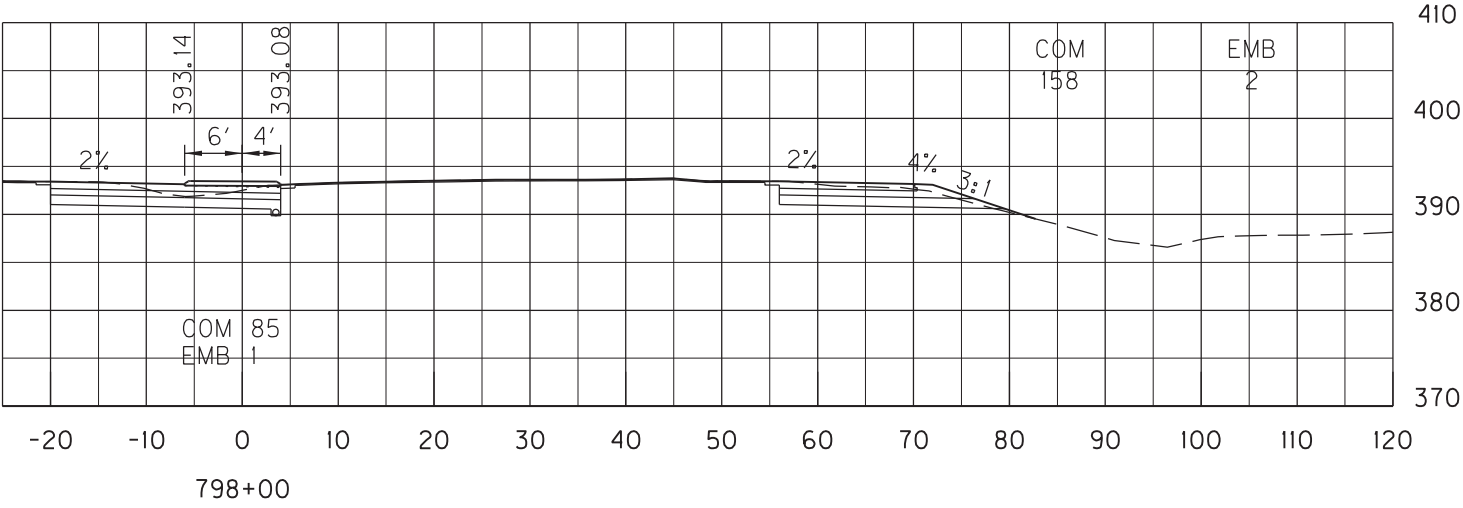
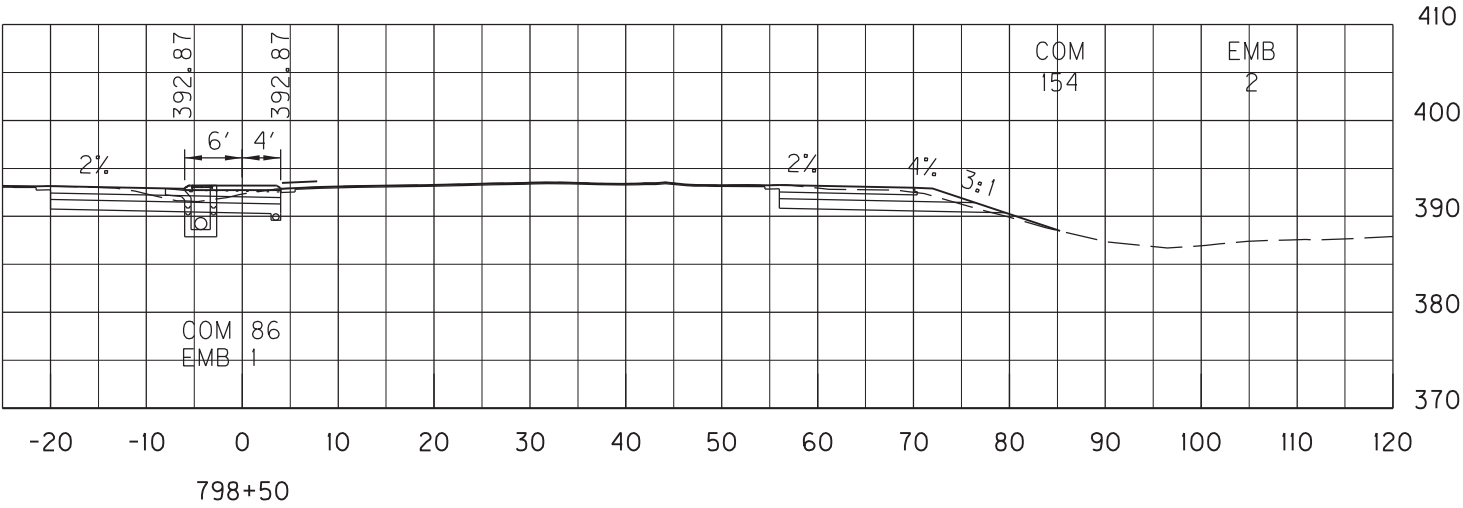
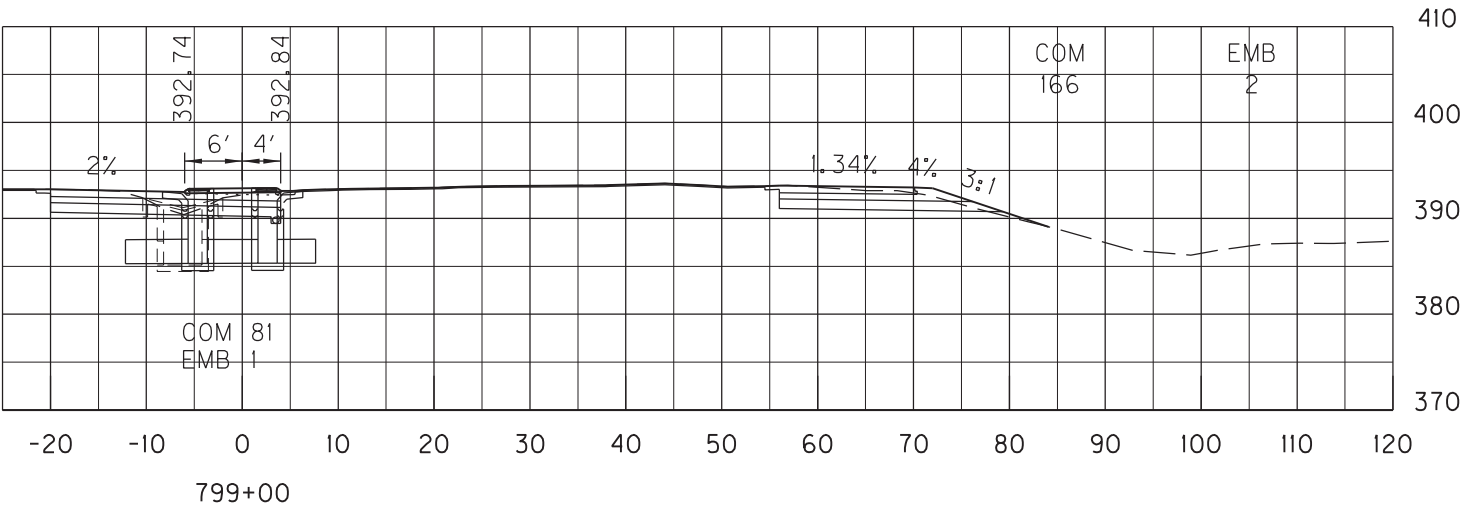
COUNTY OF	ITEM NO.
DAVIESS	2-936.00



US 60 AT HAWES BLVD
STA. 796+50 TO STA. 797+50
CROSS SECTIONS

SCALE: 1"=20'

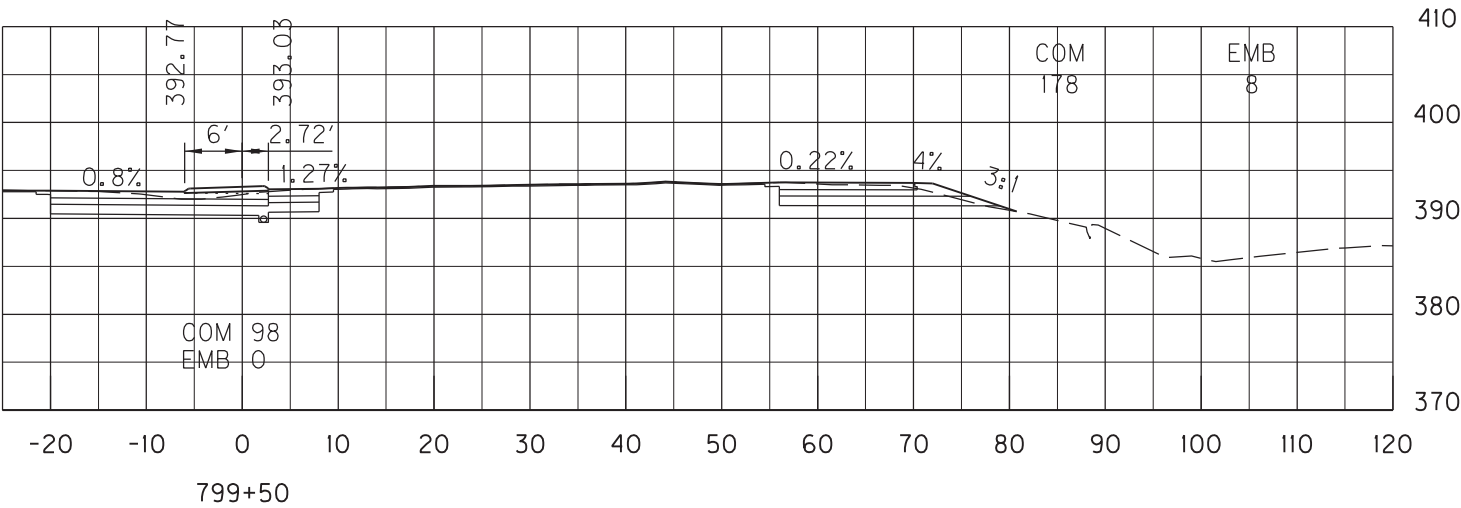
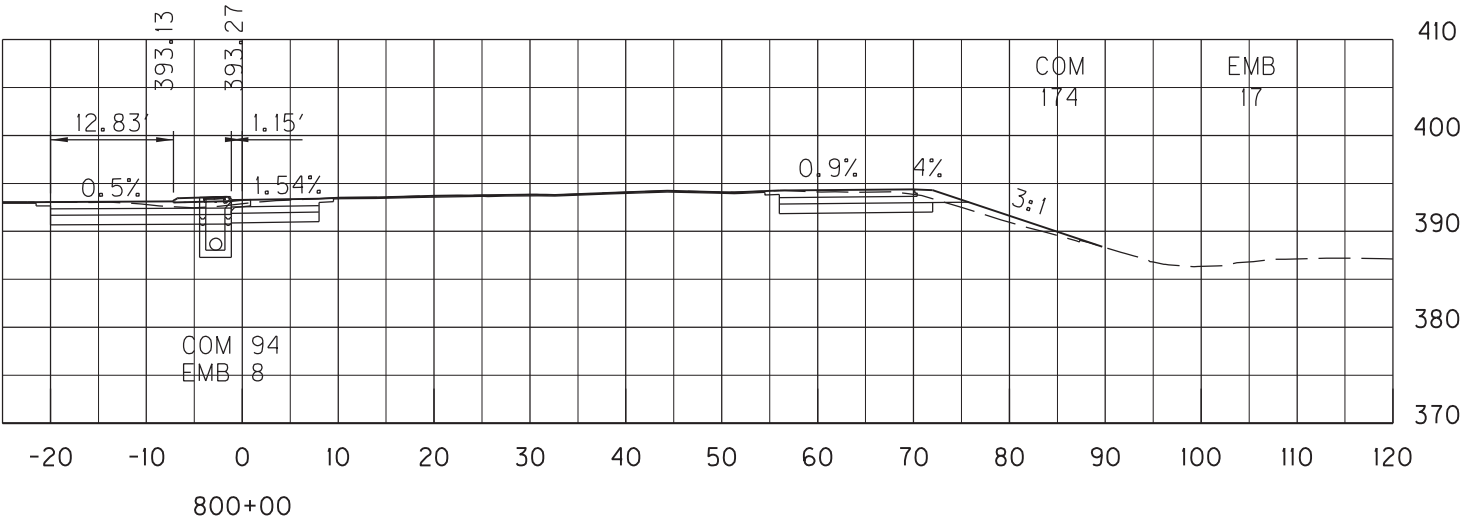
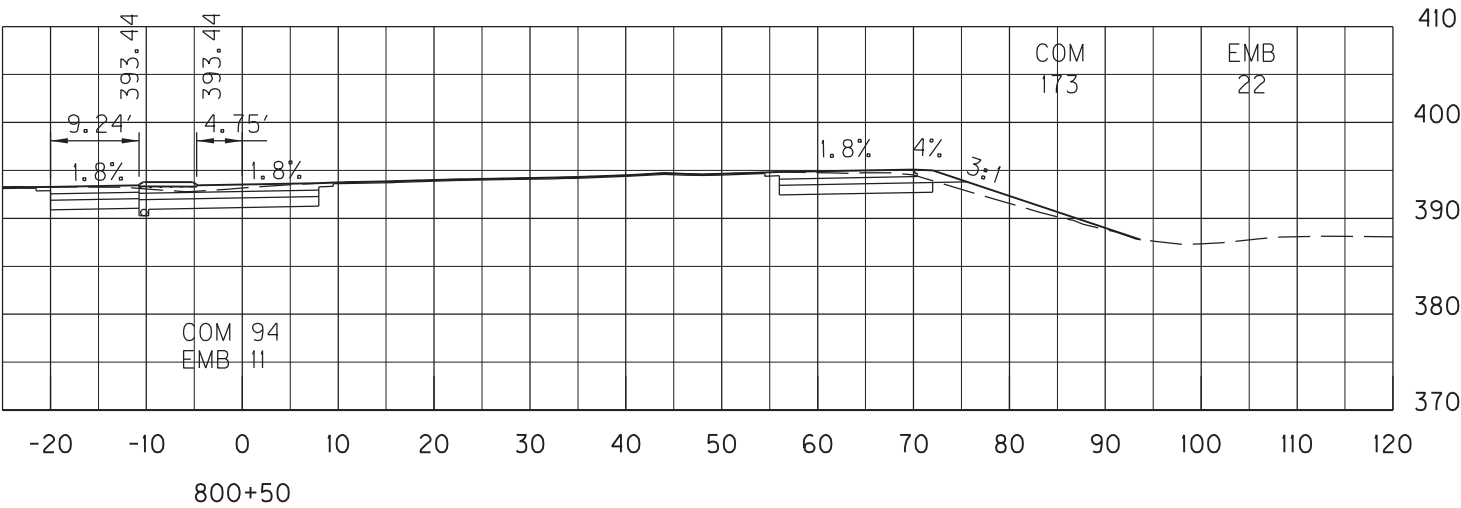
COUNTY OF	ITEM NO.
DAVIESS	2-936.00



US 60 AT HAWES BLVD
STA. 798+00 TO STA. 799+00
CROSS SECTIONS

SCALE: 1"= 20'

COUNTY OF	ITEM NO.
DAVIESS	2-936.00

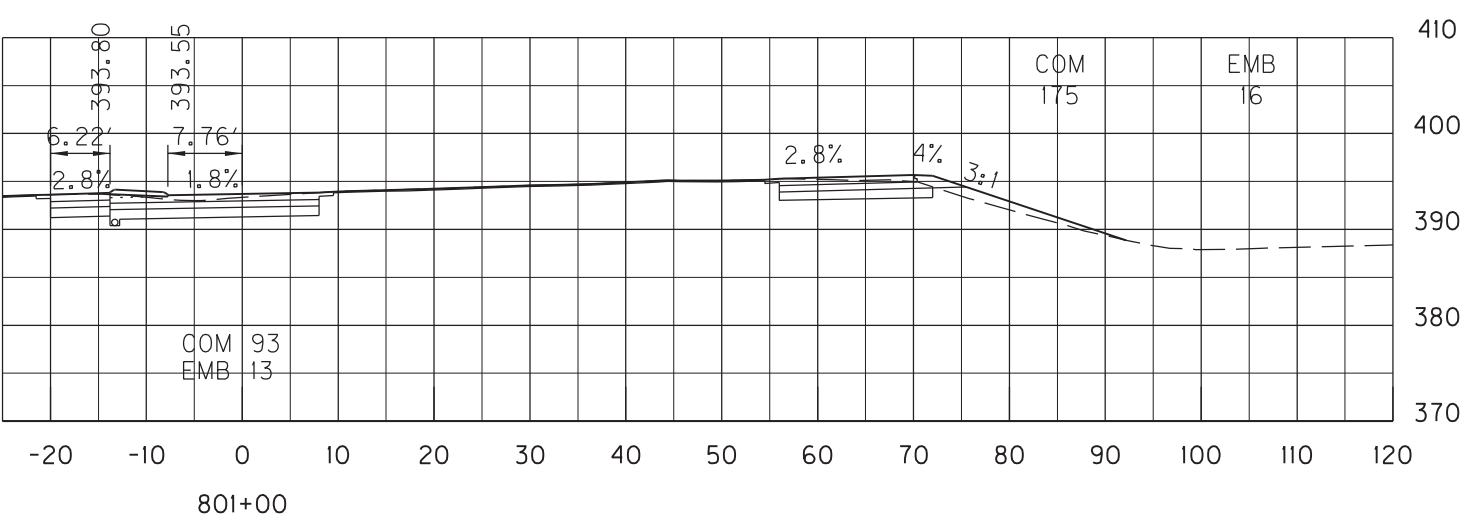
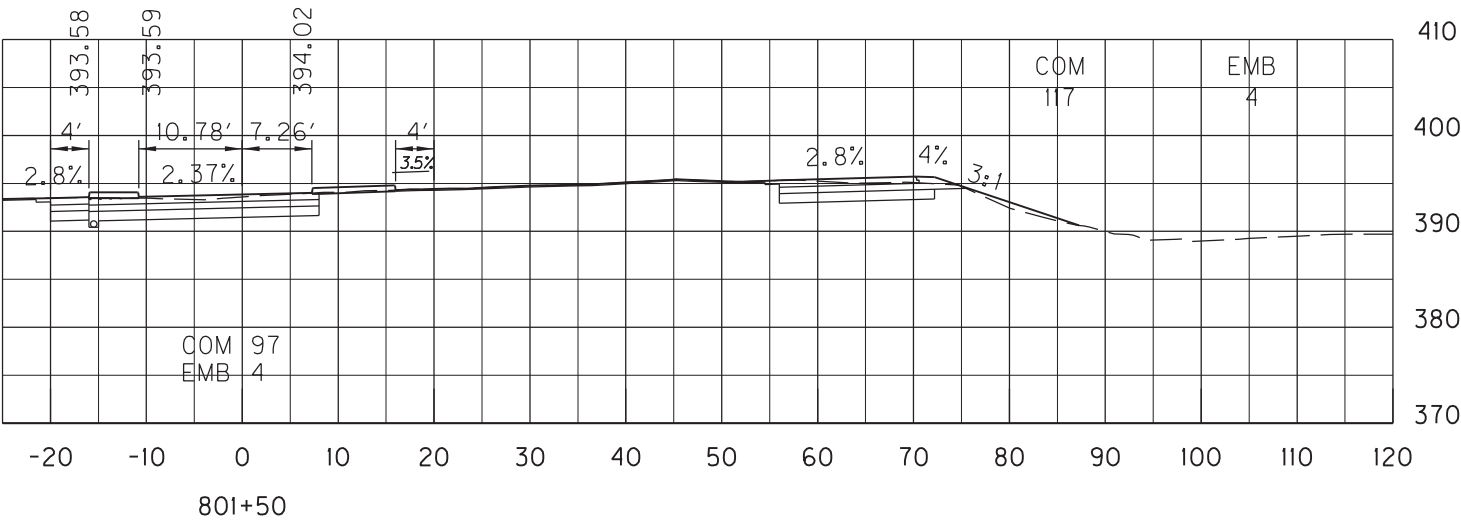
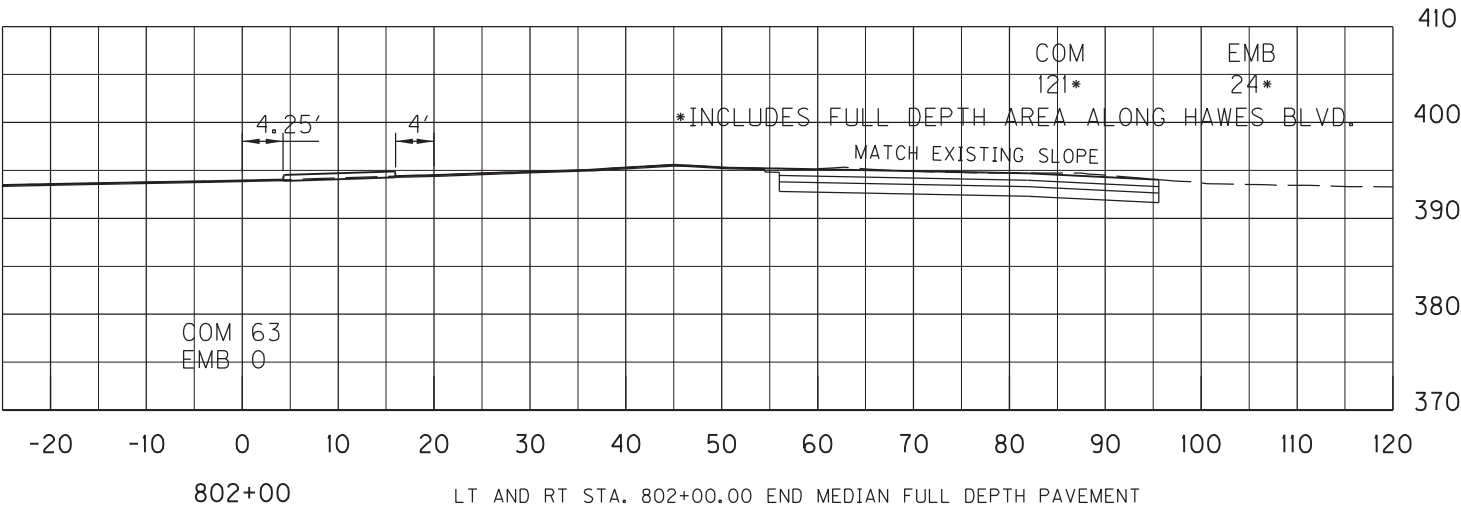


US 60 AT HAWES BLVD
STA. 799+50 TO STA. 800+50
CROSS SECTIONS

SCALE: 1"=20'

COUNTY OF	ITEM NO.
DAVIESS	2-936.00

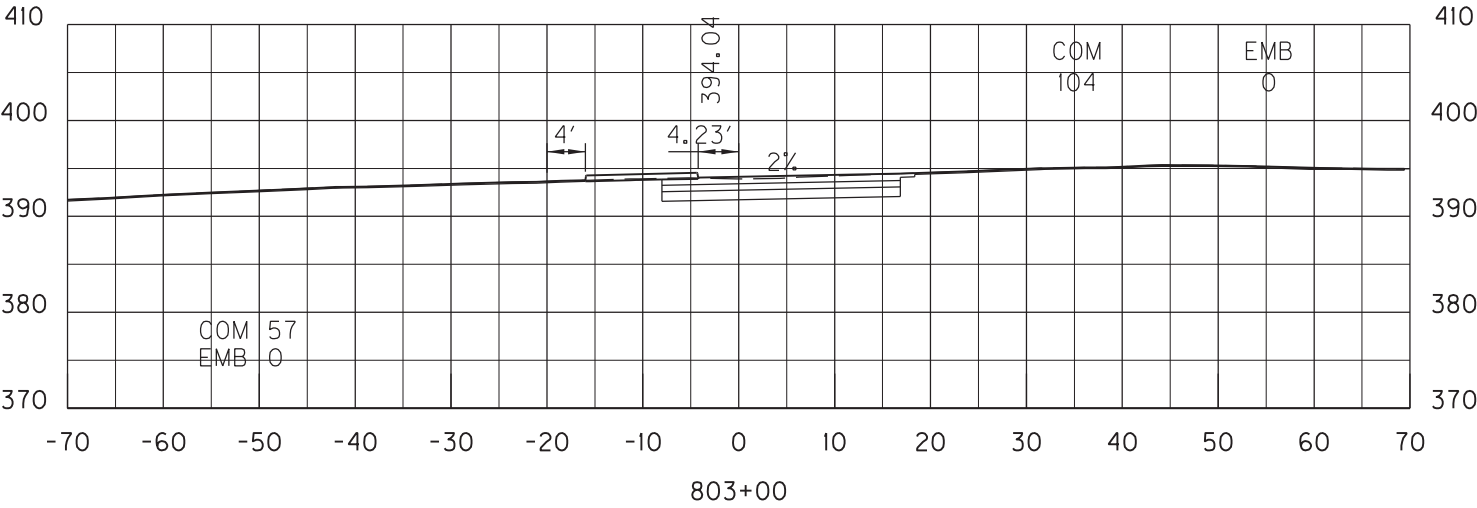
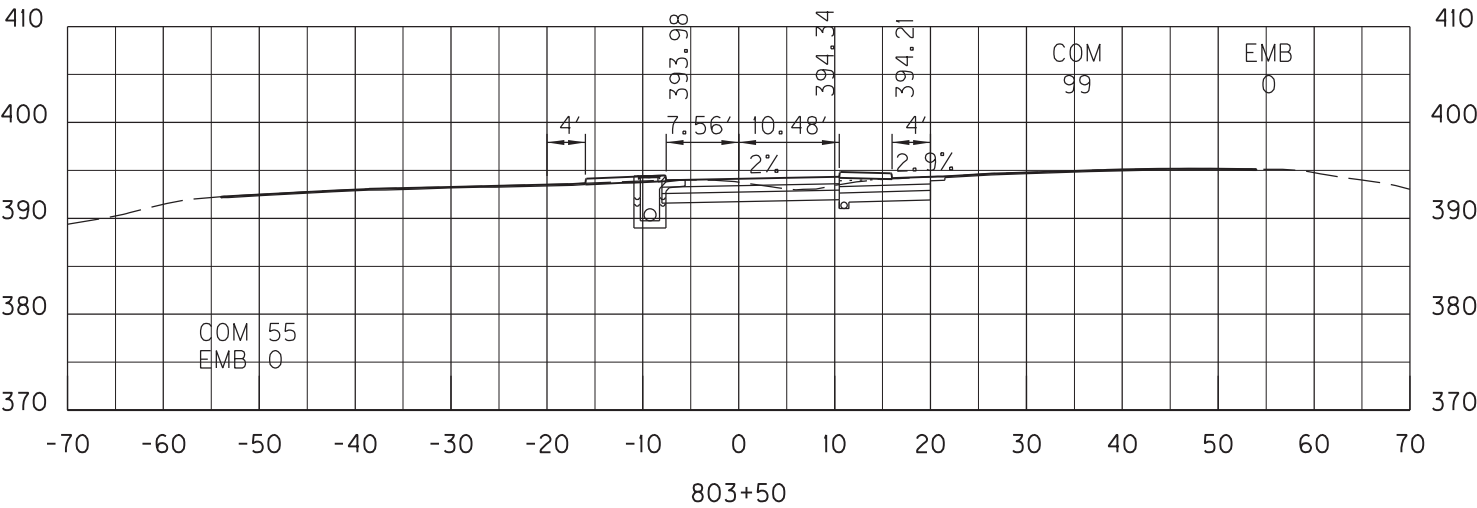
RT HAWES STA. 51+51.21 END FULL DEPTH
PAVEMENT WIDENING FOR RIGHT TURN LANE



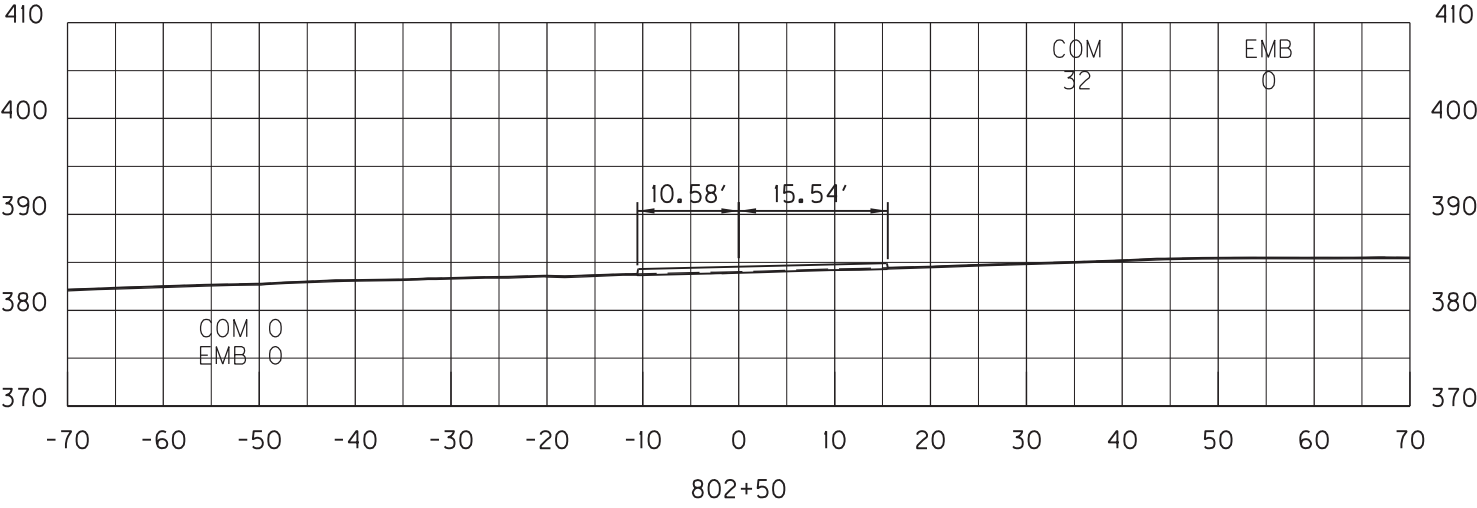
US 60 AT HAWES BLVD
STA. 801+00 TO STA. 802+00
CROSS SECTIONS

SCALE: 1"= 20'

COUNTY OF	ITEM NO.
DAVIESS	2-936.00

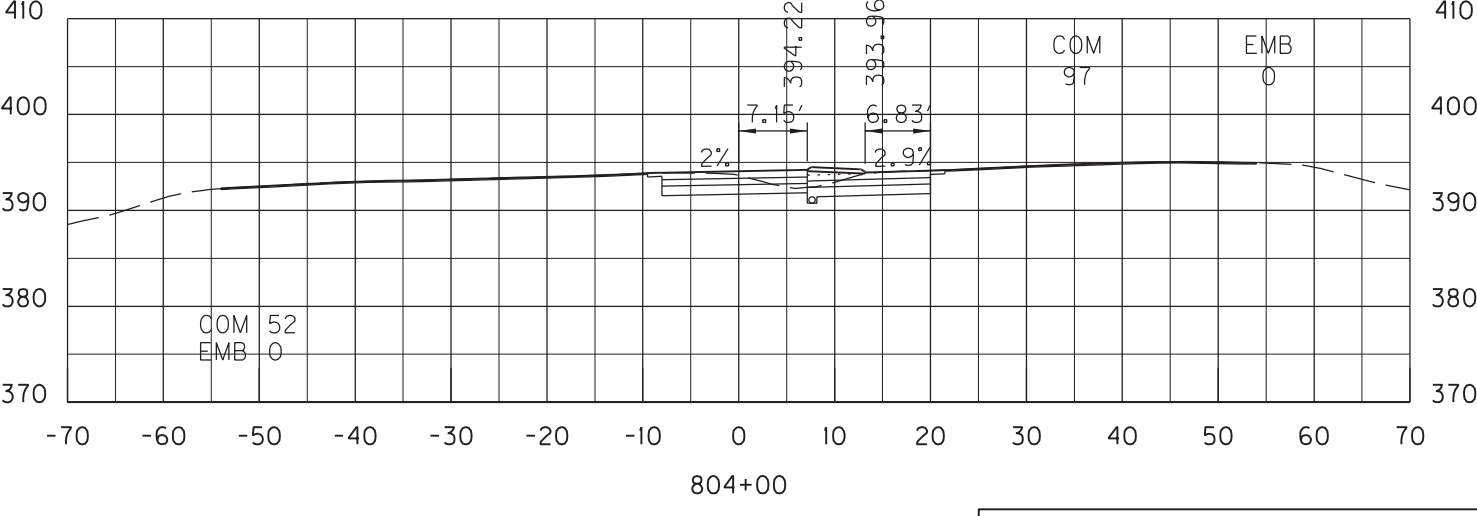
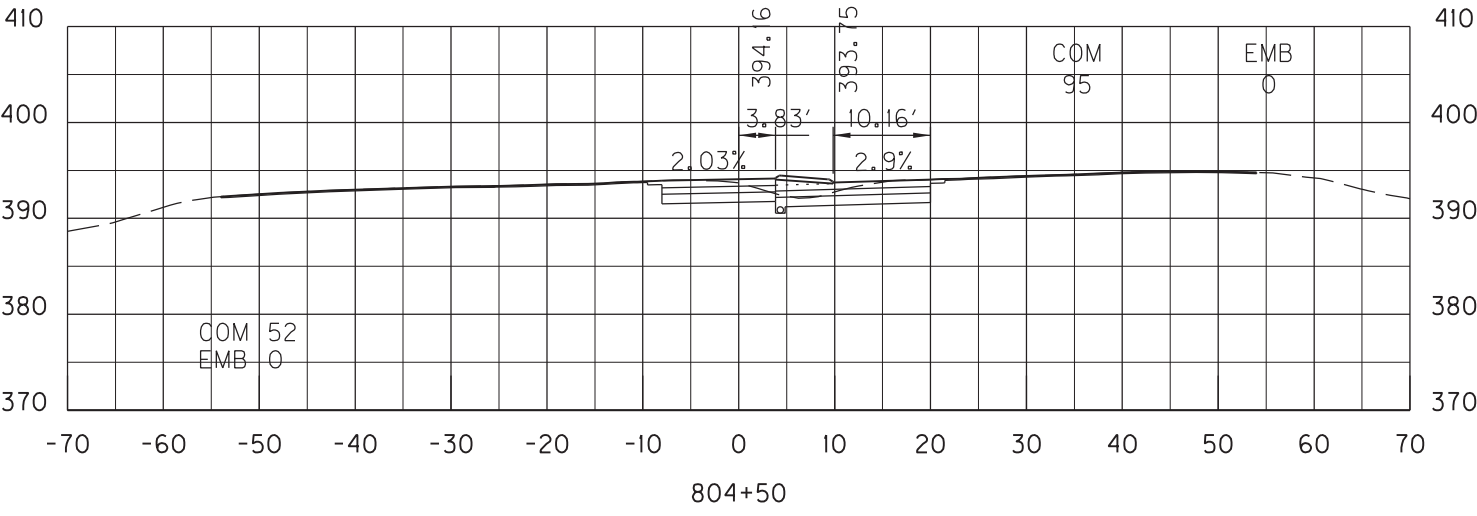
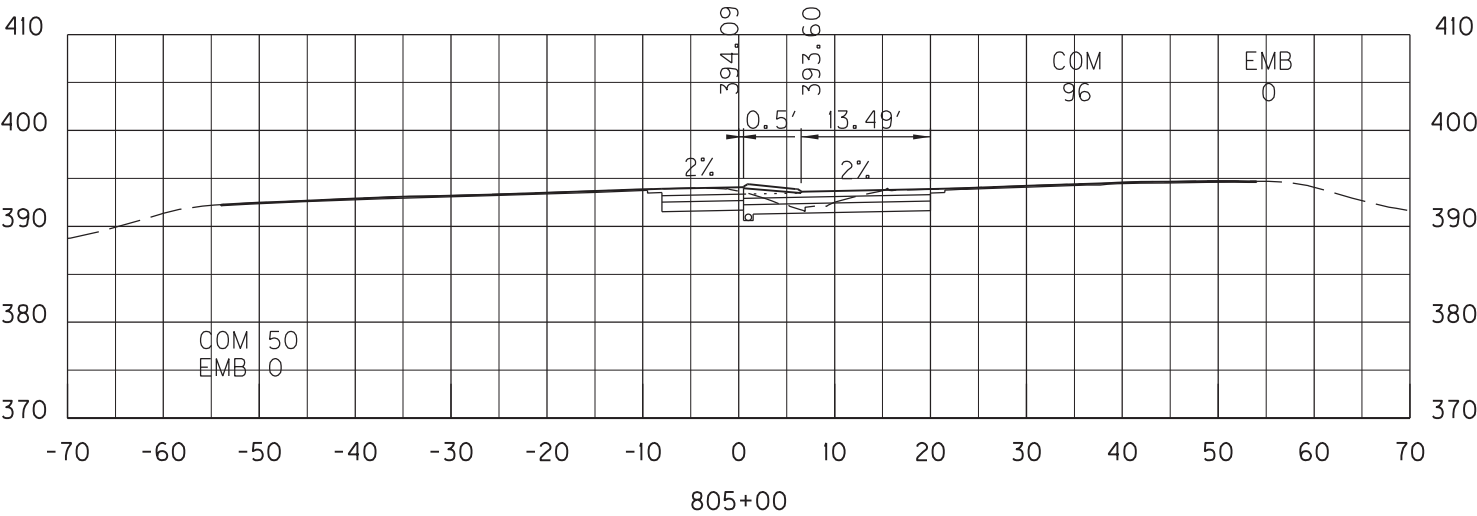


LT AND RT STA. 802+85.00 BEGIN MEDIAN FULL
DEPTH PAVEMENT FOR LEFT TURN LANE AND RCUT



US 60 AT HAWES BLVD
STA. 802+50 TO STA. 803+50
CROSS SECTIONS
SCALE: 1"=20'

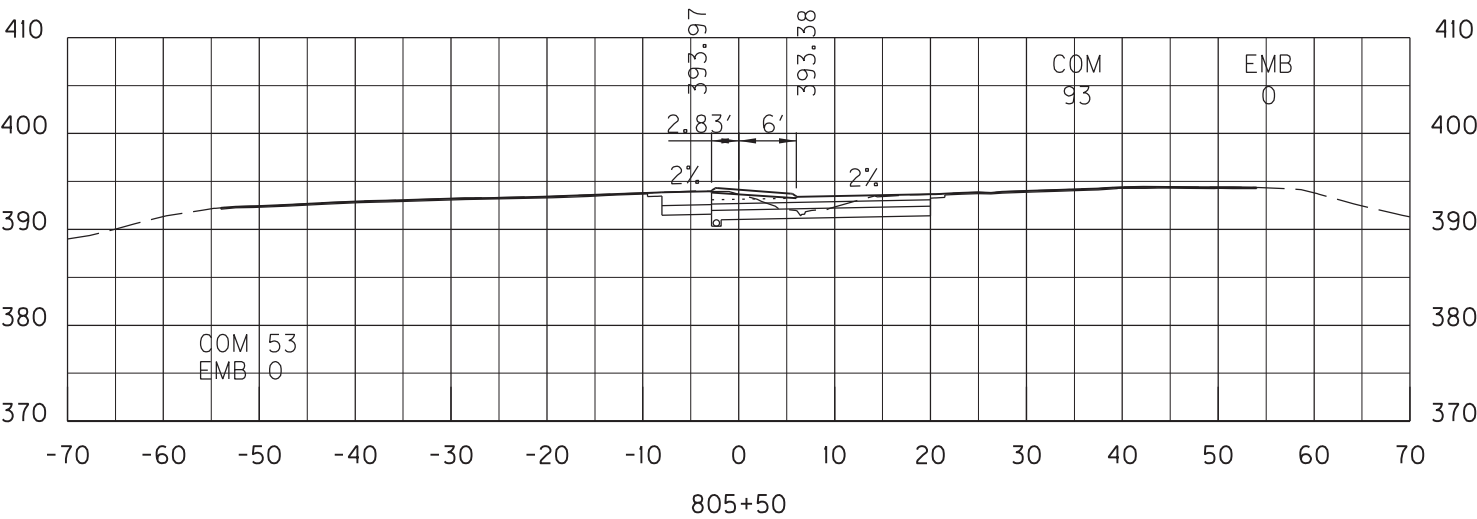
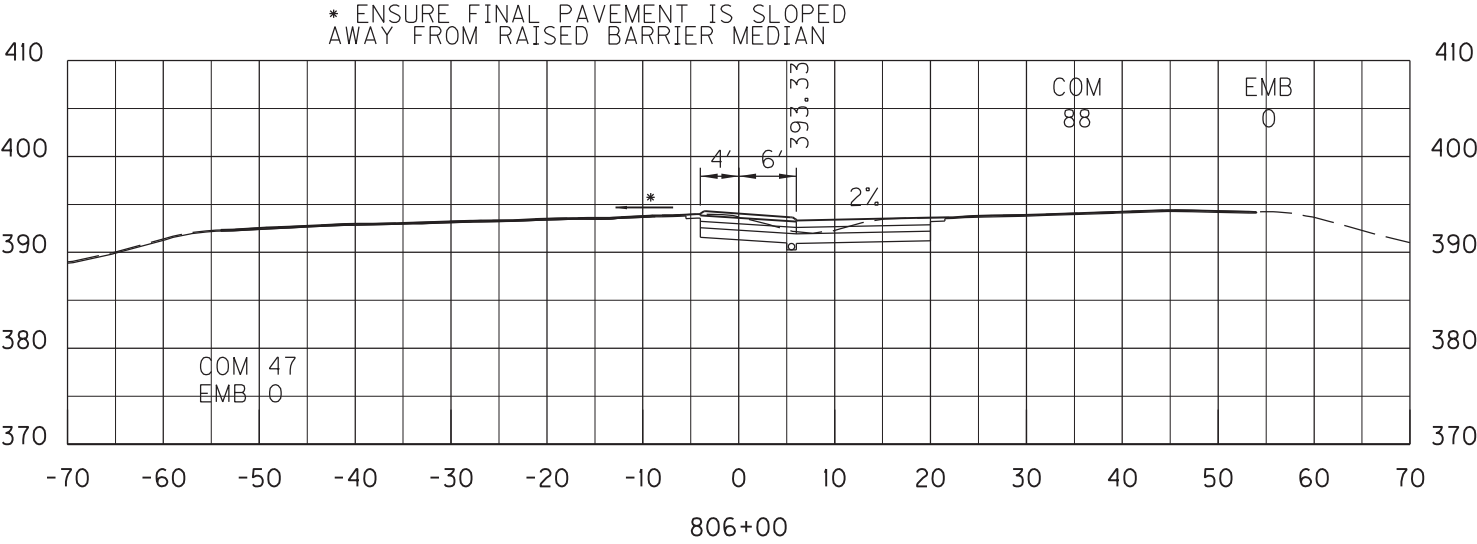
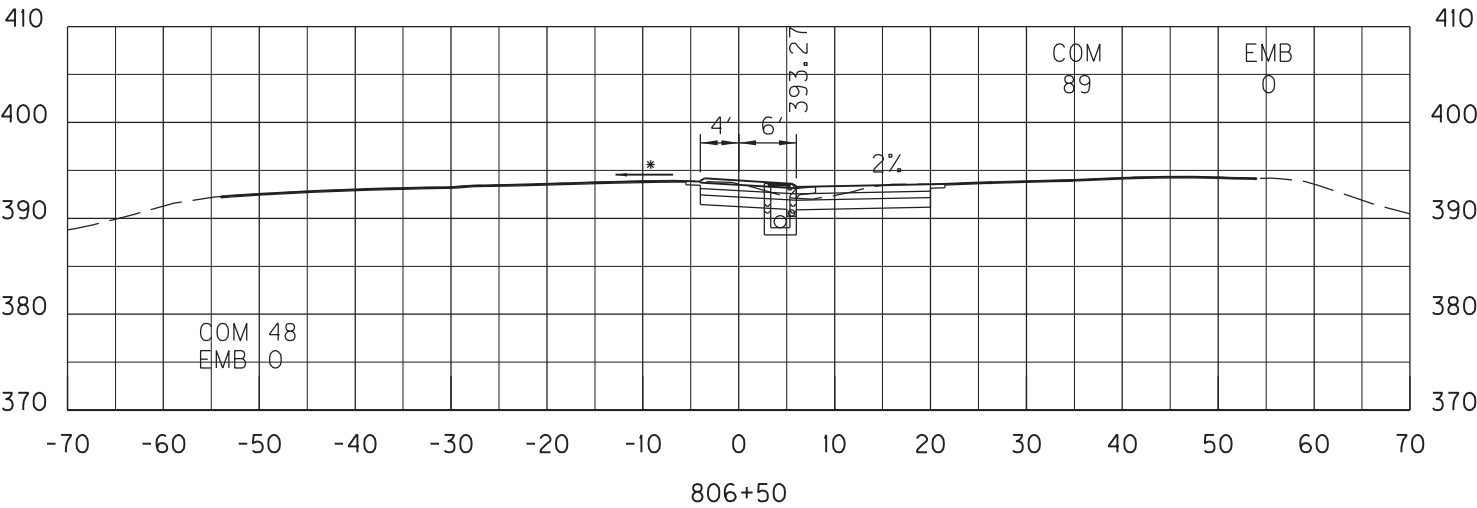
COUNTY OF	ITEM NO.
DAVIESS	2-936.00



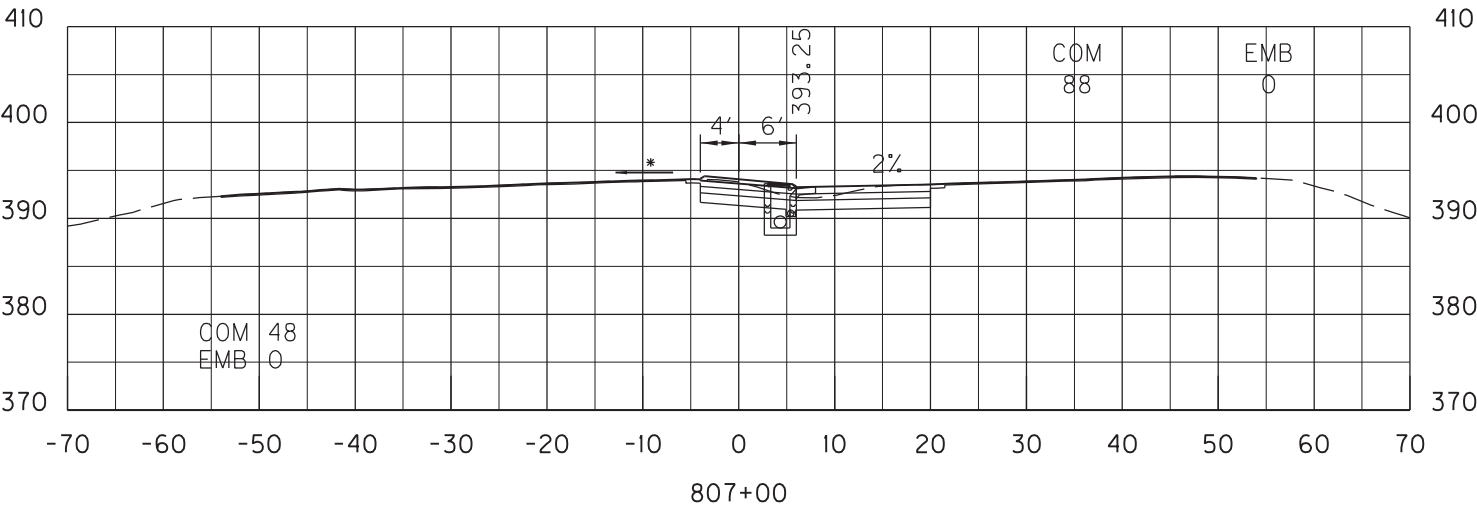
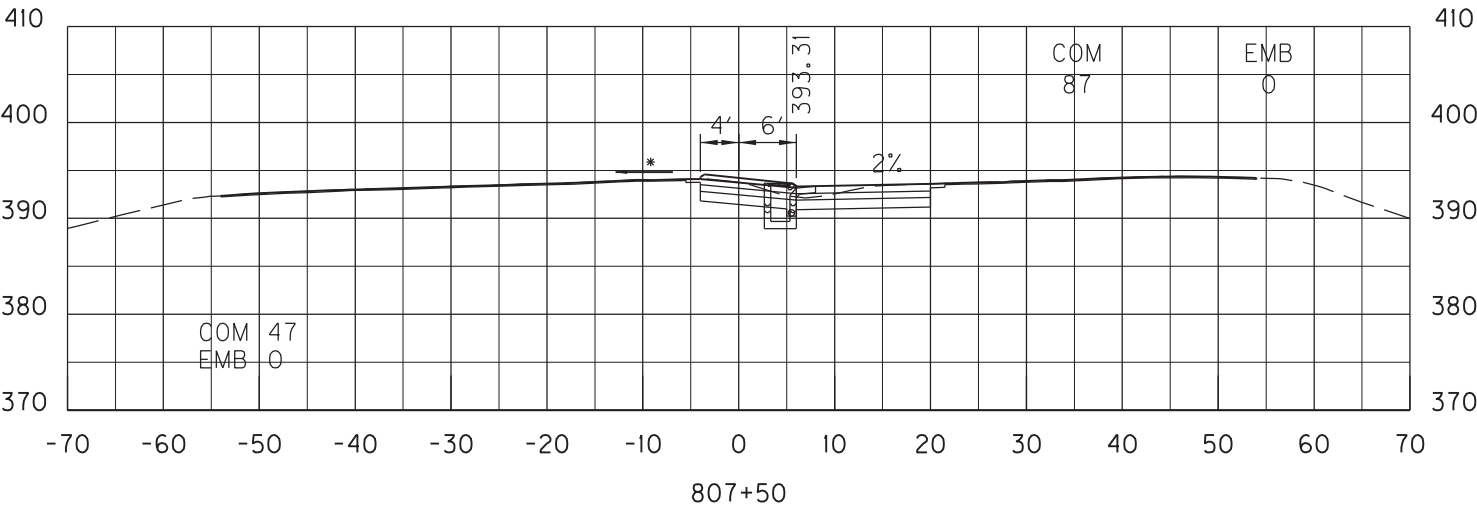
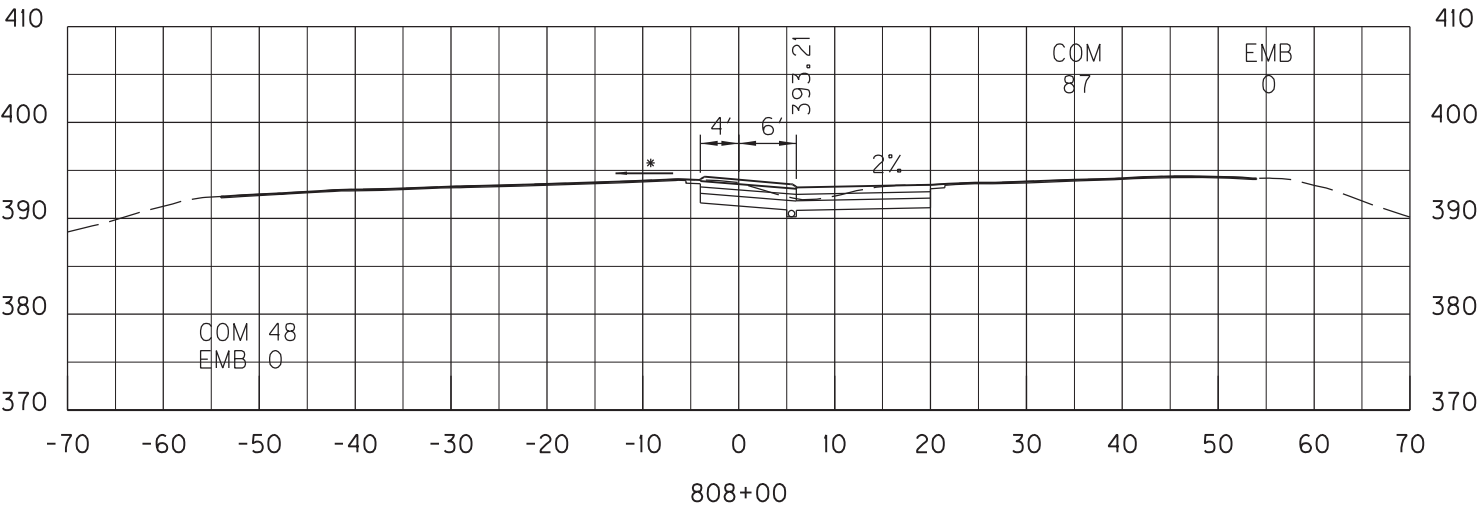
US 60 AT HAWES BLVD
STA. 804+00 TO STA. 805+00
CROSS SECTIONS

SCALE: 1"= 20'

COUNTY OF	ITEM NO.
DAVIESS	2-936.00

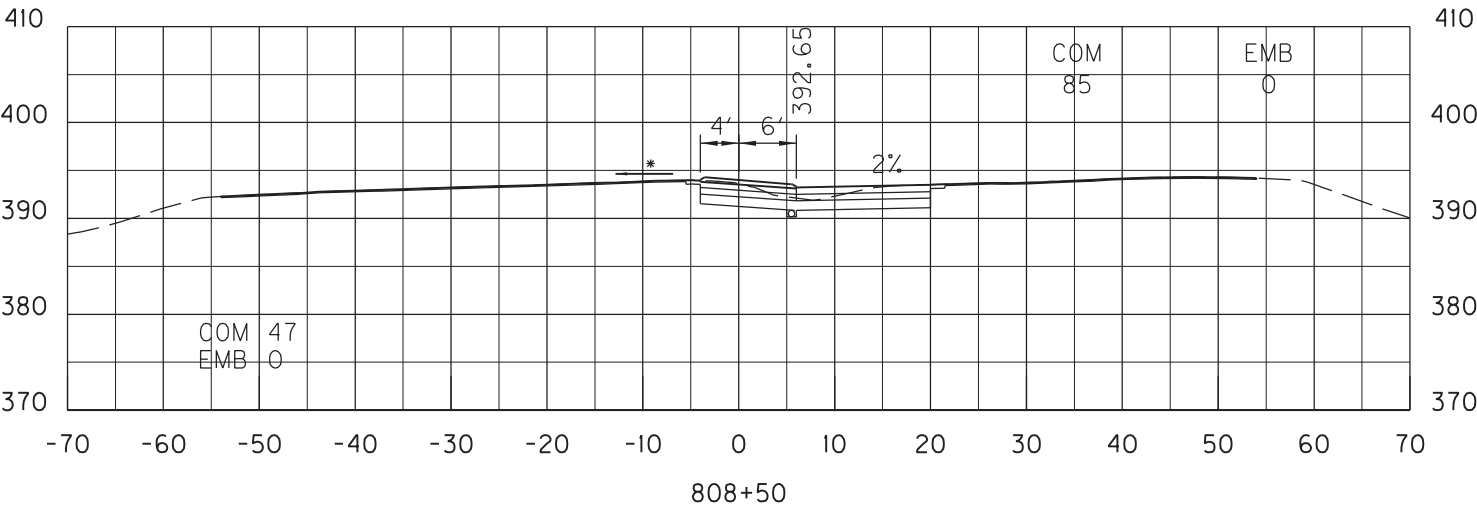
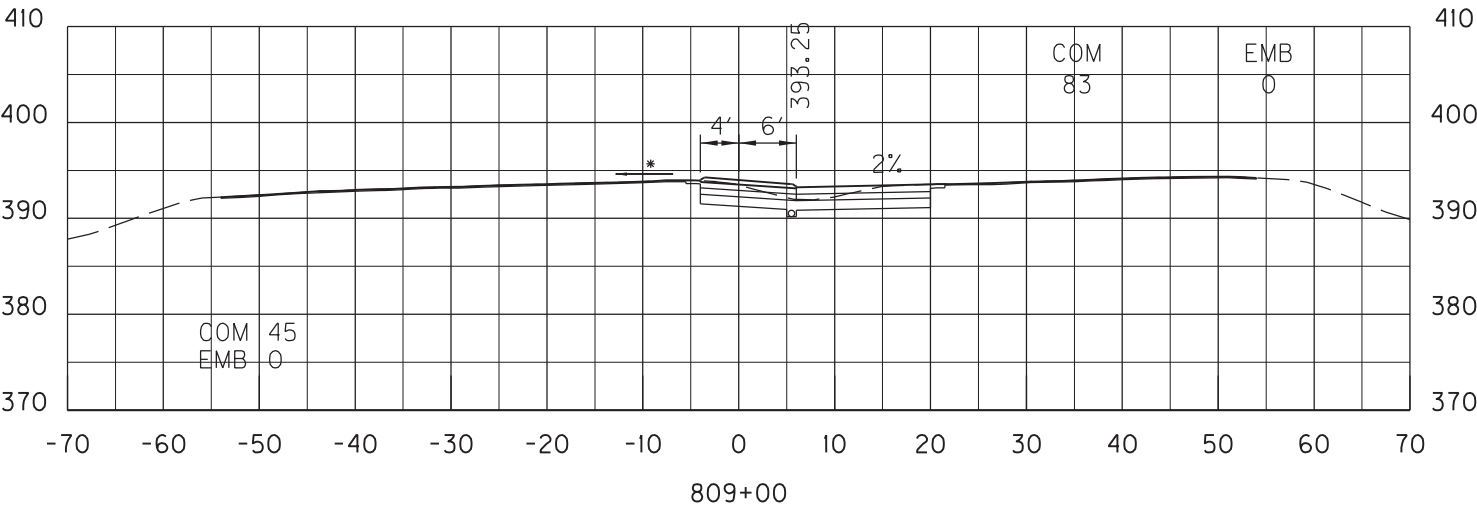
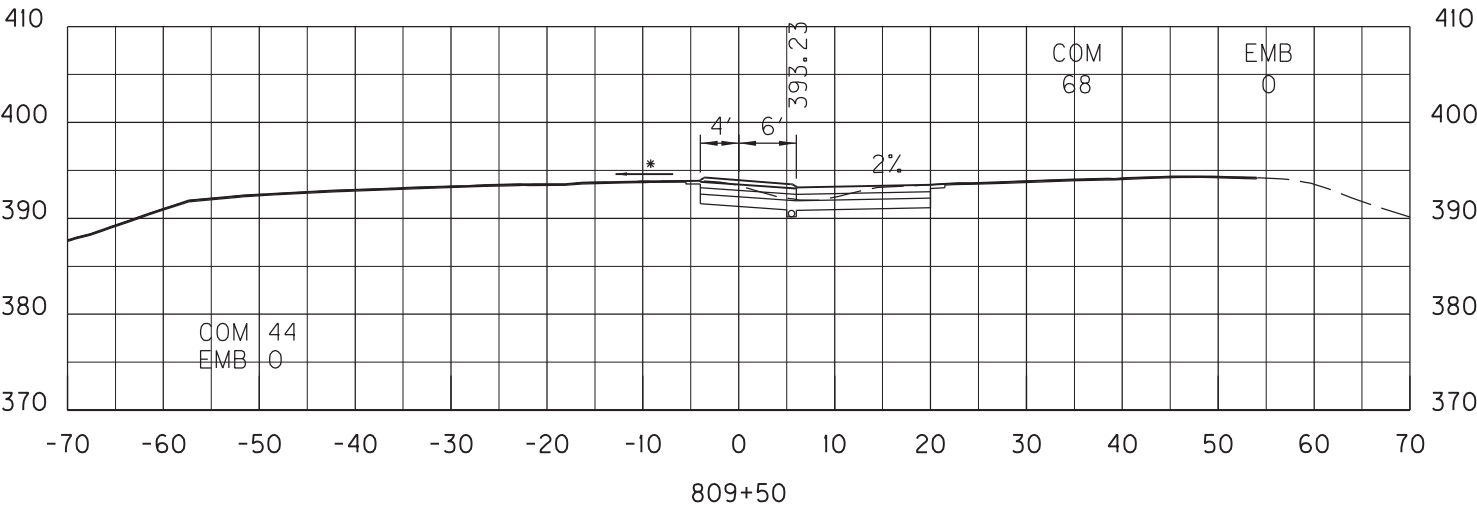


COUNTY OF	ITEM NO.
DAVIESS	2-936.00



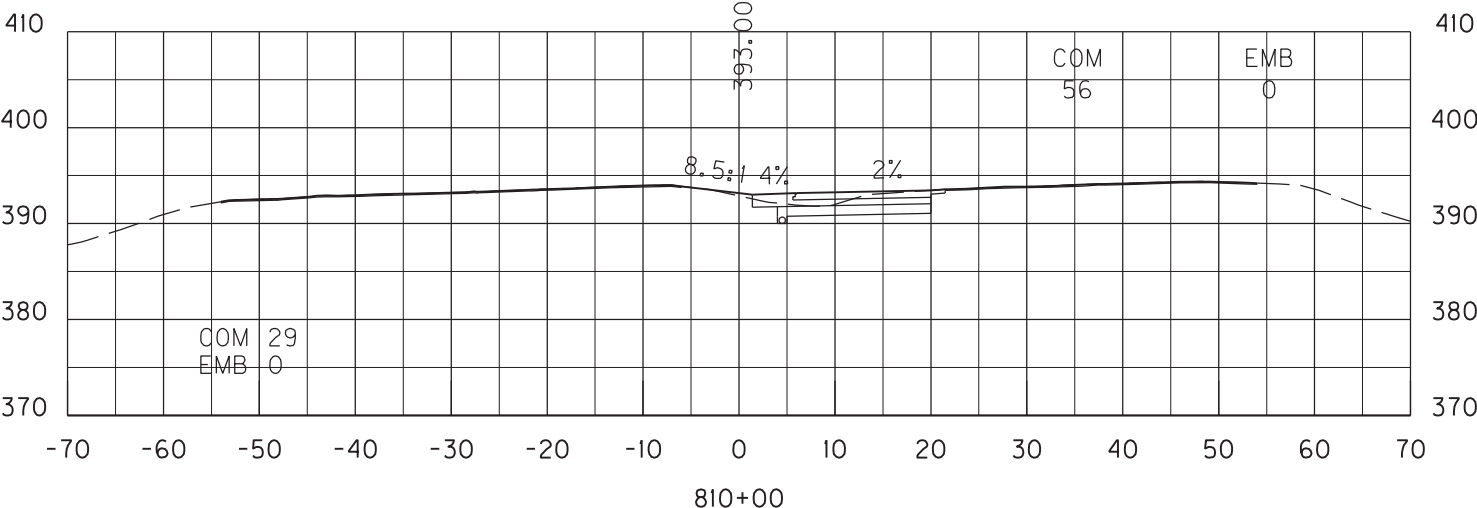
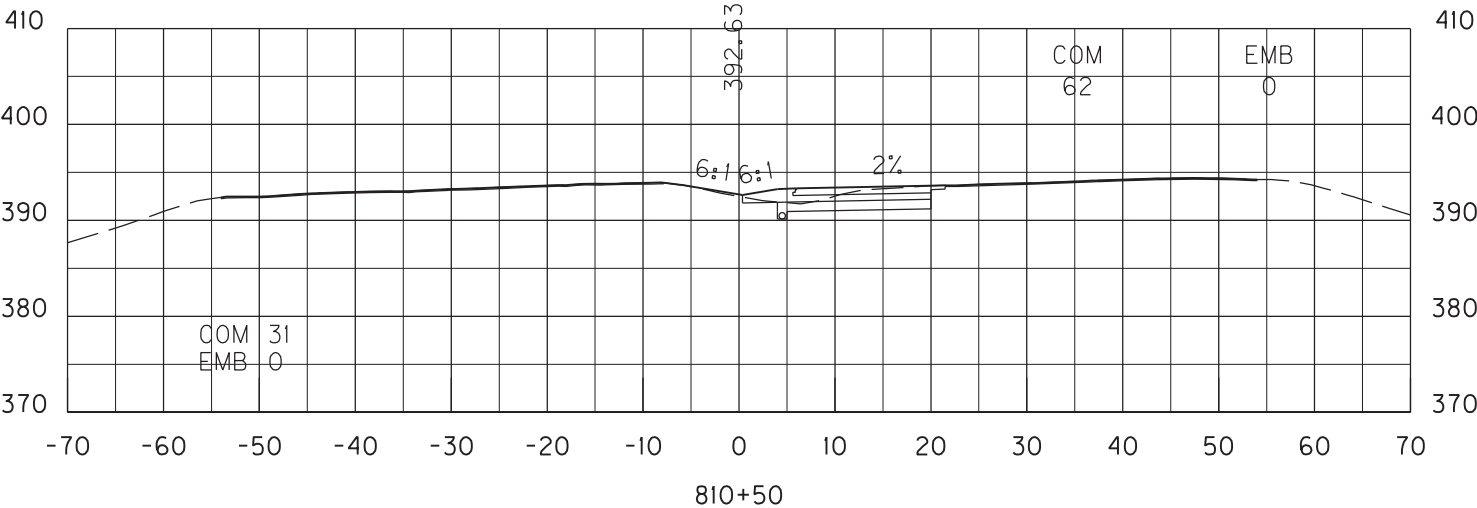
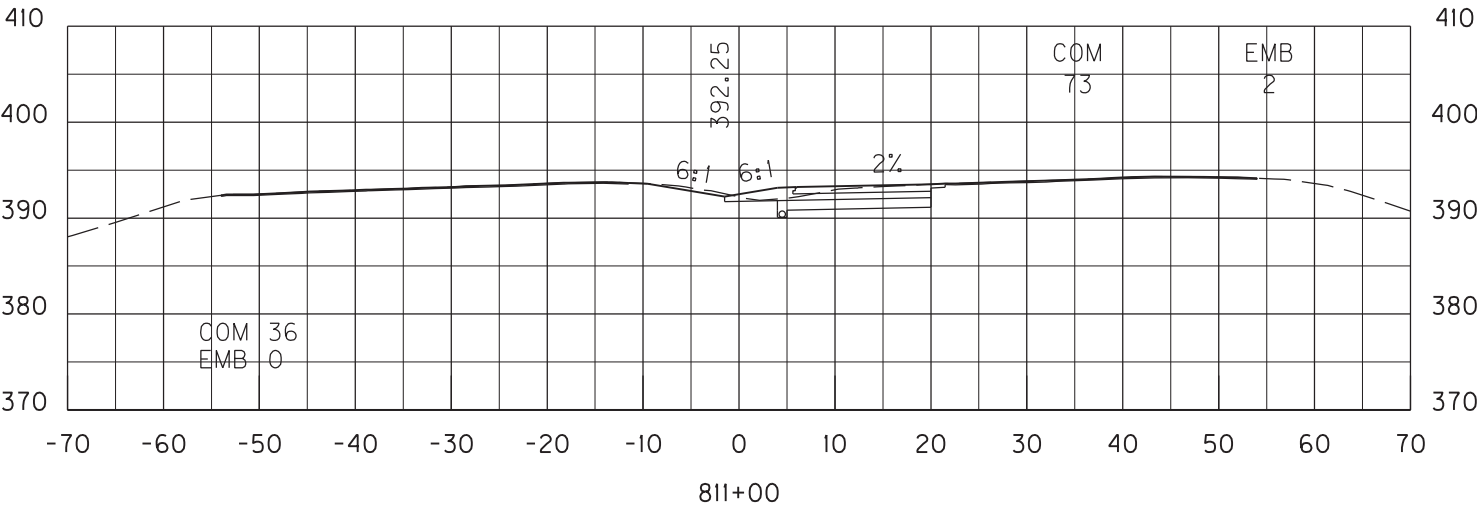
LT AND RT STA. 809+98.00 END MEDIAN FULL DEPTH
PAVEMENT AND CONTINUE LANE FOR MEDIAN U-TURN

COUNTY OF	ITEM NO.
DAVIESS	2-936.00



COUNTY OF	ITEM NO.
DAVIESS	2-936.00

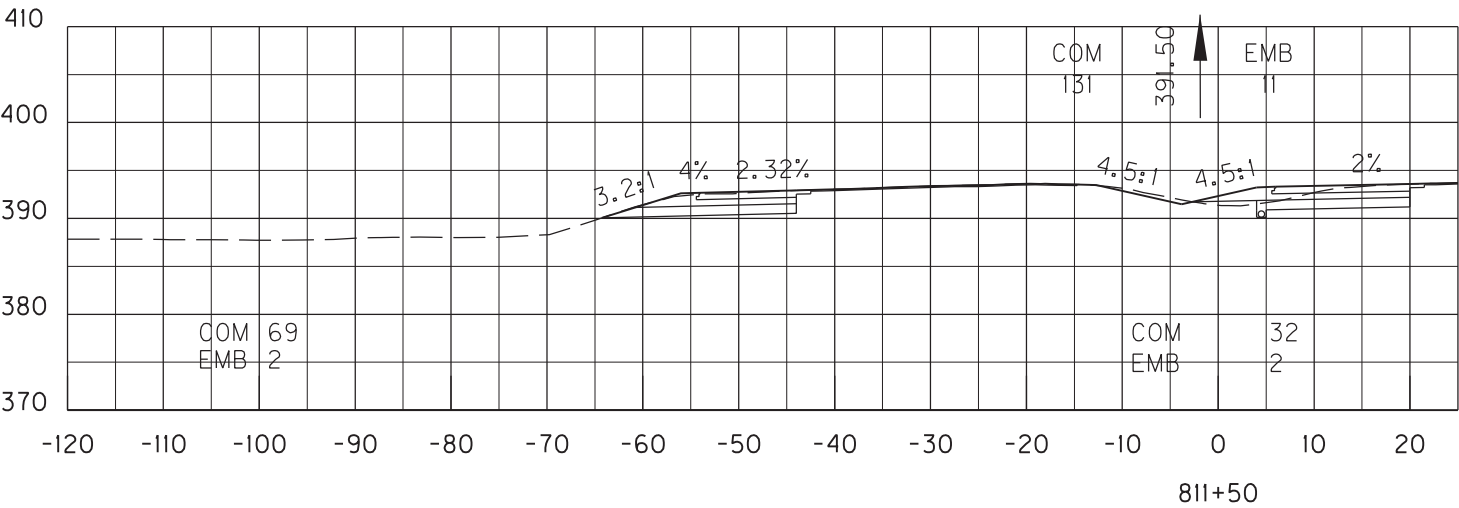
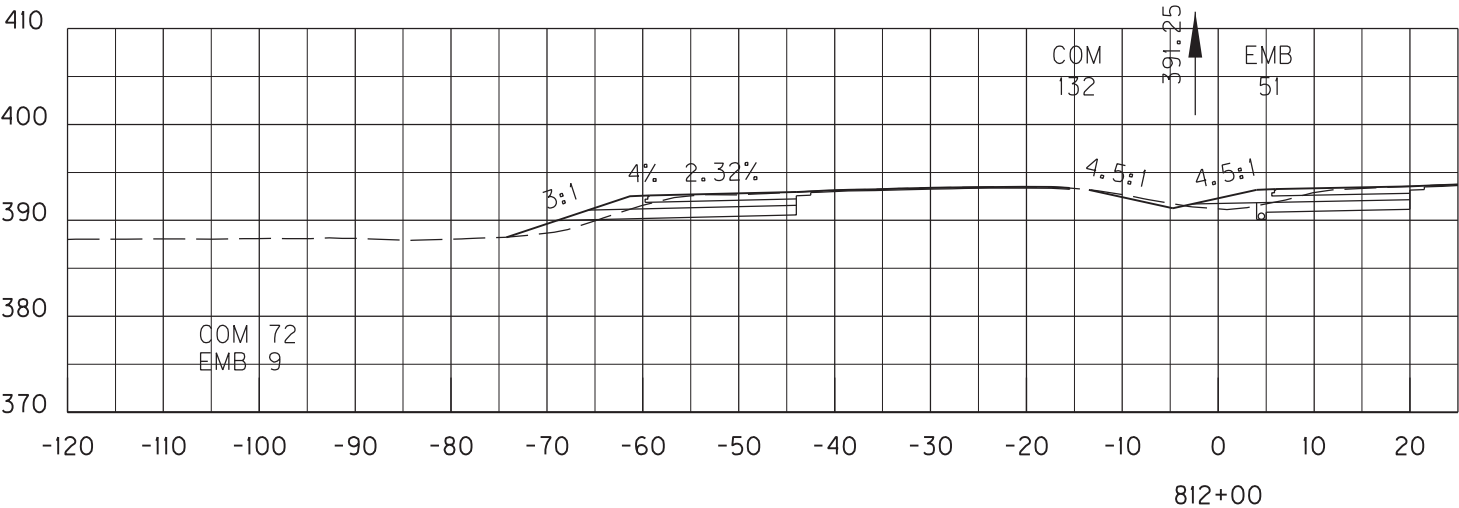
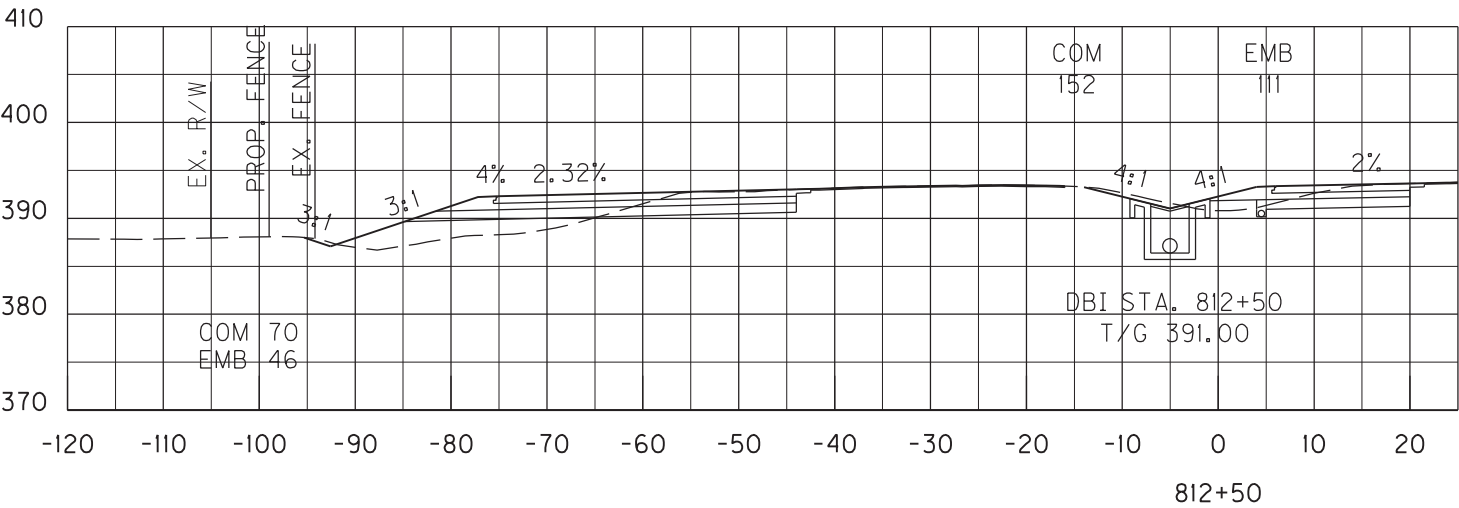
LT STA. 811+35.74 BEGIN FULL DEPTH
PAVEMENT WIDENING FOR LOON #2



SCALE: 1"= 20'

US 60 AT HAWES BLVD
STA. 810+00 TO STA. 811+00
CROSS SECTIONS

COUNTY OF	ITEM NO.
DAVIESS	2-936.00

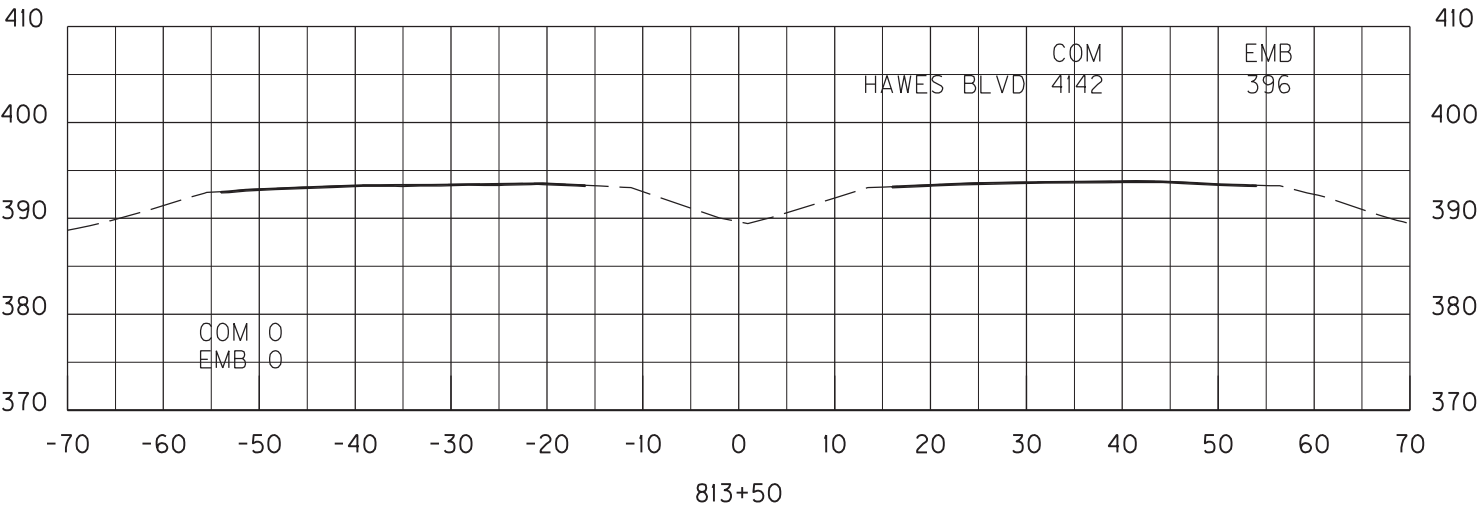


SCALE: 1"=20'

US 60 AT HAWES BLVD
STA. 811+50 TO STA. 812+50
CROSS SECTIONS

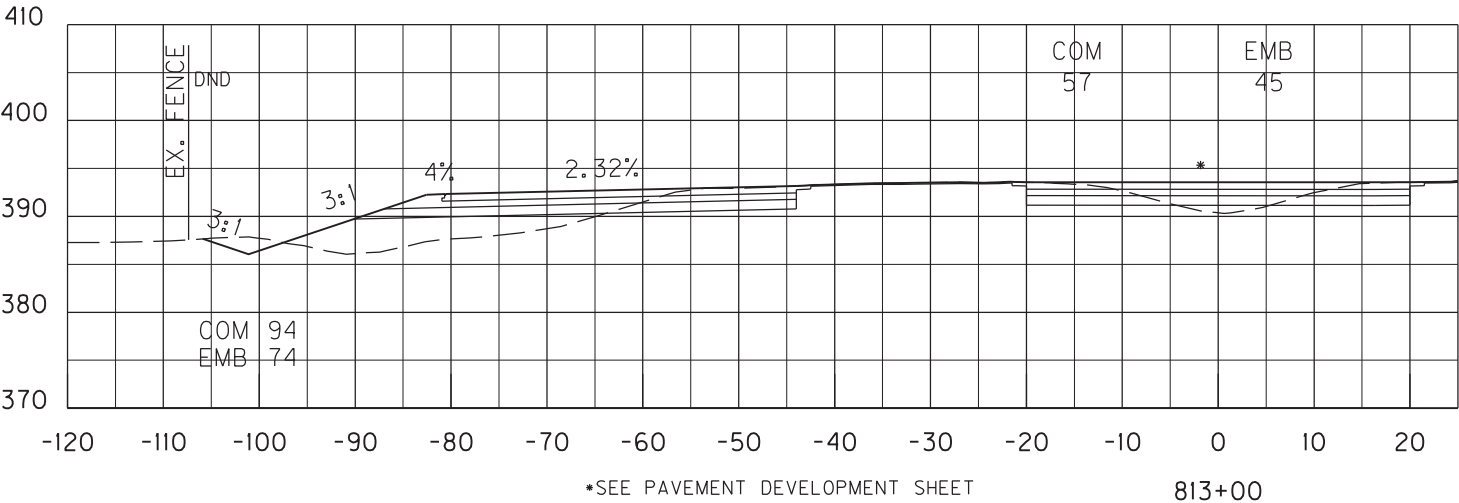
COUNTY OF	ITEM NO.
DAVIESS	2-936.00

LT AND RT STA. 813+50.00 END 1.5" ASPHALT
MILLING AND OVERLAY PAVEMENT



LT STA. 813+33.16 END FULL DEPTH
PAVEMENT WIDENING FOR LOON #2

RT STA. 813+09.29 AND LT STA. 813+34.08 END FULL DEPTH
PAVEMENT WIDENING FOR MEDIAN U-TURN AND LEFT TURN LANE

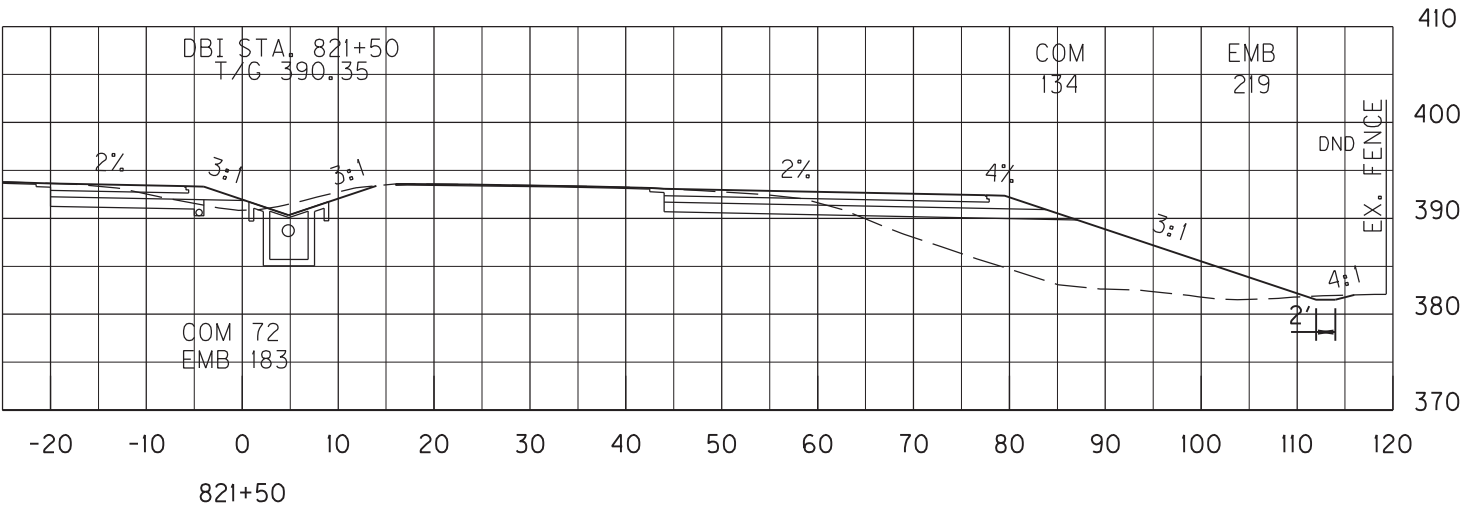


*SEE PAVEMENT DEVELOPMENT SHEET

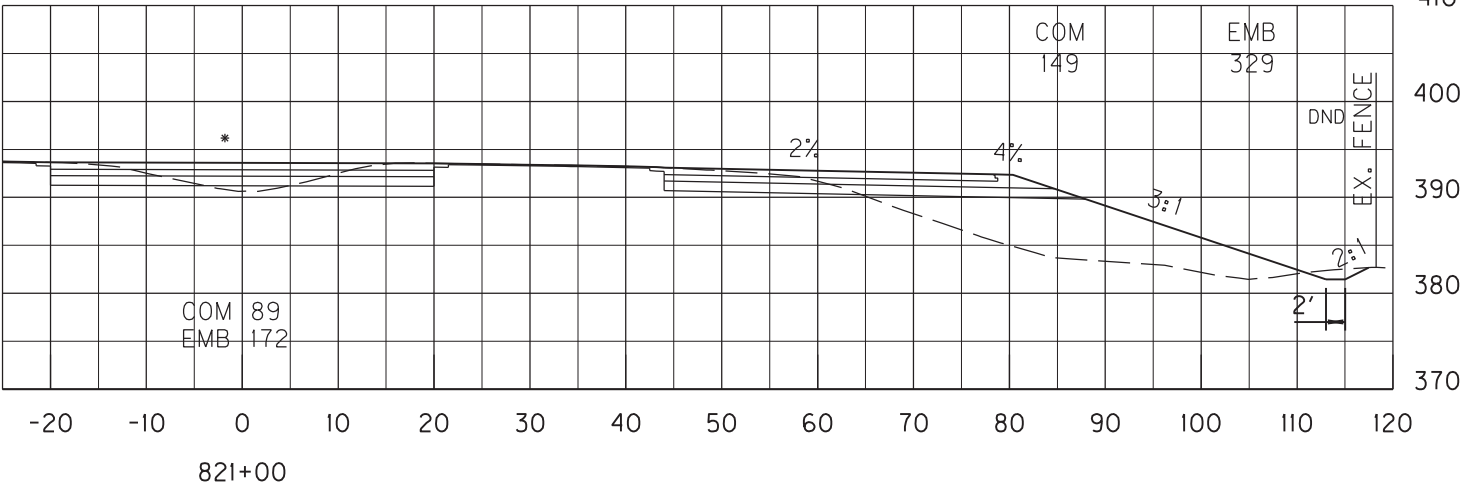
SCALE: 1"= 20'

US 60 AT HAWES BLVD
STA. 813+00 TO STA. 813+50
CROSS SECTIONS

COUNTY OF	ITEM NO.
DAVIESS	2-936.00

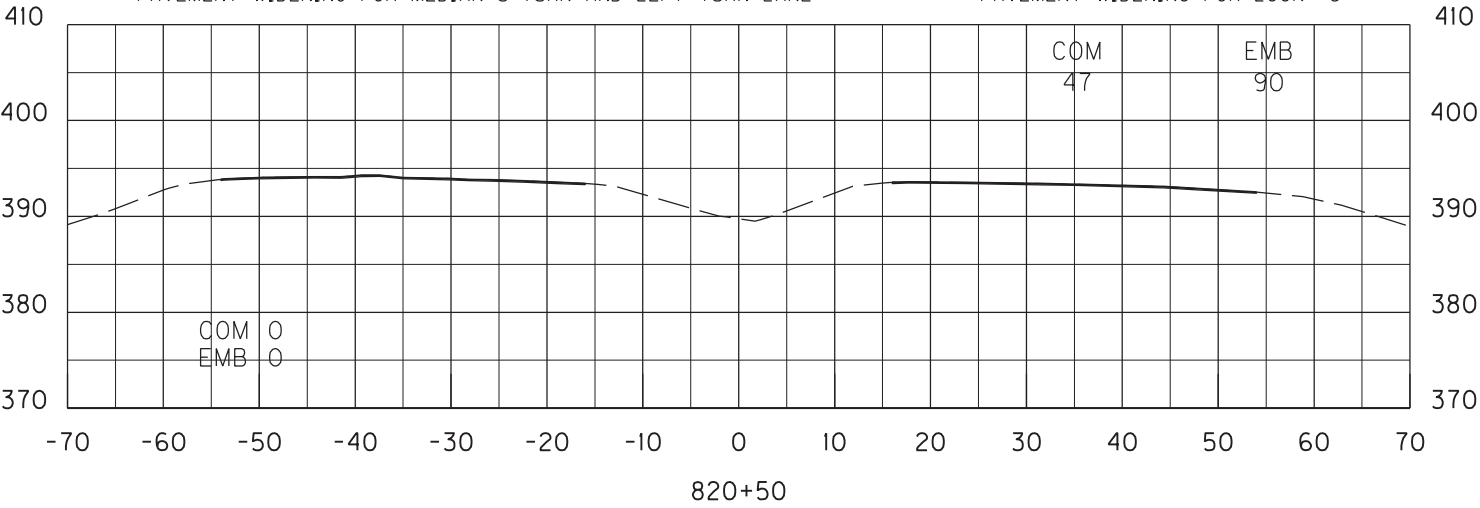


*SEE PAVEMENT DEVELOPMENT SHEET



RT STA. 820+71.84 AND LT STA. 820+95.84 BEGIN FULL DEPTH
PAVEMENT WIDENING FOR MEDIAN U-TURN AND LEFT TURN LANE

RT STA. 820+71.84 BEGIN FULL DEPTH
PAVEMENT WIDENING FOR LOON #3

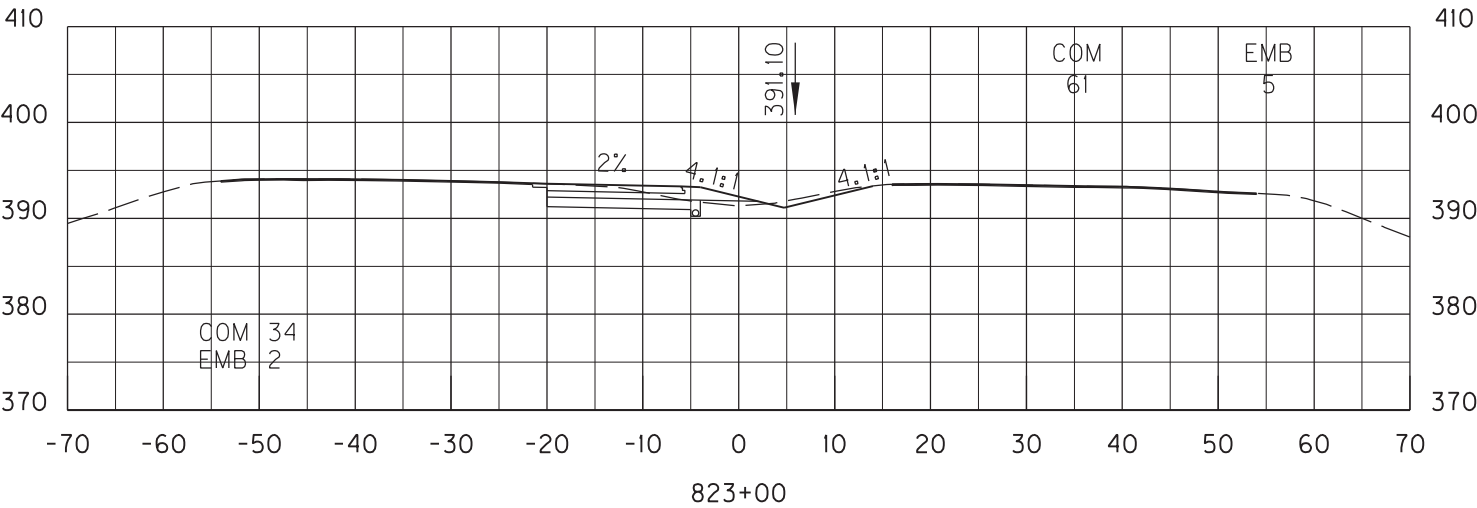


LT & RT STA. 820+50.00 BEGIN 1.5" ASPHALT
MILLING AND OVERLAY PAVEMENT

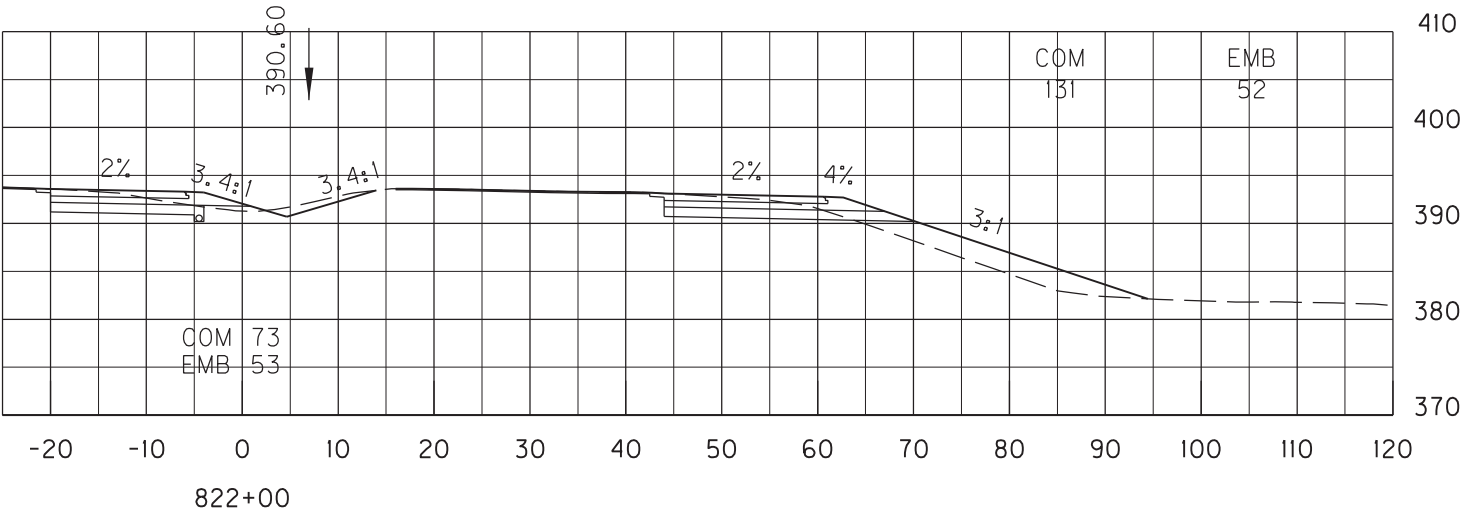
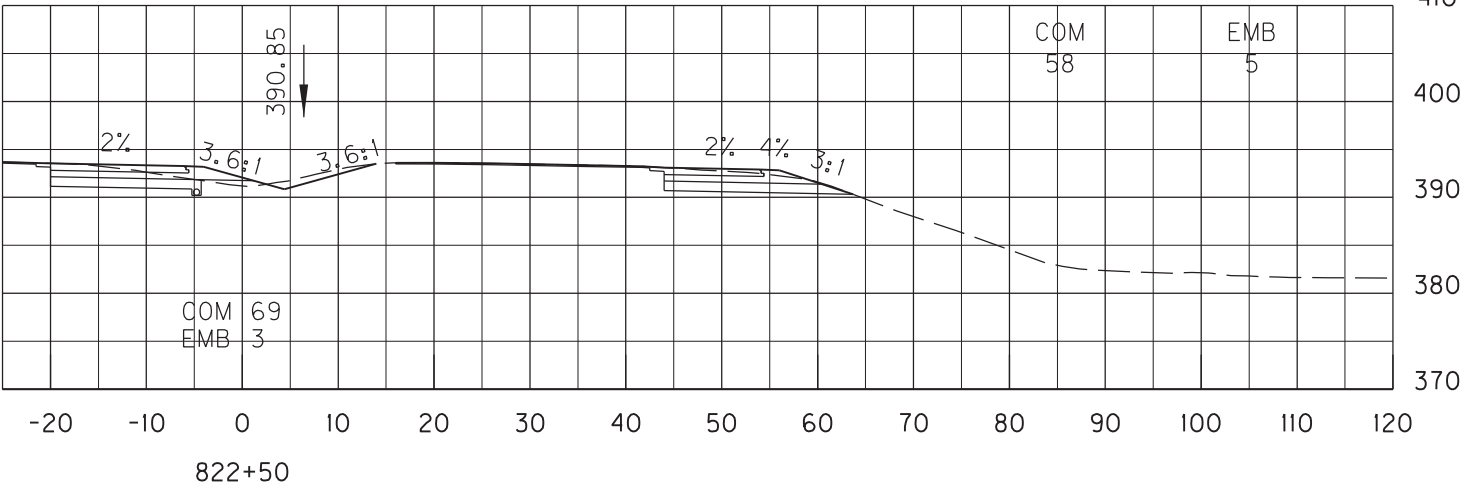
SCALE: 1"=20'

US 60 AT WRIGHTS LANDING RD
STA. 820+50 TO STA. 821+50
CROSS SECTIONS

COUNTY OF	ITEM NO.
DAVISS	2-936.00



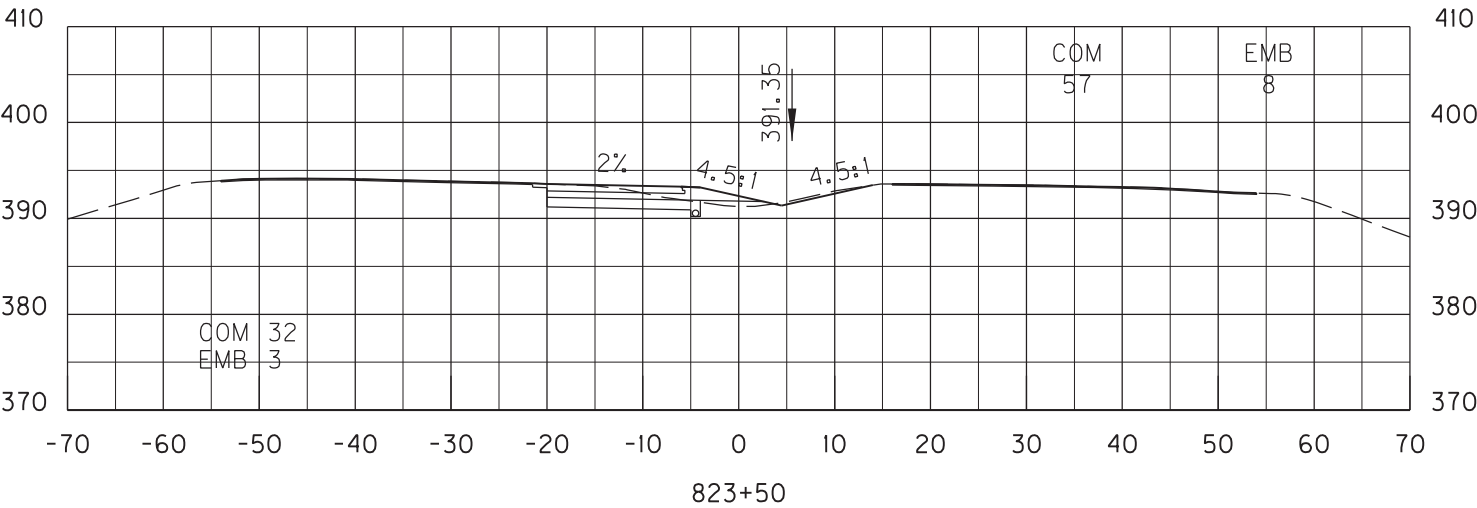
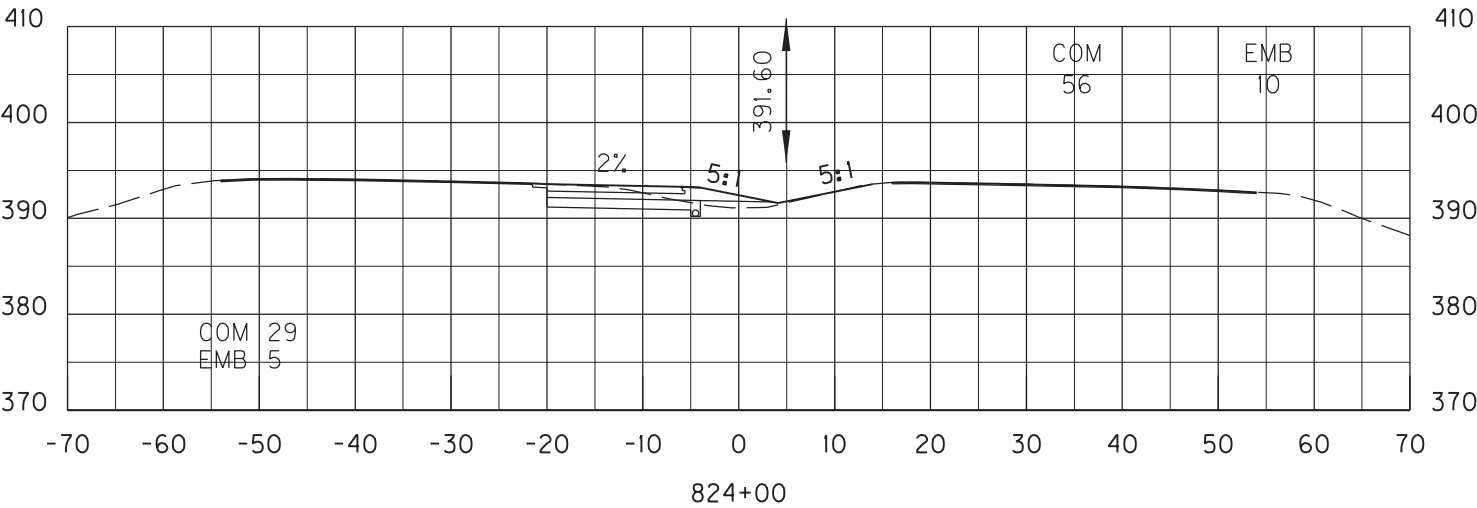
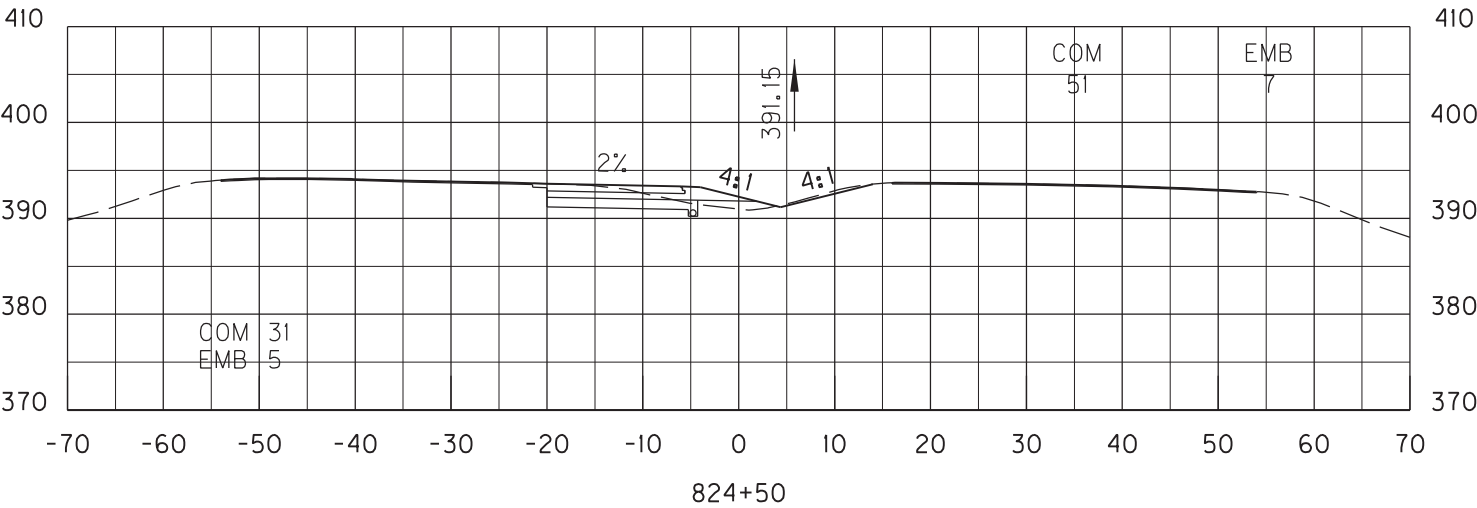
RT STA. 822+69.75 END FULL DEPTH
PAVEMENT WIDENING FOR LOON #3



US 60 AT WRIGHTS LANDING RD
STA. 822+00 TO STA. 823+00
CROSS SECTIONS

SCALE: 1"= 20'

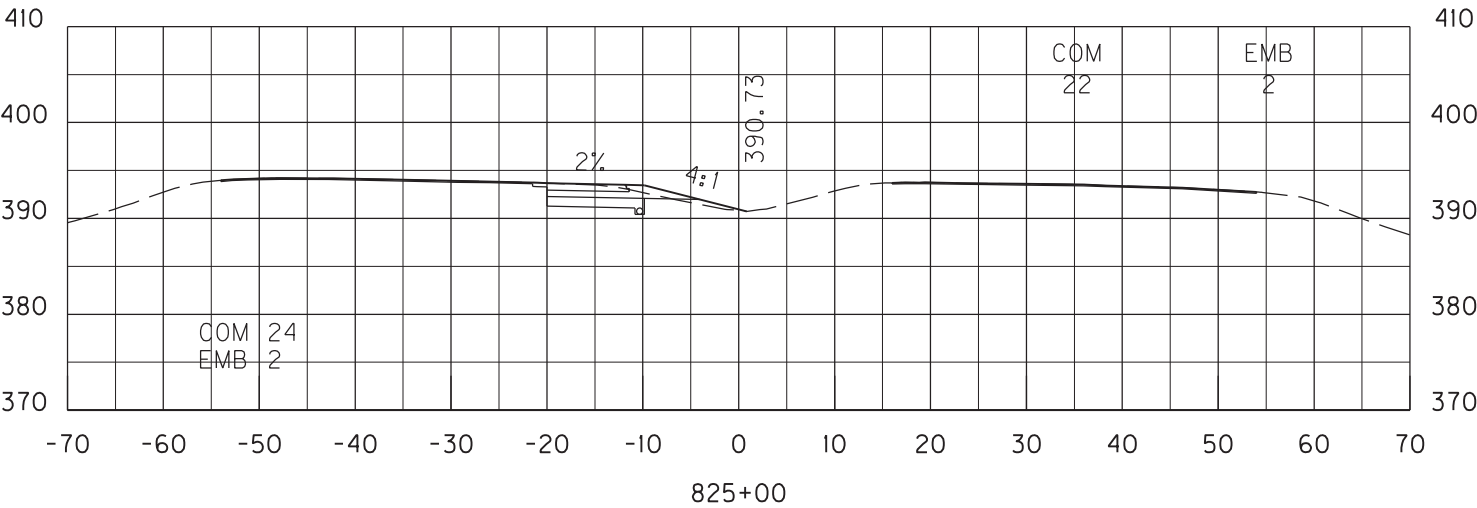
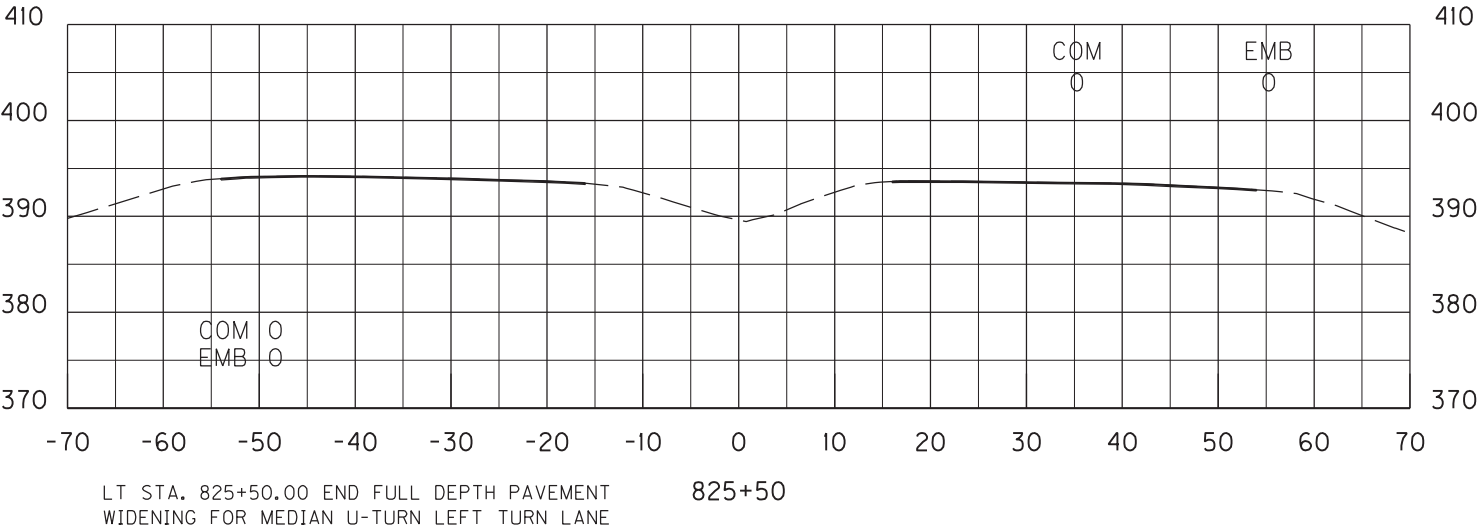
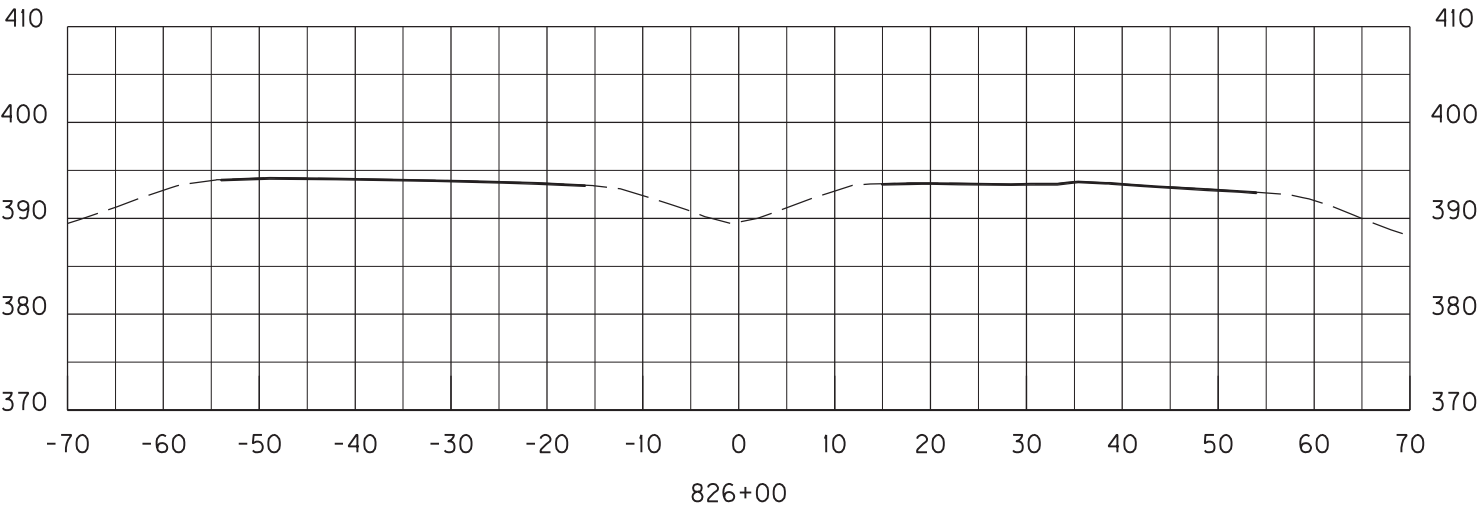
COUNTY OF	ITEM NO.
DAVIESS	2-936.00



US 60 AT WRIGHTS LANDING RD
STA. 823+50 TO STA. 824+50
CROSS SECTIONS

SCALE: 1"= 20'

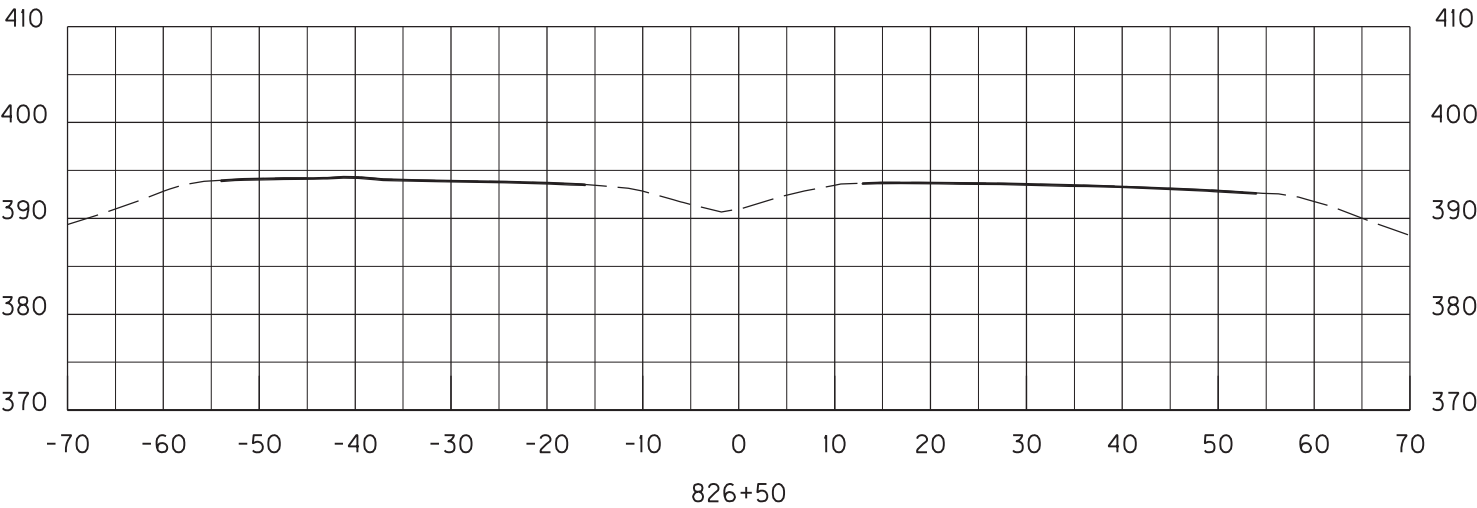
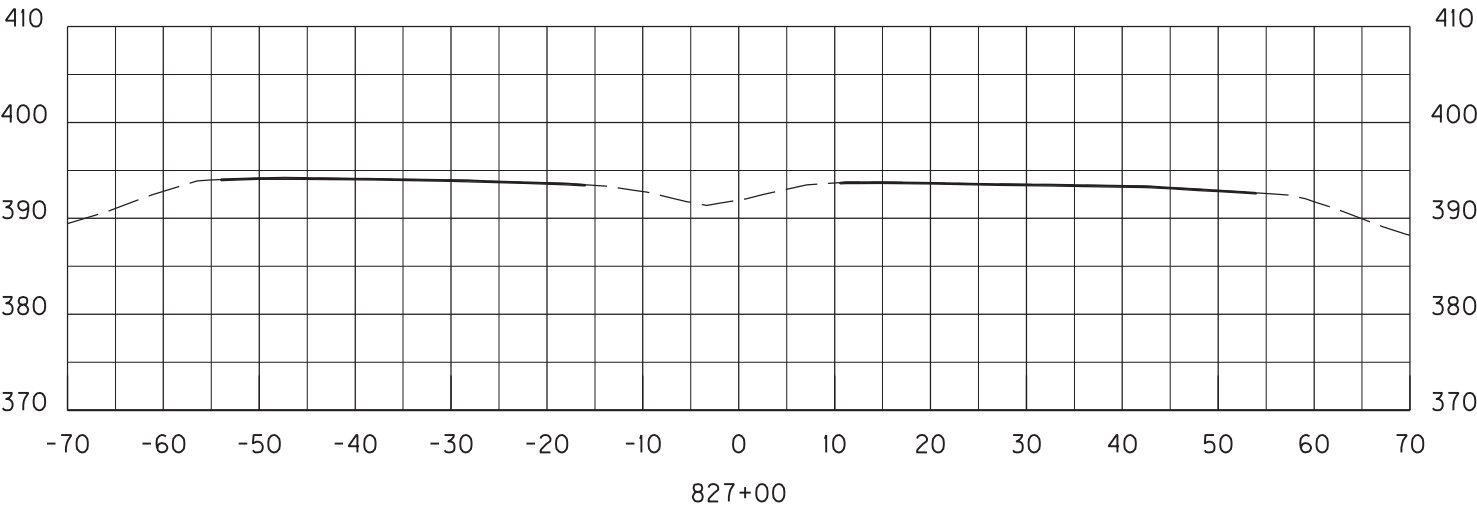
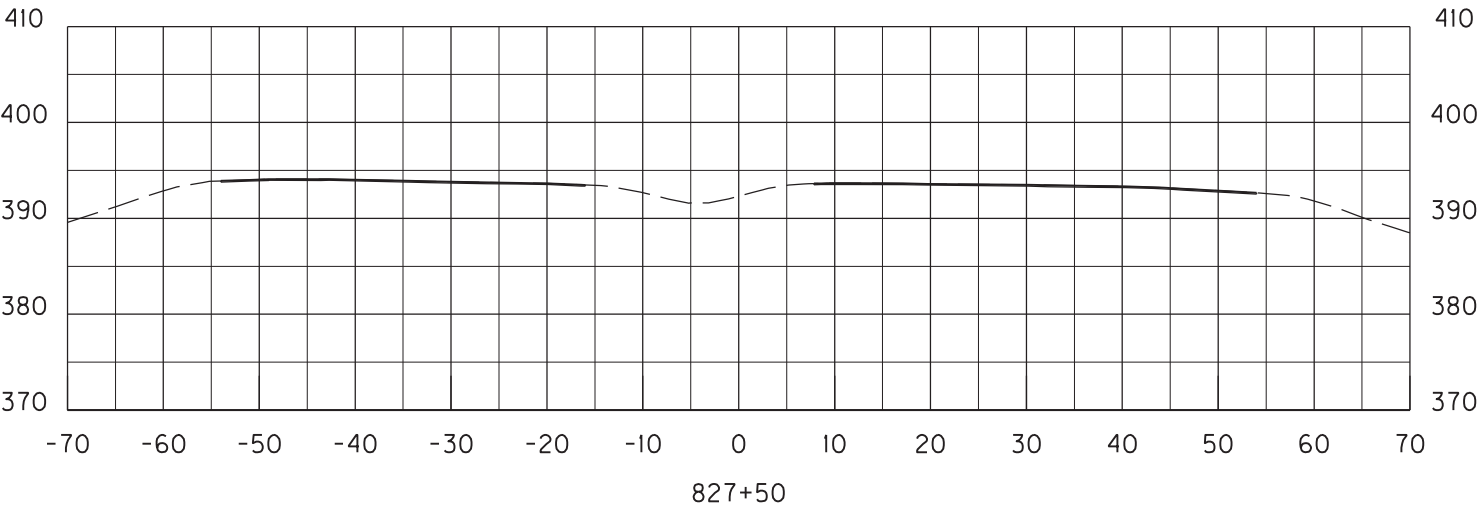
COUNTY OF	ITEM NO.
DAVIESS	2-936.00



SCALE: 1"= 20'

US 60 AT WRIGHTS LANDING RD
STA. 825+00 TO STA. 826+00
CROSS SECTIONS

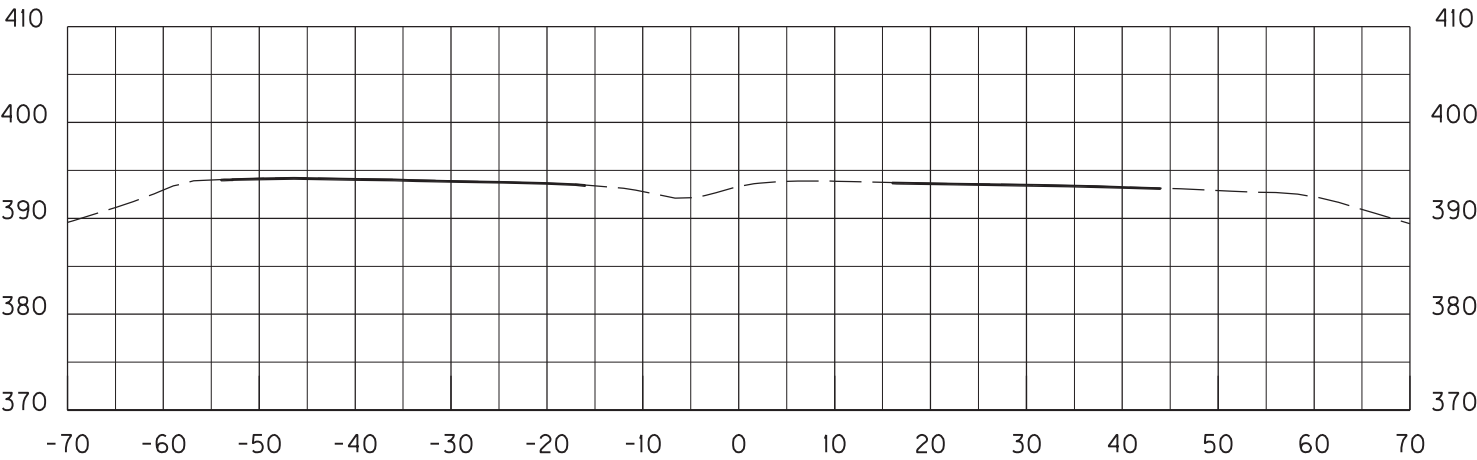
COUNTY OF	ITEM NO.
DAVIESS	2-936.00



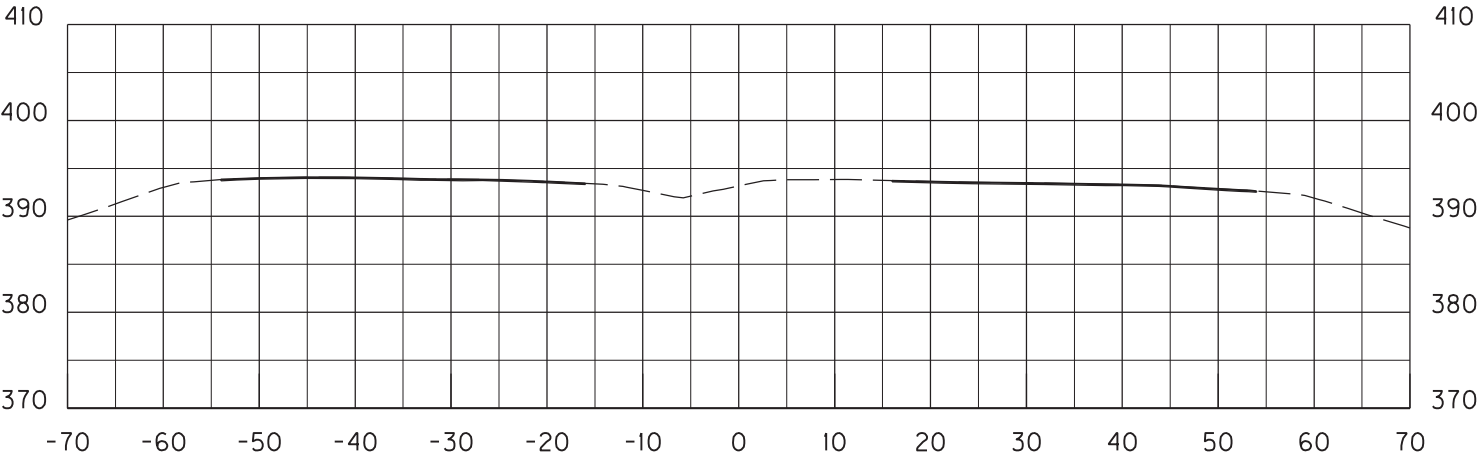
SCALE: 1"=20'

US 60 AT WRIGHTS LANDING RD
STA. 826+50 TO STA. 827+50
CROSS SECTIONS

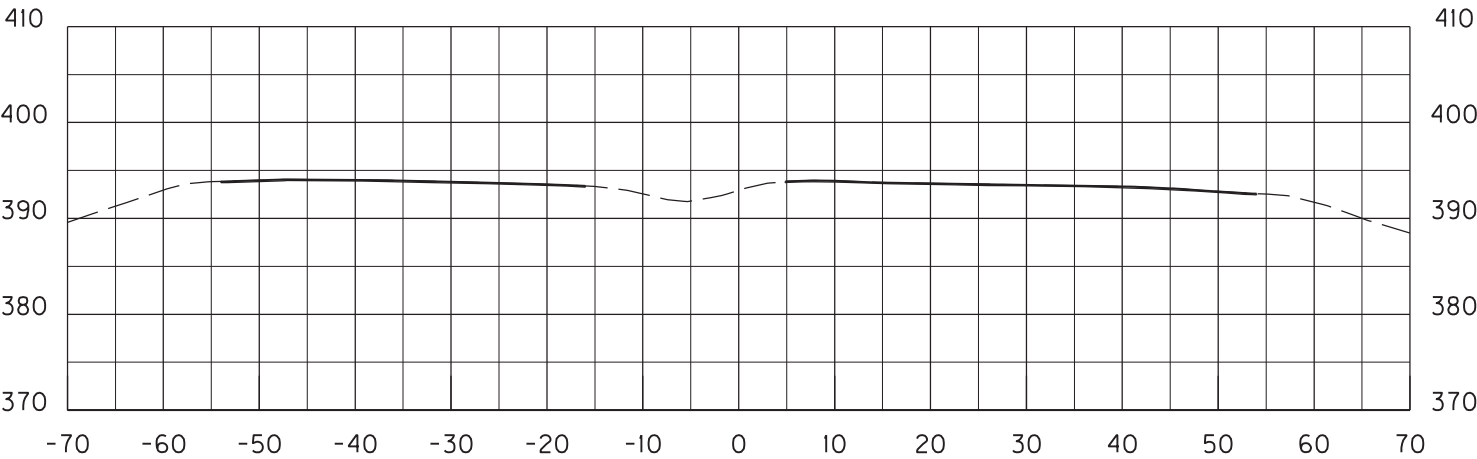
COUNTY OF	ITEM NO.
DAVIESS	2-936.00



829+00 RT APPROXIMATE STA. 828+70 END SHOULDER OVERLAY
AT RECENT PAVED RIGHT TURN LANE ASPHALT SURFACE



828+50

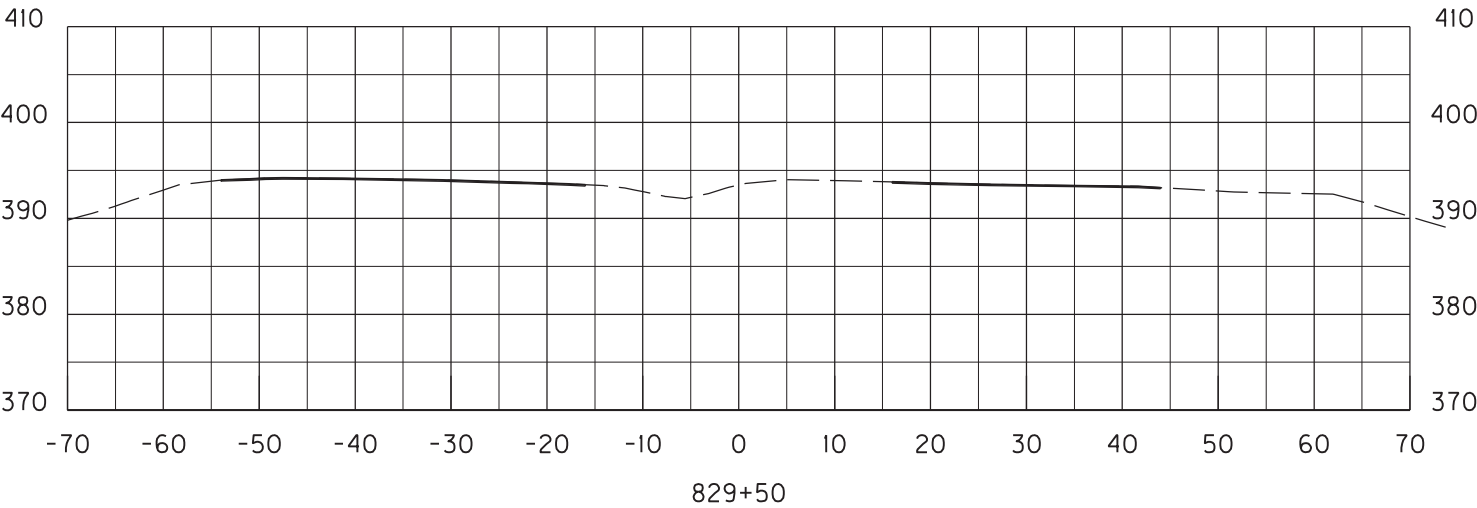
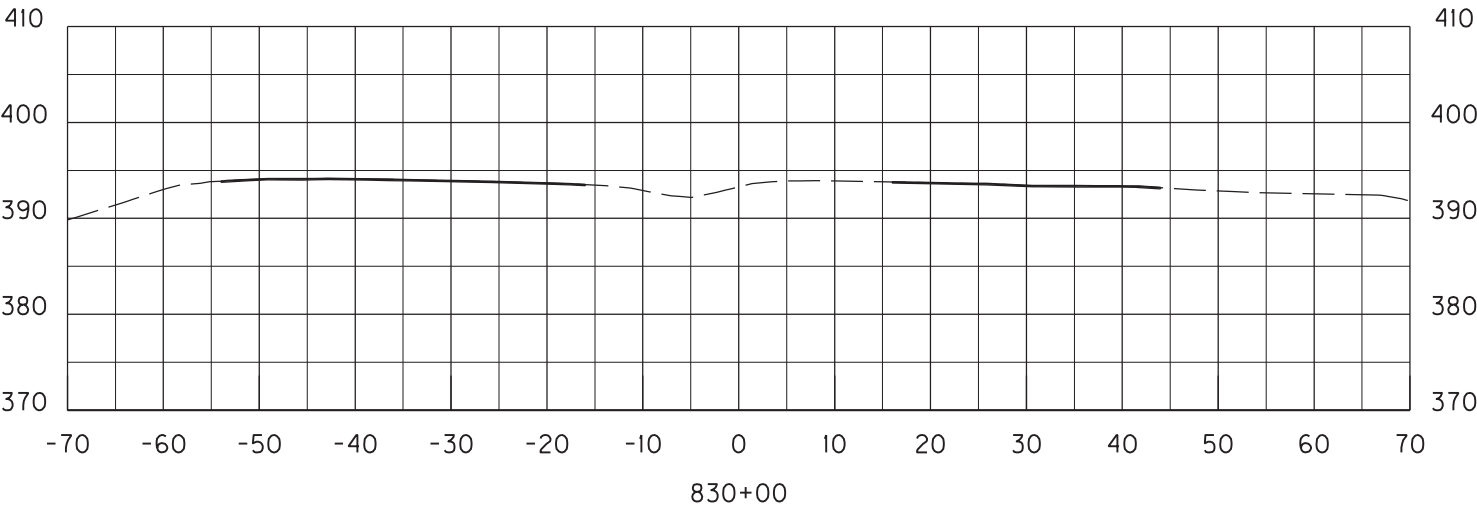
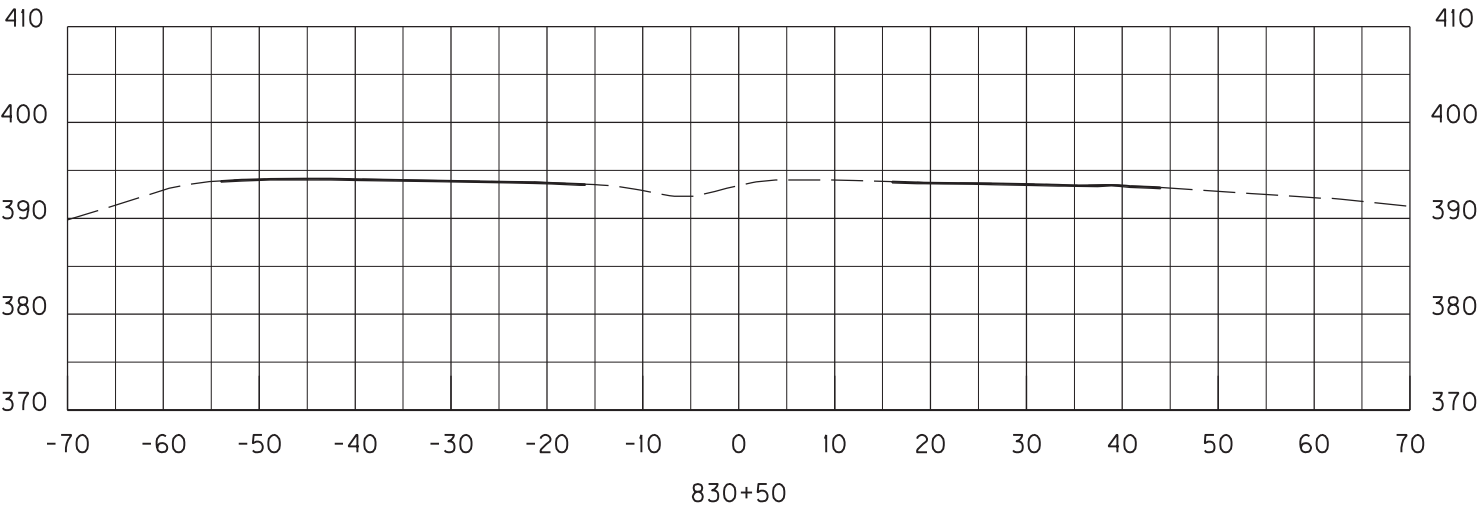


828+00

SCALE: 1"=20'

US 60 AT WRIGHTS LANDING RD
STA. 828+00 TO STA. 829+00
CROSS SECTIONS

COUNTY OF	ITEM NO.
DAVIESS	2-936.00

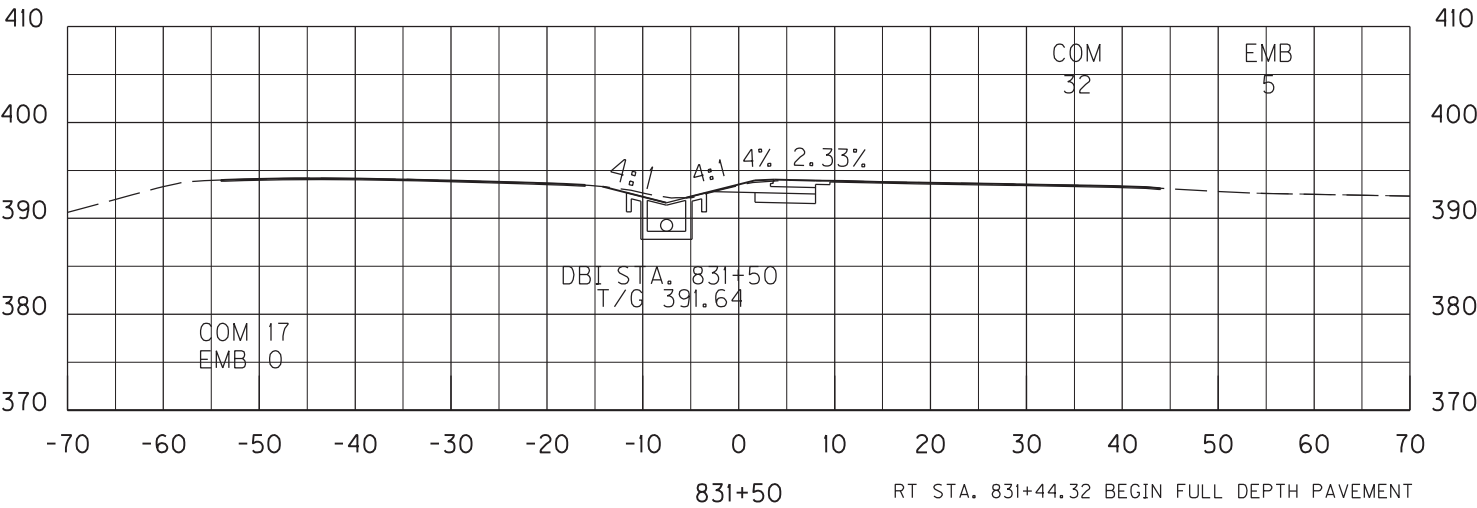
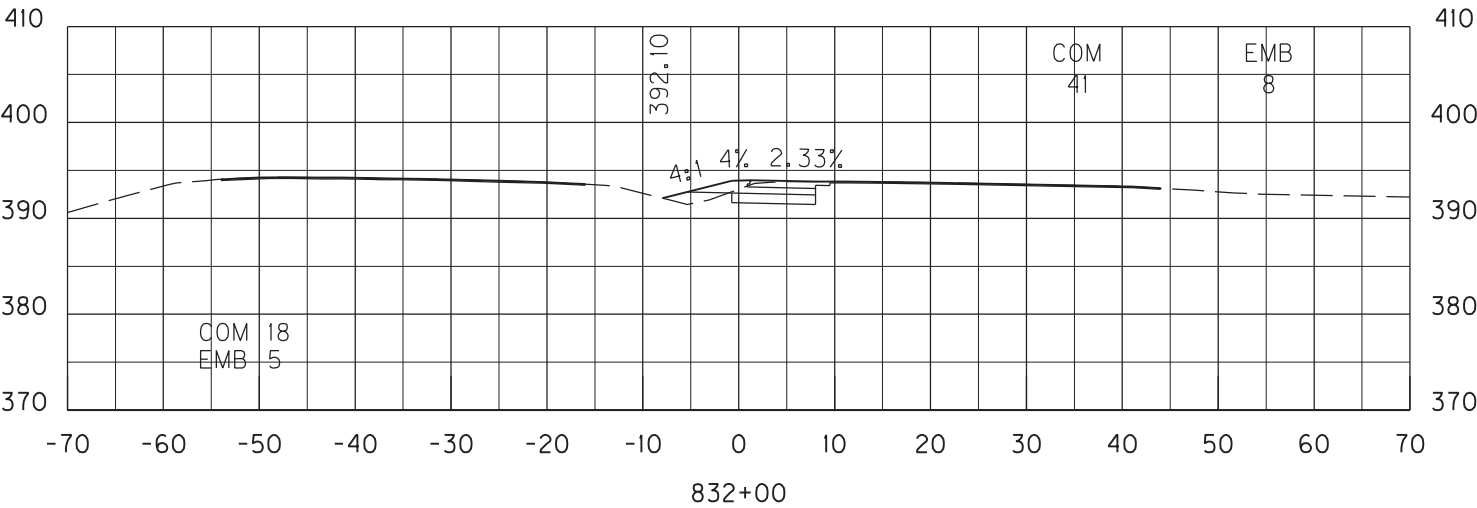


SCALE: 1"=20'

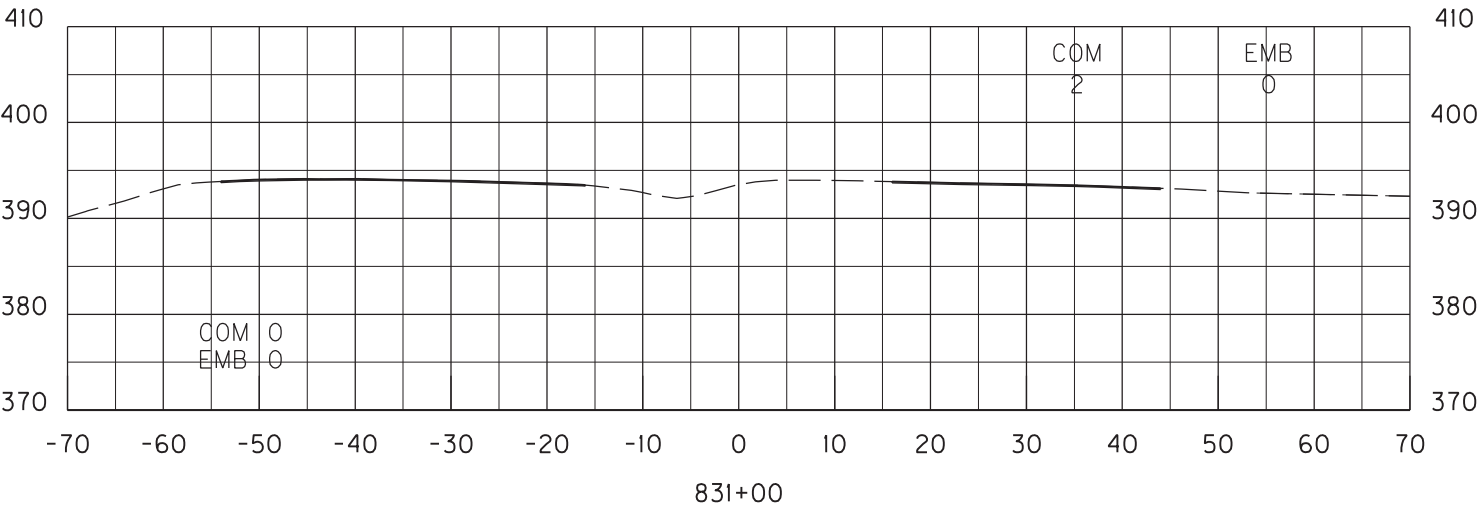
US 60 AT WRIGHTS LANDING RD
STA. 829+50 TO STA. 830+50
CROSS SECTIONS

COUNTY OF	ITEM NO.
DAVISS	2-936.00

LT STA. 832+35.00 BEGIN FULL DEPTH
PAVEMENT WIDENING FOR RCUT



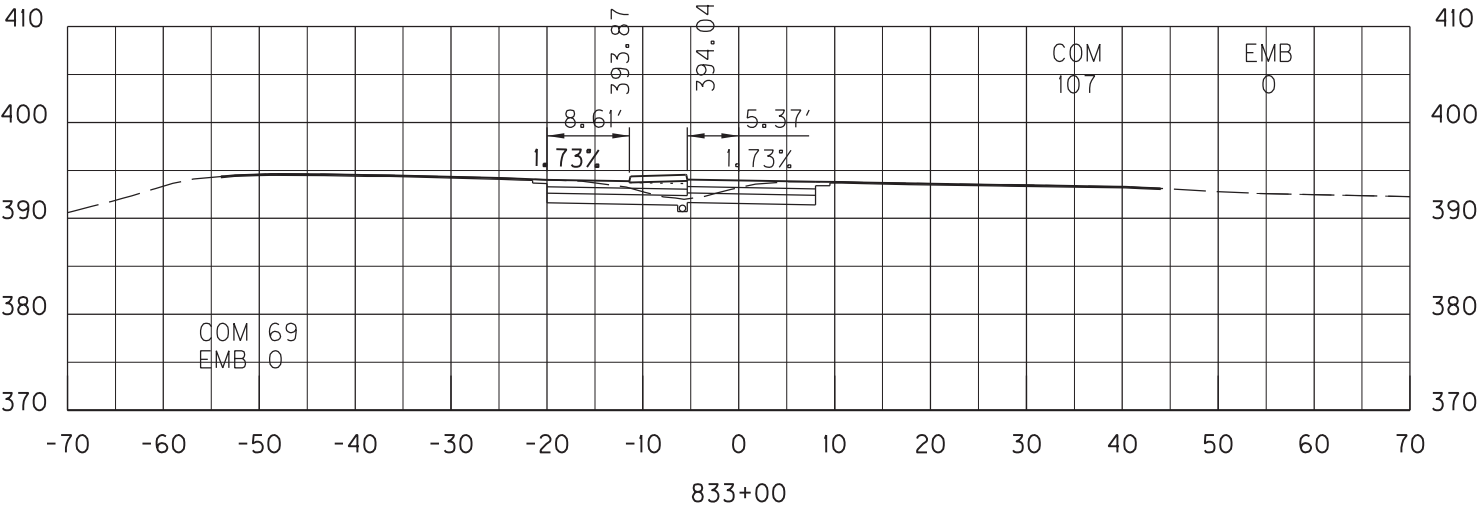
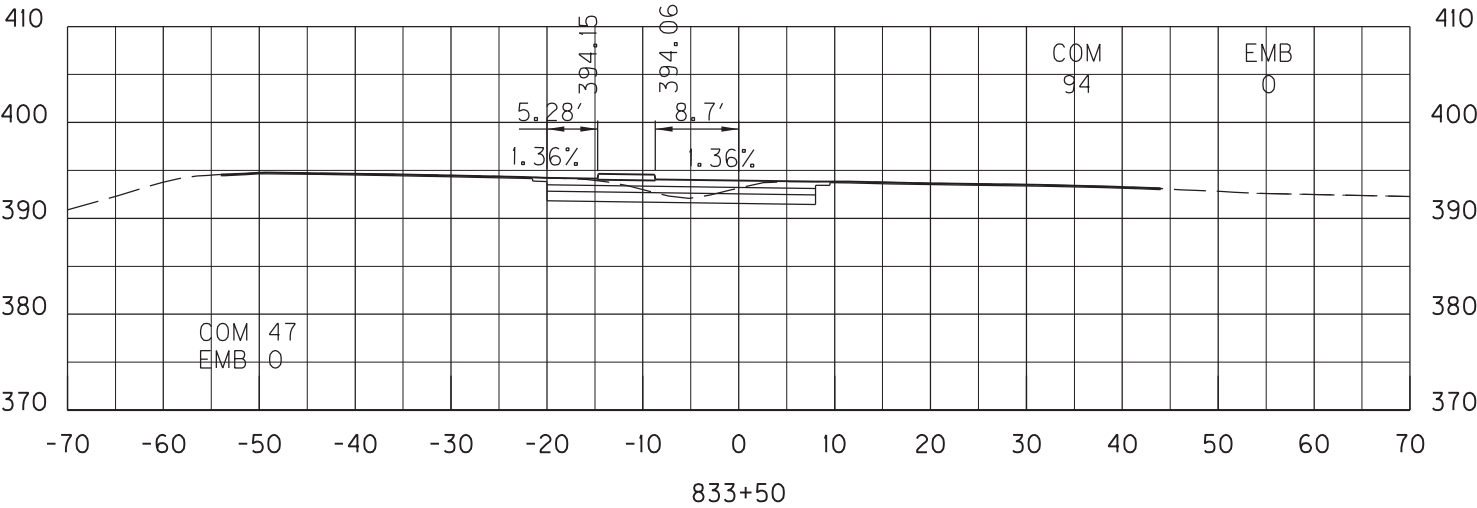
RT STA. 831+44.32 BEGIN FULL DEPTH PAVEMENT
WIDENING FOR LEFT TURN LANE AND RCUT



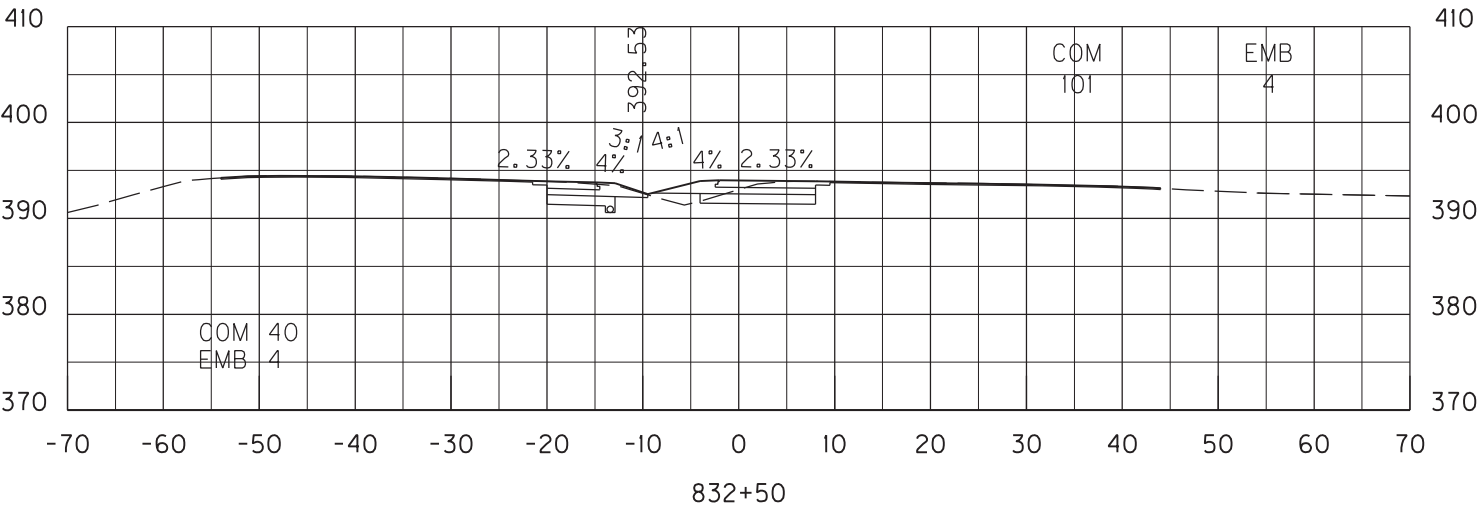
SCALE: 1"=20'

US 60 AT WRIGHTS LANDING RD
STA. 831+00 TO STA. 832+00
CROSS SECTIONS

COUNTY OF	ITEM NO.
DAVIESS	2-936.00

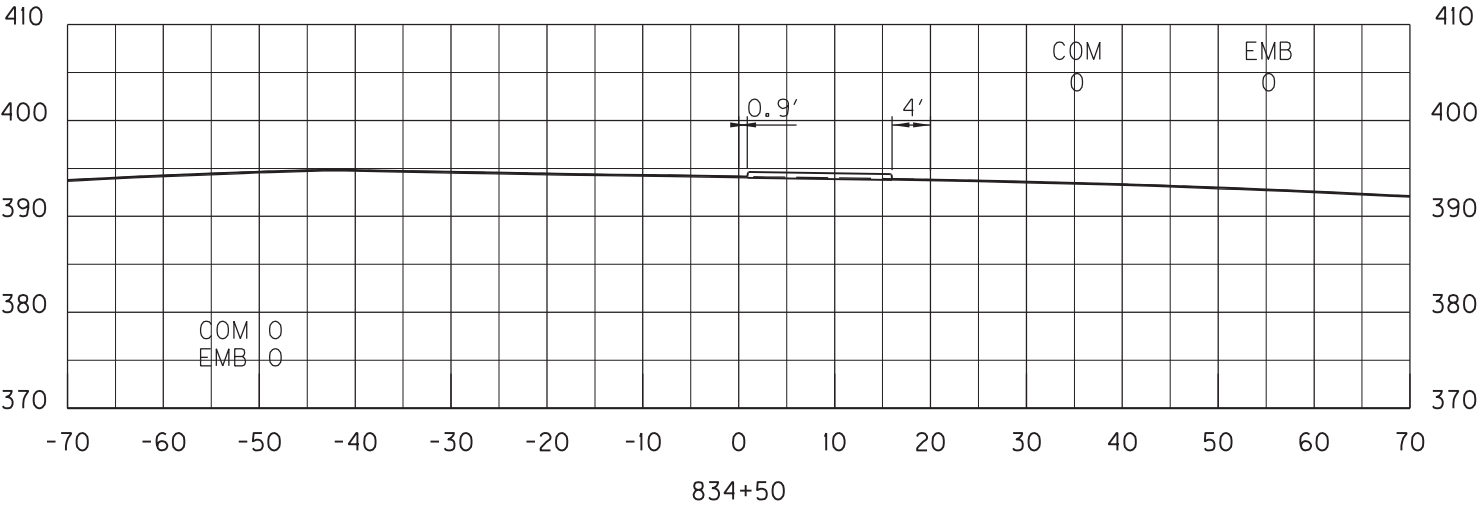
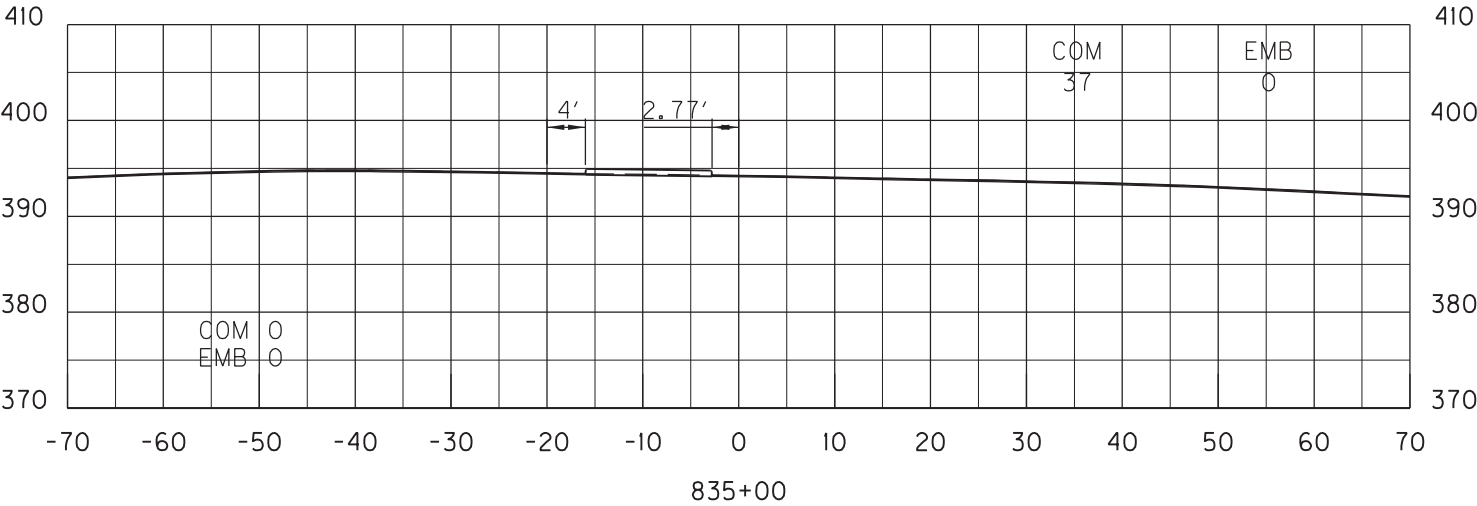


LT AND RT STA. 832+96.70 BEGIN MEDIAN FULL DEPTH PAVEMENT

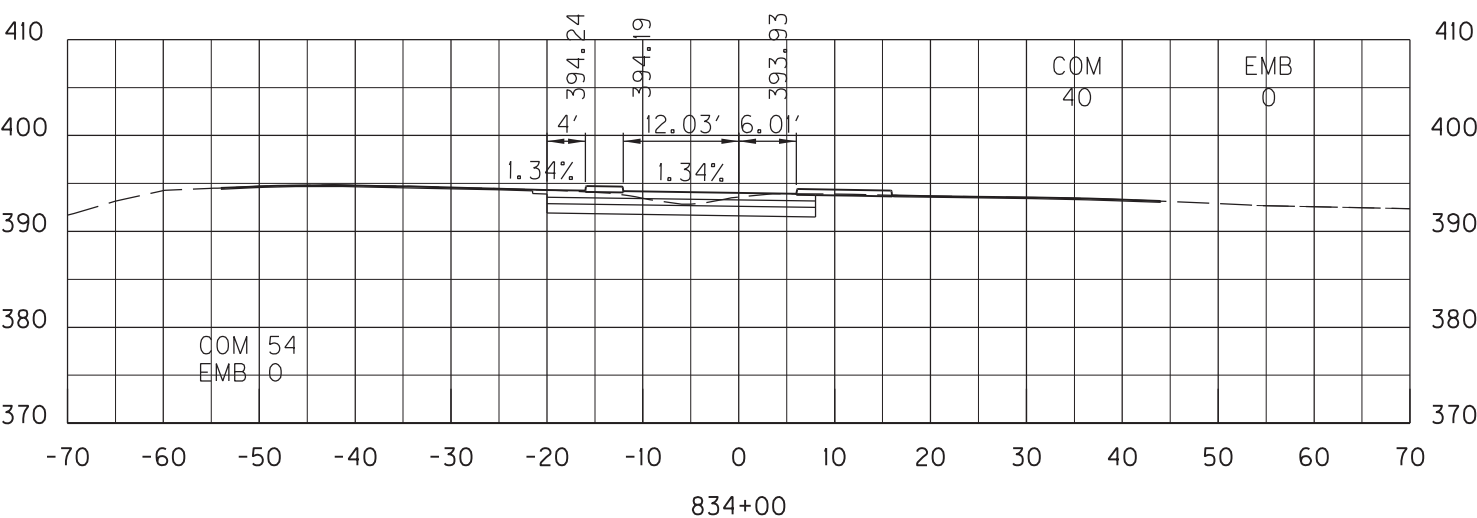


COUNTY OF	ITEM NO.
DAVIESS	2-936.00

LT AND RT STA. 835+15.00 BEGIN MEDIAN FULL
DEPTH PAVEMENT FOR LEFT TURN LANE AND RCUT



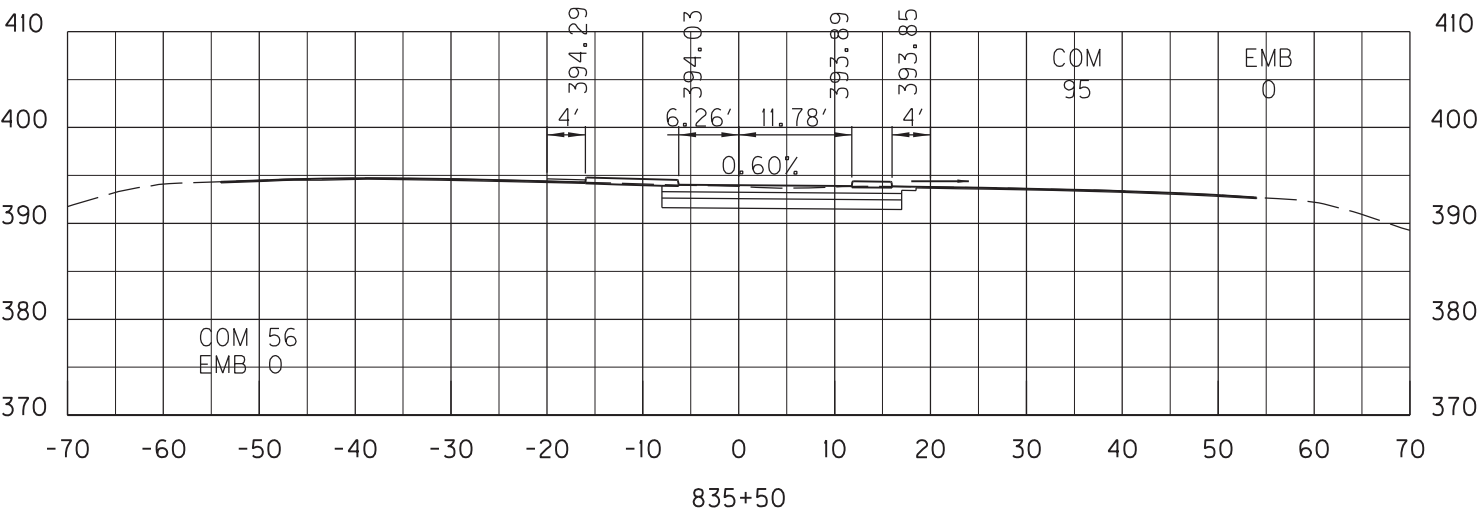
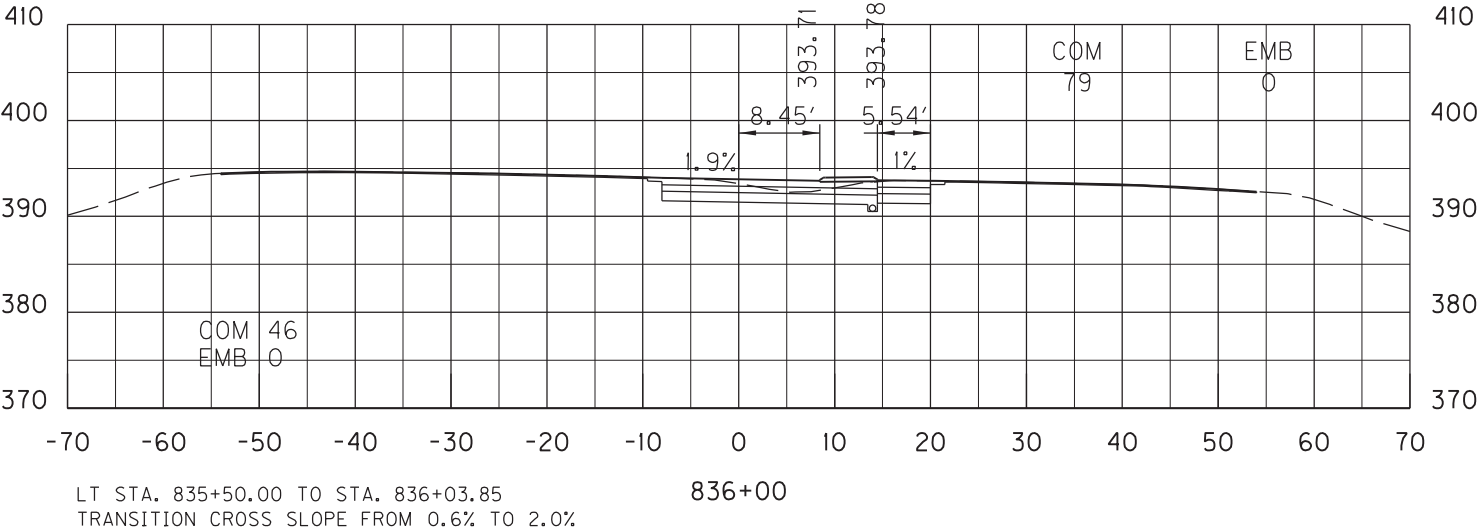
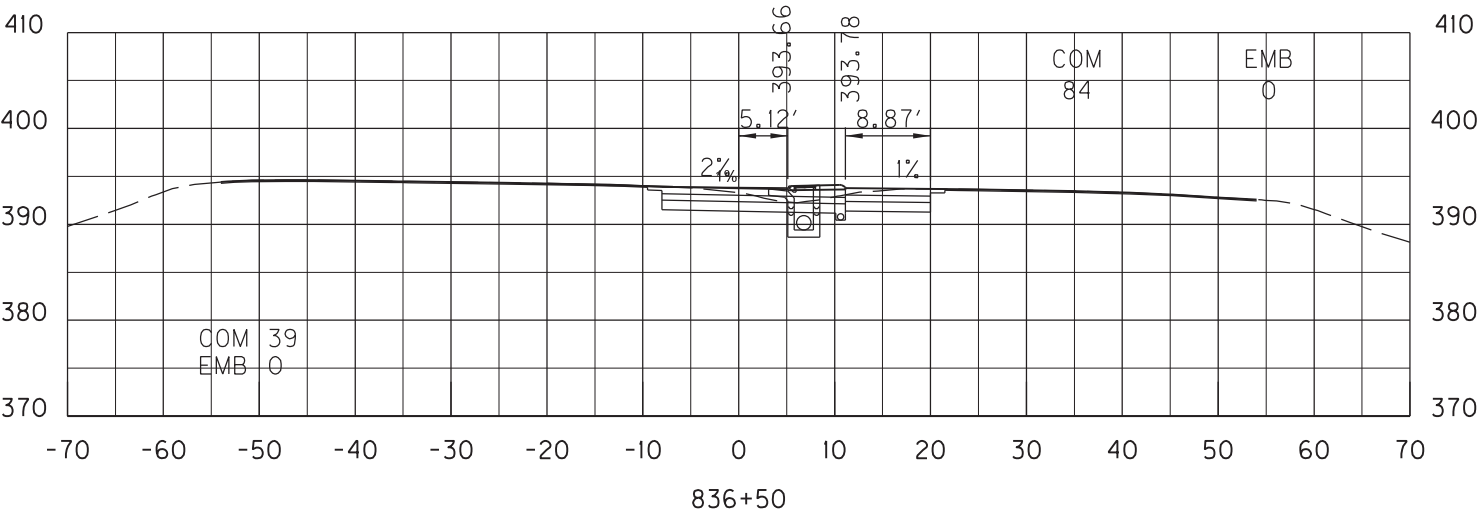
LT AND RT STA. 834+40.00 END MEDIAN FULL DEPTH PAVEMENT



SCALE: 1"=20'

US 60 AT WRIGHTS LANDING RD
STA. 834+00 TO STA. 835+00
CROSS SECTIONS

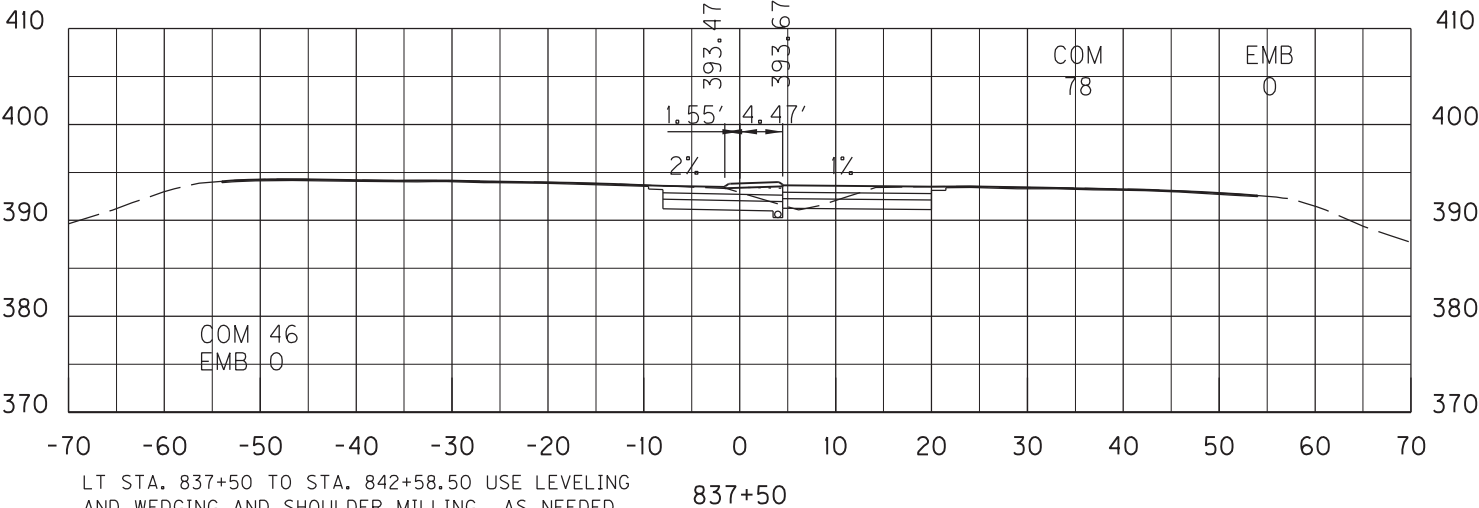
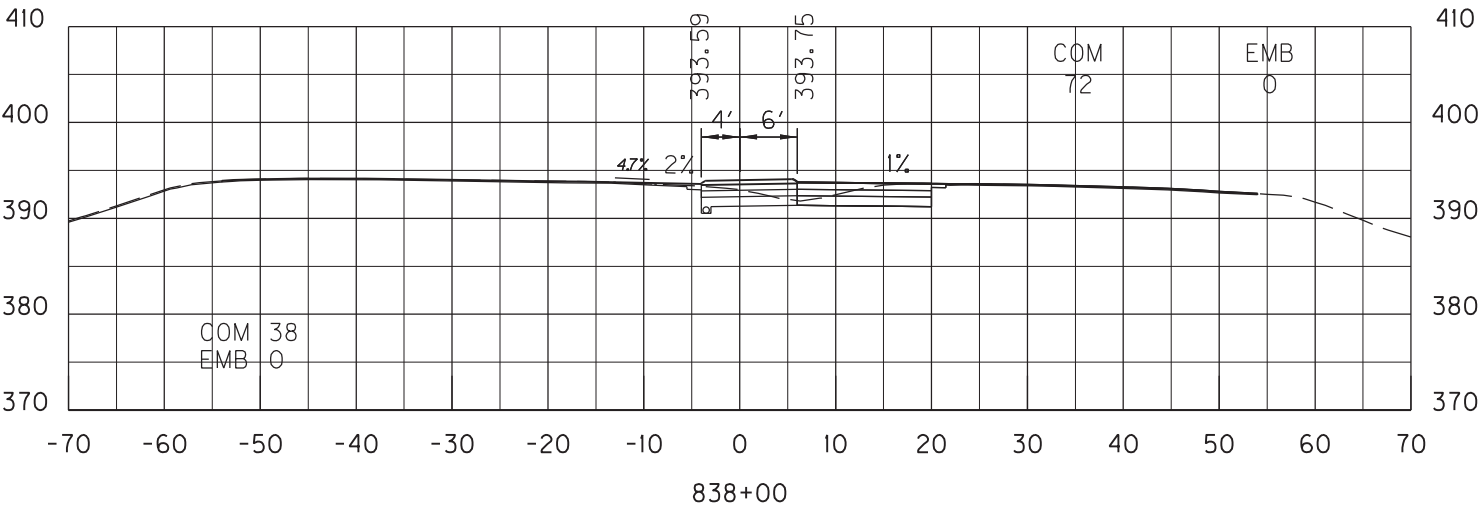
COUNTY OF	ITEM NO.
DAVIESS	2-936.00



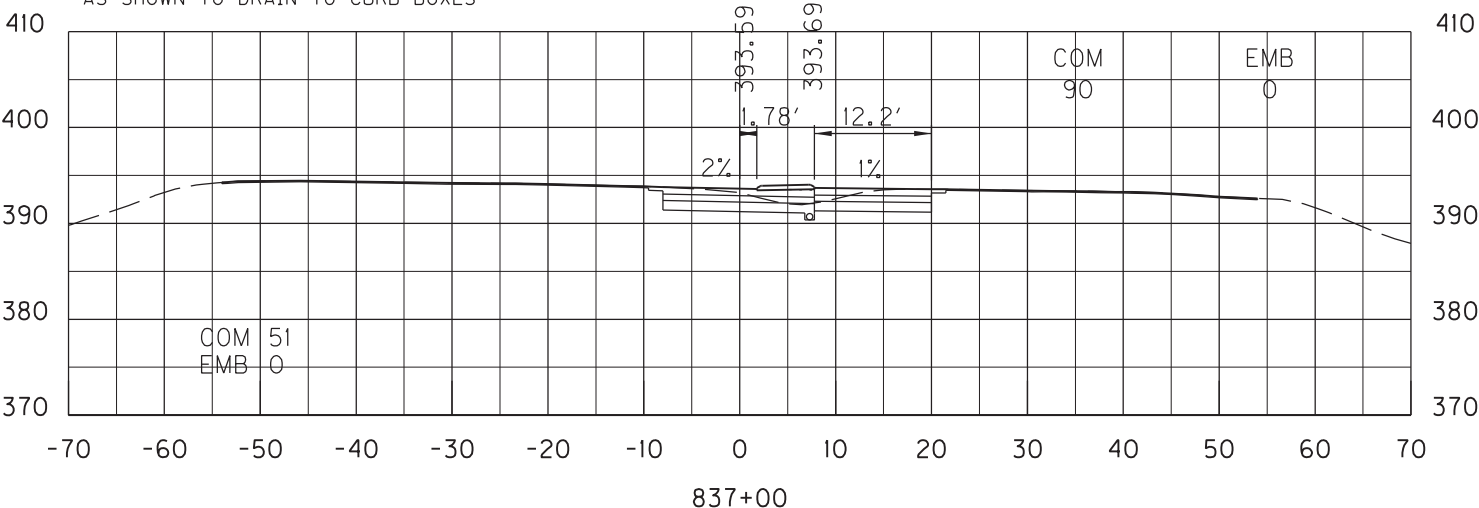
US 60 AT WRIGHTS LANDING RD
STA. 835+50 TO STA. 836+50
CROSS SECTIONS

SCALE: 1"=20'

COUNTY OF	ITEM NO.
DAVIESS	2-936.00



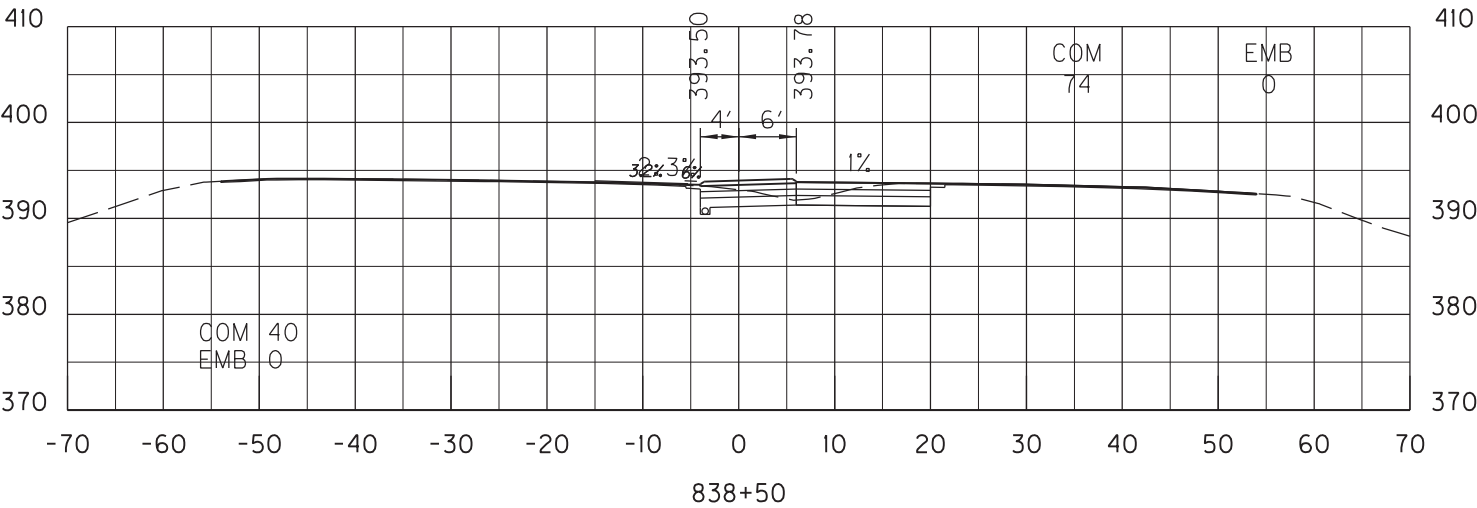
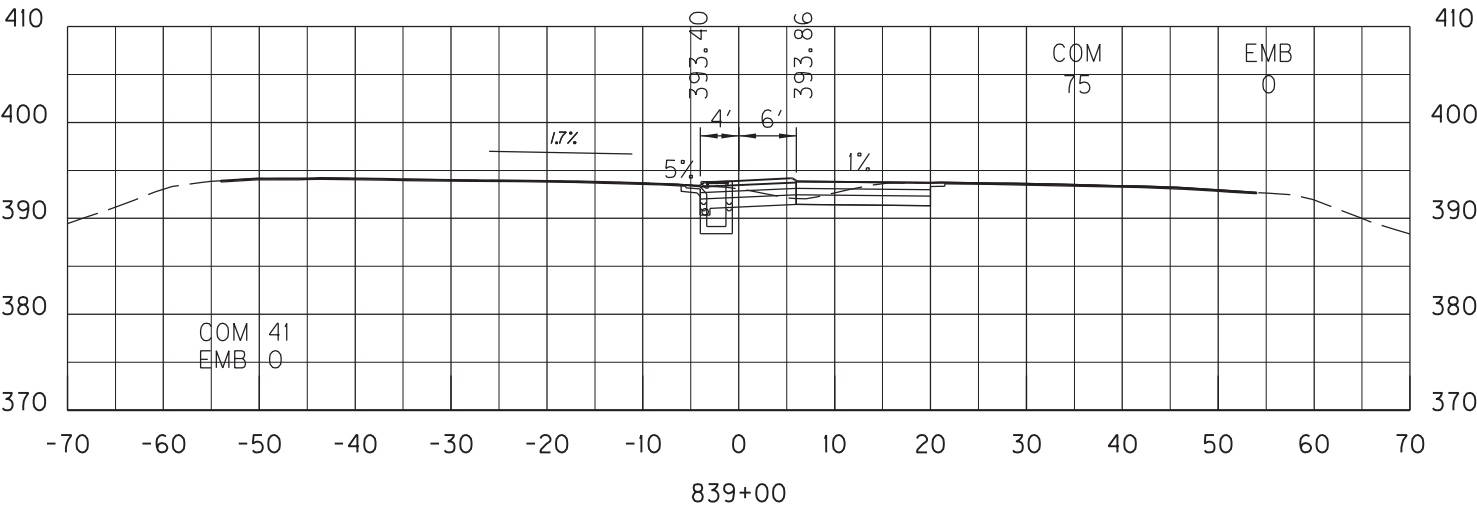
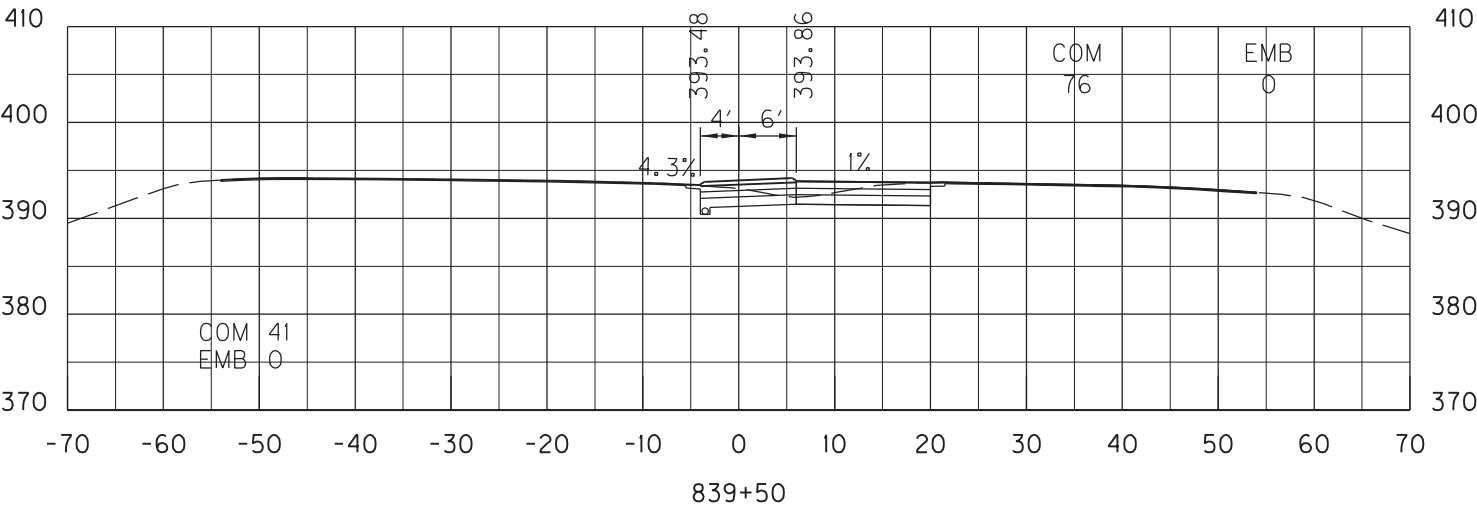
LT STA. 837+50 TO STA. 842+58.50 USE LEVELING
AND WEDGING AND SHOULDER MILLING AS NEEDED
TO CONSTRUCT PAVEMENT ELEVATIONS AND SLOPES
AS SHOWN TO DRAIN TO CURB BOXES



SCALE: 1"= 20'

US 60 AT WRIGHTS LANDING RD
STA. 837+00 TO STA. 838+00
CROSS SECTIONS

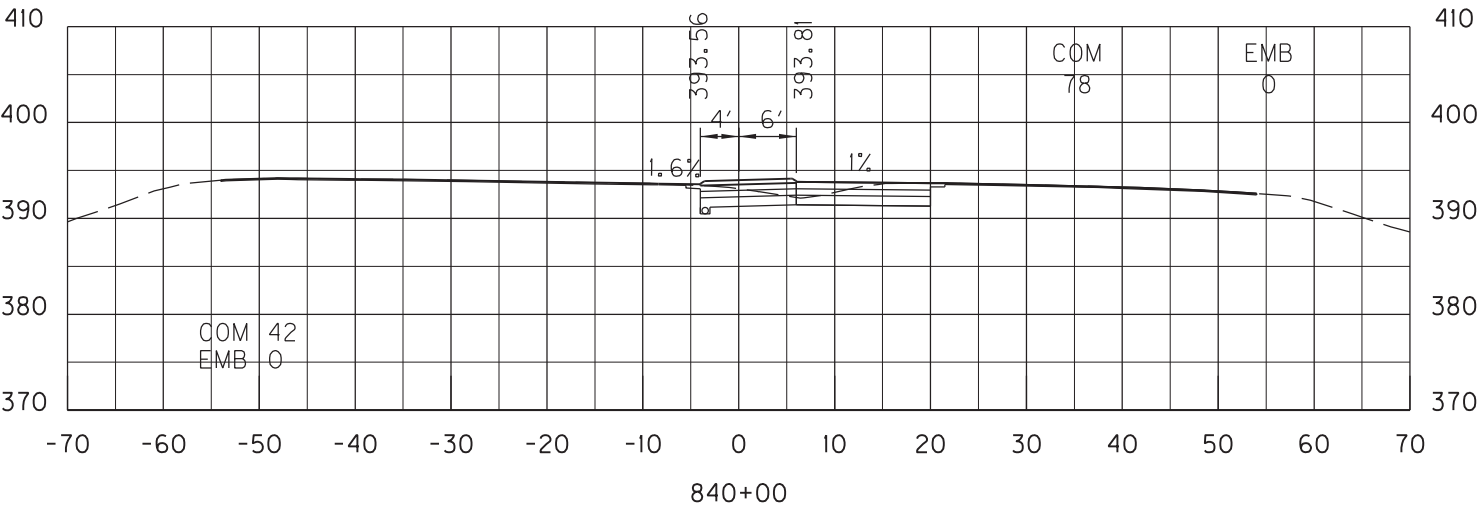
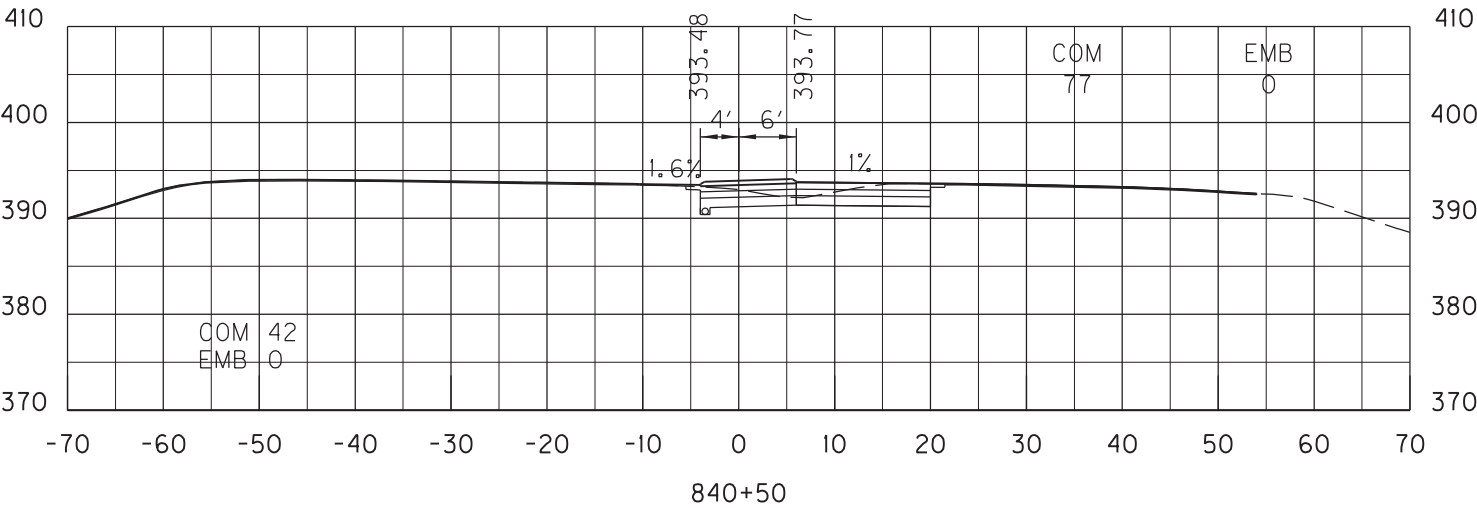
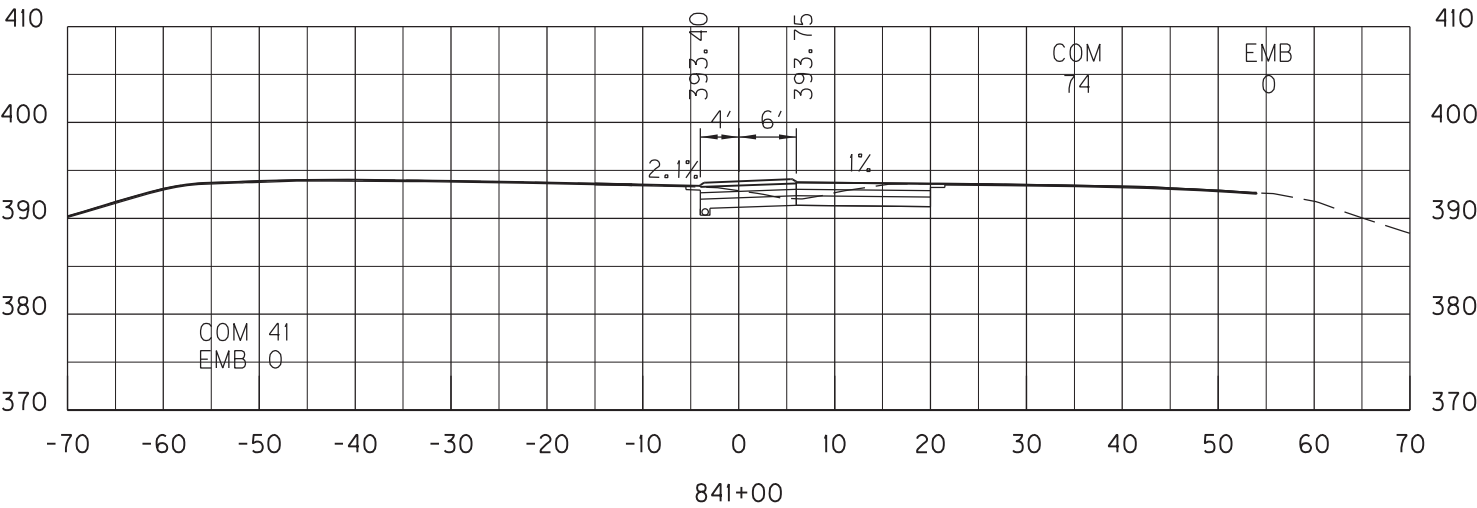
COUNTY OF	ITEM NO.
DAVIESS	2-936.00



US 60 AT WRIGHTS LANDING RD
STA. 838+50 TO STA. 839+50
CROSS SECTIONS

SCALE: 1"=20'

COUNTY OF	ITEM NO.
DAVIESS	2-936.00

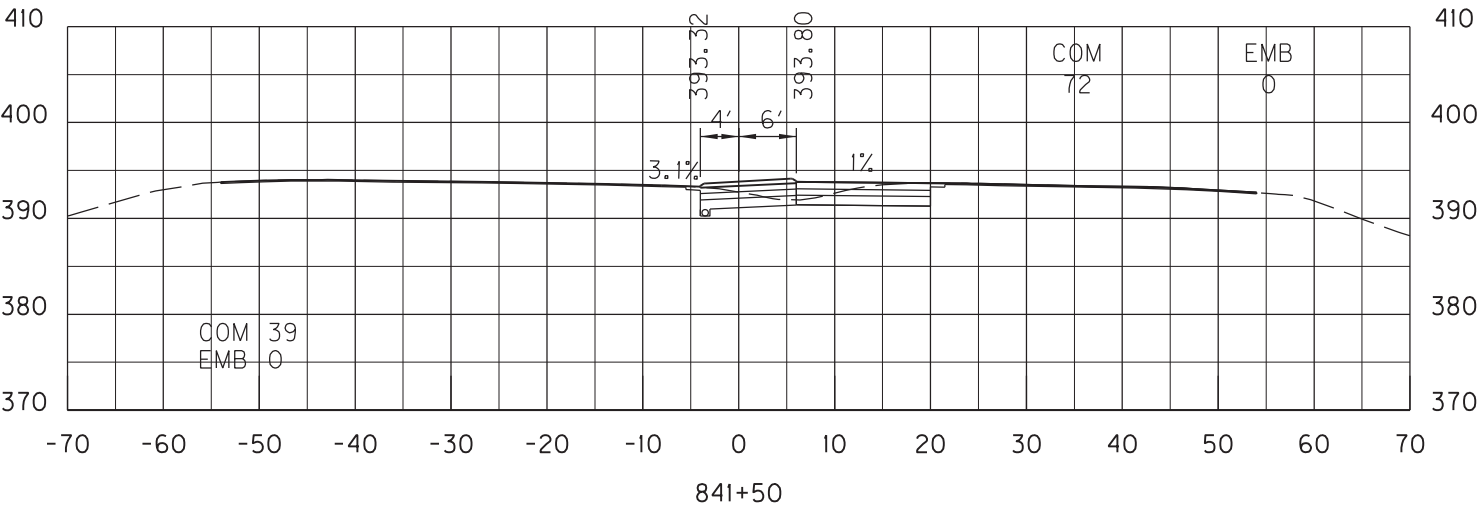
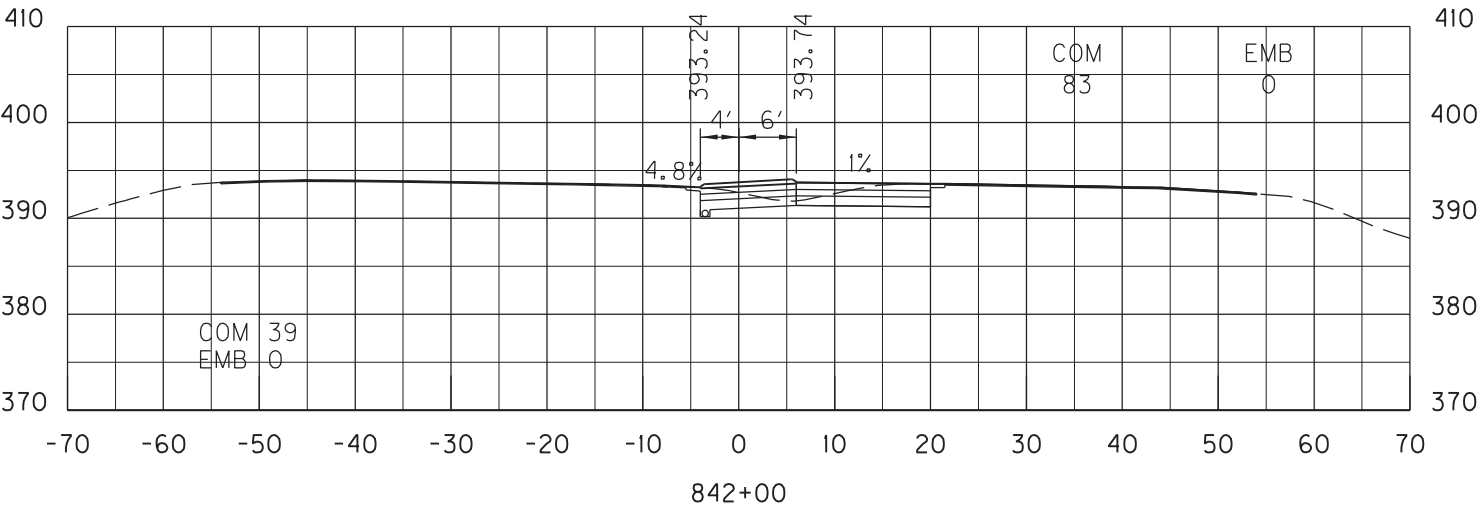
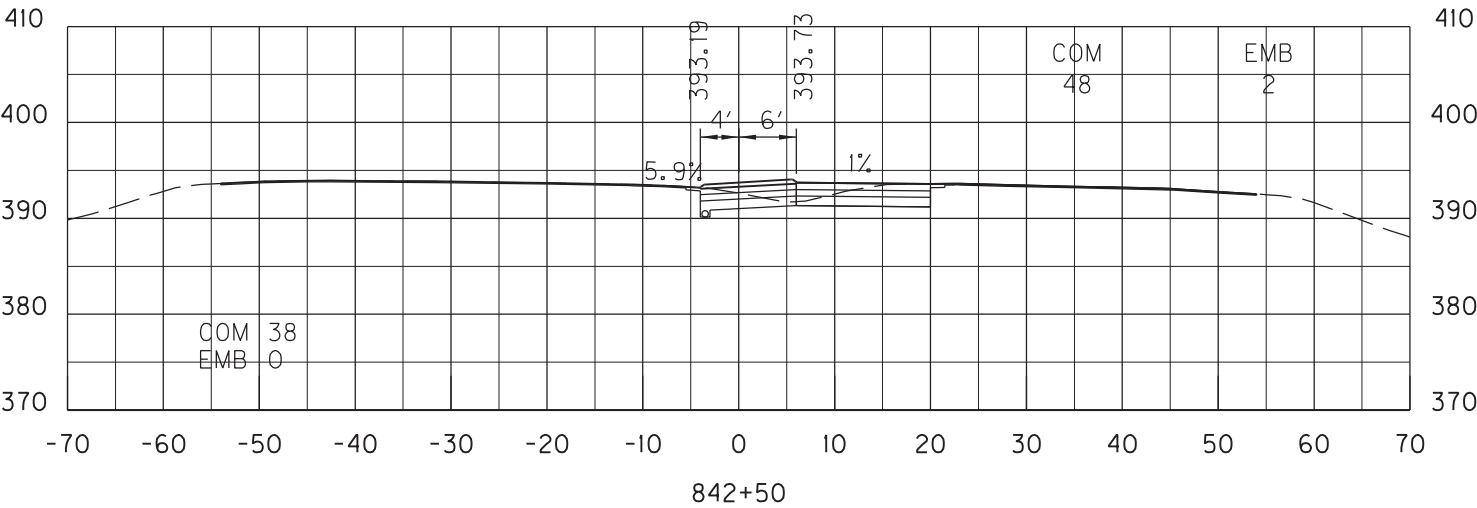


US 60 AT WRIGHTS LANDING RD
STA. 840+00 TO STA. 841+00
CROSS SECTIONS

SCALE: 1"=20'

COUNTY OF	ITEM NO.
DAVIESS	2-936.00

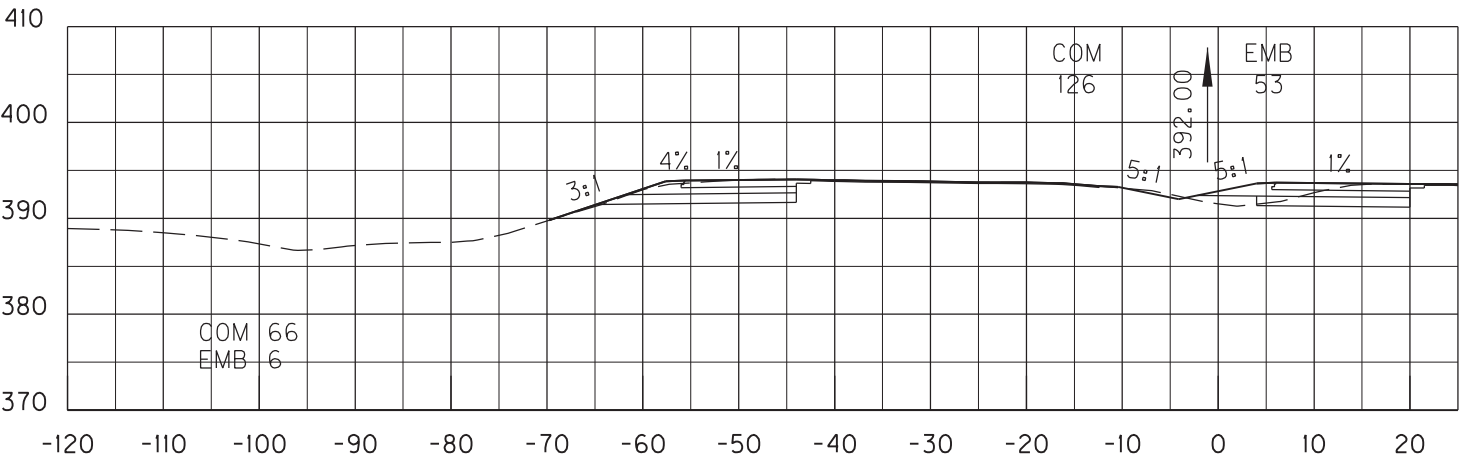
LT AND RT STA. 842+58.50 END MEDIAN FULL DEPTH
PAVEMENT AND CONTINUE LANE FOR MEDIAN U-TURN



US 60 AT WRIGHTS LANDING RD
STA. 841+50 TO STA. 842+50
CROSS SECTIONS

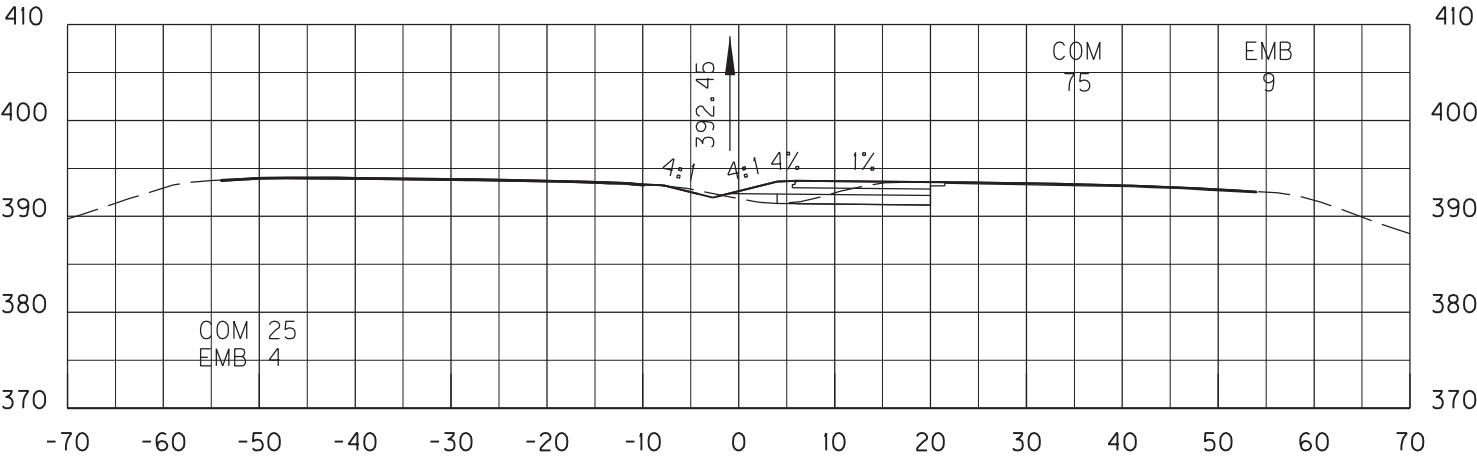
SCALE: 1"= 20'

COUNTY OF	ITEM NO.
DAVIESS	2-936.00

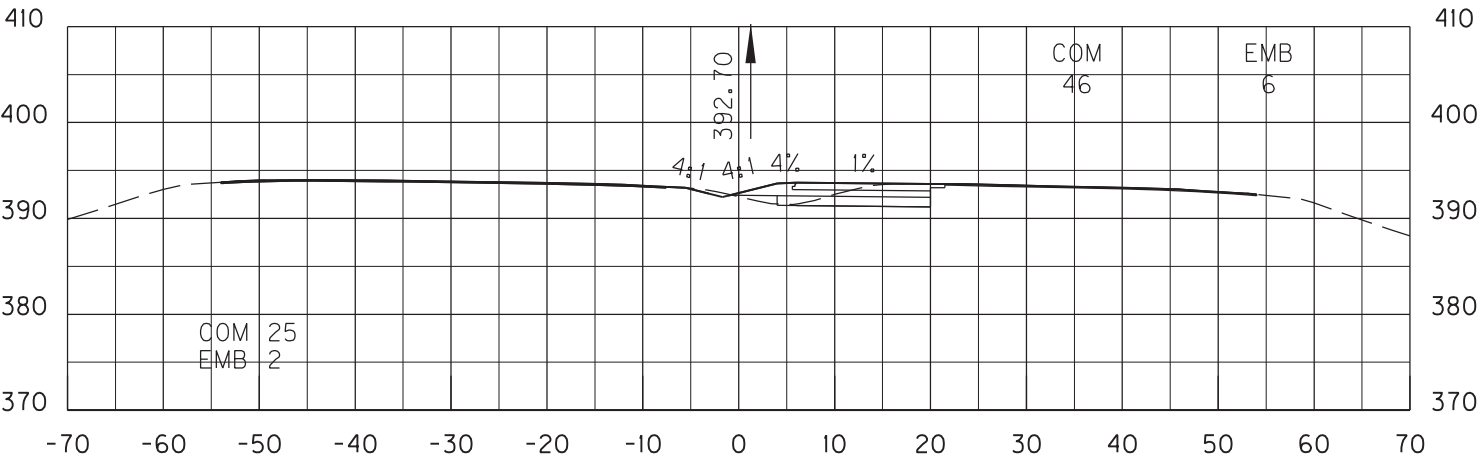


LT STA. 843+61.61 BEGIN FULL DEPTH
PAVEMENT WIDENING FOR LOON #4

844+00



843+50



843+00

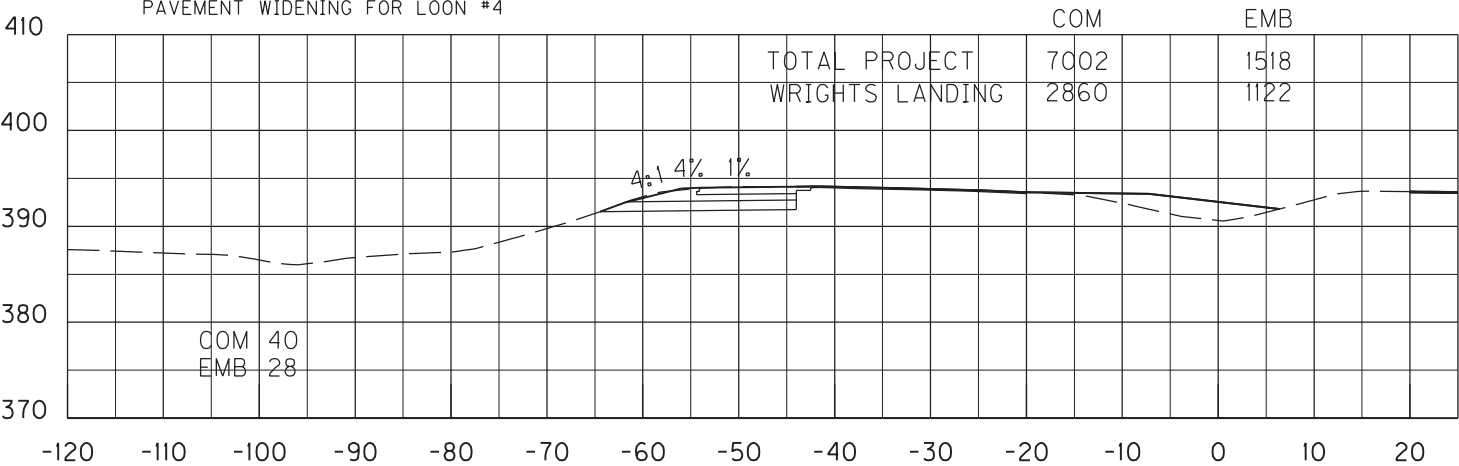
SCALE: 1"= 20'

US 60 AT WRIGHTS LANDING RD
STA. 843+00 TO STA. 844+00
CROSS SECTIONS

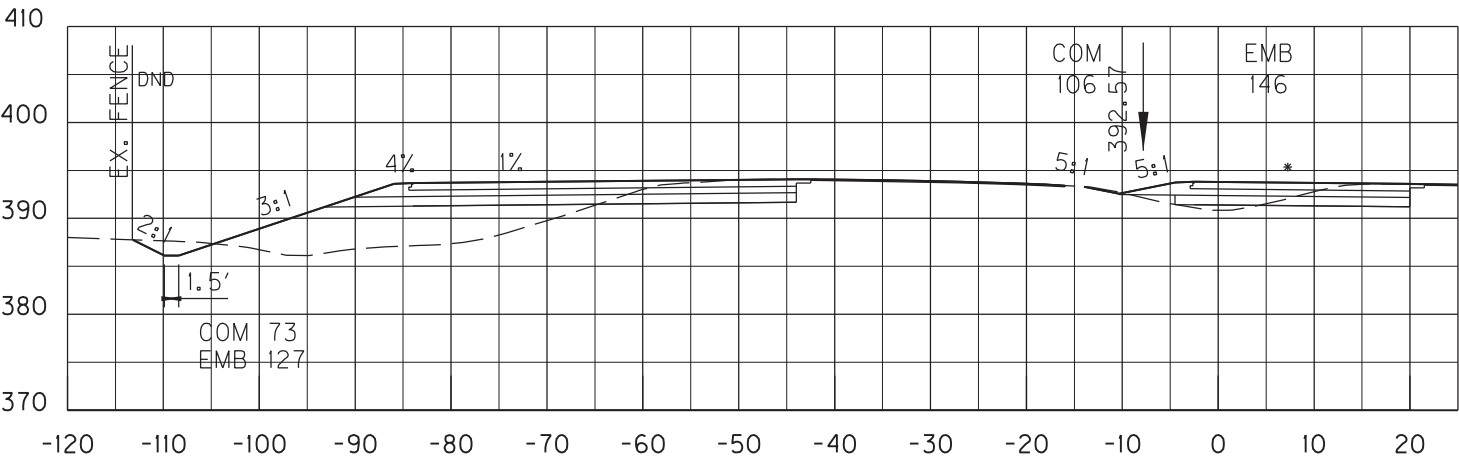
COUNTY OF	ITEM NO.
DAVIESS	2-936.00

LT STA. 845+53.07 END FULL DEPTH
PAVEMENT WIDENING FOR LOON #4

LT AND RT STA. 845+70.00 END 1.5" ASPHALT
MILLING AND OVERLAY PAVEMENT

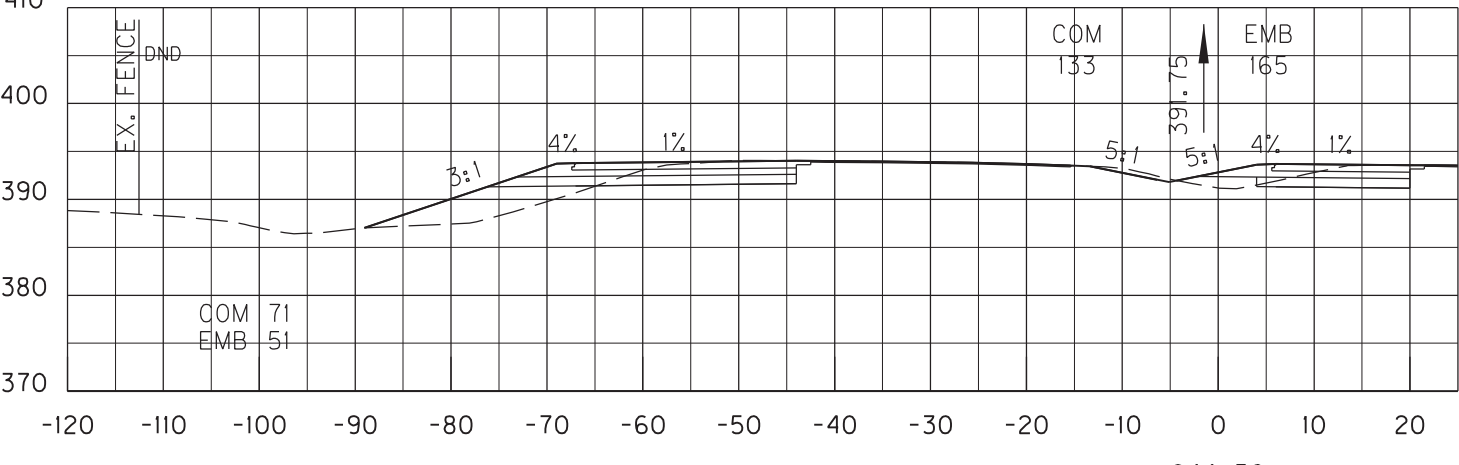


RT STA. 845+29.43 AND LT STA. 845+54.06 END FULL DEPTH
PAVEMENT WIDENING FOR MEDIAN U-TURN AND LEFT TURN LANE



*SEE PAVEMENT DEVELOPMENT SHEET 845+00

DBI STA. 844+75
T/G 391.34



US 60 AT WRIGHTS LANDING RD
STA. 844+50 TO STA. 845+50
CROSS SECTIONS

SCALE: 1"= 20'

GUARDRAIL DELIVERY VERIFICATION SHEET

Contract Id: _____ Contractor: _____

Section Engineer: _____ District & County: _____

DESCRIPTION	UNIT	QTY LEAVING PROJECT	QTY RECEIVED@BB YARD
GUARDRAIL (Includes End treatments & crash cushions)	LF	_____	_____
STEEL POSTS	EACH	_____	_____
STEEL BLOCKS	EACH	_____	_____
WOOD OFFSET BLOCKS	EACH	_____	_____
BACK UP PLATES	EACH	_____	_____
CRASH CUSHION	EACH	_____	_____
NUTS, BOLTS, WASHERS	BAG/BCKT	_____	_____
DAMAGED RAIL TO MAINT. FACILITY	LF	_____	_____
DAMAGED POSTS TO MAINT. FACILITY	EACH	_____	_____

***Required Signatures before Leaving Project Site**

Printed Section Engineer’s Representative_____ & Date_____

Signature Section Engineer’s Representative_____ & Date_____

Printed Contractor’s Representative_____ & Date_____

Signature Contractor’s Representative_____ & Date_____

***Required Signatures after Arrival at Bailey Bridge Yard (All material on truck must be counted & the quantity received column completed before signatures)**

Printed Bailey Bridge Yard Representative_____ & Date_____

Signature Bailey Bridge Yard Representative_____ & Date_____

Printed Contractor’s Representative_____ & Date_____

Signature Contractor’s Representative_____ & Date_____

**Payment for the bid item remove guardrail will be based upon the quantities shown in the Bailey Bridge Yard received column. Payment will not be made for guardrail removal until the guardrail verification sheets are electronically submitted to the Section Engineer by the Bailey Bridge Yard Representative.

Completed Form Submitted to Section Engineer Date: _____ By: _____

PART II

SPECIFICATIONS AND STANDARD DRAWINGS

STANDARD SPECIFICATIONS

Any reference in the plans or proposal to previous editions of the *Standard Specifications for Road and Bridge Construction* and *Standard Drawings* are superseded by *Standard Specifications for Road and Bridge Construction, Edition of 2019* and *Standard Drawings, Edition of 2020*.

SUPPLEMENTAL SPECIFICATIONS

The contractor shall use the Supplemental Specifications that are effective at the time of letting. The Supplemental Specifications can be found at the following link:
<http://transportation.ky.gov/Construction/Pages/Kentucky-Standard-Specifications.aspx>

SPECIAL NOTE FOR BARCODE LABEL ON PERMANENT SIGNS

1.0 DESCRIPTION. Install barcode label on sheeting signs. Section references herein are to the Department’s Standard Specifications for Road and Bridge Construction, current edition.

2.0 MATERIALS. The Department will provide the Contractor with a 2 inch x 1 inch foil barcode label for each permanent sheeting sign. A unique number will be assigned to each barcode label.

The Contractor shall contact the Operations and Pavement Management Branch in the Division of Maintenance at (502) 564-4556 to obtain the barcode labels.

3.0 CONSTRUCTION. Apply foil barcode label in the lower right quadrant of the sign back. Signs where the bottom edge is not parallel to the ground, the lowest corner of the sign shall serve as the location to place the barcode label. The barcode label shall be placed no less than one-inch and no more than three inches from any edge of the sign. The barcode must be placed so that the sign post does not cover the barcode label.

Barcodes shall be applied in an indoor setting with a minimum air temperature of 50°F or higher. Prior to application of the barcode label, the back of the sign must be clean and free of dust, oil, etc. If the sign is not clean, an alcohol swab shall be used to clean the area. The area must be allowed to dry prior to placement of the barcode label.

Data for each sign shall include the barcode number, MUTCD reference number, sheeting manufacturer, sheeting type, manufacture date, color of primary reflective surface, installation date, latitude and longitude using the North American Datum of 1983 (NAD83) or the State Plane Coordinates using an x and y ordinate of the installed location.

Data should be provided electronically on the TC 71-229 Sign Details Information and TC 71-230 Sign Assembly Information forms. The Contractor may choose to present the data in a different format provided that the information submitted to the Department is equivalent to the information required on the Department TC forms. The forms must be submitted in electronic format regardless of which type of form is used. The Department will not accept PDF or handwritten forms. These completed forms must be submitted to the Department prior to final inspection of the signs. The Department will not issue formal acceptance for the project until the TC 71-229 and TC-230 electronic forms are completed for all signs and sign assemblies on the project.

4.0 MEASUREMENT. The Department will measure all work required for the installation of the barcode label and all work associated with completion and submission of the sign inventory data (TC 71-229 and TC 71-230).

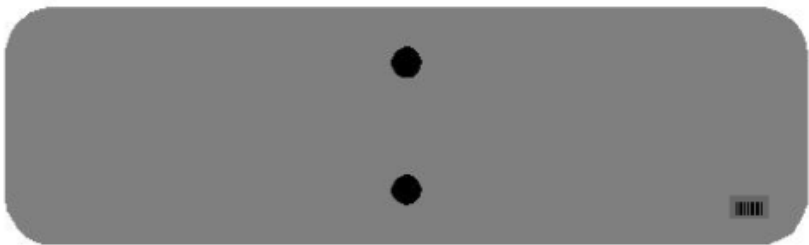
The installation of the permanent sign will be measured in accordance to Section 715.

5.0 PAYMENT. The Department will make payment for the completed and accepted quantities under the following:

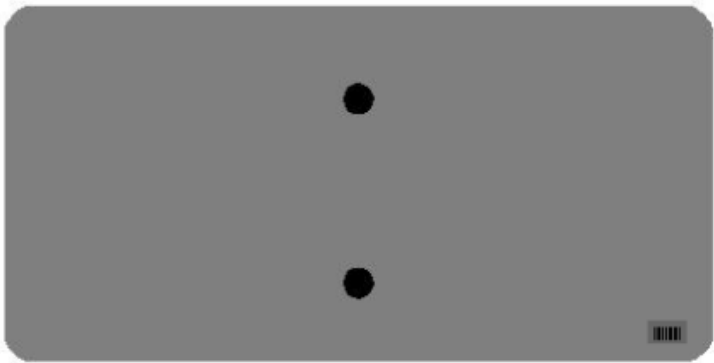
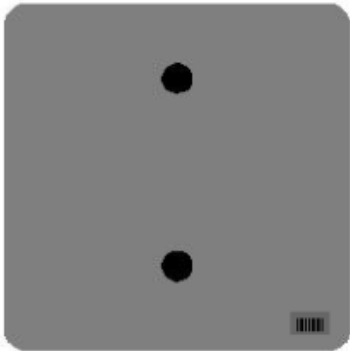
<u>Code</u>	<u>Pay Item</u>	<u>Pay Unit</u>
24631EC	Barcode Sign Inventory	Each

The Department will not make payment for this item until all barcodes are installed and sign inventory is complete on every permanent sign installed on the project. The Department will make payment for installation of the permanent sign in accordance to Section 715. The Department will consider payment as full compensation for all work required under this special note.

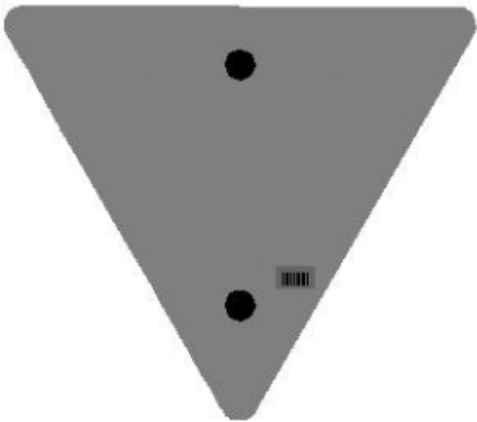
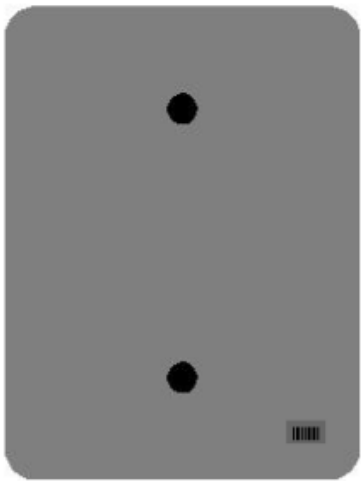
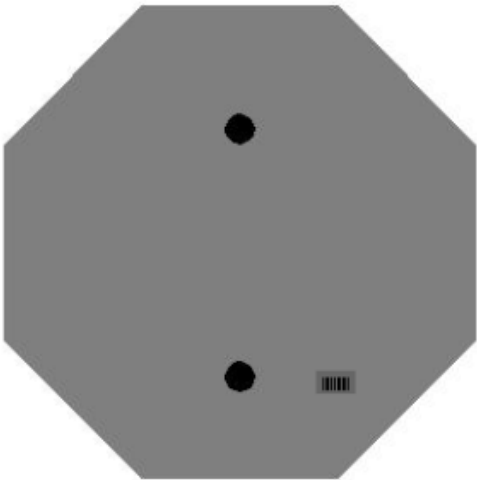
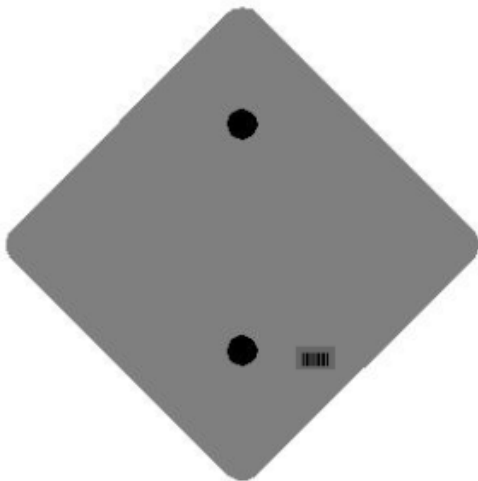
One Sign Post



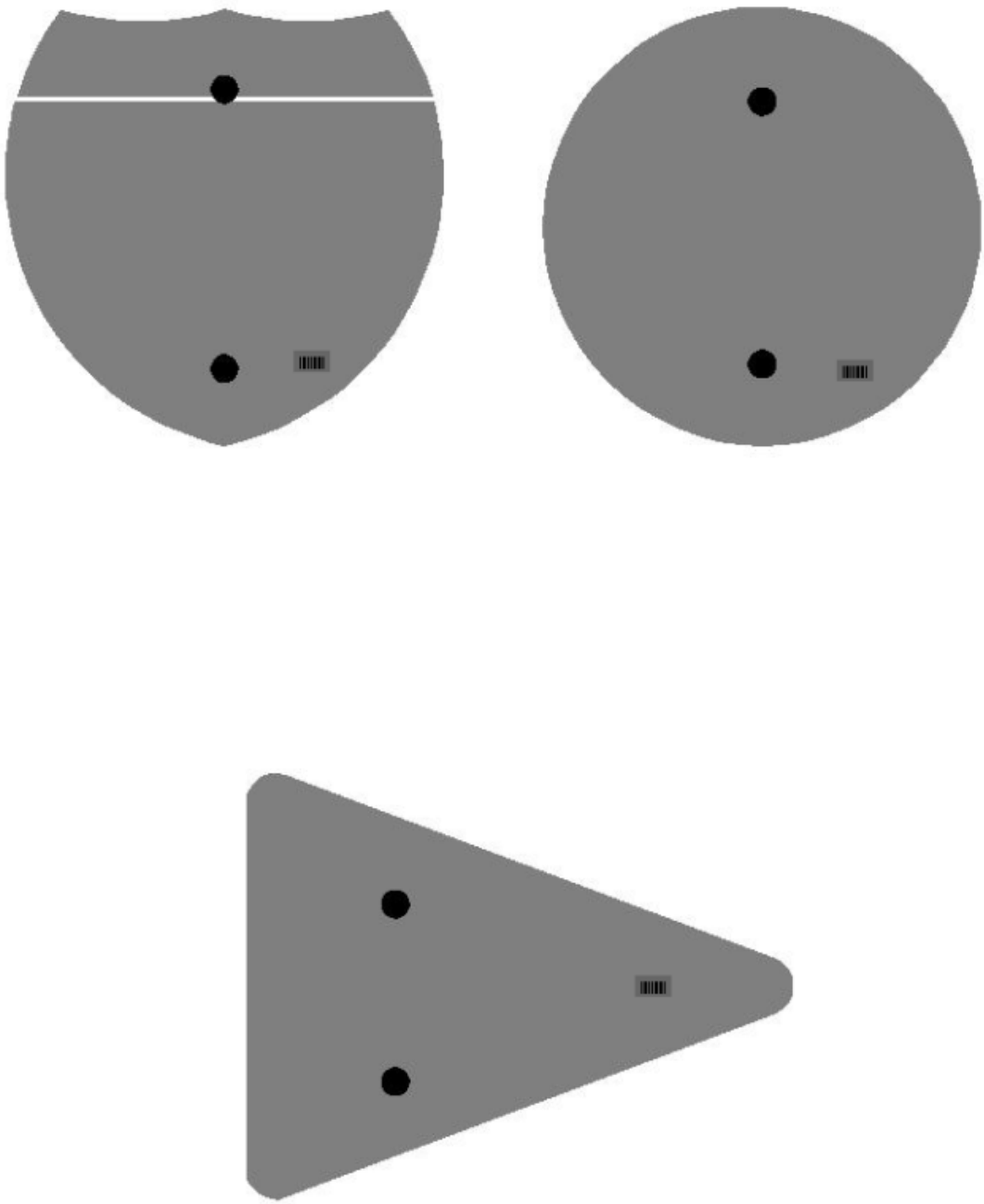
↑
2" Wide Post



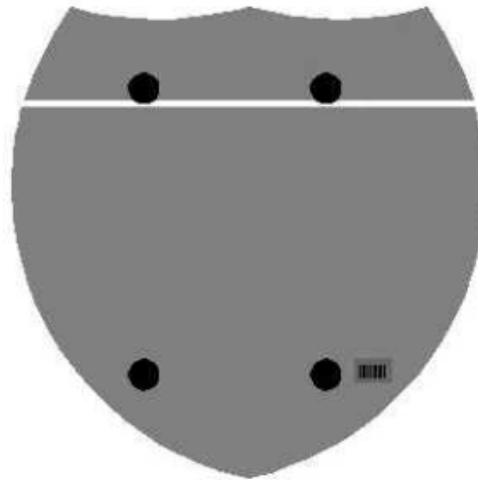
One Sign Post



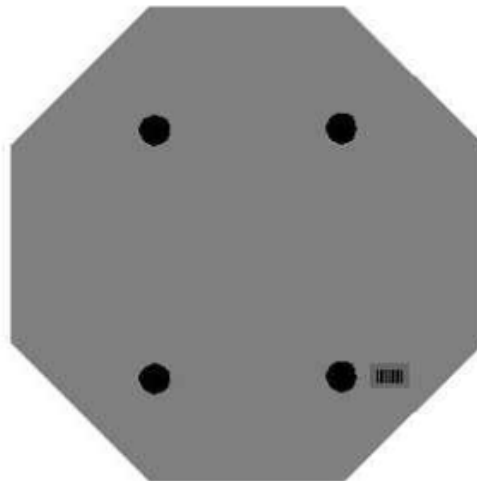
One Sign Post



Double Sign Post

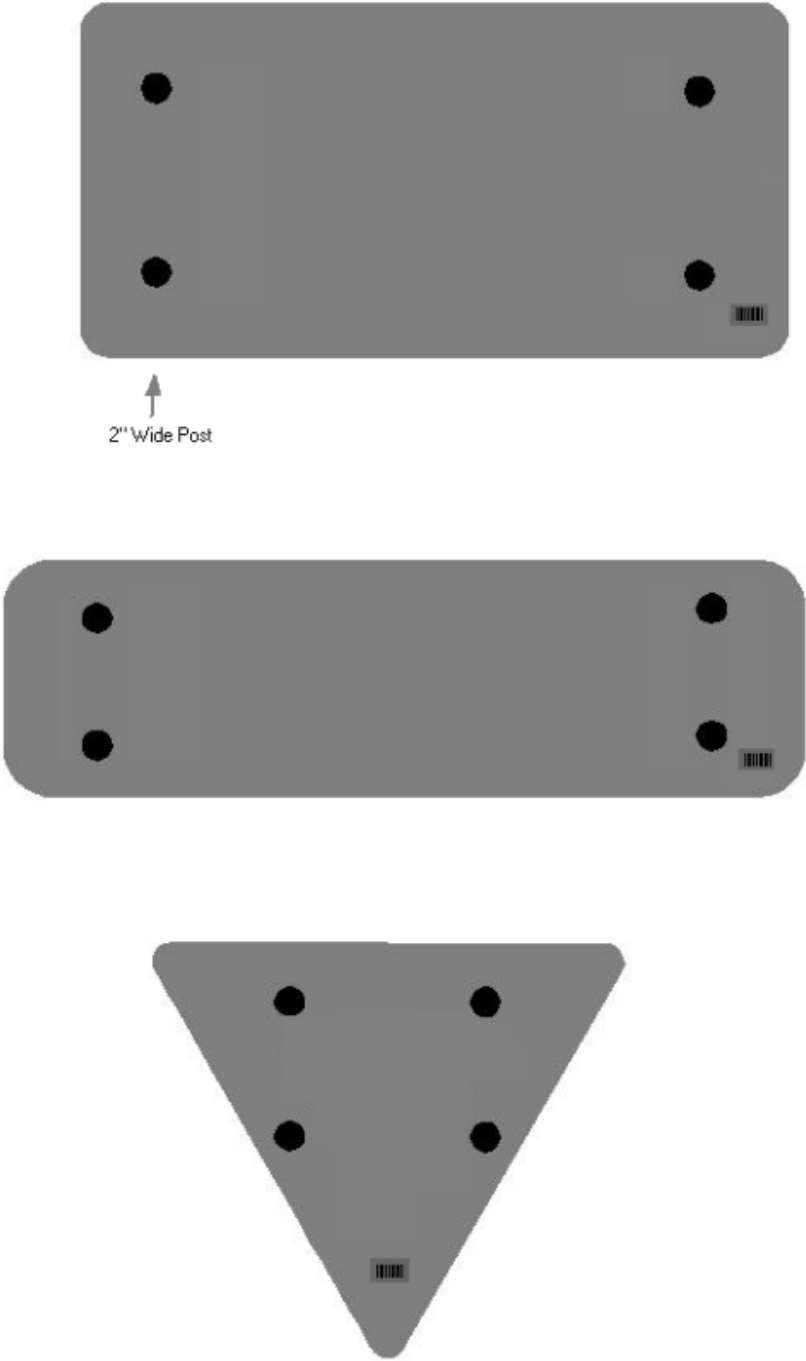


Interstate
Shield



48" Stop

2 Post Signs



2020 STANDARD DRAWINGS THAT APPLY

ROADWAY	
~ BARRIERS ~	
TYPICAL BARRIER INSTALLATIONS	
TYPICAL GUARDRAIL INSTALLATIONS.....	RBI-001-12
TYPICAL GUARDRAIL INSTALLATIONS.....	RBI-002-07
TYPICAL INSTALLATION FOR GUARDRAIL END TREATMENT TYPE 2A.....	RBI-003-09
GUARDRAIL HARDWARE	
STEEL BEAM GUARDRAIL (W-BEAM).....	RBR-001-13
GUARDRAIL COMPONENTS	RBR-005-11
GUARDRAIL SYSTEM TRANSITION	RBR-018
GUARDRAIL END TREATMENT TYPE 2A.....	RBR-025-06
DELINEATORS FOR GUARDRAIL.....	RBR-005-01
~ DRAINAGE ~	
BOX INLETS AND OUTLETS	
DROP BOXES	
DROP BOX INLET TYPE 5A-5B-5C-5D-5E & 5F.....	RDB-005-09
CURB BOXES	
CURB BOX INLET TYPE A (DETAIL DRAWING).....	RDB-270-09
CURB BOX INLET TYPE A (STEEL DRAWING).....	RDB-271-05
CURB BOX INLET TYPE A (TOP PHASE TABLES).....	RDB-272-07
CURB BOX INLET TYPE A (DETAIL & BAR CHART FOR 8" LID)	RDB-273-06
TYPICAL DRAINAGE INSTALLATIONS	
CULVERT, ENTRANCE & STORM SEWER PIPE TYPES & COVER HEIGHTS (12" – 24" PIPE)	RDI-001-10
CULVERT, ENTRANCE & STORM SEWER PIPE TYPES & COVER HEIGHTS (27" – 42" PIPE)	RDI-002-05
PIPE BEDDING FOR CULVERTS, ENTRANCE, AND STORM SEWER PIPE	RDI-020-10
PIPE BEDDING FOR CULVERTS, ENTRANCE, AND STORM SEWER, REINFORCED CONC. PIPE.....	RDI-021-01
PIPE BEDDING, TRENCH CONDITION	RDI-025-06
PIPE BEDDING, TRENCH CONDITION, REINFORCED CONC. PIPE.....	RDI-026-01
EROSION CONTROL BLANKET SLOPE INSTALLATION.....	RDI-040-01
EROSION CONTROL BLANKET CHANNEL INSTALLATION	RDI-041-01
TYPICAL MEDIAN DRAIN INSTALLATIONS.....	RDI-045-02
PERFORATED PIPE	
PERFORATED PIPE TYPES AND COVER HEIGHTS.....	RDP-001-06
PERFORATED PIPE FOR SUBGRADE DRAINAGE ON TWO-LANE (CLASS 2) AND MULTI-LANE ROADS	RDP-005-05
PERFORATED PIPE UNDERDRAINS (LONGITUDINAL AND TRANSVERSE)	RDP-006-04
PERFORATED PIPE DETAILS (SOLID ROCK).....	RDP-007-04
PERFORATED PIPE HEADWALLS	RDP-010-09

Standard Drawings That Apply
Page 2 of 2

MISCELLANEOUS DRAINAGE

TEMPORARY SILT FENCE.....	RDY-210-03
TEMPORARY SILT FENCE WITH WOVEN WIRE FENCE FABRIC.....	RDY-215-01
SILT TRAP - TYPE A	RDY-220-05
SILT TRAP - TYPE B	RDY-225-01
SILT TRAP - TYPE C	RDY-230-01

~ FENCES AND GATES ~
WOVEN WIRE FENCE

FENCING DETAILS	RFW-001-06
WOVEN WIRE FENCE TYPE 1	RFW-005-08

~ GENERAL ~
MISCELLANEOUS STANDARDS

MISCELLANEOUS STANDARDS.....	RGX-001-06
TYPE D BREAKAWAY SIGN SUPPORT	RGX-065-02

~ PAVEMENT ~
MEDIANS, CURBS, APPROACHES, ENTRANCES, ETC.

STANDARD BARRIER MEDIAN.....	RPM-010-06
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TRAFFIC
~ PERMANENT ~
MARKERS

INLAID PAVEMENT MARKER ARRANGEMENTS MULTI-LANE ROADWAYS.....	Sepia 007
TYPICAL MARKINGS FOR ISLANDS AND MEDIANS	TPM-205
TYPICAL MARKINGS FOR TURN LANES PAGE 1.....	TPM-206
TYPICAL MARKINGS FOR TURN LANES PAGE 2.....	TPM-207

RUMBLE STRIPS

SHOULDER & EDGELINE RUMBLE STRIPS PLACEMENT DETAILS	TPR-115
RUMBLE STRIP DETAILS MULTI-LANE ROADWAYS AND RAMPS.....	TPR-130

~ TEMPORARY ~
TRAFFIC CONTROL

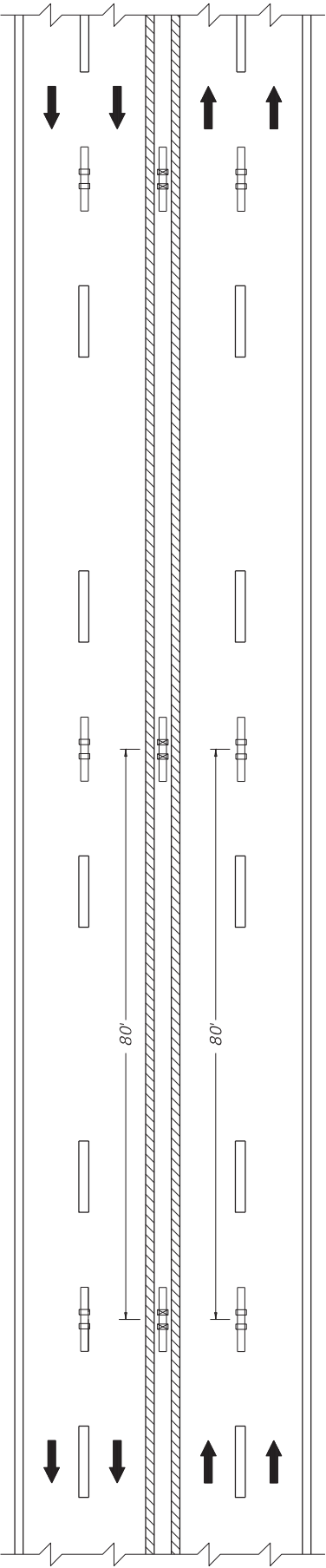
LANE CLOSURE MULTI-LANE HIGHWAY CASE I	TTC-115-04
SHOULDER CLOSURE	TTC-135-03

DEVICES

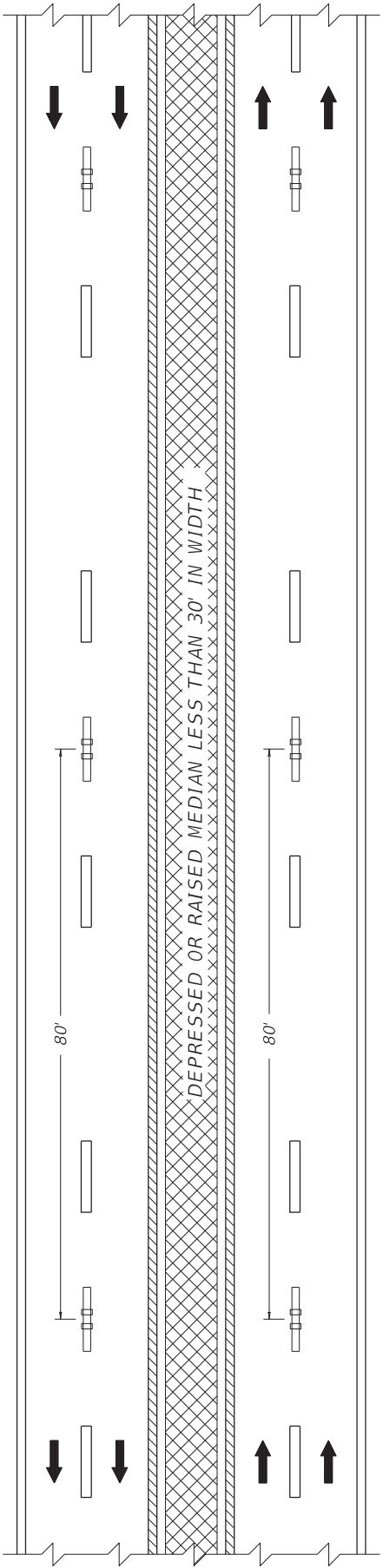
SPEED ZONE SIGNING FOR WORK ZONES	TTD-130
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STRIPING OPERATIONS

MOBILE OPERATION FOR DURABLE STRIPING CASE I	TTS-120-02
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ARRANGEMENT "A" (UNDIVIDED HIGHWAY)



ARRANGEMENT "B" (DIVIDED HIGHWAY WITH DEPRESSED OR RAISED MEDIAN LESS THAN 30' IN WIDTH)

- ~ NOTES ~
1. MARKERS INSTALLED WITH DOUBLE YELLOW CENTERLINES SHOULD BE PLACED BETWEEN THE TWO LINES.
 2. MARKERS INSTALLED ALONG LANE LINES SHOULD BE PLACED BETWEEN AND IN LINE WITH THE SKIPS.
 3. MARKERS SHALL NOT BE INSTALLED ON TOP OF THE PAVEMENT JOINT. OFFSET MARKERS A MINIMUM OF 2" FROM THE PAVEMENT JOINT. ENSURE THAT THE FINISHED LINE OF MARKERS IS STRAIGHT WITH MINIMAL LATERAL DEVIATION. MARKERS MAY BE ELIMINATED OR PLACEMENT ADJUSTED AT THE DISCRETION OF THE ENGINEER.
 4. MARKERS SHALL BE INSTALLED AT 40' SPACING ALONG SOLID WHITE AUXILIARY LANES. MARKER COLOR SHALL MATCH THE MARKERS INSTALLED ALONG THE WHITE LANE LINES.
- BID ITEMS
06610 - INLAID PAVEMENT MARKER - MW
06612 - INLAID PAVEMENT MARKER - BY
- UNIT TO BID
EACH
EACH

LEGEND	
	BI-DIRECTIONAL PAVEMENT MARKER (YELLOW)
	MONO-DIRECTIONAL PAVEMENT MARKER (WHITE)
	MARKINGS (YELLOW)
	MARKINGS (WHITE)
	DEPRESSED OR RAISED MEDIAN

DRAWING NOT TO SCALE

KENTUCKY
DEPARTMENT OF HIGHWAYS
INLAID PAVEMENT MARKER ARRANGEMENTS
MULTI-LANE ROADWAYS

SUBMITTED	06-09-21
DIVISION DIRECTOR	DATE
006	

PART III

EMPLOYMENT, WAGE AND RECORD REQUIREMENTS

FHWA-1273 – Revised October 23, 2023

REQUIRED CONTRACT PROVISIONS FEDERAL-AID CONSTRUCTION CONTRACTS

- I. General
- II. Nondiscrimination
- III. Non-segregated Facilities
- IV. Davis-Bacon and Related Act Provisions
- V. Contract Work Hours and Safety Standards Act Provisions
- VI. Subletting or Assigning the Contract
- VII. Safety: Accident Prevention
- VIII. False Statements Concerning Highway Projects
- IX. Implementation of Clean Air Act and Federal Water Pollution Control Act
- X. Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion
- XI. Certification Regarding Use of Contract Funds for Lobbying
- XII. Use of United States-Flag Vessels:

ATTACHMENTS

A. Employment and Materials Preference for Appalachian Development Highway System or Appalachian Local Access Road Contracts (included in Appalachian contracts only)

I. GENERAL

1. Form FHWA-1273 must be physically incorporated in each construction contract funded under title 23, United States Code, as required in 23 CFR 633.102(b) (excluding emergency contracts solely intended for debris removal). The contractor (or subcontractor) must insert this form in each subcontract and further require its inclusion in all lower tier subcontracts (excluding purchase orders, rental agreements and other agreements for supplies or services). 23 CFR 633.102(e).

The applicable requirements of Form FHWA-1273 are incorporated by reference for work done under any purchase order, rental agreement or agreement for other services. The prime contractor shall be responsible for compliance by any subcontractor, lower-tier subcontractor or service provider. 23 CFR 633.102(e).

Form FHWA-1273 must be included in all Federal-aid design-build contracts, in all subcontracts and in lower tier subcontracts (excluding subcontracts for design services, purchase orders, rental agreements and other agreements for supplies or services) in accordance with 23 CFR 633.102. The design-builder shall be responsible for compliance by any subcontractor, lower-tier subcontractor or service provider.

Contracting agencies may reference Form FHWA-1273 in solicitation-for-bids or request-for-proposals documents, however, the Form FHWA-1273 must be physically incorporated (not referenced) in all contracts, subcontracts and lower-tier subcontracts (excluding purchase orders, rental agreements and other agreements for supplies or services related to a construction contract). 23 CFR 633.102(b).

2. Subject to the applicability criteria noted in the following sections, these contract provisions shall apply to all work

performed on the contract by the contractor's own organization and with the assistance of workers under the contractor's immediate superintendence and to all work performed on the contract by piecework, station work, or by subcontract. 23 CFR 633.102(d).

3. A breach of any of the stipulations contained in these Required Contract Provisions may be sufficient grounds for withholding of progress payments, withholding of final payment, termination of the contract, suspension / debarment or any other action determined to be appropriate by the contracting agency and FHWA.

4. Selection of Labor: During the performance of this contract, the contractor shall not use convict labor for any purpose within the limits of a construction project on a Federal-aid highway unless it is labor performed by convicts who are on parole, supervised release, or probation. 23 U.S.C. 114(b). The term Federal-aid highway does not include roadways functionally classified as local roads or rural minor collectors. 23 U.S.C. 101(a).

II. NONDISCRIMINATION (23 CFR 230.107(a); 23 CFR Part 230, Subpart A, Appendix A; EO 11246)

The provisions of this section related to 23 CFR Part 230, Subpart A, Appendix A are applicable to all Federal-aid construction contracts and to all related construction subcontracts of \$10,000 or more. The provisions of 23 CFR Part 230 are not applicable to material supply, engineering, or architectural service contracts.

In addition, the contractor and all subcontractors must comply with the following policies: Executive Order 11246, 41 CFR Part 60, 29 CFR Parts 1625-1627, 23 U.S.C. 140, Section 504 of the Rehabilitation Act of 1973, as amended (29 U.S.C. 794), Title VI of the Civil Rights Act of 1964, as amended (42 U.S.C. 2000d et seq.), and related regulations including 49 CFR Parts 21, 26, and 27; and 23 CFR Parts 200, 230, and 633.

The contractor and all subcontractors must comply with: the requirements of the Equal Opportunity Clause in 41 CFR 60-1.4(b) and, for all construction contracts exceeding \$10,000, the Standard Federal Equal Employment Opportunity Construction Contract Specifications in 41 CFR 60-4.3.

Note: The U.S. Department of Labor has exclusive authority to determine compliance with Executive Order 11246 and the policies of the Secretary of Labor including 41 CFR Part 60, and 29 CFR Parts 1625-1627. The contracting agency and the FHWA have the authority and the responsibility to ensure compliance with 23 U.S.C. 140, Section 504 of the Rehabilitation Act of 1973, as amended (29 U.S.C. 794), and Title VI of the Civil Rights Act of 1964, as amended (42 U.S.C. 2000d et seq.), and related regulations including 49 CFR Parts 21, 26, and 27; and 23 CFR Parts 200, 230, and 633.

The following provision is adopted from 23 CFR Part 230, Subpart A, Appendix A, with appropriate revisions to conform to the U.S. Department of Labor (US DOL) and FHWA requirements.

1. Equal Employment Opportunity: Equal Employment Opportunity (EEO) requirements not to discriminate and to take affirmative action to assure equal opportunity as set forth under laws, executive orders, rules, regulations (see 28 CFR Part 35, 29 CFR Part 1630, 29 CFR Parts 1625-1627, 41 CFR Part 60 and 49 CFR Part 27) and orders of the Secretary of Labor as modified by the provisions prescribed herein, and imposed pursuant to 23 U.S.C. 140, shall constitute the EEO and specific affirmative action standards for the contractor's project activities under this contract. The provisions of the Americans with Disabilities Act of 1990 (42 U.S.C. 12101 et seq.) set forth under 28 CFR Part 35 and 29 CFR Part 1630 are incorporated by reference in this contract. In the execution of this contract, the contractor agrees to comply with the following minimum specific requirement activities of EEO:

a. The contractor will work with the contracting agency and the Federal Government to ensure that it has made every good faith effort to provide equal opportunity with respect to all of its terms and conditions of employment and in their review of activities under the contract. 23 CFR 230.409 (g)(4) & (5).

b. The contractor will accept as its operating policy the following statement:

"It is the policy of this Company to assure that applicants are employed, and that employees are treated during employment, without regard to their race, religion, sex, sexual orientation, gender identity, color, national origin, age or disability. Such action shall include: employment, upgrading, demotion, or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship, pre-apprenticeship, and/or on-the-job training."

2. EEO Officer: The contractor will designate and make known to the contracting officers an EEO Officer who will have the responsibility for and must be capable of effectively administering and promoting an active EEO program and who must be assigned adequate authority and responsibility to do so.

3. Dissemination of Policy: All members of the contractor's staff who are authorized to hire, supervise, promote, and discharge employees, or who recommend such action or are substantially involved in such action, will be made fully cognizant of and will implement the contractor's EEO policy and contractual responsibilities to provide EEO in each grade and classification of employment. To ensure that the above agreement will be met, the following actions will be taken as a minimum:

a. Periodic meetings of supervisory and personnel office employees will be conducted before the start of work and then not less often than once every six months, at which time the contractor's EEO policy and its implementation will be reviewed and explained. The meetings will be conducted by the EEO Officer or other knowledgeable company official.

b. All new supervisory or personnel office employees will be given a thorough indoctrination by the EEO Officer, covering all major aspects of the contractor's EEO obligations within thirty days following their reporting for duty with the contractor.

c. All personnel who are engaged in direct recruitment for the project will be instructed by the EEO Officer in the contractor's procedures for locating and hiring minorities and women.

d. Notices and posters setting forth the contractor's EEO policy will be placed in areas readily accessible to employees, applicants for employment and potential employees.

e. The contractor's EEO policy and the procedures to implement such policy will be brought to the attention of employees by means of meetings, employee handbooks, or other appropriate means.

4. Recruitment: When advertising for employees, the contractor will include in all advertisements for employees the notation: "An Equal Opportunity Employer." All such advertisements will be placed in publications having a large circulation among minorities and women in the area from which the project work force would normally be derived.

a. The contractor will, unless precluded by a valid bargaining agreement, conduct systematic and direct recruitment through public and private employee referral sources likely to yield qualified minorities and women. To meet this requirement, the contractor will identify sources of potential minority group employees and establish with such identified sources procedures whereby minority and women applicants may be referred to the contractor for employment consideration.

b. In the event the contractor has a valid bargaining agreement providing for exclusive hiring hall referrals, the contractor is expected to observe the provisions of that agreement to the extent that the system meets the contractor's compliance with EEO contract provisions. Where implementation of such an agreement has the effect of discriminating against minorities or women, or obligates the contractor to do the same, such implementation violates Federal nondiscrimination provisions.

c. The contractor will encourage its present employees to refer minorities and women as applicants for employment. Information and procedures with regard to referring such applicants will be discussed with employees.

5. Personnel Actions: Wages, working conditions, and employee benefits shall be established and administered, and personnel actions of every type, including hiring, upgrading, promotion, transfer, demotion, layoff, and termination, shall be taken without regard to race, color, religion, sex, sexual orientation, gender identity, national origin, age or disability. The following procedures shall be followed:

a. The contractor will conduct periodic inspections of project sites to ensure that working conditions and employee facilities do not indicate discriminatory treatment of project site personnel.

b. The contractor will periodically evaluate the spread of wages paid within each classification to determine any evidence of discriminatory wage practices.

c. The contractor will periodically review selected personnel actions in depth to determine whether there is evidence of discrimination. Where evidence is found, the contractor will promptly take corrective action. If the review indicates that the discrimination may extend beyond the actions reviewed, such corrective action shall include all affected persons.

d. The contractor will promptly investigate all complaints of alleged discrimination made to the contractor in connection with its obligations under this contract, will attempt to resolve such complaints, and will take appropriate corrective action

within a reasonable time. If the investigation indicates that the discrimination may affect persons other than the complainant, such corrective action shall include such other persons. Upon completion of each investigation, the contractor will inform every complainant of all of their avenues of appeal.

6. Training and Promotion:

a. The contractor will assist in locating, qualifying, and increasing the skills of minorities and women who are applicants for employment or current employees. Such efforts should be aimed at developing full journey level status employees in the type of trade or job classification involved.

b. Consistent with the contractor's work force requirements and as permissible under Federal and State regulations, the contractor shall make full use of training programs (i.e., apprenticeship and on-the-job training programs for the geographical area of contract performance). In the event a special provision for training is provided under this contract, this subparagraph will be superseded as indicated in the special provision. The contracting agency may reserve training positions for persons who receive welfare assistance in accordance with 23 U.S.C. 140(a).

c. The contractor will advise employees and applicants for employment of available training programs and entrance requirements for each.

d. The contractor will periodically review the training and promotion potential of employees who are minorities and women and will encourage eligible employees to apply for such training and promotion.

7. Unions: If the contractor relies in whole or in part upon unions as a source of employees, the contractor will use good faith efforts to obtain the cooperation of such unions to increase opportunities for minorities and women. 23 CFR 230.409. Actions by the contractor, either directly or through a contractor's association acting as agent, will include the procedures set forth below:

a. The contractor will use good faith efforts to develop, in cooperation with the unions, joint training programs aimed toward qualifying more minorities and women for membership in the unions and increasing the skills of minorities and women so that they may qualify for higher paying employment.

b. The contractor will use good faith efforts to incorporate an EEO clause into each union agreement to the end that such union will be contractually bound to refer applicants without regard to their race, color, religion, sex, sexual orientation, gender identity, national origin, age, or disability.

c. The contractor is to obtain information as to the referral practices and policies of the labor union except that to the extent such information is within the exclusive possession of the labor union and such labor union refuses to furnish such information to the contractor, the contractor shall so certify to the contracting agency and shall set forth what efforts have been made to obtain such information.

d. In the event the union is unable to provide the contractor with a reasonable flow of referrals within the time limit set forth in the collective bargaining agreement, the contractor will, through independent recruitment efforts, fill the employment vacancies without regard to race, color, religion, sex, sexual orientation, gender identity, national origin, age, or disability; making full efforts to obtain qualified and/or qualifiable minorities and women. The failure of a union to provide

sufficient referrals (even though it is obligated to provide exclusive referrals under the terms of a collective bargaining agreement) does not relieve the contractor from the requirements of this paragraph. In the event the union referral practice prevents the contractor from meeting the obligations pursuant to Executive Order 11246, as amended, and these special provisions, such contractor shall immediately notify the contracting agency.

8. Reasonable Accommodation for Applicants /

Employees with Disabilities: The contractor must be familiar with the requirements for and comply with the Americans with Disabilities Act and all rules and regulations established thereunder. Employers must provide reasonable accommodation in all employment activities unless to do so would cause an undue hardship.

9. Selection of Subcontractors, Procurement of Materials and Leasing of Equipment:

The contractor shall not discriminate on the grounds of race, color, religion, sex, sexual orientation, gender identity, national origin, age, or disability in the selection and retention of subcontractors, including procurement of materials and leases of equipment. The contractor shall take all necessary and reasonable steps to ensure nondiscrimination in the administration of this contract.

a. The contractor shall notify all potential subcontractors, suppliers, and lessors of their EEO obligations under this contract.

b. The contractor will use good faith efforts to ensure subcontractor compliance with their EEO obligations.

10. Assurances Required:

a. The requirements of 49 CFR Part 26 and the State DOT's FHWA-approved Disadvantaged Business Enterprise (DBE) program are incorporated by reference.

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

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

c. The Title VI and nondiscrimination provisions of U.S. DOT Order 1050.2A at Appendixes A and E are incorporated by reference. 49 CFR Part 21.

11. Records and Reports: The contractor shall keep such records as necessary to document compliance with the EEO requirements. Such records shall be retained for a period of three years following the date of the final payment to the contractor for all contract work and shall be available at reasonable times and places for inspection by authorized representatives of the contracting agency and the FHWA.

a. The records kept by the contractor shall document the following:

(1) The number and work hours of minority and non-minority group members and women employed in each work classification on the project;

(2) The progress and efforts being made in cooperation with unions, when applicable, to increase employment opportunities for minorities and women; and

(3) The progress and efforts being made in locating, hiring, training, qualifying, and upgrading minorities and women.

b. The contractors and subcontractors will submit an annual report to the contracting agency each July for the duration of the project indicating the number of minority, women, and non-minority group employees currently engaged in each work classification required by the contract work. This information is to be reported on [Form FHWA-1391](#). The staffing data should represent the project work force on board in all or any part of the last payroll period preceding the end of July. If on-the-job training is being required by special provision, the contractor will be required to collect and report training data. The employment data should reflect the work force on board during all or any part of the last payroll period preceding the end of July.

III. NONSEGREGATED FACILITIES

This provision is applicable to all Federal-aid construction contracts and to all related construction subcontracts of more than \$10,000. 41 CFR 60-1.5.

As prescribed by 41 CFR 60-1.8, the contractor must ensure that facilities provided for employees are provided in such a manner that segregation on the basis of race, color, religion, sex, sexual orientation, gender identity, or national origin cannot result. The contractor may neither require such segregated use by written or oral policies nor tolerate such use by employee custom. The contractor's obligation extends further to ensure that its employees are not assigned to perform their services at any location under the contractor's control where the facilities are segregated. The term "facilities" includes waiting rooms, work areas, restaurants and other eating areas, time clocks, restrooms, washrooms, locker rooms and other storage or dressing areas, parking lots, drinking fountains, recreation or entertainment areas, transportation, and housing provided for employees. The contractor shall provide separate or single-user restrooms and necessary dressing or sleeping areas to assure privacy between sexes.

IV. DAVIS-BACON AND RELATED ACT PROVISIONS

This section is applicable to all Federal-aid construction projects exceeding \$2,000 and to all related subcontracts and lower-tier subcontracts (regardless of subcontract size), in accordance with 29 CFR 5.5. The requirements apply to all projects located within the right-of-way of a roadway that is functionally classified as Federal-aid highway. 23 U.S.C. 113. This excludes roadways functionally classified as local roads or rural minor collectors, which are exempt. 23 U.S.C. 101. Where applicable law requires that projects be treated as a project on a Federal-aid highway, the provisions of this subpart will apply regardless of the location of the project. Examples include: Surface Transportation Block Grant Program projects funded under 23 U.S.C. 133 [excluding recreational trails projects], the Nationally Significant Freight and Highway

Projects funded under 23 U.S.C. 117, and National Highway Freight Program projects funded under 23 U.S.C. 167.

The following provisions are from the U.S. Department of Labor regulations in 29 CFR 5.5 "Contract provisions and related matters" with minor revisions to conform to the FHWA-1273 format and FHWA program requirements.

1. Minimum wages (29 CFR 5.5)

a. *Wage rates and fringe benefits.* All laborers and mechanics employed or working upon the site of the work (or otherwise working in construction or development of the project under a development statute), will be paid unconditionally and not less often than once a week, and without subsequent deduction or rebate on any account (except such payroll deductions as are permitted by regulations issued by the Secretary of Labor under the Copeland Act ([29 CFR part 3](#))), the full amount of basic hourly wages and bona fide fringe benefits (or cash equivalents thereof) due at time of payment computed at rates not less than those contained in the wage determination of the Secretary of Labor which is attached hereto and made a part hereof, regardless of any contractual relationship which may be alleged to exist between the contractor and such laborers and mechanics. As provided in paragraphs (d) and (e) of 29 CFR 5.5, the appropriate wage determinations are effective by operation of law even if they have not been attached to the contract. Contributions made or costs reasonably anticipated for bona fide fringe benefits under the Davis-Bacon Act ([40 U.S.C. 3141\(2\)\(B\)](#)) on behalf of laborers or mechanics are considered wages paid to such laborers or mechanics, subject to the provisions of paragraph 1.e. of this section; also, regular contributions made or costs incurred for more than a weekly period (but not less often than quarterly) under plans, funds, or programs which cover the particular weekly period, are deemed to be constructively made or incurred during such weekly period. Such laborers and mechanics must be paid the appropriate wage rate and fringe benefits on the wage determination for the classification(s) of work actually performed, without regard to skill, except as provided in paragraph 4. of this section. Laborers or mechanics performing work in more than one classification may be compensated at the rate specified for each classification for the time actually worked therein: *Provided*, That the employer's payroll records accurately set forth the time spent in each classification in which work is performed. The wage determination (including any additional classifications and wage rates conformed under paragraph 1.c. of this section) and the Davis-Bacon poster (WH-1321) must be posted at all times by the contractor and its subcontractors at the site of the work in a prominent and accessible place where it can be easily seen by the workers.

b. *Frequently recurring classifications.* (1) In addition to wage and fringe benefit rates that have been determined to be prevailing under the procedures set forth in [29 CFR part 1](#), a wage determination may contain, pursuant to § 1.3(f), wage and fringe benefit rates for classifications of laborers and mechanics for which conformance requests are regularly submitted pursuant to paragraph 1.c. of this section, provided that:

(i) The work performed by the classification is not performed by a classification in the wage determination for which a prevailing wage rate has been determined;

(ii) The classification is used in the area by the construction industry; and

(iii) The wage rate for the classification bears a reasonable relationship to the prevailing wage rates contained in the wage determination.

(2) The Administrator will establish wage rates for such classifications in accordance with paragraph 1.c.(1)(iii) of this section. Work performed in such a classification must be paid at no less than the wage and fringe benefit rate listed on the wage determination for such classification.

c. *Conformance.* (1) The contracting officer must require that any class of laborers or mechanics, including helpers, which is not listed in the wage determination and which is to be employed under the contract be classified in conformance with the wage determination. Conformance of an additional classification and wage rate and fringe benefits is appropriate only when the following criteria have been met:

(i) The work to be performed by the classification requested is not performed by a classification in the wage determination; and

(ii) The classification is used in the area by the construction industry; and

(iii) The proposed wage rate, including any bona fide fringe benefits, bears a reasonable relationship to the wage rates contained in the wage determination.

(2) The conformance process may not be used to split, subdivide, or otherwise avoid application of classifications listed in the wage determination.

(3) If the contractor and the laborers and mechanics to be employed in the classification (if known), or their representatives, and the contracting officer agree on the classification and wage rate (including the amount designated for fringe benefits where appropriate), a report of the action taken will be sent by the contracting officer by email to DBAconformance@dol.gov. The Administrator, or an authorized representative, will approve, modify, or disapprove every additional classification action within 30 days of receipt and so advise the contracting officer or will notify the contracting officer within the 30-day period that additional time is necessary.

(4) In the event the contractor, the laborers or mechanics to be employed in the classification or their representatives, and the contracting officer do not agree on the proposed classification and wage rate (including the amount designated for fringe benefits, where appropriate), the contracting officer will, by email to DBAconformance@dol.gov, refer the questions, including the views of all interested parties and the recommendation of the contracting officer, to the Administrator for determination. The Administrator, or an authorized representative, will issue a determination within 30 days of receipt and so advise the contracting officer or will notify the contracting officer within the 30-day period that additional time is necessary.

(5) The contracting officer must promptly notify the contractor of the action taken by the Wage and Hour Division

under paragraphs 1.c.(3) and (4) of this section. The contractor must furnish a written copy of such determination to each affected worker or it must be posted as a part of the wage determination. The wage rate (including fringe benefits where appropriate) determined pursuant to paragraph 1.c.(3) or (4) of this section must be paid to all workers performing work in the classification under this contract from the first day on which work is performed in the classification.

d. *Fringe benefits not expressed as an hourly rate.* Whenever the minimum wage rate prescribed in the contract for a class of laborers or mechanics includes a fringe benefit which is not expressed as an hourly rate, the contractor may either pay the benefit as stated in the wage determination or may pay another bona fide fringe benefit or an hourly cash equivalent thereof.

e. *Unfunded plans.* If the contractor does not make payments to a trustee or other third person, the contractor may consider as part of the wages of any laborer or mechanic the amount of any costs reasonably anticipated in providing bona fide fringe benefits under a plan or program, *Provided*, That the Secretary of Labor has found, upon the written request of the contractor, in accordance with the criteria set forth in § 5.28, that the applicable standards of the Davis-Bacon Act have been met. The Secretary of Labor may require the contractor to set aside in a separate account assets for the meeting of obligations under the plan or program.

f. *Interest.* In the event of a failure to pay all or part of the wages required by the contract, the contractor will be required to pay interest on any underpayment of wages.

2. Withholding (29 CFR 5.5)

a. *Withholding requirements.* The contracting agency may, upon its own action, or must, upon written request of an authorized representative of the Department of Labor, withhold or cause to be withheld from the contractor so much of the accrued payments or advances as may be considered necessary to satisfy the liabilities of the prime contractor or any subcontractor for the full amount of wages and monetary relief, including interest, required by the clauses set forth in this section for violations of this contract, or to satisfy any such liabilities required by any other Federal contract, or federally assisted contract subject to Davis-Bacon labor standards, that is held by the same prime contractor (as defined in § 5.2). The necessary funds may be withheld from the contractor under this contract, any other Federal contract with the same prime contractor, or any other federally assisted contract that is subject to Davis-Bacon labor standards requirements and is held by the same prime contractor, regardless of whether the other contract was awarded or assisted by the same agency, and such funds may be used to satisfy the contractor liability for which the funds were withheld. In the event of a contractor's failure to pay any laborer or mechanic, including any apprentice or helper working on the site of the work all or part of the wages required by the contract, or upon the contractor's failure to submit the required records as discussed in paragraph 3.d. of this section, the contracting agency may on its own initiative and after written notice to the contractor, take such action as may be necessary to cause the suspension of any further payment, advance, or guarantee of funds until such violations have ceased.

b. *Priority to withheld funds.* The Department has priority to funds withheld or to be withheld in accordance with paragraph

2.a. of this section or Section V, paragraph 3.a., or both, over claims to those funds by:

- (1) A contractor's surety(ies), including without limitation performance bond sureties and payment bond sureties;
- (2) A contracting agency for its procurement costs;
- (3) A trustee(s) (either a court-appointed trustee or a U.S. trustee, or both) in bankruptcy of a contractor, or a contractor's bankruptcy estate;
- (4) A contractor's assignee(s);
- (5) A contractor's successor(s); or
- (6) A claim asserted under the Prompt Payment Act, [31 U.S.C. 3901](#)–3907.

3. Records and certified payrolls (29 CFR 5.5)

a. Basic record requirements (1) Length of record retention. All regular payrolls and other basic records must be maintained by the contractor and any subcontractor during the course of the work and preserved for all laborers and mechanics working at the site of the work (or otherwise working in construction or development of the project under a development statute) for a period of at least 3 years after all the work on the prime contract is completed.

(2) Information required. Such records must contain the name; Social Security number; last known address, telephone number, and email address of each such worker; each worker's correct classification(s) of work actually performed; hourly rates of wages paid (including rates of contributions or costs anticipated for bona fide fringe benefits or cash equivalents thereof of the types described in [40 U.S.C. 3141\(2\)\(B\)](#) of the Davis-Bacon Act); daily and weekly number of hours actually worked in total and on each covered contract; deductions made; and actual wages paid.

(3) Additional records relating to fringe benefits. Whenever the Secretary of Labor has found under paragraph 1.e. of this section that the wages of any laborer or mechanic include the amount of any costs reasonably anticipated in providing benefits under a plan or program described in [40 U.S.C. 3141\(2\)\(B\)](#) of the Davis-Bacon Act, the contractor must maintain records which show that the commitment to provide such benefits is enforceable, that the plan or program is financially responsible, and that the plan or program has been communicated in writing to the laborers or mechanics affected, and records which show the costs anticipated or the actual cost incurred in providing such benefits.

(4) Additional records relating to apprenticeship. Contractors with apprentices working under approved programs must maintain written evidence of the registration of apprenticeship programs, the registration of the apprentices, and the ratios and wage rates prescribed in the applicable programs.

b. Certified payroll requirements (1) Frequency and method of submission. The contractor or subcontractor must submit weekly, for each week in which any DBA- or Related Acts-covered work is performed, certified payrolls to the contracting

agency. The prime contractor is responsible for the submission of all certified payrolls by all subcontractors. A contracting agency or prime contractor may permit or require contractors to submit certified payrolls through an electronic system, as long as the electronic system requires a legally valid electronic signature; the system allows the contractor, the contracting agency, and the Department of Labor to access the certified payrolls upon request for at least 3 years after the work on the prime contract has been completed; and the contracting agency or prime contractor permits other methods of submission in situations where the contractor is unable or limited in its ability to use or access the electronic system.

(2) Information required. The certified payrolls submitted must set out accurately and completely all of the information required to be maintained under paragraph 3.a.(2) of this section, except that full Social Security numbers and last known addresses, telephone numbers, and email addresses must not be included on weekly transmittals. Instead, the certified payrolls need only include an individually identifying number for each worker (e.g., the last four digits of the worker's Social Security number). The required weekly certified payroll information may be submitted using Optional Form WH-347 or in any other format desired. Optional Form WH-347 is available for this purpose from the Wage and Hour Division website at <https://www.dol.gov/sites/dolgov/files/WHDL/legacy/files/wh347.pdf> or its successor website. It is not a violation of this section for a prime contractor to require a subcontractor to provide full Social Security numbers and last known addresses, telephone numbers, and email addresses to the prime contractor for its own records, without weekly submission by the subcontractor to the contracting agency.

(3) Statement of Compliance. Each certified payroll submitted must be accompanied by a "Statement of Compliance," signed by the contractor or subcontractor, or the contractor's or subcontractor's agent who pays or supervises the payment of the persons working on the contract, and must certify the following:

(i) That the certified payroll for the payroll period contains the information required to be provided under paragraph 3.b. of this section, the appropriate information and basic records are being maintained under paragraph 3.a. of this section, and such information and records are correct and complete;

(ii) That each laborer or mechanic (including each helper and apprentice) working on the contract during the payroll period has been paid the full weekly wages earned, without rebate, either directly or indirectly, and that no deductions have been made either directly or indirectly from the full wages earned, other than permissible deductions as set forth in [29 CFR part 3](#); and

(iii) That each laborer or mechanic has been paid not less than the applicable wage rates and fringe benefits or cash equivalents for the classification(s) of work actually performed, as specified in the applicable wage determination incorporated into the contract.

(4) Use of Optional Form WH-347. The weekly submission of a properly executed certification set forth on the reverse side of Optional Form WH-347 will satisfy the requirement for submission of the "Statement of Compliance" required by paragraph 3.b.(3) of this section.

(5) *Signature*. The signature by the contractor, subcontractor, or the contractor's or subcontractor's agent must be an original handwritten signature or a legally valid electronic signature.

(6) *Falsification*. The falsification of any of the above certifications may subject the contractor or subcontractor to civil or criminal prosecution under [18 U.S.C. 1001](#) and [31 U.S.C. 3729](#).

(7) *Length of certified payroll retention*. The contractor or subcontractor must preserve all certified payrolls during the course of the work and for a period of 3 years after all the work on the prime contract is completed.

c. *Contracts, subcontracts, and related documents*. The contractor or subcontractor must maintain this contract or subcontract and related documents including, without limitation, bids, proposals, amendments, modifications, and extensions. The contractor or subcontractor must preserve these contracts, subcontracts, and related documents during the course of the work and for a period of 3 years after all the work on the prime contract is completed.

d. *Required disclosures and access* (1) *Required record disclosures and access to workers*. The contractor or subcontractor must make the records required under paragraphs 3.a. through 3.c. of this section, and any other documents that the contracting agency, the State DOT, the FHWA, or the Department of Labor deems necessary to determine compliance with the labor standards provisions of any of the applicable statutes referenced by § 5.1, available for inspection, copying, or transcription by authorized representatives of the contracting agency, the State DOT, the FHWA, or the Department of Labor, and must permit such representatives to interview workers during working hours on the job.

(2) *Sanctions for non-compliance with records and worker access requirements*. If the contractor or subcontractor fails to submit the required records or to make them available, or refuses to permit worker interviews during working hours on the job, the Federal agency may, after written notice to the contractor, sponsor, applicant, owner, or other entity, as the case may be, that maintains such records or that employs such workers, take such action as may be necessary to cause the suspension of any further payment, advance, or guarantee of funds. Furthermore, failure to submit the required records upon request or to make such records available, or to permit worker interviews during working hours on the job, may be grounds for debarment action pursuant to § 5.12. In addition, any contractor or other person that fails to submit the required records or make those records available to WHD within the time WHD requests that the records be produced will be precluded from introducing as evidence in an administrative proceeding under [29 CFR part 6](#) any of the required records that were not provided or made available to WHD. WHD will take into consideration a reasonable request from the contractor or person for an extension of the time for submission of records. WHD will determine the reasonableness of the request and may consider, among other things, the location of the records and the volume of production.

(3) *Required information disclosures*. Contractors and subcontractors must maintain the full Social Security number and last known address, telephone number, and email address

of each covered worker, and must provide them upon request to the contracting agency, the State DOT, the FHWA, the contractor, or the Wage and Hour Division of the Department of Labor for purposes of an investigation or other compliance action.

4. Apprentices and equal employment opportunity (29 CFR 5.5)

a. *Apprentices (1) Rate of pay*. Apprentices will be permitted to work at less than the predetermined rate for the work they perform when they are employed pursuant to and individually registered in a bona fide apprenticeship program registered with the U.S. Department of Labor, Employment and Training Administration, Office of Apprenticeship (OA), or with a State Apprenticeship Agency recognized by the OA. A person who is not individually registered in the program, but who has been certified by the OA or a State Apprenticeship Agency (where appropriate) to be eligible for probationary employment as an apprentice, will be permitted to work at less than the predetermined rate for the work they perform in the first 90 days of probationary employment as an apprentice in such a program. In the event the OA or a State Apprenticeship Agency recognized by the OA withdraws approval of an apprenticeship program, the contractor will no longer be permitted to use apprentices at less than the applicable predetermined rate for the work performed until an acceptable program is approved.

(2) *Fringe benefits*. Apprentices must be paid fringe benefits in accordance with the provisions of the apprenticeship program. If the apprenticeship program does not specify fringe benefits, apprentices must be paid the full amount of fringe benefits listed on the wage determination for the applicable classification. If the Administrator determines that a different practice prevails for the applicable apprentice classification, fringe benefits must be paid in accordance with that determination.

(3) *Apprenticeship ratio*. The allowable ratio of apprentices to journeyworkers on the job site in any craft classification must not be greater than the ratio permitted to the contractor as to the entire work force under the registered program or the ratio applicable to the locality of the project pursuant to paragraph 4.a.(4) of this section. Any worker listed on a payroll at an apprentice wage rate, who is not registered or otherwise employed as stated in paragraph 4.a.(1) of this section, must be paid not less than the applicable wage rate on the wage determination for the classification of work actually performed. In addition, any apprentice performing work on the job site in excess of the ratio permitted under this section must be paid not less than the applicable wage rate on the wage determination for the work actually performed.

(4) *Reciprocity of ratios and wage rates*. Where a contractor is performing construction on a project in a locality other than the locality in which its program is registered, the ratios and wage rates (expressed in percentages of the journeyworker's hourly rate) applicable within the locality in which the construction is being performed must be observed. If there is no applicable ratio or wage rate for the locality of the project, the ratio and wage rate specified in the contractor's registered program must be observed.

b. *Equal employment opportunity*. The use of apprentices and journeyworkers under this part must be in conformity with

the equal employment opportunity requirements of Executive Order 11246, as amended, and [29 CFR part 30](#).

c. Apprentices and Trainees (programs of the U.S. DOT).

Apprentices and trainees working under apprenticeship and skill training programs which have been certified by the Secretary of Transportation as promoting EEO in connection with Federal-aid highway construction programs are not subject to the requirements of paragraph 4 of this Section IV. 23 CFR 230.111(e)(2). The straight time hourly wage rates for apprentices and trainees under such programs will be established by the particular programs. The ratio of apprentices and trainees to journeyworkers shall not be greater than permitted by the terms of the particular program.

5. Compliance with Copeland Act requirements. The contractor shall comply with the requirements of 29 CFR part 3, which are incorporated by reference in this contract as provided in 29 CFR 5.5.

6. Subcontracts. The contractor or subcontractor must insert FHWA-1273 in any subcontracts, along with the applicable wage determination(s) and such other clauses or contract modifications as the contracting agency may by appropriate instructions require, and a clause requiring the subcontractors to include these clauses and wage determination(s) in any lower tier subcontracts. The prime contractor is responsible for the compliance by any subcontractor or lower tier subcontractor with all the contract clauses in this section. In the event of any violations of these clauses, the prime contractor and any subcontractor(s) responsible will be liable for any unpaid wages and monetary relief, including interest from the date of the underpayment or loss, due to any workers of lower-tier subcontractors, and may be subject to debarment, as appropriate. 29 CFR 5.5.

7. Contract termination: debarment. A breach of the contract clauses in 29 CFR 5.5 may be grounds for termination of the contract, and for debarment as a contractor and a subcontractor as provided in 29 CFR 5.12.

8. Compliance with Davis-Bacon and Related Act requirements. All rulings and interpretations of the Davis-Bacon and Related Acts contained in 29 CFR parts 1, 3, and 5 are herein incorporated by reference in this contract as provided in 29 CFR 5.5.

9. Disputes concerning labor standards. As provided in 29 CFR 5.5, disputes arising out of the labor standards provisions of this contract shall not be subject to the general disputes clause of this contract. Such disputes shall be resolved in accordance with the procedures of the Department of Labor set forth in 29 CFR parts 5, 6, and 7. Disputes within the meaning of this clause include disputes between the contractor (or any of its subcontractors) and the contracting agency, the U.S. Department of Labor, or the employees or their representatives.

10. Certification of eligibility. a. By entering into this contract, the contractor certifies that neither it nor any person or firm who has an interest in the contractor's firm is a person or firm ineligible to be awarded Government contracts by virtue of [40 U.S.C. 3144\(b\)](#) or § 5.12(a).

b. No part of this contract shall be subcontracted to any person or firm ineligible for award of a Government contract by virtue of [40 U.S.C. 3144\(b\)](#) or § 5.12(a).

c. The penalty for making false statements is prescribed in the U.S. Code, Title 18 Crimes and Criminal Procedure, [18 U.S.C. 1001](#).

11. Anti-retaliation. It is unlawful for any person to discharge, demote, intimidate, threaten, restrain, coerce, blacklist, harass, or in any other manner discriminate against, or to cause any person to discharge, demote, intimidate, threaten, restrain, coerce, blacklist, harass, or in any other manner discriminate against, any worker or job applicant for:

a. Notifying any contractor of any conduct which the worker reasonably believes constitutes a violation of the DBA, Related Acts, this part, or [29 CFR part 1](#) or [3](#);

b. Filing any complaint, initiating or causing to be initiated any proceeding, or otherwise asserting or seeking to assert on behalf of themselves or others any right or protection under the DBA, Related Acts, this part, or [29 CFR part 1](#) or [3](#);

c. Cooperating in any investigation or other compliance action, or testifying in any proceeding under the DBA, Related Acts, this part, or [29 CFR part 1](#) or [3](#); or

d. Informing any other person about their rights under the DBA, Related Acts, this part, or [29 CFR part 1](#) or [3](#).

V. CONTRACT WORK HOURS AND SAFETY STANDARDS ACT

Pursuant to 29 CFR 5.5(b), the following clauses apply to any Federal-aid construction contract in an amount in excess of \$100,000 and subject to the overtime provisions of the Contract Work Hours and Safety Standards Act. These clauses shall be inserted in addition to the clauses required by 29 CFR 5.5(a) or 29 CFR 4.6. As used in this paragraph, the terms laborers and mechanics include watchpersons and guards.

1. Overtime requirements. No contractor or subcontractor contracting for any part of the contract work which may require or involve the employment of laborers or mechanics shall require or permit any such laborer or mechanic in any workweek in which he or she is employed on such work to work in excess of forty hours in such workweek unless such laborer or mechanic receives compensation at a rate not less than one and one-half times the basic rate of pay for all hours worked in excess of forty hours in such workweek. 29 CFR 5.5.

2. Violation; liability for unpaid wages; liquidated damages. In the event of any violation of the clause set forth in paragraph 1. of this section the contractor and any subcontractor responsible therefor shall be liable for the unpaid wages and interest from the date of the underpayment. In addition, such contractor and subcontractor shall be liable to the United States (in the case of work done under contract for the District of Columbia or a territory, to such District or to such territory), for liquidated damages. Such liquidated damages shall be computed with respect to each individual laborer or

mechanic, including watchpersons and guards, employed in violation of the clause set forth in paragraph 1. of this section, in the sum currently provided in 29 CFR 5.5(b)(2)* for each calendar day on which such individual was required or permitted to work in excess of the standard workweek of forty hours without payment of the overtime wages required by the clause set forth in paragraph 1. of this section.

* \$31 as of January 15, 2023 (See 88 FR 88 FR 2210) as may be adjusted annually by the Department of Labor, pursuant to the Federal Civil Penalties Inflation Adjustment Act of 1990.

3. Withholding for unpaid wages and liquidated damages

a. *Withholding process.* The FHWA or the contracting agency may, upon its own action, or must, upon written request of an authorized representative of the Department of Labor, withhold or cause to be withheld from the contractor so much of the accrued payments or advances as may be considered necessary to satisfy the liabilities of the prime contractor or any subcontractor for any unpaid wages; monetary relief, including interest; and liquidated damages required by the clauses set forth in this section on this contract, any other Federal contract with the same prime contractor, or any other federally assisted contract subject to the Contract Work Hours and Safety Standards Act that is held by the same prime contractor (as defined in § 5.2). The necessary funds may be withheld from the contractor under this contract, any other Federal contract with the same prime contractor, or any other federally assisted contract that is subject to the Contract Work Hours and Safety Standards Act and is held by the same prime contractor, regardless of whether the other contract was awarded or assisted by the same agency, and such funds may be used to satisfy the contractor liability for which the funds were withheld.

b. *Priority to withheld funds.* The Department has priority to funds withheld or to be withheld in accordance with Section IV paragraph 2.a. or paragraph 3.a. of this section, or both, over claims to those funds by:

- (1) A contractor's surety(ies), including without limitation performance bond sureties and payment bond sureties;
- (2) A contracting agency for its procurement costs;
- (3) A trustee(s) (either a court-appointed trustee or a U.S. trustee, or both) in bankruptcy of a contractor, or a contractor's bankruptcy estate;
- (4) A contractor's assignee(s);
- (5) A contractor's successor(s); or
- (6) A claim asserted under the Prompt Payment Act, [31 U.S.C. 3901](#)–3907.

4. Subcontracts. The contractor or subcontractor must insert in any subcontracts the clauses set forth in paragraphs 1. through 5. of this section and a clause requiring the subcontractors to include these clauses in any lower tier subcontracts. The prime contractor is responsible for compliance by any subcontractor or lower tier subcontractor with the clauses set forth in paragraphs 1. through 5. In the

event of any violations of these clauses, the prime contractor and any subcontractor(s) responsible will be liable for any unpaid wages and monetary relief, including interest from the date of the underpayment or loss, due to any workers of lower-tier subcontractors, and associated liquidated damages and may be subject to debarment, as appropriate.

5. Anti-retaliation. It is unlawful for any person to discharge, demote, intimidate, threaten, restrain, coerce, blacklist, harass, or in any other manner discriminate against, or to cause any person to discharge, demote, intimidate, threaten, restrain, coerce, blacklist, harass, or in any other manner discriminate against, any worker or job applicant for:

- a. Notifying any contractor of any conduct which the worker reasonably believes constitutes a violation of the Contract Work Hours and Safety Standards Act (CWHSSA) or its implementing regulations in this part;
- b. Filing any complaint, initiating or causing to be initiated any proceeding, or otherwise asserting or seeking to assert on behalf of themselves or others any right or protection under CWHSSA or this part;
- c. Cooperating in any investigation or other compliance action, or testifying in any proceeding under CWHSSA or this part; or
- d. Informing any other person about their rights under CWHSSA or this part.

VI. SUBLETTING OR ASSIGNING THE CONTRACT

This provision is applicable to all Federal-aid construction contracts on the National Highway System pursuant to 23 CFR 635.116.

1. The contractor shall perform with its own organization contract work amounting to not less than 30 percent (or a greater percentage if specified elsewhere in the contract) of the total original contract price, excluding any specialty items designated by the contracting agency. Specialty items may be performed by subcontract and the amount of any such specialty items performed may be deducted from the total original contract price before computing the amount of work required to be performed by the contractor's own organization (23 CFR 635.116).

a. The term "perform work with its own organization" in paragraph 1 of Section VI refers to workers employed or leased by the prime contractor, and equipment owned or rented by the prime contractor, with or without operators. Such term does not include employees or equipment of a subcontractor or lower tier subcontractor, agents of the prime contractor, or any other assignees. The term may include payments for the costs of hiring leased employees from an employee leasing firm meeting all relevant Federal and State regulatory requirements. Leased employees may only be included in this term if the prime contractor meets all of the following conditions: (based on longstanding interpretation)

- (1) the prime contractor maintains control over the supervision of the day-to-day activities of the leased employees;
- (2) the prime contractor remains responsible for the quality of the work of the leased employees;

- (3) the prime contractor retains all power to accept or exclude individual employees from work on the project; and
- (4) the prime contractor remains ultimately responsible for the payment of predetermined minimum wages, the submission of payrolls, statements of compliance and all other Federal regulatory requirements.

b. "Specialty Items" shall be construed to be limited to work that requires highly specialized knowledge, abilities, or equipment not ordinarily available in the type of contracting organizations qualified and expected to bid or propose on the contract as a whole and in general are to be limited to minor components of the overall contract. 23 CFR 635.102.

2. Pursuant to 23 CFR 635.116(a), the contract amount upon which the requirements set forth in paragraph (1) of Section VI is computed includes the cost of material and manufactured products which are to be purchased or produced by the contractor under the contract provisions.

3. Pursuant to 23 CFR 635.116(c), the contractor shall furnish (a) a competent superintendent or supervisor who is employed by the firm, has full authority to direct performance of the work in accordance with the contract requirements, and is in charge of all construction operations (regardless of who performs the work) and (b) such other of its own organizational resources (supervision, management, and engineering services) as the contracting officer determines is necessary to assure the performance of the contract.

4. No portion of the contract shall be sublet, assigned or otherwise disposed of except with the written consent of the contracting officer, or authorized representative, and such consent when given shall not be construed to relieve the contractor of any responsibility for the fulfillment of the contract. Written consent will be given only after the contracting agency has assured that each subcontract is evidenced in writing and that it contains all pertinent provisions and requirements of the prime contract. (based on long-standing interpretation of 23 CFR 635.116).

5. The 30-percent self-performance requirement of paragraph (1) is not applicable to design-build contracts; however, contracting agencies may establish their own self-performance requirements. 23 CFR 635.116(d).

VII. SAFETY: ACCIDENT PREVENTION

This provision is applicable to all Federal-aid construction contracts and to all related subcontracts.

- 1. In the performance of this contract the contractor shall comply with all applicable Federal, State, and local laws governing safety, health, and sanitation (23 CFR Part 635). The contractor shall provide all safeguards, safety devices and protective equipment and take any other needed actions as it determines, or as the contracting officer may determine, to be reasonably necessary to protect the life and health of employees on the job and the safety of the public and to protect property in connection with the performance of the work covered by the contract. 23 CFR 635.108.
- 2. It is a condition of this contract, and shall be made a condition of each subcontract, which the contractor enters into pursuant to this contract, that the contractor and any subcontractor shall not permit any employee, in performance of the contract, to work in surroundings or under conditions which are unsanitary, hazardous or dangerous to his/her health or safety, as determined under construction safety and

health standards (29 CFR Part 1926) promulgated by the Secretary of Labor, in accordance with Section 107 of the Contract Work Hours and Safety Standards Act (40 U.S.C. 3704). 29 CFR 1926.10.

3. Pursuant to 29 CFR 1926.3, it is a condition of this contract that the Secretary of Labor or authorized representative thereof, shall have right of entry to any site of contract performance to inspect or investigate the matter of compliance with the construction safety and health standards and to carry out the duties of the Secretary under Section 107 of the Contract Work Hours and Safety Standards Act (40 U.S.C. 3704).

VIII. FALSE STATEMENTS CONCERNING HIGHWAY PROJECTS

This provision is applicable to all Federal-aid construction contracts and to all related subcontracts.

In order to assure high quality and durable construction in conformity with approved plans and specifications and a high degree of reliability on statements and representations made by engineers, contractors, suppliers, and workers on Federal-aid highway projects, it is essential that all persons concerned with the project perform their functions as carefully, thoroughly, and honestly as possible. Willful falsification, distortion, or misrepresentation with respect to any facts related to the project is a violation of Federal law. To prevent any misunderstanding regarding the seriousness of these and similar acts, Form FHWA-1022 shall be posted on each Federal-aid highway project (23 CFR Part 635) in one or more places where it is readily available to all persons concerned with the project:

18 U.S.C. 1020 reads as follows:

"Whoever, being an officer, agent, or employee of the United States, or of any State or Territory, or whoever, whether a person, association, firm, or corporation, knowingly makes any false statement, false representation, or false report as to the character, quality, quantity, or cost of the material used or to be used, or the quantity or quality of the work performed or to be performed, or the cost thereof in connection with the submission of plans, maps, specifications, contracts, or costs of construction on any highway or related project submitted for approval to the Secretary of Transportation; or

Whoever knowingly makes any false statement, false representation, false report or false claim with respect to the character, quality, quantity, or cost of any work performed or to be performed, or materials furnished or to be furnished, in connection with the construction of any highway or related project approved by the Secretary of Transportation; or

Whoever knowingly makes any false statement or false representation as to material fact in any statement, certificate, or report submitted pursuant to provisions of the Federal-aid Roads Act approved July 11, 1916, (39 Stat. 355), as amended and supplemented;

Shall be fined under this title or imprisoned not more than 5 years or both."

IX. IMPLEMENTATION OF CLEAN AIR ACT AND FEDERAL WATER POLLUTION CONTROL ACT (42 U.S.C. 7606; 2 CFR 200.88; EO 11738)

This provision is applicable to all Federal-aid construction contracts in excess of \$150,000 and to all related subcontracts. 48 CFR 2.101; 2 CFR 200.327.

By submission of this bid/proposal or the execution of this contract or subcontract, as appropriate, the bidder, proposer, Federal-aid construction contractor, subcontractor, supplier, or vendor agrees to comply with all applicable standards, orders or regulations issued pursuant to the Clean Air Act (42 U.S.C. 7401-7671q) and the Federal Water Pollution Control Act, as amended (33 U.S.C. 1251-1387). Violations must be reported to the Federal Highway Administration and the Regional Office of the Environmental Protection Agency. 2 CFR Part 200, Appendix II.

The contractor agrees to include or cause to be included the requirements of this Section in every subcontract, and further agrees to take such action as the contracting agency may direct as a means of enforcing such requirements. 2 CFR 200.327.

X. CERTIFICATION REGARDING DEBARMENT, SUSPENSION, INELIGIBILITY AND VOLUNTARY EXCLUSION

This provision is applicable to all Federal-aid construction contracts, design-build contracts, subcontracts, lower-tier subcontracts, purchase orders, lease agreements, consultant contracts or any other covered transaction requiring FHWA approval or that is estimated to cost \$25,000 or more – as defined in 2 CFR Parts 180 and 1200. 2 CFR 180.220 and 1200.220.

1. Instructions for Certification – First Tier Participants:

- a. By signing and submitting this proposal, the prospective first tier participant is providing the certification set out below.
- b. The inability of a person to provide the certification set out below will not necessarily result in denial of participation in this covered transaction. The prospective first tier participant shall submit an explanation of why it cannot provide the certification set out below. The certification or explanation will be considered in connection with the department or agency's determination whether to enter into this transaction. However, failure of the prospective first tier participant to furnish a certification or an explanation shall disqualify such a person from participation in this transaction. 2 CFR 180.320.
- c. The certification in this clause is a material representation of fact upon which reliance was placed when the contracting agency determined to enter into this transaction. If it is later determined that the prospective participant knowingly rendered an erroneous certification, in addition to other remedies available to the Federal Government, the contracting agency may terminate this transaction for cause of default. 2 CFR 180.325.
- d. The prospective first tier participant shall provide immediate written notice to the contracting agency to whom this proposal is submitted if any time the prospective first tier participant learns that its certification was erroneous when submitted or has become erroneous by reason of changed circumstances. 2 CFR 180.345 and 180.350.

- e. The terms "covered transaction," "debarred," "suspended," "ineligible," "participant," "person," "principal," and "voluntarily excluded," as used in this clause, are defined in 2 CFR Parts 180, Subpart I, 180.900-180.1020, and 1200. "First Tier Covered Transactions" refers to any covered transaction between a recipient or subrecipient of Federal funds and a participant (such as the prime or general contract). "Lower Tier Covered Transactions" refers to any covered transaction under a First Tier Covered Transaction (such as subcontracts). "First Tier Participant" refers to the participant who has entered into a covered transaction with a recipient or subrecipient of Federal funds (such as the prime or general contractor). "Lower Tier Participant" refers any participant who has entered into a covered transaction with a First Tier Participant or other Lower Tier Participants (such as subcontractors and suppliers).
- f. The prospective first tier participant agrees by submitting this proposal that, should the proposed covered transaction be entered into, it shall not knowingly enter into any lower tier covered transaction with a person who is debarred, suspended, declared ineligible, or voluntarily excluded from participation in this covered transaction, unless authorized by the department or agency entering into this transaction. 2 CFR 180.330.
- g. The prospective first tier participant further agrees by submitting this proposal that it will include the clause titled "Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion-Lower Tier Covered Transactions," provided by the department or contracting agency, entering into this covered transaction, without modification, in all lower tier covered transactions and in all solicitations for lower tier covered transactions exceeding the \$25,000 threshold. 2 CFR 180.220 and 180.300.
- h. A participant in a covered transaction may rely upon a certification of a prospective participant in a lower tier covered transaction that is not debarred, suspended, ineligible, or voluntarily excluded from the covered transaction, unless it knows that the certification is erroneous. 2 CFR 180.300; 180.320, and 180.325. A participant is responsible for ensuring that its principals are not suspended, debarred, or otherwise ineligible to participate in covered transactions. 2 CFR 180.335. To verify the eligibility of its principals, as well as the eligibility of any lower tier prospective participants, each participant may, but is not required to, check the System for Award Management website (<https://www.sam.gov/>). 2 CFR 180.300, 180.320, and 180.325.
- i. Nothing contained in the foregoing shall be construed to require the establishment of a system of records in order to render in good faith the certification required by this clause. The knowledge and information of the prospective participant is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealings.
- j. Except for transactions authorized under paragraph (f) of these instructions, if a participant in a covered transaction knowingly enters into a lower tier covered transaction with a person who is suspended, debarred, ineligible, or voluntarily excluded from participation in this transaction, in addition to other remedies available to the Federal Government, the department or agency may terminate this transaction for cause or default. 2 CFR 180.325.

2. Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion – First Tier Participants:

- a. The prospective first tier participant certifies to the best of its knowledge and belief, that it and its principals:
- (1) Are not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participating in covered transactions by any Federal department or agency, 2 CFR 180.335;.
 - (2) Have not within a three-year period preceding this proposal been convicted of or had a civil judgment rendered against them for commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public (Federal, State, or local) transaction or contract under a public transaction; violation of Federal or State antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements, or receiving stolen property, 2 CFR 180.800;
 - (3) Are not presently indicted for or otherwise criminally or civilly charged by a governmental entity (Federal, State or local) with commission of any of the offenses enumerated in paragraph (a)(2) of this certification, 2 CFR 180.700 and 180.800; and
 - (4) Have not within a three-year period preceding this application/proposal had one or more public transactions (Federal, State or local) terminated for cause or default. 2 CFR 180.335(d).
 - (5) Are not a corporation that has been convicted of a felony violation under any Federal law within the two-year period preceding this proposal (USDOT Order 4200.6 implementing appropriations act requirements); and
 - (6) Are not a corporation with any unpaid Federal tax liability that has been assessed, for which all judicial and administrative remedies have been exhausted, or have lapsed, and that is not being paid in a timely manner pursuant to an agreement with the authority responsible for collecting the tax liability (USDOT Order 4200.6 implementing appropriations act requirements).
- b. Where the prospective participant is unable to certify to any of the statements in this certification, such prospective participant should attach an explanation to this proposal. 2 CFR 180.335 and 180.340.

3. Instructions for Certification - Lower Tier Participants:

- (Applicable to all subcontracts, purchase orders, and other lower tier transactions requiring prior FHWA approval or estimated to cost \$25,000 or more - 2 CFR Parts 180 and 1200). 2 CFR 180.220 and 1200.220.
- a. By signing and submitting this proposal, the prospective lower tier participant is providing the certification set out below.
- b. The certification in this clause is a material representation of fact upon which reliance was placed when this transaction was entered into. If it is later determined that the prospective lower tier participant knowingly rendered an erroneous certification, in addition to other remedies available to the Federal Government, the department, or agency with which

- this transaction originated may pursue available remedies, including suspension and/or debarment.
- c. The prospective lower tier participant shall provide immediate written notice to the person to which this proposal is submitted if at any time the prospective lower tier participant learns that its certification was erroneous by reason of changed circumstances. 2 CFR 180.365.
- d. The terms "covered transaction," "debarred," "suspended," "ineligible," "participant," "person," "principal," and "voluntarily excluded," as used in this clause, are defined in 2 CFR Parts 180, Subpart I, 180.900 – 180.1020, and 1200. You may contact the person to which this proposal is submitted for assistance in obtaining a copy of those regulations. "First Tier Covered Transactions" refers to any covered transaction between a recipient or subrecipient of Federal funds and a participant (such as the prime or general contract). "Lower Tier Covered Transactions" refers to any covered transaction under a First Tier Covered Transaction (such as subcontracts). "First Tier Participant" refers to the participant who has entered into a covered transaction with a recipient or subrecipient of Federal funds (such as the prime or general contractor). "Lower Tier Participant" refers any participant who has entered into a covered transaction with a First Tier Participant or other Lower Tier Participants (such as subcontractors and suppliers).
- e. The prospective lower tier participant agrees by submitting this proposal that, should the proposed covered transaction be entered into, it shall not knowingly enter into any lower tier covered transaction with a person who is debarred, suspended, declared ineligible, or voluntarily excluded from participation in this covered transaction, unless authorized by the department or agency with which this transaction originated. 2 CFR 1200.220 and 1200.332.
- f. The prospective lower tier participant further agrees by submitting this proposal that it will include this clause titled "Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion-Lower Tier Covered Transaction," without modification, in all lower tier covered transactions and in all solicitations for lower tier covered transactions exceeding the \$25,000 threshold. 2 CFR 180.220 and 1200.220.
- g. A participant in a covered transaction may rely upon a certification of a prospective participant in a lower tier covered transaction that is not debarred, suspended, ineligible, or voluntarily excluded from the covered transaction, unless it knows that the certification is erroneous. A participant is responsible for ensuring that its principals are not suspended, debarred, or otherwise ineligible to participate in covered transactions. To verify the eligibility of its principals, as well as the eligibility of any lower tier prospective participants, each participant may, but is not required to, check the System for Award Management website (<https://www.sam.gov/>), which is compiled by the General Services Administration. 2 CFR 180.300, 180.320, 180.330, and 180.335.
- h. Nothing contained in the foregoing shall be construed to require establishment of a system of records in order to render in good faith the certification required by this clause. The knowledge and information of participant is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealings.
- i. Except for transactions authorized under paragraph e of these instructions, if a participant in a covered transaction knowingly enters into a lower tier covered transaction with a person who is suspended, debarred, ineligible, or voluntarily

excluded from participation in this transaction, in addition to other remedies available to the Federal Government, the department or agency with which this transaction originated may pursue available remedies, including suspension and/or debarment. 2 CFR 180.325.

* * * * *

4. Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion--Lower Tier Participants:

a. The prospective lower tier participant certifies, by submission of this proposal, that neither it nor its principals:

(1) is presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participating in covered transactions by any Federal department or agency, 2 CFR 180.355;

(2) is a corporation that has been convicted of a felony violation under any Federal law within the two-year period preceding this proposal (USDOT Order 4200.6 implementing appropriations act requirements); and

(3) is a corporation with any unpaid Federal tax liability that has been assessed, for which all judicial and administrative remedies have been exhausted, or have lapsed, and that is not being paid in a timely manner pursuant to an agreement with the authority responsible for collecting the tax liability. (USDOT Order 4200.6 implementing appropriations act requirements)

b. Where the prospective lower tier participant is unable to certify to any of the statements in this certification, such prospective participant should attach an explanation to this proposal.

* * * * *

XI. CERTIFICATION REGARDING USE OF CONTRACT FUNDS FOR LOBBYING

This provision is applicable to all Federal-aid construction contracts and to all related subcontracts which exceed \$100,000. 49 CFR Part 20, App. A.

1. The prospective participant certifies, by signing and submitting this bid or proposal, to the best of his or her knowledge and belief, that:

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

b. If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any Federal agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, grant, loan, or

cooperative agreement, the undersigned shall complete and submit Standard Form-LLL, "Disclosure Form to Report Lobbying," in accordance with its instructions.

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

3. The prospective participant also agrees by submitting its bid or proposal that the participant shall require that the language of this certification be included in all lower tier subcontracts, which exceed \$100,000 and that all such recipients shall certify and disclose accordingly.

XII. USE OF UNITED STATES-FLAG VESSELS:

This provision is applicable to all Federal-aid construction contracts, design-build contracts, subcontracts, lower-tier subcontracts, purchase orders, lease agreements, or any other covered transaction. 46 CFR Part 381.

This requirement applies to material or equipment that is acquired for a specific Federal-aid highway project. 46 CFR 381.7. It is not applicable to goods or materials that come into inventories independent of an FHWA funded-contract.

When oceanic shipments (or shipments across the Great Lakes) are necessary for materials or equipment acquired for a specific Federal-aid construction project, the bidder, proposer, contractor, subcontractor, or vendor agrees:

1. To utilize privately owned United States-flag commercial vessels to ship at least 50 percent of the gross tonnage (computed separately for dry bulk carriers, dry cargo liners, and tankers) involved, whenever shipping any equipment, material, or commodities pursuant to this contract, to the extent such vessels are available at fair and reasonable rates for United States-flag commercial vessels. 46 CFR 381.7.

2. To furnish within 20 days following the date of loading for shipments originating within the United States or within 30 working days following the date of loading for shipments originating outside the United States, a legible copy of a rated, 'on-board' commercial ocean bill-of-lading in English for each shipment of cargo described in paragraph (b)(1) of this section to both the Contracting Officer (through the prime contractor in the case of subcontractor bills-of-lading) and to the Office of Cargo and Commercial Sealift (MAR-620), Maritime Administration, Washington, DC 20590. (MARAD requires copies of the ocean carrier's (master) bills of lading, certified onboard, dated, with rates and charges. These bills of lading may contain business sensitive information and therefore may be submitted directly to MARAD by the Ocean Transportation Intermediary on behalf of the contractor). 46 CFR 381.7.

**ATTACHMENT A - EMPLOYMENT AND MATERIALS
PREFERENCE FOR APPALACHIAN DEVELOPMENT
HIGHWAY SYSTEM OR APPALACHIAN LOCAL ACCESS
ROAD CONTRACTS (23 CFR 633, Subpart B, Appendix B)**

This provision is applicable to all Federal-aid projects funded under the Appalachian Regional Development Act of 1965.

1. During the performance of this contract, the contractor undertaking to do work which is, or reasonably may be, done as on-site work, shall give preference to qualified persons who regularly reside in the labor area as designated by the DOL wherein the contract work is situated, or the subregion, or the Appalachian counties of the State wherein the contract work is situated, except:

a. To the extent that qualified persons regularly residing in the area are not available.

b. For the reasonable needs of the contractor to employ supervisory or specially experienced personnel necessary to assure an efficient execution of the contract work.

c. For the obligation of the contractor to offer employment to present or former employees as the result of a lawful collective bargaining contract, provided that the number of nonresident persons employed under this subparagraph (1c) shall not exceed 20 percent of the total number of employees employed by the contractor on the contract work, except as provided in subparagraph (4) below.

2. The contractor shall place a job order with the State Employment Service indicating (a) the classifications of the laborers, mechanics and other employees required to perform the contract work, (b) the number of employees required in each classification, (c) the date on which the participant estimates such employees will be required, and (d) any other pertinent information required by the State Employment Service to complete the job order form. The job order may be placed with the State Employment Service in writing or by telephone. If during the course of the contract work, the information submitted by the contractor in the original job order is substantially modified, the participant shall promptly notify the State Employment Service.

3. The contractor shall give full consideration to all qualified job applicants referred to him by the State Employment Service. The contractor is not required to grant employment to any job applicants who, in his opinion, are not qualified to perform the classification of work required.

4. If, within one week following the placing of a job order by the contractor with the State Employment Service, the State Employment Service is unable to refer any qualified job applicants to the contractor, or less than the number requested, the State Employment Service will forward a certificate to the contractor indicating the unavailability of applicants. Such certificate shall be made a part of the contractor's permanent project records. Upon receipt of this certificate, the contractor may employ persons who do not normally reside in the labor area to fill positions covered by the certificate, notwithstanding the provisions of subparagraph (1c) above.

5. The provisions of 23 CFR 633.207(e) allow the contracting agency to provide a contractual preference for the use of mineral resource materials native to the Appalachian region.

6. The contractor shall include the provisions of Sections 1 through 4 of this Attachment A in every subcontract for work which is, or reasonably may be, done as on-site work.

**KENTUCKY TRANSPORTATION CABINET
DEPARTMENT OF HIGHWAYS**

**EMPLOYMENT REQUIREMENTS
RELATING TO
NONDISCRIMINATION OF EMPLOYEES
(APPLICABLE TO FEDERAL-AID SYSTEM CONTRACTS)**

**AN ACT OF THE KENTUCKY GENERAL ASSEMBLY
TO PREVENT DISCRIMINATION IN EMPLOYMENT**

**KRS CHAPTER 344
EFFECTIVE JUNE 16, 1972**

The contract on this project, in accordance with KRS Chapter 344, provides that during the performance of this contract, the contractor agrees as follows:

1. The contractor shall not fail or refuse to hire, or shall not discharge any individual, or otherwise discriminate against an individual with respect to his compensation, terms, conditions, or privileges of employment, because of such individual's race, color, religion, national origin, sex, disability or age (forty and above); or limit, segregate, or classify his employees in any way which would deprive or tend to deprive an individual of employment opportunities or otherwise adversely affect his status as an employee, because of such individual's race, color, religion, national origin, sex, disability or age forty (40) and over. The contractor agrees to post in conspicuous places, available to employees and applicants for employment, notices to be provided setting forth the provisions of this nondiscrimination clause.

2. The contractor shall not print or publish or cause to be printed or published a notice or advertisement relating to employment by such an employer or membership in or any classification or referral for employment by the employment agency, indicating any preference, limitation, specification, or discrimination, based on race, color, religion, national origin, sex, or age forty (40) and over, or because the person is a qualified individual with a disability, except that such a notice or advertisement may indicate a preference, limitation, or specification based on religion, national origin, sex, or age forty (40) and over, or because the person is a qualified individual with a disability, when religion, national origin, sex, or age forty (40) and over, or because the person is a qualified individual with a disability, is a bona fide occupational qualification for employment.

3. If the contractor is in control of apprenticeship or other training or retraining, including on-the-job training programs, he shall not discriminate against an individual because of his race, color, religion, national origin, sex, disability or age forty (40) and over, in admission to, or employment in any program established to provide apprenticeship or other training.

4. The contractor will send to each labor union or representative of workers with which he has a collective bargaining agreement or other contract or understanding, a notice to be provided advising the said labor union or workers' representative of the contractor's commitments under this section, and shall post copies of the notice in conspicuous places available to employees and applicants for employment. The contractor will take such action with respect to any subcontract or purchase order as the administering agency may direct as a means of enforcing such provisions, including sanctions for non-compliance.

Revised: January 25, 2017

Standard Title VI/Non-Discrimination Assurances

During the performance of this contract, the contractor, for itself, its assignees, and successors in interest (hereinafter referred to as the "contractor") agrees as follows:

1. **Compliance with Regulations:** The contractor (hereinafter includes consultants) will comply with the Acts and the Regulations relative to Non-discrimination in Federally-assisted programs of the U.S. Department of Transportation, **Federal Highway Administration**, as they may be amended from time to time, which are herein incorporated by reference and made a part of this contract.
2. **Non-discrimination:** The contractor, with regard to the work performed by it during the contract, will not discriminate on the grounds of race, color, or national origin in the selection and retention of subcontractors, including procurements of materials and leases of equipment. The contractor will not participate directly or indirectly in the discrimination prohibited by the Acts and the Regulations, including employment practices when the contract covers any activity, project, or program set forth in Appendix B of 49 CFR Part 21.
3. **Solicitations for Subcontracts, Including Procurements of Materials and Equipment:** In all solicitations, either by competitive bidding, or negotiation made by the contractor for work to be performed under a subcontract, including procurements of materials, or leases of equipment, each potential subcontractor or supplier will be notified by the contractor of the contractor's obligations under this contract and the Acts and the Regulations relative to Non-discrimination on the grounds of race, color, or national origin.
4. **Information and Reports:** The contractor will provide all information and reports required by the Acts, the Regulations, and directives issued pursuant thereto and will permit access to its books, records, accounts, other sources of information, and its facilities as may be determined by the Recipient or the **Federal Highway Administration** to be pertinent to ascertain compliance with such Acts, Regulations, and instructions. Where any information required of a contractor is in the exclusive possession of another who fails or refuses to furnish the information, the contractor will so certify to the Recipient or the **Federal Highway Administration**, as appropriate, and will set forth what efforts it has made to obtain the information.
5. **Sanctions for Noncompliance:** In the event of a contractor's noncompliance with the Non-discrimination provisions of this contract, the Recipient will impose such contract sanctions as it or the **Federal Highway Administration** may determine to be appropriate, including, but not limited to:
 - a. withholding payments to the contractor under the contract until the contractor complies; and/or
 - b. cancelling, terminating, or suspending a contract, in whole or in part.
6. **Incorporation of Provisions:** The contractor will include the provisions of paragraphs one through six in every subcontract, including procurements of materials and leases of equipment, unless exempt by the Acts, the Regulations and directives issued pursuant thereto. The contractor will take action with respect to any subcontract or procurement as the Recipient or the **Federal Highway Administration** may direct as a means of enforcing such provisions including sanctions for noncompliance. Provided, that if the contractor becomes involved in, or is threatened with litigation by a subcontractor, or supplier because of such direction, the contractor may request the Recipient to enter into any litigation to protect the interests of the Recipient. In addition, the contractor may request the United States to enter into the litigation to protect the interests of the United States.

Standard Title VI/Non-Discrimination Statutes and Authorities

During the performance of this contract, the contractor, for itself, its assignees, and successors in interest (hereinafter referred to as the “contractor”) agrees to comply with the following non-discrimination statutes and authorities; including but not limited to:

- Title VI of the Civil Rights Act of 1964 (42 U.S.C. § 2000d *et seq.*, 78 stat. 252), (prohibits discrimination on the basis of race, color, national origin); and 49 CFR Part 21;
- The Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970, (42 U.S.C. § 4601), (prohibits unfair treatment of persons displaced or whose property has been acquired because of Federal or Federal-aid programs and projects);
- Federal-Aid Highway Act of 1973, (23 U.S.C. § 324 *et seq.*), (prohibits discrimination on the basis of sex);
- Section 504 of the Rehabilitation Act of 1973, (29 U.S.C. § 794 *et seq.*), as amended, (prohibits discrimination on the basis of disability); and 49 CFR Part 27;
- The Age Discrimination Act of 1975, as amended, (42 U.S.C. § 6101 *et seq.*), (prohibits discrimination on the basis of age);
- Airport and Airway Improvement Act of 1982, (49 USC § 471, Section 47123), as amended, (prohibits discrimination based on race, creed, color, national origin, or sex);
- The Civil Rights Restoration Act of 1987, (PL 100-209), (Broadened the scope, coverage and applicability of Title VI of the Civil Rights Act of 1964, The Age Discrimination Act of 1975 and Section 504 of the Rehabilitation Act of 1973, by expanding the definition of the terms “programs or activities” to include all of the programs or activities of the Federal-aid recipients, sub-recipients and contractors, whether such programs or activities are Federally funded or not);
- Titles II and III of the Americans with Disabilities Act, which prohibit discrimination on the basis of disability in the operation of public entities, public and private transportation systems, places of public accommodation, and certain testing entities (42 U.S.C. §§ 12131 -- 12189) as implemented by Department of Transportation regulations at 49 C.F.R. parts 37 and 38;
- The Federal Aviation Administration’s Non-discrimination statute (49 U.S.C. § 47123) (prohibits discrimination on the basis of race, color, national origin, and sex);
- Executive Order 12898, Federal Actions to Address Environmental Justice in Minority Populations and Low-Income Populations, which ensures non-discrimination against minority populations by discouraging programs, policies, and activities with disproportionately high and adverse human health or environmental effects on minority and low-income populations;
- Executive Order 13166, Improving Access to Services for Persons with Limited English Proficiency, and resulting agency guidance, national origin discrimination includes discrimination because of limited English proficiency (LEP). To ensure compliance with Title VI, you must take reasonable steps to ensure that LEP persons have meaningful access to your programs (70 Fed. Reg. at 74087 to 74100);
- Title IX of the Education Amendments of 1972, as amended, which prohibits you from discriminating because of sex in education programs or activities (20 U.S.C. 1681 *et seq.*).

EXECUTIVE BRANCH CODE OF ETHICS

In the 1992 regular legislative session, the General Assembly passed and Governor Brereton Jones signed Senate Bill 63 (codified as KRS 11A), the Executive Branch Code of Ethics, which states, in part:

KRS 11A.040 (7) provides:

No present or former public servant shall, within six (6) months following termination of his office or employment, accept employment, compensation, or other economic benefit from any person or business that contracts or does business with, or is regulated by, the state in matters in which he was directly involved during the last thirty-six (36) months of his tenure. This provision shall not prohibit an individual from returning to the same business, firm, occupation, or profession in which he was involved prior to taking office or beginning his term of employment, or for which he received, prior to his state employment, a professional degree or license, provided that, for a period of six (6) months, he personally refrains from working on any matter in which he was directly involved during the last thirty-six (36) months of his tenure in state government. This subsection shall not prohibit the performance of ministerial functions, including but not limited to filing tax returns, filing applications for permits or licenses, or filing incorporation papers, nor shall it prohibit the former officer or public servant from receiving public funds disbursed through entitlement programs.

KRS 11A.040 (9) states:

A former public servant shall not represent a person or business before a state agency in a matter in which the former public servant was directly involved during the last thirty-six (36) months of his tenure, for a period of one (1) year after the latter of:

- a) The date of leaving office or termination of employment; or
- b) The date the term of office expires to which the public servant was elected.

This law is intended to promote public confidence in the integrity of state government and to declare as public policy the idea that state employees should view their work as a public trust and not as a way to obtain private benefits.

If you have worked for the executive branch of state government within the past six months, you may be subject to the law's prohibitions. The law's applicability may be different if you hold elected office or are contemplating representation of another before a state agency.

Also, if you are affiliated with a firm which does business with the state and which employs former state executive-branch employees, you should be aware that the law may apply to them.

In case of doubt, the law permits you to request an advisory opinion from the Executive Branch Ethics Commission, 1025 Capital Center Drive, Suite 104, Frankfort, Kentucky 40601; telephone (502) 564-7954.

Revised: May 23, 2022

"General Decision Number: KY20240040 11/15/2024

Superseded General Decision Number: KY20230040

State: Kentucky

Construction Type: Highway

Counties: Allen, Ballard, Butler, Caldwell, Calloway, Carlisle, Christian, Crittenden, Daviess, Edmonson, Fulton, Graves, Hancock, Henderson, Hickman, Hopkins, Livingston, Logan, Lyon, Marshall, McCracken, McLean, Muhlenberg, Ohio, Simpson, Todd, Trigg, Union, Warren and Webster Counties in Kentucky.

HIGHWAY CONSTRUCTION PROJECTS (excluding tunnels, building structures in rest area projects & railroad construction; bascule, suspension & spandrel arch bridges designed for commercial navigation, bridges involving marine construction; and other major bridges).

Note: Contracts subject to the Davis-Bacon Act are generally required to pay at least the applicable minimum wage rate required under Executive Order 14026 or Executive Order 13658. Please note that these Executive Orders apply to covered contracts entered into by the federal government that are subject to the Davis-Bacon Act itself, but do not apply to contracts subject only to the Davis-Bacon Related Acts, including those set forth at 29 CFR 5.1(a)(1).

If the contract is entered into on or after January 30, 2022, or the contract is renewed or extended (e.g., an option is exercised) on or after January 30, 2022:	<ul style="list-style-type: none">. Executive Order 14026 generally applies to the contract.. The contractor must pay all covered workers at least \$17.20 per hour (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on the contract in 2024.
If the contract was awarded on or between January 1, 2015 and January 29, 2022, and the contract is not renewed or extended on or after January 30, 2022:	<ul style="list-style-type: none">. Executive Order 13658 generally applies to the contract.. The contractor must pay all covered workers at least \$12.90 per hour (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on that contract in 2024.

The applicable Executive Order minimum wage rate will be adjusted annually. If this contract is covered by one of the Executive Orders and a classification considered necessary for performance of work on the contract does not appear on this wage determination, the contractor must still submit a conformance request.

Additional information on contractor requirements and worker protections under the Executive Orders is available at <http://www.dol.gov/whd/govcontracts>.

Modification Number	Publication Date
0	01/05/2024
1	02/09/2024
2	03/15/2024
3	05/31/2024
4	07/05/2024
5	09/06/2024
6	09/13/2024
7	09/20/2024
8	10/11/2024
9	11/08/2024
10	11/15/2024

BRIN0004-002 06/01/2023

BALLARD, BUTLER, CALDWELL, CARLISLE, CRITTENDEN, DAVIESS, EDMONSON, FULTON, GRAVES, HANCOCK, HENDERSON, HICKMAN, HOPKINS, LIVINGSTON, LYON, MARSHALL, MCCRACKEN, MCLEAN, MUHLENBERG, OHIO, UNION, and WEBSTER COUNTIES

	Rates	Fringes
BRICKLAYER		
Ballard, Caldwell, Carlisle, Crittenden, Fulton, Graves, Hickman, Livingston, Lyon, Marshall, and McCracken Counties.....	\$ 34.17	19.60
Butler, Edmonson, Hopkins, Muhlenberg, and Ohio Counties.....	\$ 32.28	15.95
Daviess, Hancock, Henderson, McLean, Union, and Webster Counties.....	\$ 34.17	19.60

BRTN0004-005 06/01/2023

ALLEN, CALLOWAY, CHRISTIAN, LOGAN, SIMPSON, TODD, TRIGG, and WARREN COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 32.28	15.95

CARP0357-002 06/01/2024

	Rates	Fringes
CARPENTER.....	\$ 30.16	20.87
DIVER.....	\$ 49.73	23.37
PILEDRIVERMAN.....	\$ 30.16	20.87

ELEC0369-006 05/29/2024

BUTLER, EDMONSON, LOGAN, TODD & WARREN COUNTIES:

	Rates	Fringes
ELECTRICIAN.....	\$ 37.88	21.38

ELEC0429-001 06/01/2024		

ALLEN & SIMPSON COUNTIES:

	Rates	Fringes
ELECTRICIAN.....	\$ 34.92	14.75

ELEC0816-002 06/01/2024		

BALLARD, CALDWELL, CALLOWAY, CARLISLE, CHRISTIAN, CRITTENDEN,
FULTON (Except a 5 mile radius of City Hall in Fulton), GRAVES,
HICKMAN, LIVINGSTON, LYON, MARSHALL, MCCRACKEN & TRIGG COUNTIES:

	Rates	Fringes
ELECTRICIAN.....	\$ 35.67	28%+8.60

Cable spicers receive \$.25 per hour additional.		

ELEC1701-003 07/01/2024		

DAVIESS, HANCOCK, HENDERSON, HOPKINS, MCLEAN, MUHLENBERG, OHIO,
UNION & WEBSTER COUNTIES:

	Rates	Fringes
ELECTRICIAN.....	\$ 37.10	8.60+30.8%

Cable spicers receive \$.25 per hour additional.		

ELEC1925-002 01/01/2024		

FULTON COUNTY (Up to a 5 mile radius of City Hall in Fulton):

	Rates	Fringes
CABLE SPLICER.....	\$ 28.20	15.27
ELECTRICIAN.....	\$ 27.95	15.26

ENGI0181-017 07/01/2024		

	Rates	Fringes
POWER EQUIPMENT OPERATOR		
GROUP 1.....	\$ 40.05	19.10
GROUP 2.....	\$ 37.19	19.10
GROUP 3.....	\$ 37.64	19.10
GROUP 4.....	\$ 36.87	19.10

OPERATING ENGINEER CLASSIFICATIONS

GROUP 1 - A-Frame Winch Truck; Auto Patrol; Backfiller;
Batcher Plant; Bituminous Paver; Bituminous Transfer
Machine; Boom Cat; Bulldozer; Mechanic; Cableway; Carry-All
Scoop; Carry Deck Crane; Central Compressor Plant; Cherry
Picker; Clamshell; Concrete Mixer (21 cu. ft. or Over);
Concrete Paver; Truck-Mounted Concrete Pump; Core Drill;
Crane; Crusher Plant; Derrick; Derrick Boat; Ditching &

Trenching Machine; Dragline; Dredge Operator; Dredge Engineer; Elevating Grader & Loaders; Grade-All; Gurries; Heavy Equipment Robotics Operator/Mechanic; High Lift; Hoe-Type Machine; Hoist (Two or More Drums); Hoisting Engine (Two or More Drums); Horizontal Directional Drill Operator; Hydrocrane; Hyster; KeCal Loader; LeTourneau; Locomotive; Mechanic; Mechanically Operated Laser Screed; Mechanic Welder; Mucking Machine; Motor Scraper; Orangepeel Bucket; Overhead Crane; Piledriver; Power Blade; Pumpcrete; Push Dozer; Rock Spreader, attached to equipment; Rotary Drill; Roller (Bituminous); Rough Terrain Crane; Scarifier; Scoopmobile; Shovel; Side Boom; Subgrader; Tailboom; Telescoping Type Forklift; Tow or Push Boat; Tower Crane (French, German & other types); Tractor Shovel; Truck Crane; Tunnel Mining Machines, including Moles, Shields or similar types of Tunnel Mining Equipment

GROUP 2 - Air Compressor (Over 900 cu. ft. per min.); Bituminous Mixer; Boom Type Tamping Machine; Bull Float; Concrete Mixer (Under 21 cu. ft.); Dredge Engineer; Electric Vibrator; Compactor/Self-Propelled Compactor; Elevator (One Drum or Buck Hoist); Elevator (When used to Hoist Building Material); Finish Machine; Firemen & Hoist (One Drum); Flexplane; Forklift (Regardless of Lift Height); Form Grader; Joint Sealing Machine; Outboard Motor Boat; Power Sweeper (Riding Type); Roller (Rock); Ross Carrier; Skid Mounted or Trailer Mounted Concrete Pump; Skid Steer Machine with all Attachments; Switchman or Brakeman; Throttle Valve Person; Tractair & Road Widening Trencher; Tractor (50 H.P. or Over); Truck Crane Oiler; Tugger; Welding Machine; Well Points;& Whirley Oiler

GROUP 3 -All Off Road Material Handling Equipment, including Articulating Dump Trucks; Greaser on Grease Facilities servicing Heavy Equipment

GROUP 4 - Bituminous Distributor; Burlap & Curing Machine; Cement Gun; Concrete Saw; Conveyor; Deckhand Oiler; Grout Pump; Hydraulic Post Driver; Hydro Seeder; Mud Jack; Oiler; Paving Joint Machine; Power Form Handling Equipment; Pump; Roller (Earth); Steerman; Tamping Machine; Tractor (Under 50 H.P.); & Vibrator

CRANES - with booms 150 ft. & Over (Including JIB), and where the length of the boom in combination with the length of the piling equals or exceeds 150 ft. - \$1.00 above Group 1 rate

EMPLOYEES ASSIGNED TO WORK BELOW GROUND LEVEL ARE TO BE PAID 10% ABOVE BASIC WAGE RATE. THIS DOES NOT APPLY TO OPEN CUT WORK.

IRON0070-005 06/01/2024

BUTLER COUNTY (Eastern eighth, including the Townships of Decker, Lee & Tilford);
EDMONSON COUNTY (Northern three-fourths, including the Townships of Asphalt, Bee Spring, Brownsville, Grassland, Huff, Kyrock, Lindseyville, Mammoth Cave, Ollie, Prosperity, Rhoda, Sunfish & Sweden)

IRONWORKER		
Structural; Ornamental; Reinforcing; Precast Concrete Erectors.....\$ 34.59		
		25.00

IRON0103-004 08/01/2024		

DAVIESS, HANCOCK, HENDERSON, HOPKINS, MCLEAN, OHIO, UNION &
WEBSTER COUNTIES
BUTLER COUNTY (Townships of Aberdeen, Bancock, Casey,
Dexterville, Dunbar, Elfie, Gilstrap, Huntsville, Logansport,
Monford, Morgantown, Provo, Rochester, South Hill & Welchs
Creek);
CALDWELL COUNTY (Northeastern third, including the Township of
Creswell);
CHRISTIAN COUNTY (Northern third, including the Townships of
Apex, Crofton, Kelly, Mannington & Wynns);
CRITTENDEN COUNTY (Northeastern half, including the Townships
of Grove, Mattoon, Repton, Shady Grove & Tribune);
MUHLENBERG COUNTY (Townships of Bavier, Beech Creek Junction,
Benton, Brennen, Browder, Central City, Cleaton, Depoy,
Drakesboro, Eunis, Graham, Hillside, Luzerne, Lynn City,
Martwick, McNary, Millport, Moorman, Nelson, Paradise,
Powderly, South Carrollton, Tarina & Weir)

	Rates	Fringes
Ironworkers:.....	\$ 35.34	26.4

IRON0492-003 05/01/2024		

ALLEN, LOGAN, SIMPSON, TODD & WARREN COUNTIES
BUTLER COUNTY (Southern third, including the Townships of
Boston, Berrys Lick, Dimple, Jetson, Quality, Sharer, Sugar
Grove & Woodbury);
CHRISTIAN COUNTY (Eastern two-thirds, including the Townships
of Bennettstown, Casky, Herndon, Hopkinsville, Howell,
Masonville, Pembroke & Thompsonville);
EDMONSON COUNTY (Southern fourth, including the Townships of
Chalybeate & Rocky Hill);
MUHLENBERG COUNTY (Southern eighth, including the Townships of
Dunnior, Penrod & Rosewood)

	Rates	Fringes
Ironworkers:.....	\$ 33.73	16.38

IRON0782-006 08/01/2024		

BALLARD, CALLOWAY, CARLISLE, FULTON, GRAVES, HICKMAN,
LIVINGSTON, LYON, MARSHALL, MCCracken & TRIGG COUNTIES
CALDWELL COUNTY (Southwestern two-thirds, including the
Townships of Cedar Bluff, Cider, Claxton, Cobb, Crowtown,
Dulaney, Farmersville, Fredonia, McGowan, Otter Pond &
Princeton);
CHRISTIAN COUNTY (Western third, Excluding the Townships of
Apex, Crofton, Kelly, Mannington, Wynns, Bennettstown, Casky,
Herndon, Hopkinsville, Howell, Masonville, Pembroke &
Thompsonville);
CRITTENDEN COUNTY (Southwestern half, including the Townships
of Crayne, Dycusburg, Frances, Marion, Mexico, Midway,
Sheridan & Told)

	Rates	Fringes
Ironworkers:		
Projects with a total contract cost of \$20,000,000.00 or above.....	\$ 35.75	26.34
All Other Work.....	\$ 34.01	24.83

* LAB00189-005 07/01/2024

BALLARD, CALLOWAY, CARLISLE, FULTON, GRAVES, HICKMAN, LIVINGSTON, LYON, MARSHALL & MCCracken COUNTIES

	Rates	Fringes
Laborers:		
GROUP 1.....	\$ 23.96	18.58
GROUP 2.....	\$ 24.21	18.58
GROUP 3.....	\$ 24.26	18.58
GROUP 4.....	\$ 24.86	18.58

LABORER CLASSIFICATIONS

GROUP 1 - Aging & Curing of Concrete; Asbestos Abatement Worker; Asphalt Plant; Asphalt; Batch Truck Dump; Carpenter Tender; Cement Mason Tender; Cleaning of Machines; Concrete; Demolition; Dredging; Environmental - Nuclear, Radiation, Toxic & Hazardous Waste - Level D; Flagperson; Grade Checker; Hand Digging & Hand Back Filling; Highway Marker Placer; Landscaping, Mesh Handler & Placer; Puddler; Railroad; Rip-rap & Grouter; Right-of-Way; Sign, Guard Rail & Fence Installer; Signal Person; Sound Barrier Installer; Storm & Sanitary Sewer; Swamper; Truck Spotter & Dumper; Wrecking of Concrete Forms; General Cleanup

GROUP 2 - Batter Board Man (Sanitary & Storm Sewer); Brickmason Tender; Mortar Mixer Operator; Scaffold Builder; Burner & Welder; Bushhammer; Chain Saw Operator; Concrete Saw Operator; Deckhand Scow Man; Dry Cement Handler; Environmental - Nuclear, Radiation, Toxic & Hazardous Waste - Level C; Forklift Operator for Masonary; Form Setter; Green Concrete Cutting; Hand Operated Grouter & Grinder Machine Operator; Jackhammer; Pavement Breaker; Paving Joint Machine; Pipelayer; Plastic Pipe Fusion; Power Driven Georgia Buggy & Wheel Barrow; Power Post Hole Digger; Precast Manhole Setter; Walk-Behind Tamper; Walk-Behind Trencher; Sand Blaster; Concrete Chipper; Surface Grinder; Vibrator Operator; Wagon Driller

GROUP 3 - Asphalt Luteman & Raker; Gunnite Nozzleman; Gunnite Operator & Mixer; Grout Pump Operator; Blaster; Side Rail Setter; Rail Paved Ditches; Screw Operator; Tunnel (Free Air); Water Blaster

GROUP 4 - Caisson Worker (Free Air); Cement Finisher; Environmental - Nuclear, Radiation, Toxic & Hazardous Waste - Levels A & B; Miner & Driller (Free Air); Tunnel Blaster; & Tunnel Mucker (Free Air); Directional & Horizontal Boring; Air Track Drillers (All Types); Powdermen & Blasters; Troxler & Concrete Tester if Laborer is Utilized

* LAB00189-006 07/01/2024

ALLEN, BUTLER, CALDWELL, CHRISTIAN, DAVIESS, EDMONSON, HANCOCK,
HOPKINS, LOGAN, MCLEAN, MUHLENBERG, OHIO, SIMPSON, TODD, TRIGG
& WARREN COUNTIES

	Rates	Fringes
Laborers:		
GROUP 1.....	\$ 23.96	18.58
GROUP 2.....	\$ 24.26	18.58
GROUP 3.....	\$ 24.21	18.58
GROUP 4.....	\$ 24.86	18.58

LABORER CLASSIFICATIONS

GROUP 1 - Aging & Curing of Concrete; Asbestos Abatement Worker; Asphalt Plant; Asphalt; Batch Truck Dump; Carpenter Tender; Cement Mason Tender; Cleaning of Machines; Concrete; Demolition; Dredging; Environmental - Nuclear, Radiation, Toxic & Hazardous Waste - Level D; Flagperson; Grade Checker; Hand Digging & Hand Back Filling; Highway Marker Placer; Landscaping, Mesh Handler & Placer; Puddler; Railroad; Rip-rap & Grouter; Right-of-Way; Sign, Guard Rail & Fence Installer; Signal Person; Sound Barrier Installer; Storm & Sanitary Sewer; Swamper; Truck Spotter & Dumper; Wrecking of Concrete Forms; General Cleanup

GROUP 2 - Batter Board Man (Sanitary & Storm Sewer); Brickmason Tender; Mortar Mixer Operator; Scaffold Builder; Burner & Welder; Bushhammer; Chain Saw Operator; Concrete Saw Operator; Deckhand Scow Man; Dry Cement Handler; Environmental - Nuclear, Radiation, Toxic & Hazardous Waste - Level C; Forklift Operator for Masonary; Form Setter; Green Concrete Cutting; Hand Operated Grouter & Grinder Machine Operator; Jackhammer; Pavement Breaker; Paving Joint Machine; Pipelayer; Plastic Pipe Fusion; Power Driven Georgia Buggy & Wheel Barrow; Power Post Hole Digger; Precast Manhole Setter; Walk-Behind Tamper; Walk-Behind Trencher; Sand Blaster; Concrete Chipper; Surface Grinder; Vibrator Operator; Wagon Driller

GROUP 3 - Asphalt Luteman & Raker; Gunnite Nozzleman; Gunnite Operator & Mixer; Grout Pump Operator; Blaster; Side Rail Setter; Rail Paved Ditches; Screw Operator; Tunnel (Free Air); Water Blaster

GROUP 4 - Caisson Worker (Free Air); Cement Finisher; Environmental - Nuclear, Radiation, Toxic & Hazardous Waste - Levels A & B; Miner & Driller (Free Air); Tunnel Blaster; & Tunnel Mucker (Free Air); Directional & Horizontal Boring; Air Track Drillers (All Types); Powdermen & Blasters; Troxler & Concrete Tester if Laborer is Utilized

* LAB00561-001 07/01/2024

CRITTENDEN, HENDERSON, UNION & WEBSTER COUNTIES

	Rates	Fringes
Laborers:		
GROUP 1.....	\$ 25.22	18.10
GROUP 2.....	\$ 25.47	18.10
GROUP 3.....	\$ 25.52	18.10

GROUP 4.....\$ 26.12

18.10

LABORER CLASSIFICATIONS

GROUP 1 - Aging & Curing of Concrete; Asbestos Abatement Worker; Asphalt Plant; Asphalt; Batch Truck Dump; Carpenter Tender; Cement Mason Tender; Cleaning of Machines; Concrete; Demolition; Dredging; Environmental - Nuclear, Radiation, Toxic & Hazardous Waste - Level D; Flagperson; Grade Checker; Hand Digging & Hand Back Filling; Highway Marker Placer; Landscaping, Mesh Handler & Placer; Puddler; Railroad; Rip-rap & Grouter; Right-of-Way; Sign, Guard Rail & Fence Installer; Signal Person; Sound Barrier Installer; Storm & Sanitary Sewer; Swamper; Truck Spotter & Dumper; Wrecking of Concrete Forms; General Cleanup

GROUP 2 - Batter Board Man (Sanitary & Storm Sewer); Brickmason Tender; Mortar Mixer Operator; Scaffold Builder; Burner & Welder; Bushhammer; Chain Saw Operator; Concrete Saw Operator; Deckhand Scow Man; Dry Cement Handler; Environmental - Nuclear, Radiation, Toxic & Hazardous Waste - Level C; Forklift Operator for Masonary; Form Setter; Green Concrete Cutting; Hand Operated Grouter & Grinder Machine Operator; Jackhammer; Pavement Breaker; Paving Joint Machine; Pipelayer; Plastic Pipe Fusion; Power Driven Georgia Buggy & Wheel Barrow; Power Post Hole Digger; Precast Manhole Setter; Walk-Behind Tamper; Walk-Behind Trencher; Sand Blaster; Concrete Chipper; Surface Grinder; Vibrator Operator; Wagon Driller

GROUP 3 - Asphalt Luteman & Raker; Gunnite Nozzleman; Gunnite Operator & Mixer; Grout Pump Operator; Blaster; Side Rail Setter; Rail Paved Ditches; Screw Operator; Tunnel (Free Air); Water Blaster

GROUP 4 - Caisson Worker (Free Air); Cement Finisher; Environmental - Nuclear, Radiation, Toxic & Hazardous Waste - Levels A & B; Miner & Driller (Free Air); Tunnel Blaster; & Tunnel Mucker (Free Air); Directional & Horizontal Boring; Air Track Drillers (All Types); Powdermen & Blasters; Troxler & Concrete Tester if Laborer is Utilized

PAIN0032-002 09/01/2024

BALLARD COUNTY

	Rates	Fringes
Painters:		
Bridges.....	\$ 36.77	21.77
All Other Work.....	\$ 34.47	21.77

Spray, Blast, Steam, High & Hazardous (Including Lead Abatement) and All Epoxy - \$1.00 Premium

PAIN0118-003 06/01/2014

EDMONSON COUNTY:

	Rates	Fringes
Painters:		
Brush & Roller.....	\$ 18.50	11.97

DAVIESS COUNTY
HSIP 0601(215)

Spray, Sandblast, Power Tools, Waterblast & Steam Cleaning.....	\$ 19.50	11.97

PAIN0156-006 04/01/2024		

DAVIESS, HANCOCK, HENDERSON, MCLEAN, OHIO, UNION & WEBSTER
COUNTIES

	Rates	Fringes
Painters:		
BRIDGES		
GROUP 1.....	\$ 30.77	20.30
GROUP 3.....	\$ 31.77	20.30
GROUP 4.....	\$ 35.00	20.30
ALL OTHER WORK:		
GROUP 1.....	\$ 29.62	20.30
GROUP 2.....	\$ 30.37	20.30
GROUP 3.....	\$ 30.62	20.30
GROUP 4.....	\$ 31.77	20.30

PAINTER CLASSIFICATIONS

GROUP 1 - Brush & Roller

GROUP 2 - Plasterers

GROUP 3 - Spray; Sandblast; Power Tools; Waterblast;
Steamcleaning; Brush & Roller of Mastics, Creosotes, Kwinch
Koate & Coal Tar Epoxy

GROUP 4 - Spray of Mastics, Creosotes, Kwinch Koate & Coal
Tar Epoxy

PAIN0500-002 06/01/2024		

CALDWELL, CALLOWAY, CARLISLE, CHRISTIAN, CRITTENDEN, FULTON,
GRAVES, HICKMAN, HOPKINS, LIVINGSTON, LYON, MARSHALL, MCCracken
& TRIGG COUNTIES:

	Rates	Fringes
Painters:		
Bridges.....	\$ 30.75	15.50
All Other Work.....	\$ 24.50	15.50

Waterblasting units with 3500 PSI and above - \$.50 premium
Spraypainting and all abrasive blasting - \$1.00 premium
Work 40 ft. and above ground level - \$1.00 premium

PLUM0184-002 07/01/2024		

BALLARD, CALDWELL, CALLOWAY, CARLISLE, CHRISTIAN, CRITTENDEN,
FULTON, GRAVES, HICKMAN, LIVINGSTON, LYON, MARSHALL, MCCracken
and TRIGG COUNTIES

	Rates	Fringes
Plumber; Steamfitter.....	\$ 41.01	20.28

PLUM0502-004 08/01/2024

ALLEN, BUTLER, EDMONSON, SIMPSON & WARREN

	Rates	Fringes
Plumber; Steamfitter.....	\$ 41.90	24.89

PLUM0633-002 07/01/2022

DAVIESS, HANCOCK, HENDERSON, HOPKINS, LOGAN, MCLEAN,
MUHLENBERG, OHIO, TODD, UNION & WEBSTER COUNTIES:

	Rates	Fringes
PLUMBER/PIPEFITTER.....	\$ 33.97	19.30

TEAM0089-003 03/31/2024

ALLEN, BUTLER, EDMONSON, LOGAN, SIMPSON & WARREN COUNTIES

	Rates	Fringes
Truck drivers:		
Zone 1:		
Group 1.....	\$ 23.53	27.39
Group 2.....	\$ 23.70	27.39
Group 3.....	\$ 23.78	27.39
Group 4.....	\$ 23.80	27.39

GROUP 1 - Greaser; Tire Changer

GROUP 2 - Truck Mechanic; Single Axle Dump; Flat Bed; All
Terrain Vehicles when used to haul materials; Semi Trailer
or Pole Trailer when used to pull building materials and
equipment; Tandem Axle Dump; Driver of Distributors

GROUP 3 - Mixer All Types

GROUP 4 - Winch and A-Frame when used in transporting
materials; Ross Carrier; Fork Lift when used to transport
building materials; Driver on Pavement Breaker; Euclid and
Other Heavy Earth Moving Equipment; Low Boy; Articulator
Cat; Five Axle Vehicle

TEAM0215-003 03/31/2024

DAVIESS, HANCOCK, HENDERSON, HOPKINS, MCLEAN, MUHLENBERG, OHIO
& WEBSTER COUNTIES

	Rates	Fringes
TRUCK DRIVER		
Group 1.....	\$ 25.15	27.39
Group 2.....	\$ 25.38	27.39
Group 3.....	\$ 25.45	27.39
Group 4.....	\$ 25.46	27.39

GROUP 1: Greaser, Tire Changer

GROUP 2: Truck Mechanic

GROUP 3: Single Axle Dump; Flat Bed; All Terrain Vehicle when used to haul materials; Semi Trailer or Pole Trailer when used to pull building materials and equipment; Tandem Axle Dump; Driver of Distributors; Mixer All Types

GROUP 4: Euclid and other heavy earth moving equipment; Low Boy; Articulator Cat; 5 Axle Vehicle; Winch and A- Frame when used in transporting materials; Ross Carrier; Fork Lift when used to transport building materials; Driver on Pavement Breaker

TEAM0236-001 03/31/2024

BALLARD, CALDWELL, CALLOWAY, CARLISLE, CHRISTIAN, CRITTENDEN, FULTON, GRAVES, HICKMAN, LIVINGSTON, LYON, MARSHALL, MCCracken,TODD & TRIGG COUNTIES

	Rates	Fringes
TRUCK DRIVER		
Group 1.....	\$ 23.52	27.39
Group 2.....	\$ 23.70	27.39
Group 3.....	\$ 23.70	27.39
Group 4.....	\$ 23.78	27.39
Group 5.....	\$ 23.80	27.39

GROUP 1: Greaser, Tire Changer

GROUP 2: Truck Mechanic

GROUP 3: Single Axle Dump; Flat Bed; All Terrain Vehicle when used to haul materials; Semi Trailer or Pole Trailer when used to pull building materials and equipment; Tandem Axle Dump; Drivers of Distributors

GROUP 4: Euclid and other heavy earth moving equipment; Low Boy; Articulator Cat; Five Axle Vehicle; Winch and A-Frame when used in transporting materials; Ross Carrier

GROUP 5: Mixer All Types

WELDERS - Receive rate prescribed for craft performing operation to which welding is incidental.
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Note: Executive Order (EO) 13706, Establishing Paid Sick Leave for Federal Contractors applies to all contracts subject to the Davis-Bacon Act for which the contract is awarded (and any solicitation was issued) on or after January 1, 2017. If this contract is covered by the EO, the contractor must provide employees with 1 hour of paid sick leave for every 30 hours they work, up to 56 hours of paid sick leave each year. Employees must be permitted to use paid sick leave for their own illness, injury or other health-related needs, including preventive care; to assist a family member (or person who is like family to the employee) who is ill, injured, or has other health-related needs, including preventive care; or for reasons resulting from, or to assist a family member (or person who is like family to the employee) who is a victim of, domestic

violence, sexual assault, or stalking. Additional information on contractor requirements and worker protections under the EO is available at <https://www.dol.gov/agencies/whd/government-contracts>.

Unlisted classifications needed for work not included within the scope of the classifications listed may be added after award only as provided in the labor standards contract clauses (29CFR 5.5 (a) (1) (iii)).

The body of each wage determination lists the classification and wage rates that have been found to be prevailing for the cited type(s) of construction in the area covered by the wage determination. The classifications are listed in alphabetical order of ""identifiers"" that indicate whether the particular rate is a union rate (current union negotiated rate for local), a survey rate (weighted average rate) or a union average rate (weighted union average rate).

Union Rate Identifiers

A four letter classification abbreviation identifier enclosed in dotted lines beginning with characters other than ""SU"" or ""UAVG"" denotes that the union classification and rate were prevailing for that classification in the survey. Example: PLUM0198-005 07/01/2014. PLUM is an abbreviation identifier of the union which prevailed in the survey for this classification, which in this example would be Plumbers. 0198 indicates the local union number or district council number where applicable, i.e., Plumbers Local 0198. The next number, 005 in the example, is an internal number used in processing the wage determination. 07/01/2014 is the effective date of the most current negotiated rate, which in this example is July 1, 2014.

Union prevailing wage rates are updated to reflect all rate changes in the collective bargaining agreement (CBA) governing this classification and rate.

Survey Rate Identifiers

Classifications listed under the ""SU"" identifier indicate that no one rate prevailed for this classification in the survey and the published rate is derived by computing a weighted average rate based on all the rates reported in the survey for that classification. As this weighted average rate includes all rates reported in the survey, it may include both union and non-union rates. Example: SULA2012-007 5/13/2014. SU indicates the rates are survey rates based on a weighted average calculation of rates and are not majority rates. LA indicates the State of Louisiana. 2012 is the year of survey on which these classifications and rates are based. The next number, 007 in the example, is an internal number used in producing the wage determination. 5/13/2014 indicates the survey completion date for the classifications and rates under that identifier.

Survey wage rates are not updated and remain in effect until a new survey is conducted.

Union Average Rate Identifiers

Classification(s) listed under the UAVG identifier indicate that no single majority rate prevailed for those classifications; however, 100% of the data reported for the classifications was union data. EXAMPLE: UAVG-OH-0010 08/29/2014. UAVG indicates that the rate is a weighted union average rate. OH indicates the state. The next number, 0010 in the example, is an internal number used in producing the wage determination. 08/29/2014 indicates the survey completion date for the classifications and rates under that identifier.

A UAVG rate will be updated once a year, usually in January of each year, to reflect a weighted average of the current negotiated/CBA rate of the union locals from which the rate is based.

State Adopted Rate Identifiers

Classifications listed under the ""SA"" identifier indicate that the prevailing wage rate set by a state (or local) government was adopted under 29 C.F.R. 1.3(g)-(h). Example: SAME2023-007 01/03/2024. SA reflects that the rates are state adopted. ME refers to the State of Maine. 2023 is the year during which the state completed the survey on which the listed classifications and rates are based. The next number, 007 in the example, is an internal number used in producing the wage determination. 01/03/2024 reflects the date on which the classifications and rates under the ?SA? identifier took effect under state law in the state from which the rates were adopted.

----- WAGE DETERMINATION APPEALS PROCESS

1.) Has there been an initial decision in the matter? This can be:

- * an existing published wage determination
- * a survey underlying a wage determination
- * a Wage and Hour Division letter setting forth a position on a wage determination matter
- * a conformance (additional classification and rate) ruling

On survey related matters, initial contact, including requests for summaries of surveys, should be with the Wage and Hour National Office because National Office has responsibility for the Davis-Bacon survey program. If the response from this initial contact is not satisfactory, then the process described in 2.) and 3.) should be followed.

With regard to any other matter not yet ripe for the formal process described here, initial contact should be with the Branch of Construction Wage Determinations. Write to:

Branch of Construction Wage Determinations
Wage and Hour Division
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

2.) If the answer to the question in 1.) is yes, then an interested party (those affected by the action) can request review and reconsideration from the Wage and Hour Administrator (See 29 CFR Part 1.8 and 29 CFR Part 7). Write to:

Wage and Hour Administrator

U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

The request should be accompanied by a full statement of the interested party's position and by any information (wage payment data, project description, area practice material, etc.) that the requestor considers relevant to the issue.

3.) If the decision of the Administrator is not favorable, an interested party may appeal directly to the Administrative Review Board (formerly the Wage Appeals Board). Write to:

Administrative Review Board
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

4.) All decisions by the Administrative Review Board are final.

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END OF GENERAL DECISION"

Fringe benefit amounts are applicable for all hours worked except when otherwise noted.

No laborer, workman or mechanic shall be paid at a rate less than that of a Journeyman except those classified as bona fide apprentices.

Apprentices or trainees shall be permitted to work as such subject to Administrative Regulations adopted by the Commissioner of Workplace Standards. Copies of these regulations will be furnished upon request from any interested person.

Before using apprentices on the job the contractor shall present to the Contracting Officer written evidence of registration of such employees in a program of a State apprenticeship and training agency approved and recognized by the U. S. Bureau of Apprenticeship and Training. In the absence of such a State agency, the contractor shall submit evidence of approval and registration by the U. S. Bureau of Apprenticeship and Training.

The contractor shall submit to the Contracting Officer, written evidence of the established apprenticeship-journeyman ratios and wage rates in the project area, which will be the basis for establishing such ratios and rates for the project under the applicable contract provisions.

TO: EMPLOYERS/EMPLOYEES

PREVAILING WAGE SCHEDULE:

The wages indicated on this wage schedule are the least permitted to be paid for the occupations indicated. When an employee works in more than one classification, the employer must record the number of hours worked in each classification at the prescribed hourly base rate.

OVERTIME:

Overtime is to be paid to an employee at a rate not less than one and one-half times the basic rate of pay for all hours worked in excess of forty (40) hours in such workweek. Wage violations or questions should be directed to the designated Engineer or the undersigned.

Director
Division of Construction Procurement
Frankfort, Kentucky 40622
502-564-3500

**NOTICE OF REQUIREMENT FOR AFFIRMATIVE ACTION
TO ENSURE EQUAL EMPLOYMENT OPPORTUNITY
(Executive Order 11246)**

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

GOALS FOR MINORITY PARTICIPATION IN EACH TRADE	GOALS FOR FEMALE PARTICIPATION IN EACH TRADE
4.7%	6.9%

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

The Contractor's compliance with the Executive Order and the regulations in CFR Part 60-4 shall be based on its implementation of the Equal Opportunity Clause, specific affirmative action obligations required by the specifications set forth in 41 CFR 60-4, 3(a), and its efforts to meet the goals. The hours of minority and female employment and training must be substantially uniform throughout the length of the contract, and in each trade, and the contractor shall make a good faith effort to employ minorities and women evenly on each of its projects. The transfer of minority or female employees or trainees from Contractor to Contractor or from project to project for the sole purpose of meeting the Contractor's goals shall be a violation of the contract, the Executive Order and the regulations in 41 CFR Part 60-4. Compliance with the goals will be measured against the total work hours performed.

3. The Notification of Construction Contract Award Portal (NCAP) is OFCCP's preferred method for receiving construction contract award notifications. The NCAP can be found on OFCCP's website at <https://www.dol.gov/agencies/ofccp/ncap>. Users who prefer not to use the portal maintain the option to send their notifications via mail, email and facsimile to the OFCCP Regional office in which the work will be performed. The Contractor shall provide written notification to the Director of the Office of Federal Contract Compliance Programs within ten (10) working days of award of any construction subcontract in excess of \$10,000.00 at any tier for construction work under the contract resulting from this solicitation. The notification must include: Prime Contract Number (issued by the federal agency or applicant); Name of Awarding Federal Agency, Applicant or Contractor; Contracting Officer, Applicant Representative or Contractor Representative Submitting Notification with name, phone number, email address; Contractor Awarded Contract or Subcontract with name, address, phone number, email address, EIN, dollar amount of the contract, estimated start date of the contract, estimated completion date of the contract, geographical area in which the contract is to be performed (state, county's city (if applicable)).

The notification shall be mailed to:

**Regional Director
Office of Federal Contract Compliance Programs
61 Forsyth Street, SW, Suite 7B75
Atlanta, Georgia 30303-8931
Main Number: 404-893-4545 Fax: 404-893-4546
Regional Director Contact: OFCCP-SE@dol.gov
Construction Award Email: OFCCP-SE-ConstructionAward@dol.gov**

4. As used in this Notice, and in the contract resulting from this solicitation, the "**covered area**" is Daviess County.

PART IV

INSURANCE

Refer to
Kentucky Standard Specifications for Road and Bridge Construction,
current edition

PART V

BID ITEMS

Report Date 11/13/24

Section: 0001 - PAVING

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0010	00003		CRUSHED STONE BASE	6,106.00	TON		\$	
0020	00078		CRUSHED AGGREGATE SIZE NO 2	3.00	TON		\$	
0030	00080		CRUSHED AGGREGATE SIZE NO 23	9,425.00	TON		\$	
0040	00100		ASPHALT SEAL AGGREGATE	12.00	TON		\$	
0050	00190		LEVELING & WEDGING PG64-22	82.00	TON		\$	
0060	00214		CL3 ASPH BASE 1.00D PG64-22	4,524.00	TON		\$	
0070	00291		EMULSIFIED ASPHALT RS-2	1.50	TON		\$	
0080	00324		CL3 ASPH SURF 0.50B PG64-22	4,460.00	TON		\$	
0090	00356		ASPHALT MATERIAL FOR TACK	11.90	TON		\$	
0100	02602		FABRIC-GEOTEXTILE CLASS 1	15,322.00	SQYD		\$	
0110	02604		FABRIC-GEOTEXTILE CLASS 1A	14,376.00	SQYD		\$	
0120	02676		MOBILIZATION FOR MILL & TEXT DAVIESS US 60 HSIP	1.00	LS		\$	
0130	02677		ASPHALT PAVE MILLING & TEXTURING	3,531.00	TON		\$	
0140	10020NS		FUEL ADJUSTMENT	13,984.00	DOLL	\$1.00	\$	\$13,984.00
0150	10030NS		ASPHALT ADJUSTMENT	35,124.00	DOLL	\$1.00	\$	\$35,124.00

Section: 0002 - ROADWAY

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0160	01917		STANDARD BARRIER MEDIAN TYPE 2 1872 SQYD MODIFIED TO TOTAL DEPTH OF 5.5"	2,027.00	SQYD		\$	
0170	01921		STANDARD BARRIER MEDIAN TYPE 4 126 SQYD MODIFIED TO TOTAL DEPTH OF 5.5"	672.00	SQYD		\$	
0180	01982		DELINEATOR FOR GUARDRAIL MONO DIRECTIONAL WHITE	4.00	EACH		\$	
0190	02091		REMOVE PAVEMENT	99.00	SQYD		\$	
0200	02200		ROADWAY EXCAVATION	7,002.00	CUYD		\$	
0210	02262		FENCE-WOVEN WIRE TYPE 1	40.00	LF		\$	
0220	02265		REMOVE FENCE	45.00	LF		\$	
0230	02351		GUARDRAIL-STEEL W BEAM-S FACE	199.50	LF		\$	
0240	02369		GUARDRAIL END TREATMENT TYPE 2A	1.00	EACH		\$	
0250	02381		REMOVE GUARDRAIL	75.00	LF		\$	
0260	02545		CLEARING AND GRUBBING 0.01 ACRES IN AREA OF FENCE REMOVAL AND CONSTRUCTION	1.00	LS		\$	
0270	02562		TEMPORARY SIGNS	416.00	SQFT		\$	
0280	02625		REMOVE HEADWALL PERF PIPE HEADWALL	2.00	EACH		\$	
0290	02650		MAINTAIN & CONTROL TRAFFIC DAVIESS US 60 HSIP	1.00	LS		\$	
0300	02671		PORTABLE CHANGEABLE MESSAGE SIGN	2.00	EACH		\$	
0310	02696		SHOULDER RUMBLE STRIPS	10,410.00	LF		\$	
0320	02701		TEMP SILT FENCE	1,600.00	LF		\$	
0330	02703		SILT TRAP TYPE A	4.00	EACH		\$	
0340	02704		SILT TRAP TYPE B	1.00	EACH		\$	

Report Date 11/13/24

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0350	02705		SILT TRAP TYPE C	9.00	EACH		\$	
0360	02706		CLEAN SILT TRAP TYPE A	4.00	EACH		\$	
0370	02707		CLEAN SILT TRAP TYPE B	1.00	EACH		\$	
0380	02708		CLEAN SILT TRAP TYPE C	9.00	EACH		\$	
0390	02726		STAKING DAVIESS US 60 HSIP	1.00	LS		\$	
0400	02775		ARROW PANEL	2.00	EACH		\$	
0410	05950		EROSION CONTROL BLANKET	1,236.00	SQYD		\$	
0420	05952		TEMP MULCH	6,452.00	SQYD		\$	
0430	05953		TEMP SEEDING AND PROTECTION	4,839.00	SQYD		\$	
0440	05963		INITIAL FERTILIZER	.22	TON		\$	
0450	05964		MAINTENANCE FERTILIZER	.36	TON		\$	
0460	05985		SEEDING AND PROTECTION	5,952.00	SQYD		\$	
0470	05992		AGRICULTURAL LIMESTONE	4.00	TON		\$	
0480	06511		PAVE STRIPING-TEMP PAINT-6 IN	31,991.00	LF		\$	
0490	06514		PAVE STRIPING-PERM PAINT-4 IN	733.00	LF		\$	
0500	06542		PAVE STRIPING-THERMO-6 IN W	18,364.00	LF		\$	
0510	06543		PAVE STRIPING-THERMO-6 IN Y	10,649.00	LF		\$	
0520	06546		PAVE STRIPING-THERMO-12 IN W	2,698.00	LF		\$	
0530	06547		PAVE STRIPING-THERMO-12 IN Y	2,574.00	LF		\$	
0540	06568		PAVE MARKING-THERMO STOP BAR-24IN	79.00	LF		\$	
0550	06569		PAVE MARKING-THERMO CROSS-HATCH	686.00	SQFT		\$	
0560	06574		PAVE MARKING-THERMO CURV ARROW	55.00	EACH		\$	
0570	21289ED		LONGITUDINAL EDGE KEY	5,967.00	LF		\$	
0580	21373ND		REMOVE SIGN	27.00	EACH		\$	
0590	24489EC		INLAID PAVEMENT MARKER	135.00	EACH		\$	
0600	24679ED		PAVE MARK THERMO CHEVRON	1,242.00	SQFT		\$	
0610	24814EC		PIPELINE INSPECTION	1,741.00	LF		\$	
0620	24889EC		PAVE MARKING-THERMO U-TURN	33.00	EACH		\$	

Section: 0003 - DRAINAGE

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0630	00521		STORM SEWER PIPE-15 IN	1,133.00	LF		\$	
0640	00522		STORM SEWER PIPE-18 IN	594.00	LF		\$	
0650	00526		STORM SEWER PIPE-30 IN	14.00	LF		\$	
0660	01000		PERFORATED PIPE-4 IN	2,510.00	LF		\$	
0670	01010		NON-PERFORATED PIPE-4 IN	175.00	LF		\$	
0680	01015		INSPECT & CERTIFY EDGE DRAIN SYSTEM DAVIESS US 60 HSIP	1.00	LS		\$	
0690	01028		PERF PIPE HEADWALL TY 3-4 IN	3.00	EACH		\$	
0700	01456		CURB BOX INLET TYPE A	15.00	EACH		\$	
0710	01511		DROP BOX INLET TYPE 5D	3.00	EACH		\$	
0720	01514		DROP BOX INLET TYPE 5E	1.00	EACH		\$	
0730	01584		CAP DROP BOX INLET	2.00	EACH		\$	
0740	01740		CORED HOLE DRAINAGE BOX CON-4 IN	8.00	EACH		\$	
0750	21541NN		CORED HOLE DRAINAGE BOX CON- 18 IN	3.00	EACH		\$	
0760	23822EC		CORED HOLE DRAINAGE BOX CON-15 IN	3.00	EACH		\$	

Report Date 11/13/24

Section: 0004 - SIGNING

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0770	06404		FLEXIBLE DELINEATOR POST-M/Y	254.00	EACH		\$	
0780	06406		SBM ALUM SHEET SIGNS .080 IN	678.38	SQFT		\$	
0790	06407		SBM ALUM SHEET SIGNS .125 IN	531.75	SQFT		\$	
0800	06410		STEEL POST TYPE 1	1,398.00	LF		\$	
0810	06490		CLASS A CONCRETE FOR SIGNS	9.00	CUYD		\$	
0820	21596ND		GMSS TYPE D	36.00	EACH		\$	
0830	21596ND		GMSS TYPE D SURFACE MOUNT	16.00	EACH		\$	
0840	24631EC		BARCODE SIGN INVENTORY	169.00	EACH		\$	

Section: 0005 - LIGHTING

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0850	04700		POLE 30 FT MTG HT	4.00	EACH		\$	
0860	04701		POLE 40 FT MTG HT	4.00	EACH		\$	
0870	04724		BRACKET 12 FT	4.00	EACH		\$	
0880	04725		BRACKET 15 FT	4.00	EACH		\$	
0890	04740		POLE BASE	8.00	EACH		\$	
0900	04750		TRANSFORMER BASE	8.00	EACH		\$	
0910	04761		LIGHTING CONTROL EQUIPMENT	2.00	EACH		\$	
0920	04780		FUSED CONNECTOR KIT	22.00	EACH		\$	
0930	04820		TRENCHING AND BACKFILLING	4,140.00	LF		\$	
0940	04832		WIRE-NO. 12	1,164.00	LF		\$	
0950	04871		POLE 35 FT WOODEN	2.00	EACH		\$	
0960	20391NS835		ELECTRICAL JUNCTION BOX TYPE A	6.00	EACH		\$	
0970	21543EN		BORE AND JACK CONDUIT	920.00	LF		\$	
0980	23778EC		WIRE-NO. 10	14,190.00	LF		\$	
0990	24589ED		LED LUMINAIRE	8.00	EACH		\$	
1000	24900EC		PVC CONDUIT-1 1/4 IN-SCHEDULE 80	4,140.00	LF		\$	
1010	24901EC		PVC CONDUIT-2 IN-SCHEDULE 80	920.00	LF		\$	

Section: 0006 - DEMOBILIZATION AND MOBILIZATION

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
1020	02568		MOBILIZATION	1.00	LS		\$	
1030	02569		DEMOBILIZATION	1.00	LS		\$	