

Invitation to Bid
ITB: #2019-002

Stonington Department of Public Works
ADA Sidewalk Ramp Replacements



Issue Date: June 17, 2019
Bid Deadline: July 9, 2019 @ 2:00pm

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LEGAL NOTICE TO BID

TOWN OF STONINGTON, CONNECTICUT

**INVITATION TO BID FOR
ADA RAMP REPLACEMENTS**

ITB: #2019-002

June 17, 2019

The Town of Stonington will receive sealed bids for ADA Ramp Replacements. Please see full Invitation to Bid for exact specifications on the Town's website, under <http://www.stonington-ct.gov/bids-rfps> or on the CT DAS contracting portal.

Proposals will be received at the Office of the Director of Finance, 152 Elm Street, Stonington, CT 06378, until 2:00 p.m. on July 9, 2019. Proposals shall be directed to:

Mr. James Sullivan
Director of Finance
Town of Stonington
152 Elm Street
Stonington, CT 06378

Any addenda will be posted to the Town's website along with the CT DAS contracting portal. All firms are responsible for checking for new addenda. Proposals will be opened and read aloud at **2:00 p.m. on July 9, 2019**, Town of Stonington, 152 Elm Street, Stonington, CT 06378.

The Town of Stonington reserves the rights to amend or terminate this Invitation to Bid, to reject any or all proposers, to request additional information, to waive any informalities or non-material deficiencies in a response, to determine qualifications exclusively and finally in its sole discretion, to select any proposal based on any combination of factors, including the amount bid and the Town's best interests, to select parts of any one or more proposals, to negotiate with any person submitting a proposal for different or additional terms, and to take any and all other action that, in the Town's sole judgment, will be in its best interests.

The Town of Stonington is an:

AFFIRMATIVE ACTION/EQUAL OPPORTUNITY EMPLOYER

MBE/WBE AND SBE's are encouraged to bid

TOWN OF STONINGTON, CONNECTICUT

**INVITATION TO BID FOR
ADA RAMP REPLACEMENTS**

ITB: #2019-002

TENTATIVE TIMELINE OF THE INVITATION TO BID PROCESS-KEY DATES

ITB Issue Date: June 17, 2019

Final Date to Submit Questions: June 26, 2019 4:00p.m.

Final Posting of Responses to Questions: July 1, 2019 4:00p.m.

Proposal Closing Date/Time: July 9, at 2:00 p.m.

Proposal Closing Place: Stonington Town Hall, 152 Elm Street, Stonington, CT 06378.

Proposal Opening Date/Time: July 9, 2019, at 2:00 p.m.

Proposal Opening Place: Finance Department, 152 Elm Street, Stonington, CT 06378.

I. SCOPE OF SERVICES

This invitation to bid entails providing unit cost prices for performing replacement of concrete curbs, sidewalks, and curb ramps as described in these project specifications.

Contractor Availability:

The contractor will conform to the Highway Department's schedule, as the Department fits sidewalk work into its schedule when they have availability. Therefore, the contractor should be flexible with scheduling. It will be the contractor's responsibility to be available to commence working upon one week's written notice from the Town.

Damage to Abutting Properties:

The Contractor shall be responsible for, and reimburse the Town, adjacent property owners and/or others for, any and all losses, damage or expense which the Town or those others may suffer, either directly or indirectly or through any claims of any person or party, for any trespass outside the spaces and rights of way provided by the Town to the Contractor, or any violation or disregard of the terms and conditions established for the use or occupancy of those rights or for negligence in the exercise of those rights. The Town may retain or deduct from any sum or sums due or to become due to the Contractor such amount or amounts as may be proper to insure the Town against loss or expense, by reason of the failure of the Contractor to observe the limits and conditions of the rights of way, rights of access, etc., provided by the Town.

Estimated Quantities/Balanced Bids:

The quantities that are included in the attached Bid Form are estimated quantities for use in computing a low bidder. The Town reserves the right to increase and/or decrease the

quantities as they see fit. Therefore, the bidder should bid on each item with reasonable relation to the probable cost of doing that work. The attention of the bidder is called to the fact that unbalancing a bid may adversely affect the contractor if certain portions of the work are increased or decreased as provided in the contract documents. The Town reserves the option to contract for additional work beyond the estimated quantities per Exhibit G, at the Contractor's unit prices.

Safety:

The Contractor shall comply with all requirements of the Occupational Safety and Health Act (OSHA) including wearing appropriate traffic vests as needed.

Finishing and Cleaning Up:

In completing his operations, the Contractor shall immediately remove all surplus material, tools, and other property belonging to him, leaving the entire site & street or surroundings free and clean and in good order, at no additional expense to the Owner. The Contractor shall exercise special care in keeping the right-of-way and private lands upon which work is performed free and clean of all debris and shall remove all tools and other property when they are not in use.

Project Areas:

The project areas are within the Town of Stonington. Town will provide schedule and construction locations. Contractor shall comply with the schedule, but may group locations to maximize concrete load.

Contract Duration:

A. Commencement and Completion of Work: The contractor shall start work not more than ten (10) calendar days from the date of written Notice to Begin Work, unless such notice specifically instructs the contractor to begin work at a later date. All work under this contract shall be completed within **45 days** (Substantial Completion) with the exception punch list items. The punch list work shall be completed within **60 days** (Final Completion).

Calendar days in this contract shall mean each consecutive day including Saturdays, Sundays and Legal Holidays. In this case "Legal Holiday" shall be defined per the Town of Stonington's Holiday Schedule, available from the Department of Human Services. The calendar days between December 1 and April 1 will be considered as "winter shutdown" and will not be included in computing the substantial or final completion dates. No extensions of time will be allowed for adverse weather conditions unless the number of days of inclement weather is substantially greater or conditions more severe than average for the calendar period as recorded by a recognized weather observation agency and the Contractor provides documentation at the end of each calendar month identifying these weather delays. Work on this project shall not be performed on Saturdays, Sundays or Legal Holidays except by written consent and direction of the Owner.

Work shall proceed in an orderly fashion to minimize inconvenience to the abutting property owners. All contract work, including punch list items, shall reach final completion within **60 days**.

In the event the contractor requests to work extended work hours, work on "non-working days" (i.e. Saturdays, Sundays or Legal Holidays) or if the project goes beyond the final completion date the Town shall recover from the contractor, all costs of doing business associated with this work. The Town also has the right to recover its costs of doing business

if the engineer orders the contractor to perform work outside of normal working hours or during “non-working days” in order to correct deficient work. The Town’s costs of doing business include, but are not limited to DPW staff time (i.e. the inspector, engineer, etc.) and private duty police officers. The Town’s costs associated with working extended work hours, working on “non-working days” or working after the final completion date will be calculated by the engineer on a monthly basis and this amount will be deducted directly from the contractor’s next receiving report. The contractor will not be required to compensate the Town for its costs of doing business under the following conditions: 1) Work is required during extended hours, Saturdays, Sundays or Legal Holidays, in order to make the area safe and passable due to no fault of the contractor, and this work is specifically ordered by the engineer. 2) The engineer allows the contractor to work during the winter shut down period as long as the work hours are in accordance with the Hours of Work section below.

Note: Paving will not be allowed during the winter shut down period (Dec 1 – April 1) unless specifically authorized by the Engineer.

B. Extension of Time: If the Contractor is delayed in the prosecution or completion of the work by or on account of any act or omission of the Town, or by strikes or causes beyond control of the Contractor, he shall be entitled to such reasonable extension of time for the completion of the work as may be decided upon by the Engineer, provided, however, that no claim for an extension of time for any reason shall be allowed unless, within three days after such delay occurs, notice in writing of the fact of said delay, its causes, and the extension claimed, shall be given by the Contractor to the Engineer.

C. Liquidated Damages: The Contractor agrees that the Town may retain **\$500** per calendar day from the amount of the compensation to be paid the Contractor as liquidated damages. Liquidated damages shall be assessed for each calendar day that the work remains incomplete in excess of the number of calendar days stipulated for either (but not simultaneously) substantial completion or final completion as set forth in Section A. ‘Commencement and Completion of Work’. This amount is agreed upon as the proper measure of liquidated damages which the Town will sustain per day by failure of the Contractor to complete the work within the number of calendar days stipulated.

D. Term of Contract: The term of any contract or agreement resulting from this invitation to bid will be from the date of Contractor signature through December 31, 2019. The Town reserves the right award additional work and extend the contract one additional year until December 31, 2020, at the same unit prices as long as both parties mutually agree to such an extension.

Hours of Work:

Work under this contract will be performed in accordance with the Maintenance and Protection of Traffic special provisions included herein on Monday through Friday. Work on State or Federal Holidays or other specific non-holiday events as identified on the plans or within the specifications will not be allowed. The contractor is notified that all streets in this project are considered “Critical Streets” and any work that interferes with traffic shall be limited to **7:00 am – 4:00 pm**. These work hours may only be adjusted upon advance written approval of the Engineer. The Engineer reserves the right to periodically adjust the work hours in the interest of public safety.

Technical Specifications:

- 1) General: The contractor is responsible for furnishing all equipment, transportation, labor and materials necessary to perform construction of concrete curbs, sidewalks, curb ramps and driveways. The Town will not compensate the contractor for use or loss of equipment.
- 2) Forms:
 - a. All forms used in the placement of concrete to create sidewalks and curbs shall be steel or aluminum. The typical thickness for new sidewalks shall be five inches. Forms shall be capable of meeting this requirement. Metal forms for curbing should be capable of creating a curb line that will have a minimum six-inch reveal with twelve inches below grade.
 - b. Coat forms with a non-staining form release agent that will not discolor or deface the surface of the concrete. Clean forms for reuse immediately after use, and coat with form release agent as often as required to ensure separation from concrete without damage and facilitate a tool like finish. There will be no exceptions to this requirement.
- 3) Concrete: Design mix for both methods to produce standard weight concrete consisting of Portland cement, aggregate, air entraining admixture, and water to produce a 3500 psi, with ¾" stone and 3% to 6% air content. Any changes to the mix must be approved by the Town Highway Supervisor or other designated Town representative.
- 4) Concrete Finish: Eliminate any tool marks on concrete surface. After completion of floating and when excess moisture or surface sheen has disappeared, broom finish sidewalks by drawing a fine-hair broom across concrete surface, perpendicular to a line of pedestrian traffic.
- 5) Accessible Ramps: Some intersections, as determined by the Town Highway Supervisor or other designated Town representative, shall require installation of a special textured template. In these instances, the Town will provide the template and it is the contractor's responsibility to install it properly on top of the concrete. Cost of this installation should be included in the unit cost of the accessible ramp.
- 6) Traffic Control: The Contractor shall furnish all equipment, transportation, labor and materials necessary to perform traffic control.
- 7) Town shall furnish all equipment, transportation, labor and materials necessary to loom and seed for construction using both methods.
- 8) Town Highway Supervisor or other designated Town representative shall initiate the work for each site by conducting a site walk with the Contractor. Contractor shall remain at each site, providing continuous construction until the work is complete. Town Highway Supervisor or other designated Town representative shall provide final approval of work completion for each site.
- 9) The contractor shall ensure job site is secure at all times, especially when leaving at the end of the day and surrounding areas shall be clean and free of debris and in good order.

- 10) Any questions pertaining to the job, including changes to grades should be addressed to the Town Highway Supervisor or other designated Town representative.
- 11) All work shall be done in accordance with the following Connecticut Department of Transportation Standard Plans and Guide Sheets:
 - a. HW-811.01 Concrete Curbing
 - b. HW-813.01 Granite Stone Transition Curbing
 - c. HW-813.02 Stone Curbing
 - d. HW-815.01 Bituminous Concrete Curbing
 - e. HW-921.01 Driveway Ramps and Sidewalks
 - f. Concrete Sidewalk Ramp Sheet 1
 - g. Concrete Sidewalk Ramp Sheet 2
 - h. Concrete Sidewalk Ramp Sheet 3
 - i. Concrete Sidewalk Ramp Sheet 4
 - j. Concrete Sidewalk Ramp Sheet 5
 - k. Concrete Sidewalk Ramp Sheet 6
 - l. Concrete Sidewalk Ramp Sheet 7
 - m. Concrete Sidewalk Ramp Sheet 8
 - n. Concrete Sidewalk Ramp Sheet 9
 - o. Concrete Sidewalk Ramp Sheet 10
- 12) All work shall be done in accordance with the contract drawings, CTDOT Standard Specification for Roads, Bridges, Facilities and Incidental Construction, Form 817 and the Special Provisions provided here within.
- 13) Contractor shall perform the entire job (including but not limited to the following);
 - a. Call in the Call Before You Dig (CBYD) ticket.
 - b. Sawcutting the road approx. 18-24" from the existing curb to accommodate appropriate mechanical compacting equipment. The cost of sawcutting should be factored into the unit cost for separate concrete curb or concrete sidewalk with monolithic curb.
 - c. Remove the existing sidewalk and transporting the debris to the Highway yard or other location mutually agreed upon. The cost of demolition and hauling to the Highway yard should be factored into the square foot cost of concrete sidewalk, apron, or handicapped ramp.
 - d. Supplying and installing processed gravel base under the forms and backfilling the forms as necessary.
 - e. Installing forms, supplying and placement of concrete, finishing the concrete and stripping the forms
 - f. The contractor may be asked to tie in existing driveways to the new concrete aprons, and pave in the road area that has been disturbed. These items will be paid as separate items, but all work involved will be factored into the respective unit pricing.
 - g. The Contractor shall furnish all equipment, transportation, labor and materials necessary to perform traffic control in accordance with guidelines throughout the job to ensure safety.

- h. Additionally, in this method, any sump pump or any other piping that was under the existing sidewalk will have to be re-plumbed to the street. The cost of this work will be handled as cost plus work using standard DOT markups.

II. INQUIRIES

All inquiries relative to the conditions and specifications listed herein as well as clarification of any information contained or referenced in this ITB must be submitted to Barbara McKrell, Director of Public work at bmckrell@stonington-ct.gov with copy to James Sullivan, Director of Finance, Town of Stonington, at jsullivan@stonington-ct.gov.

III. SUBMISSION OF PROPOSALS

General Requirements: Respondents are asked to provide Proposals for the scope of work in accordance with all the terms and specification contained herein.

Respondents shall submit one (1) original and two (2) hard copies and one (1) electronic copy (a compiled Adobe PDF file) of their submittals.

Proposals shall contain the following at a minimum:

1. A brief qualification statement that demonstrates the technical expertise to provide the goods with the specifications outlined in this request.
2. A list of projects (3 minimum) with similar scope shall be provided, along with contacts identified for references.
3. A schedule indicating the time to deliver all requested goods and services.
4. Exhibits:
 - A) Proposer's Legal Status Disclosure Form
 - B) Proposer's Non-Collusion Affidavit Form
 - C) Proposer's Statement of References Form
 - D) Required Disclosures
 - E) Affirmative Action Affidavit
 - F) Proposal Form
 - G) Bid Form
 - H) COI with Insurance Limits specified in Exhibit H

IV. SELECTION PROCESS AND CRITERIA

Proposals will be evaluated on their qualifications by the Director of Public Works using the following criteria:

1. Bid proposal adherence to technical specifications as delineated above.
2. Ability to deliver goods and services in a timely fashion.

3. Proposed schedule.
4. Value of proposed fees.
5. Compliance/completion with/of submission requirements noted above in Section III.

V. GENERAL TERMS AND CONDITIONS

1. The Town reserves the right to reject any and all proposals, to waive any informality, to request interviews of proposers prior to award and to select and negotiate the proposed services in the best interest of the Town.
2. The Town reserves the right to accept all or part of any proposal, and to negotiate a contract for services and cost with the selected firm or team.
3. The Selected firm shall guarantee to provide the goods at the price of the proposal for a period of not less than sixty (60) days from the deadline for submission of proposals.
4. Unless otherwise stated, Payment Requests are to be submitted no more than once per month. Each Payment Request shall be signed by the Selected firm and shall constitute the Selected firm's representation that quantity of work has reached the level for which payment is requested, and that the Selected firm knows no reason why payment should not be made as requested. The Payment Request shall include an itemization of all services provided, including unit list price, net price, extensions and total amount due. The Town shall approve by signature the amount that, in the opinion of the Town, is properly owing to the Selected firm.
5. Unless otherwise stated, payment will be made within thirty (30) days of the completion of the work, in an acceptable fashion, to the Town and receipt of invoice, whichever is later.
6. Town is exempt from all sales and Federal excise taxes.
7. None of the services covered by the contract shall be assigned in full or in part, or sub-contracted without the prior approval of the Town.
8. Unless otherwise specified all costs listed are firm for the term of the contract.
9. Proposal shall also mean quotation, bid, offer, qualification/experience statement, and services. Proposers shall also mean vendors, offerors, bidders, or any person or firm responding to the Invitation to Bid.
10. All contracts entered into by the Town shall be governed by the Laws of the State of Connecticut. Any disputes shall be resolved within the venue of the State of Connecticut.

AWARD TO OTHER THAN THE APPARENT LOW BIDDER: The Town of Stonington reserves the right to award the work to a proposer other than the one which submitted the lowest price if it deems such action to be in the best interest of the Town of Stonington.

**AFFIRMATIVE ACTION/EQUAL OPPORTUNITY EMPLOYERS
MBE/WBE AND SBE'S ARE ENCOURAGED TO BID**

TOWN OF STONINGTON, CONNECTICUT

INVITATION TO BID FOR
ADA RAMP REPLACEMENTS

ITB: #2019-002

VI. STANDARD INSTRUCTIONS TO PROPOSERS

INTRODUCTION

Interested parties should submit a proposal in accordance with the requirements and directions contained in this INVITATION TO BID. **Proposers are prohibited from contacting any Town employee, officer or official concerning this INVITATION TO BID, except as set forth in Section 3, below. A proposer's failure to comply with this requirement may result in disqualification.**

If there are any conflicts between the provisions of these Standard Instructions to Proposers and any other documents comprising this INVITATION TO BID, these Standard Instructions to Proposers shall prevail.

1. RIGHT TO AMEND OR TERMINATE THE INVITATION TO BID OR CONTRACT

The Town may, before or after proposal opening and in its sole discretion, clarify, modify, amend or terminate this INVITATION TO BID if the Town determines it is in the Town's best interest. Any such action shall be effected by a posting on the Town's website, <http://www.stonington-ct.gov/bids-rfps> and/or the [CT DAS Contracting Portal](#). **Each proposer is responsible for checking the Town's website and CT DAS Contracting Portal to determine if the Town has issued any addenda and, if so, to complete its proposal in accordance with the INVITATION TO BID as modified by the addenda.**

2. PROPOSAL SUBMISSION INSTRUCTIONS

Proposals must be received, by the date and time noted in the INVITATION TO BID prior to the date and time the proposals are scheduled to be opened publicly. Postmarks prior to the opening date and time do **NOT** satisfy this condition. The Town will not accept submissions by e-mail or fax. Proposers are solely responsible for ensuring timely delivery. The Town will **NOT** accept late proposals.

One (1) original and two (2) hard copies, along with a digital copy of all proposal documents must be submitted in sealed, opaque envelopes clearly labeled with the proposer's name, the proposer's address, the words "ADA RAMP REPLACEMENTS," and the **INVITATION TO BID Number ITB: #2019-002**. The Town may decline to accept proposals submitted in unmarked envelopes that the Town opens in its normal course of business. The Town may, but shall not be required to, return such proposal documents and inform the proposer that the proposal documents may be resubmitted in a sealed envelope properly marked as described above.

Proposal fee must be submitted on the Bid Form included in this INVITATION TO BID, see **Exhibit G**. All blank spaces for proposal prices must be completed in ink or be typewritten; proposal fee must be stated in both words and figures. The person signing the Proposal Form must initial any errors, alterations or corrections on that form. Ditto marks or words such as "SAME" shall not be used in the Proposal Form.

Proposals may be withdrawn personally or in writing provided that the Town receives the withdrawal prior to the date and time the proposals are scheduled to be opened. Proposals are considered valid, and may not be withdrawn, cancelled or modified, for sixty (60) calendar days after the opening date, to give the Town sufficient time to review the proposals, investigate the proposers' qualifications, secure any required municipal approvals, and execute a binding contract with the successful proposer.

An authorized person representing the legal entity of the proposer must sign the Proposal Form and all other forms included in this INVITATION TO BID.

3. QUESTIONS AND AMENDMENTS

Questions concerning the process and procedures applicable to this INVITATION TO BID are to be submitted **only in writing via email** and directed **only to**:

Barbara McKrell, Director of Public Works
Town of Stonington
152 Elm Street
Stonington, CT 06378
Email: bmckrell@stonington-ct.gov

Proposers shall copy Mr. James. Sullivan, jsullivan@stonington-ct.gov as well.

Proposers are prohibited from contacting any Town employee, officer or official concerning this INVITATION TO BID other than the designated official noted above. A proposer's failure to comply with this requirement may result in disqualification.

The appropriate Town representative listed above must receive any questions from proposers no later than the date specified under the time line. That representative will confirm receipt of a proposer's questions by e-mail.

The Town will answer all relevant written questions by issuing one or more addenda, which shall be a part of this INVITATION TO BID and the resulting Contract, containing all questions received and answers provided.

The Town will post any addenda on Town's website, <http://www.stonington-ct.gov/bids-rfps> or on the CT DAS contracting portal. **Each proposer is responsible for checking the websites to determine if the Town has issued any addenda and, if so, to complete its proposal in accordance with the INVITATION TO BID as modified by the addenda.**

No oral statement of the Town, including oral statements by the Town representatives listed above, shall be effective to waive, change or otherwise modify any of the provisions of this INVITATION TO BID, and no proposer shall rely on any alleged oral statement.

4. ADDITIONAL INFORMATION

The Town reserves the right, either before or after the opening of proposals, to ask any proposer to clarify its proposal or to submit additional information that the Town in its sole discretion deems desirable.

5. COSTS FOR PREPARING PROPOSAL

Each proposer's costs incurred in developing its proposal are its sole responsibility, and the Town shall have no liability for such costs.

6. OWNERSHIP OF PROPOSALS

All proposals submitted become the Town's property and will not be returned to proposers.

7. FREEDOM OF INFORMATION ACT

All information submitted in a proposal or in response to a request for additional information is subject to disclosure under the Connecticut Freedom of Information Act as amended and judicially interpreted. A proposer's responses may contain financial, trade secret or other data that it claims should not be public (the "Confidential Information"). A proposer must identify specifically the pages and portions of its proposal or additional information that contain the claimed Confidential Information by visibly marking all such pages and portions. Provided that the proposer cooperates with the Town as described in this section, the Town shall, to the extent permitted by law, protect from unauthorized disclosure such Confidential Information.

If the Town receives a request for a proposer's Confidential Information, it will promptly notify the proposer in writing of such request and provide the proposer with a copy of any written disclosure request. The proposer may provide written consent to the disclosure or may object to the disclosure by notifying the Town in writing to withhold disclosure of the information, identifying in the notice the basis for its objection, including the statutory exemption(s) from disclosure. The proposer shall be responsible for defending any complaint brought in connection with the nondisclosure, including but not only appearing before the Freedom of Information Commission, and providing witnesses and documents as appropriate.

8. REQUIRED DISCLOSURES

Each proposer must, in its Required Disclosures Form, see **Exhibit D**, make the disclosures set forth in that form. A proposer's acceptability based on those disclosures lies solely in the Town's discretion.

9. REFERENCES

Each proposer must complete and submit the Proposer's Statement of References Form included in this INVITATION TO BID, see **Exhibit C**.

10. LEGAL STATUS

If a proposer is a corporation, limited liability company, or other business entity that is required to register with the Connecticut Secretary of the State's Office, it must have a current registration on file with that office. The Town may, in its sole discretion, request acceptable evidence of any proposer's legal status. Each proposer must complete the Proposer's Legal Status Disclosure Form included in this INVITATION TO BID, see **Exhibit A**.

11. PERFORMANCE SECURITY

The Contractor shall furnish a Performance Bond and Payment Bond in amounts equal to at least one hundred percent (100%) of the contract price as security for the faithful performance of the Contract, and for the payment of all persons performing labor on the project under this contract and furnishing materials, equipment and all other incidentals in connection with this contract. The Surety on such a bond shall be satisfactory to the Owner and the cost of the same shall be borne by the Contractor. Prior to the starting of any work, the bonds must be approved by the Owner and be in the Owner's hands. The bonds must be from a surety company licensed and approved to do business in the State of Connecticut and shall remain in effect through the guarantee period.

12. PROPOSAL (BID) SECURITY

Each bid must be accompanied by a certified check of the bidder, or a bid bond prepared on the form of bid bond attached hereto, duly executed by the bidder as principal and having as surety thereon a surety company approved by the Owner, in the amount of five (5) percent of the bid. Such checks or bid bonds will be returned to all but the three lowest bidders within five days after the opening of bids, and the remaining checks or bid bonds will be returned promptly after the Owner and the accepted bidder have executed the contract; or if no award has been made within 60 days after the date of the opening of the bids, upon demand of the bidder at any time there- after, so long as he has not been notified of the acceptance of his bid. The bid bond of the successful bidder will be retained until the payment bond and performance bond have been executed and approved, after which it will be returned.

13. PRESUMPTION OF PROPOSER'S FULL KNOWLEDGE

Each proposer is responsible for having read and understood each document in this INVITATION TO BID and any addenda issued by the Town. A proposer's failure to have reviewed all information that is part of or applicable to this INVITATION TO BID, including but not only any addenda posted on the Town's website and/or CT DAS Contracting Portal, shall in no way relieve it from any aspect of its proposal or the obligations related thereto.

Each proposer is deemed to be familiar with and is required to comply with all federal, state and local laws, regulations, ordinances, codes and orders that in any manner relate to this INVITATION TO BID or the provision or goods or performance of the work described herein.

By submitting a proposal, each proposer represents that it has thoroughly examined and become familiar with the scope of work outlined/the goods described in this INVITATION TO BID, and it is capable of performing the work/delivering/installing the goods to achieve the Town's objectives. If applicable, each proposer shall visit the site, examine the areas and thoroughly familiarize itself

with all conditions of the property before preparing its proposal.

14. TAX EXEMPTIONS

The Town is exempt from the payment of federal excise taxes and Connecticut sales and use taxes. Exemption from State sales tax per Conn. Gen. Stat. Chapter 219, § 12-412(1).

Federal Tax-Exempt number will be provided to the selected firm prior to execution of contract.

15. INSURANCE

The successful proposer shall, at its own expense and cost, obtain and keep in force at least the insurance listed in the Insurance Requirements that are a part of this ITB, as delineated in **Exhibit H**. The Town reserves the right to request from the successful proposer a complete, certified copy of each required insurance policy. A sample Certificate of Insurance should be submitted with bid proposal.

16. AWARD CRITERIA; PRELIMINARY SELECTION; CONTRACT EXECUTION

All proposals will be publicly opened and read aloud as received on the date, at the time, and at the place identified in this INVITATION TO BID. Proposers may be present at the opening.

The Town reserves the right to correct, after proposer verification, any mistake in a proposal that is a clerical error, such as a price extension, decimal point error or FOB terms. If an error exists in an extension of prices, the unit price shall prevail. In the event of a discrepancy between the price quoted in words and in figures, the words shall control.

The Town reserves the rights to accept all or any part of a proposal, reject all proposals, and waive any informalities or non-material deficiencies in a proposal. The Town also reserves the right, if applicable, to award the purchase of individual items under this INVITATION TO BID to any combination of separate proposals or proposers.

The Town will select the lowest responsible proposer, meaning that, in addition to price, due consideration will be given to factors such as a proposer's experience, references, capabilities, past performance, and other relevant criteria.

The Town will not award the proposal to any business that or person who is in arrears or in default to the Town with regard to any tax, debt, contract, security or any other obligation.

The Town will issue a Preliminary Notice of Award. The preliminary notice of award may be subject to further negotiations with the proposer. **The making of a preliminary award to a proposer does not provide the proposer with any rights and does not impose upon the Town any obligations. The Town is free to withdraw a preliminary award at any time and for any reason. A proposer has rights, and the Town has obligations, only if and when a Contract is executed by the Town and the proposer.**

17. NONRESIDENT CONTRACTORS

If the successful proposer is a "nonresident contractor" as defined in Conn. Gen. Stat. § 12-

430(7)(A) as amended, it shall comply fully with the provisions of § 12-430(7) and, prior to execution of the Contract, shall furnish the Town with proof that it is a “verified contractor” within the meaning of General Statutes Section 12-430(7) or that it has posted a bond with the Commissioner of Revenue Services in compliance with General Statutes Section 12-430(7). The successful proposer agrees to defend, indemnify, and hold harmless the Town, its employees, officers, officials, agents, volunteers and independent contractors, including any of the foregoing sued as individuals (collectively, the “Town Indemnified Parties”), from any and all taxes, interest and penalties that the State of Connecticut asserts are due with respect to the successful proposer’s activities under the Contract.

Connecticut General Statute §12-430(7) requires that:

When a non-resident contractor enters into a contract, they must post a 5% cash or guarantee bond for the total amount with the Commissioner of Revenue Services;

or

Any person dealing with a non-resident contractor without first obtaining a certificate of compliance must deduct 5% from the amount payable to the non-resident contractor and submit it to the state.

If the requirements are not met, the general contractor will be liable for all Connecticut taxes imposed.

All questions shall be directed to the State of Connecticut Department of Revenue Services Discovery Unit at 860-541-3280.

The successful proposer shall also be required to pay any and all attorney’s fees incurred by the Town Indemnified Parties in enforcing any of the successful proposer’s obligations under this section, whether or not a lawsuit or other proceeding is commenced, which obligations shall survive the termination or expiration of the Contract.

18. COMPLIANCE WITH LAWS

The successful proposer shall comply with all applicable laws, regulations, ordinances, codes and orders of the United States, the State of Connecticut and the Town related to its proposal and the performance of the Contract.

Immigration Laws

By submitting a proposal, each proposer confirms that it has complied, and during the term of the Contract will comply, with the Immigration Reform and Control Act (“IRCA”) and that each person it provides under the Contract will at all times be authorized for employment in the United States of America. Each proposer confirms that it has a properly completed Employment Eligibility Verification, Form I-9, for each person who will be assigned under the Contract and that it will require each subcontractor, if any, to confirm that it has a properly completed Form I-9 for each person who will be assigned under the Contract.

The successful proposer shall defend, indemnify, and hold harmless the Town, its employees, officers, officials, agents, volunteers and independent contractors, including any of the foregoing sued as individuals (collectively, the “Town Indemnified Parties”), against any and all proceedings, suits, actions, claims, damages, injuries, awards, judgments, losses or expenses,

including fines, penalties, punitive damages, attorney's fees and costs, brought or assessed against, or incurred by, the Town Indemnified Parties related to or arising from the obligations under IRCA imposed upon the successful proposer or its subcontractor. The successful proposer shall also be required to pay any and all attorney's fees and costs incurred by the Town Indemnified Parties in enforcing any of the successful proposer's obligations under this provision, whether or not a lawsuit or other proceeding is commenced. The successful proposer's obligations under this section shall survive the termination or expiration of the Contract.

Non-Discrimination and Affirmative Action

In the performance of the Contract, the successful proposer will not discriminate or permit discrimination in any manner prohibited by the laws of the United States or of the State of Connecticut against any person or group of persons on the grounds of race, color, religious creed, age (except minimum age), marital status or civil union status, national origin, ancestry, sex, sexual orientation, mental retardation, mental disability or physical disability, including but not limited to blindness, unless the successful proposer shows that such disability prevents performance of the work involved.

In the performance of the Contract, the successful proposer will take affirmative action to insure that applicants with job-related qualifications are employed and that employees are treated when employed without regard to their race, color, religious creed, age (except minimum age), marital status or civil union status, national origin, ancestry, sex, sexual orientation, mental retardation, mental disability or physical disability, including but not limited to blindness, unless the successful proposer shows that such disability prevents performance of the work involved.

Any violation of these provisions shall be considered a material violation of the Contract and shall be grounds for the Town's cancellation, termination or suspension, in whole or in part, of the Contract and may result in ineligibility for further Town contracts.

Connecticut's Prevailing Wage Law Provision

If applicable, the contractor must be in full compliance with CGS Section 31-53 and 31-53(a) which applies to each contract for the construction, remodeling, refinishing, refurbishing, rehabilitation, alteration, or repair of any public works project by the state or its agents, or by any political subdivision of the State, CGS Section 31-53 (g) provides monetary thresholds which must be met before the law is applicable. In accordance with CGS Section 31-53, projects are subject to the payment of minimum prevailing wages where the total cost of all work to be performed by all contractors and subcontractors in connection with new construction of any public works project is \$400,000 or more and where the total cost of all work to be performed by all contractors and subcontractors in connection with any remodeling, refinishing, refurbishing, rehabilitation, alteration or repair of any public works project is \$100,000 or more. For qualifying projects, all contractors and subcontractors shall submit to the Finance Department certified weekly payrolls for all contracts meeting the stated monetary limits. The certified payrolls shall be submitted to the Finance Department with the contractor's monthly certificate for payment. The contractor should familiarize themselves with all aspects of the provisions under state law in order to ensure full compliance.

Executive Orders

The contract is subject to the provisions of Executive Order No. Three of Governor Thomas J. Meskill, promulgate June 16, 1971, concerning labor employment practices, Executive Order No. Seventeen of Governor Thomas J. Meskill, promulgate February 15, 1973, concerning the listing of employment opening and Executive Order No. Sixteen of Governor John G. Rowland promulgated August 4, 1999, concerning violence in the workplace, all of which are incorporated into and are made a part of the contract as if they had been fully set forth in it. The contract may also be subject to Executive Order No. 7C of Governor M. Jodi Rell, promulgated July 13, 2006, concerning contracting reforms and Executive Order No. 14 of Governor M. Jodi Rell, promulgate April 17, 2006, concerning procurement of cleaning products and services, in accordance with their respective terms and conditions.

Occupational Safety and Health Administration Requirement

According to CGS, Section 31-53b (a) each contract entered into on or after July 1, 2007, for the construction, remodeling, refinishing, refurbishing, rehabilitation, alteration or repair of any public building project by the state or any of its agents, or by a political subdivision of the state or any of its agents, where the total cost of all work to be performed by all contractors and subcontractors in connection with the contract is at least \$100,000 shall contain a provision requiring that, not later than thirty days after the date such contract is awarded, each contractor furnish proof to the Labor Commissioner that all employees performing manual labor on or in such public building , pursuant to such contract, have completed a course of at least ten hours in duration in construction safety and health approved by the federal Occupational Safety and Health Administration or, in the case of telecommunications employees, have completed at least ten hours of training in accordance with 29 CFR 1910.268. The aforesaid provisions shall be deemed to be incorporated into the Contract with the Town. The contractors should familiarize themselves with all aspects of state law and any applicable regulations pertaining to these requirements in order to ensure full compliance.

19. NON COLLUSION AFFIDAVIT

Each proposer shall submit a completed Proposer's Non-Collusion Affidavit Form that is part of this INVITATION TO BID, see **Exhibit B**.

20. CONTRACT TERMS

The following provisions will be mandatory terms of the Town's Contract with the successful proposer. If a proposer is unwilling or unable to meet, or seeks to clarify or modify, any of these Contract Terms, the proposer must disclose that inability, unwillingness, clarification and/or modification in its Proposal Form.

a. DEFENSE, HOLD HARMLESS AND INDEMNIFICATION

The successful proposer agrees, to the fullest extent permitted by law, to defend, indemnify, and hold harmless the Town, its employees, officers, officials, agents, volunteers and independent contractors, including any of the foregoing sued as individuals (collectively, the "Town Indemnified Parties"), from and against all proceedings, suits, actions, claims, damages, injuries, awards, judgments, losses or expenses, including attorney's fees, arising out of or relating, directly or indirectly, to the successful proposer's malfeasance, misconduct, negligence or failure to meet its obligations under the INVITATION TO BID or the Contract. The successful proposer's obligations under this section shall not be limited

in any way by any limitation on the amount or type of the successful proposer's insurance.

Nothing in this section shall obligate the successful proposer to indemnify the Town or its Indemnified Parties against liability for damage arising out of bodily injury to persons or damage to property caused by or resulting from the negligence of the Town Indemnified Parties.

In any and all claims against the Town or its Indemnified Parties made or brought by any employee of the successful proposer, or anyone directly or indirectly employed or contracted with by the successful proposer, or anyone for whose acts or omissions the successful proposer is or may be liable, the successful proposer's obligations under this section shall not be limited by any limitation on the amount or type of damages, compensation or benefits payable by the successful proposer under workers' compensation acts, disability benefit acts, or other employee benefits acts.

The successful proposer shall also be required to pay any and all attorney's fees incurred by the Town or its Indemnified Parties in enforcing any of the successful proposer's obligations under this section. The successful proposer's obligations under this section shall survive the termination or expiration of the Contract.

As a municipal agency of the State of Connecticut, the Town will NOT defend, indemnify, or hold harmless the successful proposer.

b. ADVERTISING

The successful proposer shall not name the Town in its advertising, news releases, or promotional efforts without the Town's prior written approval.

If it chooses, the successful proposer may list the Town in a Statement of References or similar document required as part of its response to a public procurement. The Town's permission to the successful proposer to do so is not a statement about the quality of the successful proposer's work or the Town's endorsement of the successful proposer.

c. SUBCONTRACTING

Prior to entering into any subcontract agreement(s) for the work described in the Contract, the successful proposer shall provide the Town with written notice of the identity (full legal name, street address, mailing address (if different from street address), and telephone number) of each proposed subcontractor. The Town shall have the right to object to any proposed subcontractor by providing the successful proposer with written notice thereof within seven (7) business days of receipt of all required information about the proposed subcontractor. If the Town objects to a proposed subcontractor, the successful proposer shall not use that subcontractor for any portion of the work described in the Contract.

All permitted subcontracting shall be subject to the same terms and conditions as are applicable to the successful proposer. The successful proposer shall remain fully and solely liable and responsible to the Town for performance of the work described in the Contract. The successful proposer also agrees to promptly pay each of its subcontractors within thirty (30) days of receipt of payment from the Town or otherwise in accordance with law. The

successful proposer shall assure compliance with all requirements of the Contract. The successful proposer shall also be fully and solely responsible to the Town for the acts and omissions of its subcontractors and of persons employed, whether directly or indirectly, by its subcontractor(s).

d. PREFERENCES

The successful proposer shall comply with the requirements of Conn. Gen. Stat. § 31-52(b), as amended. Specifically, the successful proposer agrees that in the employment of labor to perform the work under the Contract, preference shall be given to citizens of the United States who are, and have been continuously for at least three (3) months prior to the date of the Contract, residents of the labor market area (as established by the State of Connecticut Labor Commissioner) in which such work is to be done, and if no such qualified person is available, then to citizens who have continuously resided in Hartford County for at least three (3) months prior to the date hereof, and then to citizens of the State who have continuously resided in the State at least three (3) months prior to the date of the Contract.

e. LICENSES AND PERMITS

The successful proposer certifies that, throughout the Contract term, it shall have and provide proof of all approvals, permits and licenses required by the Town and/or any state or federal authority. The successful proposer shall immediately and in writing notify the Town of the loss or suspension of any such approval, permit or license.

f. CESSATION OF BUSINESS/BANKRUPTCY/RECEIVERSHIP

If the successful proposer ceases to exist, dissolves as a business entity, ceases to operate, files a petition or proceeding under any bankruptcy or insolvency laws or has such a petition or proceeding filed against it, the Town has the right to terminate the Contract effective immediately. In that event, the Town reserves the right, in its sole discretion as it deems appropriate and without prior notice to the successful proposer, to make arrangements with another person or business entity to provide the services described in the Contract and to exercise any or all of its rights at Law, in equity, and/or under the Contract.

g. AMENDMENTS

The Contract may not be altered or amended except by the written agreement of both parties.

h. ENTIRE AGREEMENT

It is expressly understood and agreed that the Contract contains the entire agreement between the parties, and that the parties are not, and shall not be, bound by any stipulations, representations, agreements or promises, oral or otherwise, not printed or inserted in the Contract or its attached exhibits.

i. VALIDITY

The invalidity of one or more of the phrases, sentences or clauses contained in the Contract

shall not affect the remaining portions so long as the material purposes of the Contract can be determined and effectuated.

j. **CONNECTICUT LAW AND COURTS**

The Contract shall be governed by and construed in accordance with the internal laws (as opposed to the conflicts of law provisions) of the State of Connecticut, and the parties irrevocably submit in any suit, action or proceeding arising out of the Contract to the jurisdiction of the United States District Court for the District of Connecticut or of any court of the State of Connecticut, as applicable.

k. **NON-EMPLOYMENT RELATIONSHIP**

The Town and the successful proposer are independent parties. Nothing contained in the Contract shall create, or be construed or deemed as creating, the relationships of principal and agent, partnership, joint venture, employer and employee, and/or any relationship other than that of independent parties contracting with each other solely for the purpose of carrying out the terms and conditions of the Contract. The successful proposer understands and agrees that it is not entitled to employee benefits, including but not limited to worker's compensation and employment insurance coverage, and disability. The successful proposer shall be solely responsible for any applicable taxes.

21. LOCAL VENDOR PREFERENCE

The Town has a local vendor preference ordinance. Any bidder that qualifies for the "LOCAL VENDOR PREFERENCE" must fill out a "Town-Based Business Affidavit Form" signed by an authorized representative of the bidder at the time of the bid submittal in order to be considered for this preference. Failure to submit a Town Based Business Affidavit on the form provided by the Town of Stonington will result in disqualification of town-based business status and loss of any preference given to a town-based business on the part of such bidder as to its bid. The form is available on the Town's website at www.stonington-ct.gov or can be obtained by contacting the Finance Department at 860-535-5070.

22. QUALIFICATIONS OF BIDDER

The Town may make whatever investigations it deems necessary to determine the ability of the bidder to perform the work, and the bidder shall furnish to the Town all information and data for this purpose as the Town may request. The Town reserves the right to reject any bid if the evidence submitted by, or investigation of, the bidder fails to satisfy the Town that the bidder is properly qualified to carry out the obligations of the contract and to complete the work contemplated therein. Conditional bids will not be accepted.

END OF STANDARD INSTRUCTIONS TO PROPOSERS

TOWN OF STONINGTON, CONNECTICUT

INVITATION TO BID FOR
ADA RAMP REPLACEMENTS

ITB: #2019-002

PROPOSER'S LEGAL STATUS DISCLOSURE

Please fully complete the applicable section below, attaching a separate sheet if you need additional space.

For purposes of this disclosure, "permanent place of business" means an office continuously maintained, occupied and used by the proposer's regular employees regularly in attendance to carry on the proposer's business in the proposer's own name.

IF A SOLELY OWNED BUSINESS:

Proposer's Full Legal Name _____

Street Address _____

Mailing Address (if different from Street Address) _____

Owner's Full Legal Name _____

Number of years engaged in business under sole proprietor or trade name _____

Does the proposer have a "permanent place of business" in Connecticut, as defined above?
_____ Yes _____ No

If yes, please state the full street address (not a post office box) of that "permanent place of business."

IF A CORPORATION:

Proposer's Full Legal Name _____

Street Address _____

Mailing Address (if different from Street Address) _____

Owner's Full Legal Name _____

Number of years engaged in business _____

Names of Current Officers

President

Secretary

Chief Financial Officer

Does the proposer have a “permanent place of business” in Connecticut, as defined above?

_____Yes _____No

If yes, please state the full street address (not a post office box) of that
“permanent place of business.”

IF A LIMITED LIABILITY COMPANY:

Proposer’s Full Legal Name _____

Street Address _____

Mailing Address (if different from Street Address) _____

Owner’s Full Legal Name _____

Number of years engaged in business _____

Names of Current Manager(s) and Member(s)

Name & Title (if any)

Residential Address (street only)

Name & Title (if any)

Residential Address (street only)

Name & Title (if any)

Residential Address (street only)

Name & Title (if any)

Residential Address (street only)

Name & Title (if any)

Residential Address (street only)

Does the proposer have a “permanent place of business” in Connecticut, as defined above?

_____Yes _____No

If yes, please state the full street address (not a post office box) of that
“permanent place of business.”

IF A PARTNERSHIP:

Proposer's Full Legal Name _____

Street Address _____

Mailing Address (if different from Street Address) _____

Owner's Full Legal Name _____

Number of years engaged in business _____

Names of Current Partners

Name & Title (if any)

Residential Address (street only)

Name & Title (if any)

Residential Address (street only)

Name & Title (if any)

Residential Address (street only)

Does the proposer have a "permanent place of business" in Connecticut, as defined above?

_____ Yes _____ No

If yes, please state the full street address (not a post office box) of that "permanent place of business."

Proposer's Full Legal Name

(print)

Name and Title of Proposer's Authorized Representative

(signature)

Proposer's Representative, Duly Authorized

Date

END OF LEGAL STATUS DISCLOSURE FORM

TOWN OF STONINGTON, CONNECTICUT

**INVITATION TO BID FOR
ADA RAMP REPLACEMENTS**

ITB: #2019-002

PROPOSER'S NON-COLLUSION AFFIDAVIT FORM

PROPOSAL FOR:

The undersigned proposer, having fully informed himself/herself/itself regarding the accuracy of the statements made herein, certifies that:

- (1) the proposal is genuine; it is not a collusive or sham proposal;
- (2) the proposer developed the proposal independently and submitted it without collusion with, and without any agreement, understanding, communication or planned common course of action with, any other person or entity designed to limit independent competition;
- (3) the proposer, its employees and agents have not communicated the contents of the proposal to any person not an employee or agent of the proposer and will not communicate the proposal to any such person prior to the official opening of the proposal; and
- (4) no elected or appointed official or other officer or employee of the Town of Stonington is directly or indirectly interested in the proposer's proposal, or in the supplies, materials, equipment, work or labor to which it relates, or in any of the profits thereof.

The undersigned proposer further certifies that this affidavit is executed for the purpose of inducing the Town of Stonington to consider its proposal and make an award in accordance therewith.

Legal Name of Proposer

(signature)
Proposer's Representative, Duly Authorized

Name of Proposer's Authorized Representative

Title of Proposer's Authorized Representative

Date

Subscribed and sworn to before me this _____ day of _____, 2019.

Notary Public
My Commission Expires:

END OF NON-COLLUSION AFFIDAVIT FORM

TOWN OF STONINGTON, CONNECTICUT

INVITATION TO BID FOR
ADA RAMP REPLACEMENTS

ITB: #2019-002

PROPOSER'S STATEMENT OF REFERENCES FORM

Provide at least three (3) references:

| BUSINESS NAME _____
ADDRESS _____
CITY, STATE _____
TELEPHONE: _____
INDIVIDUAL CONTACT NAME AND POSITION _____

| BUSINESS NAME _____
ADDRESS _____
CITY, STATE _____
TELEPHONE: _____
INDIVIDUAL CONTACT NAME AND POSITION _____

| BUSINESS NAME _____
ADDRESS _____
CITY, STATE _____
TELEPHONE: _____
INDIVIDUAL CONTACT NAME AND POSITION _____

END OF STATEMENT OF REFERENCES FORM

TOWN OF STONINGTON, CONNECTICUT

INVITATION TO BID FOR
ADA RAMP REPLACEMENTS

ITB: #2019-002

REQUIRED DISCLOSURES

1. Exceptions to/Clarifications of/Modifications of the INVITATION TO BID

_____ This proposal does not take exception to or seek to clarify or modify any requirement of the INVITATION TO BID, including but not only any of the Contract Terms set forth in the Standard Instructions to Proposers. **The proposer agrees to each and every requirement, term, provision and condition of this INVITATION TO BID.**

OR

_____ This proposal takes exception(s) to and/or seeks to clarify or modify certain of the INVITATION TO BID requirements, including but not only the following Contract Terms set forth in the Standard Instructions to Proposers. **Attached is a sheet fully describing each such exception.**

2. State Debarment List

Is the proposer on the State of Connecticut's Debarment List?

_____ Yes
_____ No

3. Occupational Safety and Health Law Violations

Has the proposer or any firm, corporation, partnership or association in which it has an interest (1) been cited for three (3) or more willful or serious violations of any occupational safety and health act or of any standard, order or regulation promulgated pursuant to such act, during the three-year period preceding the proposal (provided such violations were cited in accordance with the provisions of any state occupational safety and health act or the Occupational Safety and Health Act of 1970, and not abated within the time fixed by the citation and such citation has not been set aside following appeal to the appropriate agency or court having jurisdiction) or (2) received one or more criminal convictions related to the injury or death of any employee in the three-year period preceding the proposal?

_____ Yes
_____ No

If “yes,” attach a sheet fully describing each such matter.

4. Arbitration/Litigation

Has either the proposer or any of its principals (current or former, regardless of place of employment) been involved for the most recent ten (10) years in any pending or resolved arbitration or litigation?

_____ Yes
_____ No

If “yes,” attach a sheet fully describing each such matter.

5. Criminal Proceedings

Has the proposer or any of its principals (current or former, regardless of place of employment) ever been the subject of any criminal proceedings?

_____ Yes
_____ No

If “yes,” attach a sheet fully describing each such matter.

6. Ethics and Offenses in Public Projects or Contracts

Has either the proposer or any of its principals (current or former, regardless of place of employment) ever been found to have violated any state or local ethics law, regulation, ordinance, code, policy or standard, or to have committed any other offense arising out of the submission of proposals or bids or the performance of work on public works projects or contracts?

_____ Yes
_____ No

If “yes,” attach a sheet fully describing each such matter.

7. Federal Debarment List

Is the proposer on the Federal Government’s Debarment List?

_____ Yes
_____ No

END OF REQUIRED DISCLOSURES FORM

TOWN OF STONINGTON, CONNECTICUT

INVITATION TO BID FOR
ADA RAMP REPLACEMENTS

ITB: #2019-002

AFFIRMATIVE ACTION/EEO AFFIDAVIT

Concerning Equal Employment Opportunities and/or Affirmative
Action Policy I/we, the respondent, certify to the TOWN OF
STONINGTON that:

- 1. I/we are in compliance with the equal opportunity clause as set forth in
Connecticut state law (Executive Order No. Three,
http://www.cslib.org/exeorder3.htm).
2. I/we do not maintain segregated facilities.
3. I/we have filed all required employer's information reports.
4. I/we have developed and maintain written affirmative action programs.
5. I/we list job openings with federal and state employment services.
6. I/we attempt to employ and advance in employment qualified handicapped
individuals.
7. I/we are in compliance with the Americans with Disabilities Act.
8. I/we (check one)
_____ have an Affirmative Action Program, or
_____ employ 10 people or fewer

Legal Name of Bidder:

Business Name:

Business Address:

Signature and Title of Person:

Subscribed and sworn to me

This ____ day of April, 2017

Notary Public

My Commission Expires

date

END OF AFFIDAVIT FORM

TOWN OF STONINGTON, CONNECTICUT

**INVITATION TO BID FOR
RAMP REPLACEMENTS**

ITB: #2019-002

PROPOSAL FORM

BIDDER

Company Name: _____

Address: _____

Telephone: _____ Fax: _____

E-mail: _____

Contact Person: _____ Title: _____

We submit for your consideration our INVITATION TO BID:

We have read the INVITATION TO BID documents and are submitting our bid in full compliance with all terms and conditions except as noted below under "Exceptions."

ADDENDA RECEIPT

Receipt of the following Addenda is hereby acknowledged:

Addendum No. _____ Dated _____
Addendum No. _____ Dated _____

The undersigned agrees to complete the project based on the project manual and plans for the above referenced total bid price.

AUTHORIZED REPRESENTATIVE:

Name of Firm

Address

Phone #

Printed Name and Title

Signature

Date:

END OF PROPOSAL FORM

**TOWN OF STONINGTON, CONNECTICUT
 INVITATION TO BID FOR
 ADA RAMP REPLACEMENTS
 ITB: #2019-002
 BID FORM**

ITEM NO.	EST. QTY	UNITS	DESCRIPTION AND WRITTEN UNIT PRICE	UNIT PRICE	AMOUNT
0102403A	340	SF	Full Depth Roadway Repair at _____ dollars and _____ cents per square foot		
0201001A	1	LS	Clearing & Grubbing at _____ dollars and _____ cents per lump sum		
0219011	20	EA	Sediment Control System at Catch Basin, at _____ dollars and _____ cents each		
0202509	190	LF	Saw Cut Concrete , at _____ dollars and _____ cents per linear foot		
0202529A	475	LF	Cut Bituminous Concrete Pavement, at _____ dollars and _____ cents per linear foot		
0406002	10	SY	Temporary Pavement, at _____ dollars and _____ cents per square yard		
0602020	52	EA	Galvanized Dowel, at _____ dollars and _____ cents each		
0813021A	15	LF	6" Granite Stone Curbing, at _____ dollars and _____ cents per linear foot		
0813031A	10	LF	6" Granite Curved Stone Curbing, at _____ dollars and _____ cents per linear foot		

ITEM NO.	EST.	UNITS	DESCRIPTION AND WRITTEN UNIT PRICE	UNIT PRICE	AMOUNT
0813451A	25	LF	Granite Stone Transition Curbing , at _____ dollars and _____ cents per linear foot		
0814002A	10	LF	Reset Granite Stone Curbing, at _____ dollars and _____ cents per linear foot		
0815001A	25	LF	Bituminous Concrete Lip Curbing, at _____ dollars and _____ cents per linear foot		
0815201A	10	LF	4" Bituminous Concrete Park Curbing, at _____ dollars and _____ cents per linear foot		
0921001A	1,340	SF	Concrete Sidewalk, at _____ dollars and _____ cents per square foot		
0921005A	1,300	SF	Concrete Ramp, at _____ dollars and _____ cents per square foot		
0921036	1	EA	Retrofit Detectable Warning Strip, at _____ dollars and _____ cents each		
0921039	17	EA	Detectable Waring Strip, at _____ dollars and _____ cents each		
0922001	3	SY	Bituminous Concrete Sidewalk, at _____ dollars and _____ cents per square yard		
0922501	5	SY	Bituminous Concrete Drveway, at _____ dollars and _____ cents per square yard		
0944000	225	SY	Furnishing and Placing Topsoil, at _____ dollars and _____ cents per square yard		

ITEM NO.	EST.	UNITS	DESCRIPTION AND WRITTEN UNIT PRICE	UNIT PRICE	AMOUNT
0950005A	225	SY	Turf Establishment, at _____ Twenty Thousand _____ dollars and _____ no _____ cents per square yard		
0970007A	136	HR	Traffic Person (Uniformed Flagger), at _____ dollars and _____ cents per hour		
0971001A	1	LS	Maintenance and Protection of Traffic, at _____ dollars and _____ cents per lump sum		
0975003	1	LS	Mobilization, at _____ Twenty Thousand _____ dollars and _____ no _____ cents lump sum		
0978002	12	EA	Traffic Drum, at _____ dollars and _____ cents each		
0980001A	1	LS	Construction Staking, at _____ dollars and _____ cents lump sum		
0981100	12	EA	42" Traffic Cone, at _____ Twenty Thousand _____ dollars and _____ no _____ cents per each		
1206036A	2	EA	Remove and Relocate Sign, at _____ dollars and _____ cents each		
1302060A	1	EA	Adjust Gate Box (Gas), at _____ dollars and _____ cents each		
1302031	1	EA	Adjust Existing Manhole (Sanitary Sewer), at _____ dollars and _____ cents each		
2999997A	1	ALLOW.	Miscellaneous Extra Work, at _____ Eight thousand _____ and _____ zero _____ cents allowance		\$8,000
The total amount of this base bid is based on the estimated quantities above and include all items listed above (taking into account changes due to addenda if any) as computed by the above signed bidder is:					

**TOWN OF STONINGTON, CONNECTICUT
INVITATION TO BID FOR
ADA RAMP REPLACEMENTS**

INSURANCE REQUIREMENTS

The Successful Proposer shall agree to maintain in force at all times during which services are to be performed the following coverages placed with company(ies) licensed by the State of Connecticut that have at least an "A-" VIII policyholders rating according to Best Publication's latest edition Key Rating Guide.

		(Minimum Limits)
General Liability*	Each Occurrence	\$1,000,000
	General Aggregate	\$3,000,000
	Products/Completed Operations Aggregate	\$3,000,000
	Personal and ADV Injury	\$1,000,000
	Damage to Rented Premises	\$ 300,000
	Medical Expense (anyone person)	\$ 10,000
	Auto Liability*	Combined Single Limit
	Each Accident	\$1,000,000
Professional Liability	Each Claim or Each Occurrence	\$1,000,000
	Aggregate	\$1,000,000
Umbrella* (Excess Liability)	Each Occurrence	\$5,000,000
	Aggregate	\$5,000,000

* "Town of Stonington shall be named as "Additional Insured" Coverage is to be provided on a primary, noncontributory basis.

If any policy is written on a "Claims Made" basis, the policy must be continually renewed for a minimum of two (2) years from the completion date of the contract. If the policy is replaced and/or the retroactive date is changed, then the expiring policy must be endorsed to extend the

reporting period for claims for the policy in effect during the contract for two (2) years from the completion date.

Workers' Compensation and Employers' Liability	WC Statutory	
	Limits EL Each	\$500,000
	EL Disease Each Employee	\$500,000
	EL Disease Policy Limit	\$500,000

Original, completed Certificates of Insurance must be presented to the Town prior to contract issuance. The Successful Proposer agrees to provide replacement/renewal certificates at least 60 days prior to the expiration of any policy. Should any of the above described policies be cancelled before the expiration date, written notice must be given to the Town 30 days prior to cancellation.

INSURANCE REQUIREMENTS FOR SUBCONTRACTORS

The Contractor shall ensure that all tiers of their subcontractors shall procure and maintain insurance in like form and amounts including the Additional Insured requirements, as set forth above. Copies of the certificates of insurance must be provided to the Town prior to the subcontractor entering the jobsite.

SECTION 1.01 – DEFINITION OF TERMS AND PERMISSIBLE ABBREVIATIONS

Article 1.01.01 is amended as follows:

All references to Commissioner, Department, Engineer and State anywhere within the “Standard Specifications for Roads, Bridges, and Incidental Construction” or within the Supplemental Specifications or Special Provisions shall be interpreted to mean the Town of Stonington or a duly authorized agent of the Town. Any question or ambiguity regarding any definitions shall be brought to the immediate attention to the Town.

Town: The Town of Stonington, party of the first part to the contract, acting directly or through its agents or employees.

Contract Unit Price: The cost per established unit for each construction item as written in the Proposal Forms.

Special Provisions: Additions and revisions to the Standard and Supplemental Specifications covering conditions specific to this individual project.

The words “as described”, “as required”, “as permitted”, “as directed”, or phrases of like effect or import as used herein shall mean that the direction, requirement, permission or allowance of the Engineer is intended, and similarly the words “approved”, “reasonable”, “suitable”, “properly”, “satisfactory”, or words of like effect or import, unless otherwise particularly specified herein shall mean approved, reasonable, suitable, properly or satisfactory in the judgment of the Engineer.

SECTION 1.02 – PROPOSAL REQUIREMENTS AND CONDITIONS

Delete the entire section. See Instructions to Bidders for information regarding proposal requirements and conditions.

SECTION 1.07 - LEGAL RELATIONS AND RESPONSIBILITIES

Work under this item shall conform to the applicable provisions of Article 1.07.07 – Public Convenience and Safety of the Standard Specifications Form 817 amended as follows:

Add the following:

The Contractor shall provide the necessary access for emergency vehicles through the work zones to abutting properties at all times.

Sweeping and cleaning of surfaces beyond the limits of construction required for dust control or to clean up material caused by spillage or vehicular tracking during the various phases of the work shall be considered as incidental to the work being performed under the Contract and there will be no additional compensation.

The Contractor shall notify all public safety agencies at least 48 hours prior to beginning any construction operation which will provide less than an 11 foot travel lane along any project roadway.

Article 1.07.13 – Contractor’s Responsibility for Adjacent Property and Service

Add the following:

The Contractor, in constructing or installing facilities alongside or near sewers, drains, water or gas pipes, electric or telephone conduits, poles, sidewalks, walls, vaults, or other structures shall sustain them securely in place. The Contractor shall coordinate with the officers and agents of the various utility companies and municipal departments to assure that the services of these structures are maintained. The Contractor shall also be responsible for the repair or replacement, at no additional cost to the Town, of any damage to such structures caused by construction operations. The Contractor is responsible to leave them in the same condition as they existed prior to commencement of the work. In case of damage to utilities, the Contractor shall promptly notify the utility owner and shall, if requested by the Engineer, furnish labor and equipment to work temporarily under the utility owner's direction. Pipes or other structures damaged by the operation of the Contractor may be repaired by the utility owner which suffers the loss. The cost of such repairs shall be borne by the Contractor, without compensation from the Town.

If during construction there is an existing utility and/or structure found to be in conflict with the proposed work under this Contract, the Contractor shall protect and maintain the services to the utilities and structures and shall notify the Engineer of the conflict. The Engineer will, as soon as possible, identify the utilities to be relocated or other such activities deemed suitable for resolution.

If live service connections are to be interrupted by excavations of any kind, the Contractor shall not break the service until new services are provided. Abandoned services shall be plugged off or otherwise made secure.

Full compensation for furnishing all labor, materials, tools, equipment, and incidentals for doing all of the work involved in protecting or repairing property as specified in this Section shall be included in the prices paid for the various Contract items of work, and no additional compensation will be allowed.

Prior to opening an excavation, effort shall be made to determine whether underground installations, (i.e. sewer, water, fuel, electric lines, etc.) will be encountered and, if so, where such underground installations are located. When the excavation approaches the estimated location of such an installation, the exact location shall be determined by careful probing or hand digging, and when it is uncovered, proper supports shall be provided for the existing installation. Utility companies shall be contacted and advised of proposed work prior to the start of actual excavation.

The following company and representative shall be contacted by the Contractor to coordinate the protection of their utilities on this project 30 days prior to the start of any work on this project involving their utilities:

COMCAST OF CONNECTICUT, INC.

1110 East Mountain Road
Westfield, MA 01085

Mr. Jim Bitzas, Regional Construction Director
Tel. (413) 642-8582
E-Mail: jim_bitzas@cable.comcast.com

THAMES VALLEY COMMUNICATIONS, INC.

295 Meridian St.
Groton, CT 06340

Mr. Richard Aspinwall, Facility Manager
Tel. (860) 446-4142
E-Mail Aspinwallr@tvconnect.com

CELLCO PARTNERSHIP dba VERIZON WIRELESS

20 Alexander Drive
Wallingford, CT 06492

Mr. John Gavaletz, Project/Program Manager
Tel. (203) 741-7232
E-Mail: john.gavaletz@verizonwireless.com

LIGHTOWER FIBER NETWORKS I, LLC dba CROWN CASTLE FIBER

1781 Highland Avenue, Suite 102
Cheshire, CT 06410

Mr. Eric Clark, Manager Fiber Construction
Tel. (203) 649-3904

E-Mail: Eric.Clark@crowncastle.com

MCI COMMUNICATIONS SERVICES, INC.

85 High St
Pawtucket, RI 02860

Mr. Eric C. Johnson, Engr IV Spec – Ntwk Eng & Ops
Tel. (401-727-9558
E-Mail: eric.c.johnson@verizon.com

THE SOUTHERN NEW ENGLAND TELEPHONE COMPANY dba FRONTIER COMMUNICATIONS OF CONNECTICUT

1441 North Colony Road
Meriden, CT 06450-4101

Ms. Lynne DeLucia
Tel. (203) 238-5000
E-Mail: Lynne.m.delucia@ftr.com

THE CONNECTICUT LIGHT AND POWER COMPANY dba EVERSOURCE ENERGY – ELECTRICAL DISTRIBUTION

56 Prospect Street
Hartford, CT 06103

Mr. Daniel J. Garstka, Senior Engineer – Transmission Siting
Tel. (610) 728-4533
E-Mail: daniel.garstka@eversource.com

ALGONQUIN GAS TRANSMISSION COMPANY dba ENBRIDGE

252 Shunpike Road
Cromwell, CT 06416

Mr. Kenneth Ruel, Area Supervisor
Tel. (860) 894-1600 x 1608
E-Mail: Kenneth.Ruel@enbridge.com

YANKEE GAS SERVICES COMPANY dba EVERSOURCE ENERGY – GAS DISTRIBUTION

107 Selden Street, Mail Stop NUE2
Berlin, CT 06037

Mr. James Shea, Lead Engineer Gas Project Engineering
Tel. (203) 317-4570
E-Mail: james.shea@eversource.com

AMTRAK – NATIONAL RAILROAD PASSENGER CORP.

30th Street Station, 4S-027, Mail Box 64
2955 Market Street
Philadelphia, PA 19104

Mr. Michael Kolonauski, Senior Manager Engineering
Tel. (215) 349-1127
E-Mail: Michael.Kolonauski@amtrak.com

AQUARION WATER COMPANY OF CONNECTICUT

600 Lindley Street
Bridgeport, CT 06606

Mr. Carlos Vizcarrondo, Relocations Coordinator
Tel. (203) 337-5950
E-Mail: cvizcarrondo@aquarionwater.com

SOUTHEASTERN CONNECTICUT WATER AUTHORITY

1649 Route 12 – P.O. Box 415
Gales Ferry, CT 06335-0415

Mr. Joseph Cansler, General Manager
Tel. (860) 464-0232
E-Mail: j.cansler@waterauthrity.org

TOWN OF WESTERLY

45 Broad Street
Westerly, RI 02891

Mr. Mark Rooney, Town Manager
Tel. (401) 348-2530
E-Mail: mrooney@westerlyri.gov

SECTION 1.08 - PROSECUTION AND PROGRESS

Section 1.08 - Prosecution and Progress is amended as follows:

Article 1.08.03 – Prosecution of Work of the Standard Specifications Form 817 is amended as follows:

Add the following:

All appropriate Maintenance and Protection of Traffic devices are to be installed prior to commencing construction operations.

Particular care shall be taken to establish and maintain methods and procedures that will not create unnecessary or unusual hazards to public safety. Traffic control devices required only during working hour operations shall be removed at the end of each working day.

Signs having messages that are irrelevant to normal traffic conditions shall be removed or properly covered at the end of each work period. Signs shall be kept clean at all times and legends shall be distinctive and unmarred.

The Contractor shall notify all public safety agencies at least 48 hours prior to beginning any construction operation which will provide less than an 11-foot travel lane along any project roadway.

Article 1.08.04 - Limitation of Operations is supplemented by the following:

In order to provide for traffic operations as outlined in the special provision "Maintenance and Protection of Traffic", the Contractor will not be permitted to perform any work which will interfere with normal traffic operation on any project road during the following periods:

On the following Legal Holidays:

New Year's Day

Martin Luther King Day

President's Day

Good Friday

Memorial Day

Independence Day

Labor Day

Columbus Day

Veterans Day

Thanksgiving Day

Christmas Day

Also any other day between the hours of 4:00 pm and 7:00 am.

The Contractor will not be allowed to perform any work on Saturday or Sunday.

All construction activities, including the loading and unloading of materials and equipment, shall be

limited to Monday through Friday, 7:00 a.m. to 4:00 p.m.

Detour of traffic outside of the project limits is prohibited. Local detours may be allowed for certain operations with the Engineer's prior approval. The Contractor shall submit a proposed Traffic Management Plan a minimum of 48 hours in advance of the proposed detour for Engineer's approval. The proposed plan must include the proposed detour route and any proposed signage that will be required. The Contractor must abide by the ordinance regarding Permits to Work or Excavate In Or Under Streets Or Highways in Town of Stonington available at <http://www.stonington-ct.gov/sites/stoningtonct/files/file/file/excavationordinance.pdf>

All Roadways

All construction activities, including the loading and unloading of materials and equipment, shall be limited to Monday through Friday, 7:00 a.m. to 4:00 p.m.

Access to local property and businesses must be maintained at all times unless prior arrangements are made with property owners or business proprietors.

Additional Lane Closure Restrictions

It is anticipated that work on adjacent roadways will be ongoing simultaneously with this project. The Contractor shall be aware of those projects and anticipate that coordination will be required to maintain proper traffic flow at all times on all project roadways, in a manner consistent with these specifications and acceptable to the Engineer.

The Contractor will not be allowed to perform any work that will interfere with traffic operations on a roadway when traffic operations are being restricted on that same roadway, unless there is at least a one-half mile clear area length where the entire roadway is open to traffic or the closures have been coordinated and are acceptable to the Engineer. The one-half mile clear area length shall be measured from the end of the first work area to the beginning of the signing pattern for the next work area.

Other Limitations

All temporary concrete barriers, other protective systems and traffic control devices as called for by the contract or ordered by the Engineer must be on-hand and available in sufficient quantity for immediate installation prior to any stage change.

SECTION A – SPECIAL PROVISIONS

TABLE OF CONTENTS OF SPECIAL PROVISIONS

Note: This Table of Contents has been prepared for the convenience of those using this contract with the sole express purpose of locating quickly the information contained herein; and no claims shall arise due to omissions, additions, deletions, etc., as this Table of Contents shall not be considered part of the contract.

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NOTICE TO CONTRACTOR –	WORK SCHEDULE
NOTICE TO CONTRACTOR –	COORDINATION OF WORK
NOTICE TO CONTRACTOR –	FINAL ROADWAY GRADES
NOTICE TO CONTRACTOR –	TOWN OF STONINGTON DISCLAIMER
NOTICE TO CONTRACTOR –	CONTRACT TIME AND LIQUIDATED DAMAGES
NOTICE TO CONTRACTOR –	NOISE POLLUTION
NOTICE TO CONTRACTOR –	SAFEGUARDING OF RESIDENCES AND PEDESTRIANS
NOTICE TO CONTRACTOR –	GENERAL PERMIT FOR THE DISCHARGE OF STORMWATER AND DEWATERING WASTEWATERS FOR CONSTRUCTION ACTIVITIES
NOTICE TO CONTRACTOR –	PROCUREMENT OF MATERIALS
NOTICE TO CONTRACTOR –	VEHICLE EMISSIONS
NOTICE TO CONTRACTOR –	PROPERTY BOUNDS
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NOTICE TO CONTRACTOR –	TEMPORARY ACCESS TO AREA MERCHANTS, BUSINESSES AND RESIDENCES
NOTICE TO CONTRACTOR –	SHOP DRAWINGS
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SECTION 1.01 –	DEFINITION OF TERMS AND PERMISSIBLE ABBREVIATIONS
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ITEM #0102403A –	FULL DEPTH ROADWAY REPAIR
ITEM #0201001A –	CLEARING AND GRUBBING

ITEM #0202529A – CUT BITUMINOUS CONCRETE PAVEMENT
ITEM #0813021A – 6” GRANITE STONE CURBING
ITEM #0813031A – 6” GRANITE CURVED STONE CURBING
ITEM #0813451A – GRANITE STONE TRANSITION CURBING
ITEM #0814002A – RESET GRANITE STONE CURBING
ITEM #0815001A – BITUMINOUS CONCRETE LIP CURBING
ITEM #0815201A – 4” BITUMINOUS CONCRETE PARK CURBING
ITEM #0921001A – CONCRETE SIDEWALK
ITEM #0921005A – CONCRETE RAMP
ITEM #0950005A – TURF ESTABLISHMENT
ITEM #0970007A – TRAFFICPERSON (UNIFORMED FLAGGER)
ITEM #0971001A – MAINTENANCE AND PROTECTION OF TRAFFIC
ITEM #0980001A – CONSTRUCTION STAKING
ITEM #1206036A – REMOVE AND RELOCATE SIGN
ITEM #1302060A – ADJUST GATE BOX (GAS)
ITEM #2999997A – MISCELLANEOUS EXTRA WORK

SECTION B– STANDARD PROVISIONS

LIST OF STANDARD PROVISIONS

Note: This list has been prepared for the convenience of those using this contract with the sole express purpose of locating quickly the information contained herein; and no claims shall arise due to omissions, additions, deletions, etc., as this list shall not be considered part of the contract.

ITEM #0219011 – SEDIMENT CONTROL SYSTEM AT CATCH BASIN
ITEM #0202509 – SAW CUT CONCRETE
ITEM #0406002 – TEMPORARY PAVEMENT
ITEM #0602020 – GALVANIZED DOWEL
ITEM #0921036 – RETROFIT DETECTABLE WARNING STRIP
ITEM #0921039 – DETECTABLE WARNING STRIP
ITEM #0922001 – BITUMINOUS CONCRETE SIDEWALK
ITEM #0922501 – BITUMINOUS CONCRETE DRIVEWAY
ITEM #0944000 – FURNISHING AND PLACING TOPSOIL
ITEM #0975003 – MOBILIZATION
ITEM #0978002 – TRAFFIC DRUM
ITEM #0981100 – 42” TRAFFIC CONE
ITEM #1302031 – ADJUST EXISTING MANHOLE (SANITARY SEWER)

NOTICE TO CONTRACTOR – SPECIAL PROVISIONS

All construction under this contract shall adhere to and comply with the Department of Transportation, Form 817, “Standard Specifications for Roads, Bridges, and Incidental Construction”, 2004 edition as revised through July 2018, including the most recent supplements thereto unless otherwise specified in these provisions.

In Form 817, where the words “State of Connecticut”, “Department”, “ConnDOT”, or “CTDOT” appear, it shall be interpreted to mean “Town of Stonington” as if inserted therein.

The following Special Provisions and Sections of Form 817 are here incorporated and made part of this contract.

NOTICE TO CONTRACTOR – WORK SCHEDULE

The Contractor is required to submit a schedule of work to be completed to the Engineer and obtain approval from the Engineer on the schedule prior to commencing work and shall update the schedule monthly. Should construction occur at a rate different from that indicated in the approved schedule, the Contractor shall submit a revised work schedule to the Engineer for approval.

NOTICE TO CONTRACTOR – COORDINATION OF WORK

The Contractor shall coordinate his/her work with any utility companies and other contractors working within the project area.

NOTICE TO CONTRACTOR – FINAL ROADWAY GRADES

The Contractor shall ensure that the final grades of the roadway and adjacent topography provides positive drainage. The work involved in establishing the final roadway grades shall be included in the lump sum price for Construction Staking.

NOTICE TO CONTRACTOR – TOWN OF STONINGTON DISCLAIMER

Town of Stonington Request for Proposals and other information and documents which are obtained through the Internet, World Wide Web sites or other sources other than the Town of Stonington’s website are not to be construed to be official information for the purposes of proposals or conducting other business with the Town.

It is the responsibility of each Firm and all other interested parties to obtain all proposal related information and documents from the Town of Stonington’s website and/or official sources within the Town.

Persons and/or entities which reproduce and/or make such information available by any means

are not authorized by the Town to do so and may be liable for claims resulting from the dissemination of unofficial, incomplete and/or inaccurate information.

NOTICE TO CONTRACTOR – CONTRACT TIME AND LIQUIDATED DAMAGES

All work shall be substantially completed by Thursday, September 5th 2019, with final completion by Monday October 7th, 2019.

Liquidated damages charge to apply will be Five Hundred Dollars (\$500) per calendar day.

NOTICE TO CONTRACTOR – NOISE POLLUTION

The Contractor shall take measures to control the noise intensity caused by his construction operations and equipment, including but not limited to equipment used for drilling, pile driving, blasting, excavation, or hauling. All methods and devices employed to minimize noise shall be subject to the continuing approval of the Engineer and in accordance with the Town of Stonington.

NOTICE TO CONTRACTOR – SAFEGUARDING OF RESIDENCES AND PEDESTRIANS

The Contractor shall maintain and protect traffic operations at all driveways and provide adequate sight lines. The Contractor shall not restrict sight lines with construction equipment when not actively working. The Contractor shall provide and maintain safe pedestrian operations on existing sidewalks or temporary bituminous walks at all times during and after construction hours. The Contractor shall provide adequate protection between work area and pedestrian sidewalk activities as directed by the Engineer.

NOTICE TO CONTRACTOR – GENERAL PERMIT FOR THE DISCHARGE OF STORMWATER AND DEWATERING WASTEWATERS FOR CONSTRUCTION ACTIVITIES

In accordance with Section 22a-430b of the Connecticut General Statutes, the Contractor shall comply with the General Permit for the Discharge of Stormwater and Dewatering Wastewaters from Construction Activities, filed by the Town of Stonington with the Department of Energy and Environmental Protection (CTDEEP). A copy of the permit application filed by the Town is available at the Engineering Office on the second floor of Stonington Town Hall, 152 Elm Street, Stonington, CT.

NOTICE TO CONTRACTOR - PROCUREMENT OF MATERIALS

Upon award, the Contractor shall proceed with shop drawings, working drawings, procurement of

materials, and all other submittals required to complete the work in accordance with the contract documents.

NOTICE TO CONTRACTOR - VEHICLE EMISSIONS

All motor vehicles and/or construction equipment (both on-highway and non-road) shall comply with all pertinent State and Federal regulations relative to exhaust emission controls and safety.

The Contractor shall establish staging zones for vehicles that are waiting to load or unload at the contract area. Such zones shall be located where the emissions from the vehicles will have minimum impact on abutters and the general public.

Idling of delivery and/or dump trucks, or other equipment shall not be permitted during periods of non-active use, and it should be limited to three minutes in accordance with the Regulations of Connecticut State Agencies Section 22a-174-18(b)(3)(c):

No mobile source engine shall be allowed “to operate for more than three (3) consecutive minutes when the mobile source is not in motion, except as follows:

- i. When a mobile source is forced to remain motionless because of traffic conditions or mechanical difficulties over which the operator has no control,
- ii. When it is necessary to operate defrosting, heating or cooling equipment to ensure the safety or health of the driver or passengers,
- iii. When it is necessary to operate auxiliary equipment that is located in or on the mobile source to accomplish the intended use of the mobile source,
- iv. To bring the mobile source to the manufacturer’s recommended operating temperature,
- v. When the outdoor temperature is below twenty degrees Fahrenheit (20 F),
- vi. When the mobile source is undergoing maintenance that requires such mobile source be operated for more than three (3) consecutive minutes, or
- vii. When a mobile source is in queue to be inspected by U.S. military personnel prior to gaining access to a U.S. military installation.

All work shall be conducted to ensure that no harmful effects are caused to adjacent sensitive receptors. Sensitive receptors include but are not limited to hospitals, schools, daycare facilities, elderly housing and convalescent facilities. Engine exhaust shall be located away from fresh air intakes, air conditioners, and windows.

A Vehicle Emissions Mitigation plan will be required for areas where extensive work will

be performed in close proximity (less than 50 feet (15 meters)) to sensitive receptors. No work will proceed until a sequence of construction and a Vehicle Emissions Mitigation plan is submitted in writing to the Engineer for review and all comments are addressed prior to the commencement of any extensive construction work in close proximity (less than 50 feet (15 meters)) to sensitive receptors. The mitigation plan must address the control of vehicle emissions from all vehicles and construction equipment.

If any equipment is found to be in non-compliance with this specification, the Contractor will be issued a Notice of Non-Compliance and given a 24 hour period in which to bring the equipment into compliance or remove it from the project. If the Contractor then does not comply, the Engineer shall withhold all payments for the work performed on any item(s) on which the non-conforming equipment was utilized for the time period in which the equipment was out of compliance.

Any costs associated with this "Vehicle Emissions" notice shall be included in the general cost of the contract. In addition, there shall be no time granted to the Contractor for compliance with this notice.

NOTICE TO CONTRACTOR – PROPERTY BOUNDS

The Contractor shall exercise due care when working around all property bounds which are to remain. Should any damage to a bound result from the actions of the Contractor, the bound shall be replaced and/or realigned by a CT-licensed land surveyor as directed by the Engineer at the Contractor's expense.

NOTICE TO CONTRACTOR - EXISTING UTILITIES

Existing utilities shall be maintained during construction. The Contractor shall verify the location of underground, structure mounted and overhead utilities. Construction work within the vicinity of utilities shall be performed in accordance with current safety regulations.

The Contractor shall contact all utilities prior to starting construction.

The Contractor shall notify "Call Before You Dig", telephone: 1-800-922-4455 for the location of public utility underground facilities, in accordance with Section 16-345 of the Regulations of the Department of Public Utility Control.

Contractors are cautioned that it is their responsibility to verify locations, conditions, and field dimensions of all existing features, as actual conditions may differ from information shown on the plans or contained elsewhere in the specifications.

The Contractor shall notify the Engineer prior to the start of his work and shall be responsible for all coordination with the Department. The Contractor shall allow the Engineer complete access to the work.

The Contractor is hereby notified that utility work schedules will have to be accommodated prior to proceeding. The Contractor shall coordinate with the Utility Companies to accommodate his schedule with all utility company schedules. Any inconvenience or delay that may result from the utility company work shall be included in the contract proposal for the work.

All of the existing utility infrastructure must remain in service until the new facilities are acceptable to be put in service. The Contractor shall explore with the utilities this aspect of the project. This condition of serviceability applies to the work being done by the Contractor for the utilities and to work that is being done under the control of the utility.

NOTICE TO CONTRACTOR – QUALITY OF WORK

It is the Contractor's responsibility to perform the work of this Contract in accordance with the contract plans and specifications and as directed by the Engineer. The Town reserves the right to withhold payment for any quantity of work which, in the opinion of the Engineer and/or the Town, does not meet the contract requirements. Any and all improvements, or parts thereof, constructed as part of this contract, which in the Engineer and/or the Town's opinion, do not conform to the contract plans and specifications and has resulted in an unacceptable product, will not be measured for payment until corrected by the Contractor at the Contractor's own expense.

Upon receiving notification from the Town that such work has been identified as unacceptable, the Contractor shall immediately proceed to either repair or remove and replace the unacceptable work as directed by the Engineer and/or the Town.

When, in the opinion of the Engineer and/or the Town, the corrective work has been completed and accepted, the original pay items will be measured for payment.

NOTICE TO CONTRACTOR – CONNDOT ENCROACHMENT PERMIT

The Contractor shall be required to obtain a State of Connecticut Encroachment Permit for any work to be performed within a State Right of Way. The Contractor shall assume all costs associated with any encroachment permit and the costs shall be included in the general cost of the Contract. There will be no additional compensation paid by the Town of Stonington for permit costs.

NOTICE TO CONTRACTOR - SUPPORT OF EXISTING UTILITY POLES WITHIN THE PROJECT LIMITS

The Contractor shall be aware that there may be a need to support utility poles within the project limits during excavation operations. Coordination with the appropriate pole custodian will be required by the Contractor as to means and methods of support. The Contractor shall incorporate the cost of all utility pole support within the cost of the project. There will be no direct payment associated with this item.

NOTICE TO CONTRACTOR – TEMPORARY ACCESS TO AREA MERCHANTS, BUSINESSES, AND RESIDENCES

Access to all businesses and residences must be maintained at all times.

The Contractor shall coordinate his/her work, provide safe and ready means of ingress and egress to all stores and shops, public and private professional offices, and any other businesses or residences in the project area, both day and night, for the duration of the project. As required by the Engineer, the Contractor shall install and maintain temporary ramps at driveways. The cost of installing, maintaining, and removing the temporary ramps shall be in accordance with Section 4.06.

The Contractor shall provide each abutter a minimum of 24-hour notice prior to beginning construction on private driveway entrances.

NOTICE TO CONTRACTOR – SHOP DRAWINGS

The Contractor shall submit electronic copies (adobe acrobat) of all shop drawings to the Engineer for review and approval prior to ordering or installing the items.

NOTICE TO CONTRACTOR – SAWCUTS

Existing pavement to remain shall be saw cut at all openings for utility work, for new or reset curb, and at all joints with proposed full-depth hot mix asphalt pavement and sidewalk, as shown on the plans or as directed by the Engineer. All joints are to be sealed after the wearing course is down. The cost of sealing the joints shall be incidental to the contract unit cost per linear foot of the “Cut Bituminous Concrete Pavement”.

NOTICE TO CONTRACTOR – TREE REMOVAL

If it is necessary to remove any trees within the project limits, the Contractor is required to contact the Town’s Tree Warden prior to any removal. The Contractor will be responsible for flagging all public trees to be removed. The Engineer will then review the trees to insure conformance to the plans. The Town will then post the trees, with a 10-day notice/waiting period required. If the tree removal is protested, an appeal process with a Public Hearing will be held prior to the tree removal.

NOTICE TO CONTRACTOR – OPENING, EXCAVATION, AND OBSTRUCTING STREETS POLICY

The Contractor must abide by the ordinance regarding Permits to Work or Excavate In Or Under Streets Or Highways in Town of Stonington available at <http://www.stonington-ct.gov/sites/stoningtonct/files/file/file/excavationordinance.pdf>

NOTICE TO CONTRACTOR – PAYMENT REQUISITIONS

The Contractor's payment requisitions shall include an intersection by intersection break down of pay item quantities. These quantities will be spot checked by the Engineer.

Any costs associated with this "Payment Requisitions" notice shall be included in the general cost of the contract. In addition, there shall be no time granted to the Contractor for compliance with this notice.

**NOTICE TO CONTRACTOR - MIX DESIGNATION EQUIVALENCY
AND PG BINDER EQUIVALENCY**

The following table is to be used to associate mix designations noted on the plans with those in the contract specifications and related documents. Mix designations on each row are equivalent and refer to a single mix, which shall be subject to the requirements of the Section 4.06 and M.04 for the Official Mix Designation in the leftmost column of the corresponding row in the table.

Mix Designation Equivalency Table

Official Mix Designation	Equivalent Mix Designation (a)	Equivalent Mix Designation (b)
(c)	Superpave 1.5 inch	Superpave 37.5 mm
HMA S1	Superpave 1.0 inch	Superpave 25.0 mm
HMA S0.5	Superpave 0.5 inch	Superpave 12.5 mm
HMA S0.375	Superpave 0.375 inch	Superpave 9.5 mm
HMA S0.25	Superpave 0.25 inch	Superpave 6.25 mm
(c)	Superpave #4	Superpave #4
HMA S0.5 (d)	Bituminous Concrete Class 1 (e)	Bituminous Concrete Class 1 (e)
HMA S0.375 (d)	Bituminous Concrete Class 2 where it is specified in lifts 1.25 or thicker (e)	Bituminous Concrete Class 2 where it is specified in lifts 1.25 or thicker (e)
HMA S0.25 (d)	Bituminous Concrete Class 2 where it is specified in lifts 1.0 inches to less than 1.25 inches (e); Bituminous Concrete Class 12 (e)	Bituminous Concrete Class 2 where it is specified in lifts 1.0 inches to less than 1.25 inches (e); Bituminous Concrete Class 12 (e)
HMA S1 (d)	Bituminous Concrete Class 4 (e)	Bituminous Concrete Class 4 (e)
Curb Mix	Bituminous Concrete Class 3	Bituminous Concrete Class 3

Notes

(a) This mix designation is generally included with projects where the English measurement system is used. The mix designation may contain both the English measurement system designation and the SI (metric) measurement system designation, one of which would be in parenthesis.

(b) This mix designation is generally included with projects where the SI (metric) measurement system is used. The mix designation may contain both the English measurement system designation and the SI measurement system designation, one of which would be in parenthesis.

(c) This mix is no longer in use except by contract-specific Special Provision; if this mix is called for in the Plans but no such Special Provision is included for this contract a suitable substitute must be approved by the Engineer.

(d) Unless approved by the Engineer, the Superpave Design Level for the Official Mix Designation bituminous concrete replacing a Marshall mix called for in the plans or other contract documents shall be Design Level 2 for mixes used on mainline or shoulders of state-maintained roadways and Design Level 1 elsewhere, including but not limited to driveways or sidewalks.

(e) All mixes designed under the Marshall mix-design method are no longer covered by the 4.06 Special Provision. Wherever they appear in Contract plans and documents they shall be substituted by the “Official Mix Designation” in the same row of the Mix Designation Equivalency Table. Unless approved by the Engineer, the Superpave Design Level shall be Level 1.

PG Binder Designation Equivalency Table

Official Binder Designation	Equivalent Binder Designation	Use
PG 64S-22	PG 64-22	Hot-Mix Asphalt (HMA S* pay items and pay items using HMA S* materials)(a),(b)
PG 64E-22	PG 76-22	Polymer-Modified Asphalt (PMA S* pay items and pay items using HMA S* materials)(a),(b)

Notes

(a) Use the Mix Designation Equivalency Table above to identify the Official Mix Designation for materials using the Marshall mix design method, i.e. “Bituminous Concrete Class *.”

(b) Refer to the NTC – Superpave Design Level for the Superpave Design Level to use for each mix on a project. The PG Binder Designation Equivalency Table can be used to obtain the Official Binder Designation for each mix identified in the NTC – Superpave Design Level.

ITEM NO. 0102403A – FULL DEPTH ROADWAY REPAIR

Description:

This item shall include removing existing bituminous surface, excavating for, furnishing and placing a new 12" deep processed aggregate foundation, furnishing material for and construction of new 5" thick when compacted two course bituminous concrete surface, sealing joints in pavement to the limits as specified on the plans and or as directed by the Engineer, and applying applying asphaltic tack coat over existing pavement surfaces prior to constructing the surface course.

Reference Standard

The State of Connecticut, Department of Transportation, Standard Specification for Roads, Bridges, Facilities and Incidental Construction, Form 817, as amended.

Required Submittals:

All submittals shall be made in accordance with Section 1.05, Control of the Work, State of Connecticut, Department of Transportation, Standard Specification for Roads, Bridges, Facilities and Incidental Construction, Form 817, as amended.

Materials:

The material for hot mix asphalt pavement(s) shall conform to the requirements of section M.04 of The State of Connecticut, Department of Transportation, Standard Specification for Roads, Bridges, Facilities and Incidental Construction, Form 817. Recycled asphalt pavement (RAP) or Crushed Glass shall not be allowed to be used in the material unless specified on the plans, or ordered by the engineer.

Process aggregate used for pavement foundation shall conform to Article M.05.01 of The State of Connecticut, Department of Transportation, Standard Specification for Roads, Bridges, Facilities and Incidental Construction, Form 817.

The type and grade of asphaltic material for the tack coat shall be asphalt emulsion of grade CSS-1 or CCS-1H, and shall conform to the applicable requirements of AASHTO, M 208. The grade may be changed to suit field conditions.

Construction Methods:

The construction methods for hot mix asphalt pavement(s) shall conform to the requirements of section 4.06 The State of Connecticut, Department of Transportation, Standard Specification for Roads, Bridges, Facilities and Incidental Construction,

Form 817, 2016 for the class of pavement(s) specified and as amended and supplemented below:

1. Excavation
Excavation to subgrade shall be 17" below finished grade. The subgrade shall not be disturbed and shall be compacted to the satisfaction of the Engineer before construction of the processed aggregate foundation.

2. Foundation
The processed aggregate foundation shall be constructed to the proper elevation in two courses. Both courses shall be of equal thickness unless otherwise specified. The compaction of each layer shall be at least 97 percent of the maximum dry density as obtained by the AASHTO Test T-180, Method D.

3. Bituminous Surface
The mixture shall be laid only when the surface to be covered is dry, the air temperature is at least 50 degrees F in the shade, and when weather conditions, in the opinion of the Engineer, are suitable. The mixture shall be dumped on an approved steel plate at a temperature of not less than 250 degrees F; it shall be immediately distributed into place and spread in a uniformly loose layer of such depth to give the required thickness after compaction. Compaction of the mixture shall be by a roller weighing not less than 5 ton; in area inaccessible to the 5 ton roller, a roller weighing at least one ton, a motor driven vibratory compactor or hand tamps shall be used.

The Contractor shall have sufficient shovels, rakes, lutes, brooms, and steel tamps, etc., to do the job. Kerosene, diesel fuel or other suitable solvents may be used to clean tools, provided that extreme care is exercised to prevent such solvents being spilled on or mixed into the bituminous concrete. Contractor shall ensure that all clean-up activities are performed in accordance with all applicable state and federal regulations. Adjacent existing bituminous surface shall be trimmed to a straight and true line, and edges shall be given a light paint coat of hot asphalt cement, viscosity grade AC-20 just prior to placement of new bituminous surface.

The edges of adjoining concrete walks, manholes and other structures shall be given a light paint coat of hot asphalt just prior to placement of new bituminous surface.

The surface of the joint between new bituminous concrete and existing bituminous surface shall be sealed with hot asphalt poured along the joint.

After final compaction and sealing of joints a light uniform coating of sand shall be laid over the surface of the new bituminous concrete.

The construction of 5" bituminous concrete surface shall be installed in two courses; a 3 1/2" base course of HMA S0.5 bituminous concrete road base and a 1 1/2" surface course of HMA S0.5 bituminous concrete.

4. Tack Coat

The pavement surface shall be free of all-loose material, dust, dirt and vegetation prior to application of tack coat. Emulsions for tack coat shall be diluted 50/50 with water and shall not be heated in excess of 160F. Care must be taken not to apply too heavy a coating; application rate of the diluted emulsion shall be 0.10 gallons per square yard or as directed by the Engineer or his representative. The emulsion shall be applied by a pressurized spray method and shall include a method of measuring consumption acceptable to the City. The equipment used and method of placing an overall tack coat must be approved by the Engineer or his designated representatives.

Method of Measurement:

This work will be measured for payment by the number square feet of "FULL DEPTH ROADWAY REPAIR" constructed complete and accepted.

Basis of Payment:

This work will be paid for at the contract unit price per square foot of "FULL DEPTH ROADWAY REPAIR" complete and accepted, including all equipment, tools, labor, materials, tack coat and incidental expenses.

<u>Pay Item</u>	<u>Description</u>	<u>Pay Unit</u>
0102403A	Full Depth Roadway Repair	S.F.

END OF SECTION

ITEM #0201001A – CLEARING AND GRUBBING

Description: add the following:

Also included in this work shall be the removal and resetting of existing fences, existing mailboxes, existing newspaper boxes, edging, pavers or ornamental items, as shown on the contract drawings or directed by the Engineer. Mailboxes shall be reset to United States Postal Service (USPS) Standards.

The Contractor shall also be required to protect all existing features including but not limited to fences, walls, walkways, steps, plantings, or any other items that are not indicated to be removed or replaced on the plans. Any item that is removed or damaged during construction activities shall be the Contractor's responsibility to repair or replace the item to the Engineer's satisfaction. The repair or replacement of any damage will be the Contractor's responsibility at no additional cost to the Town of Stonington or the affected property owner.

The Contractor shall also provide photographic or video recording of all pre-existing conditions of any damaged features prior to construction activities.

Materials: Material required to backfill holes left by tree stumps shall conform to the requirements of Section 2.13.02, Granular Fill, of the CTDOT Standard Specifications Form 817.

Construction Methods: add the following after the first paragraph:

The removal of individual trees shall be carried out in a safe, workmanlike manner. This shall include the removal and disposal of all branches and stumps, and proper backfilling and compacting of all affected areas. The Contractor shall take extra care to protect overhead and underground utilities, private property, etc. Work under this item shall be performed by a properly licensed, insured tree removal firm, approved by the Engineer and authorized to work within the Town of Stonington.

Add the following to the end of the section:

All ornamental items on properties within the project limits including but not limited to cobble stones, fences, mailboxes, newspaper boxes, edging, pavers, planters, mulch, railroad ties, etc...disturbed by clearing and grubbing and roadway excavation shall be removed and reset, to the satisfaction of the Engineer.

All items described above to be reset shall be removed, stored and reset as shown on the plans or directed by the Engineer. Any damage caused by the Contractor's activities shall be repaired or replaced by the Contractor, to equal or better than condition, at no additional cost.

Basis of Payment: supplement as follows:

All costs incidental to the removal and resetting of ornamental items will be included in the price for "Clearing and Grubbing". Included in the lump sum price shall be: all the work described above, which may be necessary to properly complete the project, unless the work is included under another project pay item; the resetting of existing cobble stones, fences, mailboxes, newspaper boxes, edging, pavers, planters, mulch, railroad ties or other ornamental items as required by the plans or as directed; and the removal and disposal of any other trees, stumps, etc. required to be removed. Also included in the lump sum price is the cost of providing photos or video of pre-existing conditions. This item shall also include all equipment, tools, labor and materials incidental to the work described.

Pay Item

Clearing and Grubbing

Pay Unit

l.s.

ITEM #0202529A – CUT BITUMINOUS CONCRETE PAVEMENT

Basis of Payment: supplement as follows:

The cost for applying joint seal after final wearing course is installed, to conform with Section M.04.01.8, shall be included in the contract unit price per linear foot of “Cut Bituminous Concrete Pavement” which price shall include all materials, equipment, tools and labor incidental thereto.

Pay Item

Cut Bituminous Concrete Pavement

Pay Unit

l.f.

ITEM #0813021A – 6” GRANITE STONE CURBING

ITEM #0813031A – 6” GRANITE CURVED STONE CURBING

ITEM #0813451A – GRANITE STONE TRANSITION CURBING

ITEM #0814002A – RESET GRANITE STONE CURBING

Description: add the following:

Also included in this work shall be making all necessary pavement repairs.

Construction Methods: add the following:

The following applies where the entire roadway is not to be resurfaced. The edge of the pavement shall be trimmed to neat straight lines not less than 12” from the face of the curb and shall be painted with hot asphalt cement. The face of the curb below gutter grade shall also be painted with hot asphalt cement. Hot asphalt cement shall be graded by viscosity at 140 F and shall conform to the requirements of AASHTO M226-80 except that AC-20 viscosity grade shall be as follows:

<u>Test</u>	<u>Minimum</u>	<u>Maximum</u>
Viscosity, 140 F, poises	2000	+400
Viscosity, 275 F, Cs.	300	
Penetration, 77 F, 100 g, 5 Sec	60	
Flash Point, COC, F	50	
Solubility in Trichlorethylene, %	99.0	
Tests on Residue - Thin Film Oven Test Loss on Heating, %	00	0.50
Ductility, 66 F, 2 inches/min, cm	30	
Ductility, 77 F, 2 inches/min, cm	50+	
Viscosity, Ratio, ATFO/BTFO	4	

Basis of Payment: supplement as follows:

Payment for this work shall include all materials, equipment, tools, and labor incidental thereto required to repair disturbed pavement areas in front of curb.

<u>Pay Item</u>	<u>Pay Unit</u>
6" Granite Stone Curbing	LF
6" Granite Curbed Stone Curbing	LF
Granite Stone Transition Curbing	LF
Reset Granite Stone Curbing	LF

ITEM #0815001A – BITUMINOUS CONCRETE LIP CURBING

ITEM #0815201A – 4” BITUMINOUS CONCRETE PARK CURBING

Description: Bituminous concrete curbing shall consist of machine laid bituminous concrete, constructed on the pavement to the dimensions and details shown on the plans, or as ordered, and in conformity with the specifications.

Materials: Materials, including tack coat, for this work shall conform to the requirements of Section M.04, curb mix.

Construction Methods: The provisions of Section 4.06 shall govern except that the requirements pertaining to density will not apply. In addition, the curbing shall be constructed in accordance with the following requirements:

Prior to the arrival of the mixture on the Project Site, the surface of the pavement where the curbing is to be constructed be cleaned of all loose and foreign material. The surface, which shall be perfectly dry and clean at the time the mix is placed, shall be coated with an approved tack coat just prior to placing the mixture.

On arrival at the Site, the mixture shall be transferred from the truck to the hopper of the curbing machine; and the mixture shall be kept clean and free from dirt and foreign materials at all times.

The surface of the curbing shall be tested with a 10-ft. straightedge, and any variation from a true line exceeding ¼ inch shall be satisfactorily corrected. The only compaction required shall be that obtained by the approved mechanical curbing machine.

Where machine work is impractical, the Engineer may permit hand-laid curbing to be constructed.

If the design of the curbing machine is such that the outside wheels operate outside of the curb, the Contractor will be required to obtain a smooth surface by grading and consolidating the area on which the outside wheel of the machine rides, and this work shall be done at the Contractor’s expense.

After the completion of curbing, traffic shall be kept at a safe distance for a period of not less than 24 hours and until the curbing has set sufficiently to prevent injury or damage to the work.

Method of Measurement: This work will be measured for payment along the top of the curb and will be the actual number of linear feet of bituminous concrete curbing completed and accepted.

Basis of Payment: This work will be paid for at the Contract unit price per linear foot for “Bituminous Concrete Lip Curbing” or “4” Bituminous Concrete Park Curbing” complete and in place, which price shall include all materials, equipment, tools, and labor incidental thereto.

Pay Item
Bituminous Concrete Lip Curbing
4" Bituminous Concrete Park Curbing

Pay Unit
l.f.
l.f.

ITEM #0921001A – CONCRETE SIDEWALK

ITEM #0921005A – CONCRETE RAMP

Description: add the following:

Also included in this work shall be making all necessary pavement repairs.

Construction Methods: add the following:

The following applies where the entire roadway is not to be resurfaced. The edge of the pavement shall be trimmed to neat straight lines not less than 12” from the face of the curb and shall be painted with hot asphalt cement. The face of the curb below gutter grade shall also be painted with hot asphalt cement. Hot asphalt cement shall be graded by viscosity at 140 F and shall conform to the requirements of AASHTO M226-80 except that AC-20 viscosity grade shall be as follows:

<u>Test</u>	<u>Minimum</u>	<u>Maximum</u>
Viscosity, 140 F, poises	2000	+400
Viscosity, 275 F, Cs.	300	
Penetration, 77 F, 100 g, 5 Sec	60	
Flash Point, COC, F	50	
Solubility in Trichlorethylene, %	99.0	
Tests on Residue - Thin Film Oven Test Loss on Heating, %	00	0.50
Ductility, 66 F, 2 inches/min, cm	30	
Ductility, 77 F, 2 inches/min, cm	50+	
Viscosity, Ratio, ATFO/BTFO	4	

Basis of Payment: supplement as follows:

Payment for this work shall include all materials, equipment, tools, and labor incidental thereto required to repair disturbed pavement areas in front of curb.

<u>Pay Item</u>	<u>Pay Unit</u>
Concrete Sidewalk	SF
Concrete Ramp	SF

ITEM #0950005A – TURF ESTABLISHMENT

Description: The work included in this item shall consist of providing an accepted uniform stand of established perennial turf grasses by furnishing and placing fertilizer, seed, and mulch on all areas to be treated as shown on the plans or where designated by the Engineer.

The work will also include the installation of erosion control matting, as shown on the plans or where designated by the Engineer, consisting of mulch and netting woven together as a unit.

Materials:

- Seed shall meet the requirements of Article M.13.04.
- Fertilizer shall meet the requirements of Article M.13.03.
- Mulch shall meet the requirements of Article M.13.05.
- Erosion control matting, if required, shall be from the Department's Qualified Products List and shall meet the requirements of Article M.13.09.

Construction Methods: Construction Methods shall be those established as agronomically acceptable and feasible and which are approved by the Engineer.

1. Preparation of the Seedbed:

- a. Level areas, medians, interchanges and lawns: These areas shall be made friable and receptive for seeding by disking or by other approved methods to the satisfaction of the Engineer. All disturbed soil areas at final grade shall be seeded within 7 days, or as directed by the Engineer, in accordance with these specifications. In all cases, the final prepared and seeded soil surface shall meet the lines and grades for such surface as shown in the plans, or as directed by the Engineer.
- b. Slope and Embankment Areas: These areas shall be made friable and receptive to seeding by disking or by other approved methods which will not disrupt the line and grade of the slope surface. In no event will seeding be permitted on hard or crusted soil surface.
- c. All areas to be seeded shall be reasonably free from weeds taller than 3 in. Removal of weed growth from the slope areas shall be by approved methods, including hand-mowing, which do not rut or scar the slope surface, or cause excessive disruption of the slope line or grade. Seeding on level areas shall not be permitted until substantially all weed growth is removed. Seeding on slope areas shall not be permitted without removal or cutting of weed growth except by written permission of the Engineer.

2. Seeding Season: The optimal calendar dates for seeding are:

- a. Spring—March 15 to June 3
- b. Fall—August 15 to October 30
- c. All disturbed soil areas at final grade shall be seeded within 7 days, in accordance with these specifications.

- d. Any seeding outside the optimal dates shall be performed in the same manner. Since acceptable turf establishment is less likely, the Contractor shall be responsible for reseeding until the turf stand conforms to Sub-article 9.50.03-5.
3. Seeding Methods: The grass seed mixture shall be applied by any agronomically acceptable procedure. The rate of application shall be no less than 175 lb./ac. Fertilizer shall be initially applied at a rate of 320 lb./ac during or preceding seeding. When wood fiber mulch is used, it shall be applied in a water slurry at a rate of 2,000 lb./ac with or immediately after the application of seed, fertilizer and limestone (if limestone is required). When the grass seeding growth has attained a height of 6 in, the specified areas designated herein shall be mowed to a height of 3 in. Following mowing, all seeding grass areas (mowed and un-mowed) shall receive a uniform application of fertilizer hydraulically placed at the rate of 320 lb./ac.
4. Disturbance: Following seeding, the entire area shall be rolled with a 100 pound manual landscape roller. Otherwise the Contractor shall keep all equipment and vehicular and pedestrian traffic off areas that have been seeded to prevent excessive compaction and damage to young plants. Where any disturbance has occurred, the Contractor shall rework the soil to make a suitable seedbed, then re-seed and mulch such areas with the full amounts of the specified materials, at no additional cost to the State.
5. Stand of Perennial Turf Grasses: The Contractor shall provide and maintain a uniform stand of established turf grass species having attained a height of 6 in consisting of no less than 100 plants per square foot throughout the seeded areas until the entire Project has been accepted. Reseeding required to achieve and maintain a uniform stand of established turf grass species shall be at no additional cost to the State.
6. Establishment: The Contractor shall keep all seeded areas free from weeds and debris, such as stones, cables, baling wire, and shall mow at its own expense, on a 1- time- only basis, all slopes 4:1 or less (flatter) and level turf established (seeded) areas to a height of 3 in when the grass growth attains a height of 6 in. Clean-up shall include, but not be limited to, the removal of all debris from the turf establishment operations on the shoulders, pavement or elsewhere on adjacent properties publicly and privately owned.
7. Erosion Control Matting: Erosion control matting shall be installed following seeding where called for on the plans or as directed by the Engineer. Staples shall be installed as per manufacturer's recommendations. Where 2 lengths of matting are joined, the end of the up-grade strip shall overlap the down-grade strip per the manufacturer's recommendations.
 - a. The Contractor shall maintain and protect the areas with erosion control matting until such time as the turf grass is established. The Contractor shall replace or repair at its own expense any and all erosion control matting areas damaged by fire, water or other causes including the operation of construction equipment. No mowing will be required in the locations where erosion control matting is installed.

Seed Mixture: The grass seed mixture shall conform to the following:

Metro Select Seed Mix

Pure Seed:

50% Turf type Perennial Ryegrass

20% Shamrock Kentucky Bluegrass

15% Foxfire Creeping Red Fescue

15% Brittany or Shadow II Chewings Fescue

Under no circumstances should annual Ryegrass, Italian Rye or any other seed be added to the seed mixture.

Method of Measurement: This work will be measured for payment by the number of square yards of surface area of accepted established perennial turf grass as specified or by the number of square yards surface area of seeding actually covered and as specified.

Erosion control matting will be measured by the number of square yards of surface area of erosion control matting installed and accepted.

Basis of Payment: This work will be paid for at the Contract unit price per square yard for “Turf Establishment” which price shall include all materials, mowing, maintenance, equipment, tools, labor, and work incidental thereto. Partial payment of up to 60% may be made for work completed, but not accepted. Erosion control matting will be paid for at the Contract unit price per square yard for “Erosion Control Matting” complete in place and accepted, which price shall include the hay mulch, netting, staples, maintenance, equipment, tools, labor, and work incidental thereto.

Pay Item

Turf Establishment

Pay Unit

s.y.

ITEM #0970007A - TRAFFICPERSON (UNIFORMED FLAGGER)

Delete SECTION 9.70 TRAFFICPERSON in its entirety and replace with the following:

9.70.01—Description: Under this item the Contractor shall provide the services of Trafficpersons of the type and number, and for such periods, as the Engineer approves for the control and direction of vehicular traffic and pedestrians. Traffic persons requested solely for the contractor's operational needs will not be approved for payment.

9.70.03—Construction Methods: Prior to the start of operations on the project requiring the use of Trafficpersons, a meeting will be held with the Contractor, Trafficperson agency or firm, Engineer, and State Police, if applicable, to review the Trafficperson operations, lines of responsibility, and operating guidelines which will be used on the project. A copy of the municipality's billing rates for Municipal Police Officers and vehicles, if applicable, will be provided to the Engineer prior to start of work.

On a weekly basis, the Contractor shall inform the Engineer of their scheduled operations for the following week and the number of Trafficpersons requested. The Engineer shall review this schedule and approve the type and number of Trafficpersons required. In the event of an unplanned, emergency, or short term operation, the Engineer may approve the temporary use of properly clothed persons for traffic control until such time as an authorized Trafficperson may be obtained. In no case shall this temporary use exceed 8 hours for any particular operation.

If the Contractor changes or cancels any scheduled operations without prior notice of same as required by the agency providing the Trafficpersons, and such that Trafficperson services are no longer required, the Contractor will be responsible for payment at no cost to the Department of any show-up cost for any Trafficperson not used because of the change. Exceptions, as approved by the Engineer, may be granted for adverse weather conditions and unforeseeable causes beyond the control and without the fault or negligence of the Contractor.

Trafficpersons assigned to a work site are to only take direction from the Engineer.

Trafficpersons shall wear a high visibility safety garment that complies with OSHA, MUTCD, ASTM Standards and the safety garment shall have the words "Traffic Control" clearly visible on the front and rear panels (minimum letter size 2 inches (50 millimeters)). Worn/faded safety garments that are no longer highly visible shall not be used. The Engineer shall direct the replacement of any worn/faded garment at no cost to the State.

A Trafficperson shall assist in implementing the traffic control specified in the Maintenance and Protection of Traffic contained elsewhere in these specifications or as directed by the Engineer. Any situation requiring a Trafficperson to operate in a manner contrary to the Maintenance and Protection of Traffic specification shall be authorized in writing by the Engineer.

Trafficpersons shall consist of the following types:

1. Uniformed Law Enforcement Personnel: Law enforcement personnel shall wear the high visibility safety garment provided by their law enforcement agency. If no high visibility safety garment is provided, the Contractor shall provide the law enforcement personnel with a garment meeting the requirements stated for the Uniformed Flaggers' garment.

Law Enforcement Personnel may be also be used to conduct motor vehicle enforcement operations in and around work areas as directed and approved by the Engineer.

Municipal Police Officers: Uniformed Municipal Police Officers shall be sworn Municipal Police Officers or Uniformed Constables who perform criminal law enforcement duties from the Municipality in which the project is located. Their services will also include an official Municipal Police vehicle when requested by the Engineer. Uniformed Municipal Police Officers will be used on non-limited access highways. If Uniformed Municipal Police Officers are unavailable, other Trafficpersons may be used when authorized in writing by the Engineer. Uniformed Municipal Police Officers and requested Municipal Police vehicles will be used at such locations and for such periods as the Engineer deems necessary to control traffic operations and promote increased safety to motorists through the construction sites.

2. Uniformed Flagger: Uniformed Flaggers shall be persons who have successfully completed flagger training by the American Traffic Safety Services Association (ATSSA), National Safety Council (NSC) or other programs approved by the Engineer. A copy of the Flagger's training certificate shall be provided to the Engineer before the Flagger performs any work on the project. Uniformed Flaggers shall conform to Chapter 6E, Flagger Control, in the Manual of Uniformed Traffic Control Devices (MUTCD) and shall wear high-visibility safety apparel, use a STOP/SLOW paddle that is at least 18 inches (450 millimeters) in width with letters at least 6 inches (150 millimeters) high. The paddle shall be mounted on a pole of sufficient length to be 6 feet (1.8 meters) above the ground as measured from the bottom of the sign.

Uniformed Flaggers will only be used on non-limited access highways to control traffic operations when authorized in writing by the Engineer.

9.70.04—Method of Measurement: Services of Trafficpersons will be measured for payment by the actual number of hours for each person rendering services approved by the Engineer. These services shall include, however, only such trafficpersons as are employed within the limits of construction, project right of way of the project or along detours authorized by the Engineer to assist the motoring public through the construction work zone. Services for continued use of a detour or bypass beyond the limitations approved by the Engineer, for movement of construction vehicles and equipment, or at locations where traffic is unnecessarily restricted by the Contractor's method of operation, will not be measured for payment.

Trafficpersons shall not work more than twelve hours in any one 24 hour period. In case such services are required for more than twelve hours, additional Trafficpersons shall be furnished and measured for payment. In cases where the Trafficperson is an employee on the Contractor's

payroll, payment under the item “Trafficperson (Uniformed Flagger)” will be made only for those hours when the Contractor’s employee is performing Trafficperson services.

Travel time will not be measured for payment for services provided by Uniformed Municipal Police Officers or Uniformed Flaggers.

Mileage fees associated with Trafficperson services will not be measured for payment.

Safety garments and STOP/SLOW paddles will not be measured for payment.

9.70.05—Basis of Payment: Trafficpersons will be paid in accordance with the schedule described herein.

There will be no direct payment for safety garments or STOP/SLOW paddles. All costs associated with furnishing safety garments and STOP/SLOW paddles shall be considered included in the general cost of the item.

1. Uniformed Law Enforcement Personnel: The sum of money shown on the Estimate and in the itemized proposal as "Estimated Cost" for this work will be considered the bid price even though payment will be made as described below. The estimated cost figure is not to be altered in any manner by the bidder. Should the bidder alter the amount shown, the altered figures will be disregarded and the original price will be used to determine the total amount for the contract.

The Department will pay the Contractor its actual costs for “Trafficperson (Municipal Police Officer)” plus an additional 5% as reimbursement for the Contractor’s administrative expense in connection with the services provided. The 5% markup will be paid when the Engineer receives cancelled check(s) or receipted invoice(s) as proof of payment from the Contractor.

The invoice must include a breakdown of each officer’s actual hours of work and actual rate applied. Mileage fees associated with Trafficperson services are not reimbursable expenses and are not to be included in the billing invoice. The use of a municipal police vehicle authorized by the Engineer will be paid at the actual rate charged by the municipality. Upon receipt of the invoice from the municipality, the Contractor shall forward a copy to the Engineer. The invoice will be reviewed and approved by the Engineer prior to any payments. The rate charged by the municipality for use of a uniformed municipal police officer and/or a municipal police vehicle shall not be greater than the rate it normally charges others for similar services.

2. Uniformed Flagger: Uniformed flaggers will be paid for at the contract unit price per hour for “Trafficperson (Uniformed Flagger)”, which price shall include all compensation, insurance benefits and any other cost or liability incidental to the furnishing of the trafficpersons ordered.

Pay Item	Pay Unit
Trafficperson (Uniformed Flagger)	Hr.

ITEM #0971001A – MAINTENANCE AND PROTECTION OF TRAFFIC

Article 9.71.01 – Description is supplemented by the following:

The Contractor shall maintain traffic and protect traffic as follows and as limited in the Special Provision “Prosecution and Progress”.

All Project Roadways

The Contractor shall maintain and protect a minimum of one lane of traffic in each direction, each lane on a paved travel path not less than 11 feet in width unless shown as less on the plans or as approved by the Engineer.

Excepted therefrom will be those periods, during the allowable periods, when the Contractor is actively working, at which time the Contractor shall maintain and protect at least an alternating one-way traffic operation, on a paved travel path not less than 11 feet in width unless shown as less on the plans or as approved by the Engineer. The length of the alternating one-way traffic operation shall not exceed 300 feet and there shall be no more than one alternating one-way traffic operation within the project limits without prior approval of the Engineer.

Commercial and Residential Driveways

The Contractor shall maintain access to and egress from all commercial and residential driveways throughout the project limits. The Contractor will be allowed to close said driveways to perform the required work during those periods when the businesses are closed, unless permission is granted from the business owner to close the driveway during business hours. If a temporary closure of a residential driveway is necessary, the Contractor shall coordinate with the owner to determine the time period of the closure.

ALL ROADS

During AM Peak travel periods (7AM to 9AM) and PM Peak travel periods (4PM to 6PM) the contractor shall maintain two way traffic at all times unless approved by the Engineer. During other time periods the contractor shall maintain one lane alternating traffic utilizing flagmen. Traffic shall be maintained in accordance with the Traffic Control Plans and details.

SIGNING

The Contractor shall maintain all signs and traffic control devices throughout the project limits and for the duration of the project and shall temporarily relocate any signs and posts as many times as deemed necessary and as directed by the Engineer. The Contractor shall re-install the signs and posts in their original locations or as directed by the Engineer. This work shall be paid for under the item “Maintenance and Protection of Traffic”.

Pavement Markings -Non-Limited Access Multilane Roadways, Secondary and Local Roadways

During construction, the Contractor shall maintain all pavement markings on paved surfaces on all roadways throughout the limits of the project.

Interim Pavement Markings

The Contractor shall install painted pavement markings, which shall include centerlines, shoulder edge lines, lane lines (broken lines), lane-use arrows, and stop bars, on each intermediate course of bituminous concrete pavement and on any milled surface by the end of the work day/night. If the next course of bituminous concrete pavement will be placed within seven days, shoulder edge lines are not required. The painted pavement markings will be paid under the appropriate items.

If the Contractor will install another course of bituminous concrete pavement within 24 hours, the Contractor may install Temporary Plastic Pavement Marking Tape in place of the painted pavement markings by the end of the work day/night. These temporary pavement markings shall include centerlines, lane lines (broken lines) and stop bars; shoulder edge lines are not required. Centerlines shall consist of two 4 inch wide yellow markings, 2 feet in length, side by side, 4 to 6 inches apart, at 40-foot intervals. No passing zones should be posted with signs in those areas where the final centerlines have not been established on two-way roadways. Stop bars may consist of two 6 inch wide white markings or three 4 inch wide white markings placed side by side. The Contractor shall remove and dispose of the Temporary Plastic Pavement Marking Tape when another course of bituminous concrete pavement is installed. The cost of furnishing, installing and removing the Temporary Plastic Pavement Marking Tape shall be at the Contractor's expense.

If an intermediate course of bituminous concrete pavement will be exposed throughout the winter, then Epoxy Resin Pavement Markings should be installed unless directed otherwise by the Engineer.

Final Pavement Markings

The Contractor should install epoxy resin pavement markings on the final course of bituminous concrete pavement by the end of the work day/night. If the epoxy resin pavement markings are not installed by the end of the work day/night, then Temporary Plastic Pavement Marking Tape shall be installed as described above and the epoxy resin pavement markings shall be installed by the end of the work day/night on Friday of that week.

If Temporary Plastic Pavement Marking Tape is installed, the Contractor shall remove and dispose of these markings when the epoxy resin pavement markings are installed. The cost of furnishing, installing and removing the Temporary Plastic Pavement Marking Tape shall be at the Contractor's expense.

The Contractor shall install permanent Epoxy Resin Pavement Markings in accordance with Section 12.10 entitled "Epoxy Resin Pavement Markings, Symbols, and Legends" after such time as determined by the Engineer.

TRAFFIC CONTROL DURING CONSTRUCTION OPERATIONS

The following guidelines shall assist field personnel in determining when and what type of traffic control patterns to use for various situations. These guidelines shall provide for the safe and efficient movement of traffic through work zones and enhance the safety of work forces in the work area.

TRAFFIC CONTROL PATTERNS

Traffic control patterns shall be used when a work operation requires that all or part of any vehicle or work area protrudes onto any part of a travel lane or shoulder. For each situation, the installation of traffic control devices shall be based on the following:

- Speed and volume of traffic
- Duration of operation
- Exposure to hazards

Traffic control patterns shall be uniform, neat and orderly so as to command respect from the motorist.

In the case of a horizontal or vertical sight restriction in advance of the work area, the traffic control pattern shall be extended to provide adequate sight distance for approaching traffic.

If a lane reduction taper is required to shift traffic, the entire length of the taper should be installed on a tangent section of roadway so that the entire taper area can be seen by the motorist.

Any existing signs that are in conflict with the traffic control patterns shall be removed, covered, or turned so that they are not readable by oncoming traffic.

When installing a traffic control pattern, a Buffer Area should be provided and this area shall be free of equipment, workers, materials and parked vehicles.

Typical traffic control plans 19 through 25 may be used for moving operations such as line striping, pot hole patching, mowing, or sweeping when it is necessary for equipment to occupy a travel lane.

Traffic control patterns will not be required when vehicles are on an emergency patrol type activity or when a short duration stop is made and the equipment can be contained within the shoulder. Flashing lights and appropriate trafficperson shall be used when required.

Although each situation must be dealt with individually, conformity with the typical traffic control plans contained herein is required. In a situation not adequately covered by the typical traffic control plans, the Contractor must contact the Engineer for assistance prior to setting up a traffic control pattern.

PLACEMENT OF SIGNS

Signs must be placed in such a position to allow motorists the opportunity to reduce their speed prior to the work area. Signs shall be installed on the same side of the roadway as the work area. On multi-lane divided highways, advance warning signs shall be installed on both sides of the highway. On directional roadways (on-ramps, off-ramps, one-way roads), where the sight distance to signs is restricted, these signs should be installed on both sides of the roadway.

ALLOWABLE ADJUSTMENT OF SIGNS AND DEVICES SHOWN ON THE TRAFFIC CONTROL PLANS

The traffic control plans contained herein show the location and spacing of signs and devices under ideal conditions. Signs and devices should be installed as shown on these plans whenever possible.

The proper application of the traffic control plans and installation of traffic control devices depends on actual field conditions.

Adjustments to the traffic control plans shall be made only at the direction of the Engineer to improve the visibility of the signs and devices and to better control traffic operations. Adjustments to the traffic control plans shall be based on safety of work forces and motorists, abutting property requirements, driveways, side roads, and the vertical and horizontal curvature of the roadway.

The Engineer may require that the traffic control pattern be located significantly in advance of the work area to provide better sight line to the signing and safer traffic operations through the work zone.

Table I indicates the minimum taper length required for a lane closure based on the posted speed limit of the roadway. These taper lengths shall only be used when the recommended taper lengths shown on the traffic control plans cannot be achieved.

TABLE I – MINIMUM TAPER LENGTHS

POSTED SPEED LIMIT MILES PER HOUR	MINIMUM TAPER LENGTH IN FEET FOR A SINGLE LANE CLOSURE
30 OR LESS	180
35	250
40	320
45	540
50	600
55	660
65	780

SECTION 1. WORK ZONE SAFETY MEETINGS

- 1.a) Prior to the commencement of work, a work zone safety meeting will be conducted with representatives of the Town Engineer, Municipal Police, the Contractor (Project Superintendent) and the Traffic Control Subcontractor (if different than the prime Contractor) to review the traffic operations, lines of responsibility, and operating guidelines which will be used on the project. Other work zone safety meetings during the course of the project should be scheduled as needed.
- 1.b) A Work Zone Safety Meeting Agenda shall be developed and used at the meeting to outline the anticipated traffic control issues during the construction of this project. The agenda should include:
 - Review Project scope of work and time
 - Review Section 1.08, Prosecution and Progress
 - Review Section 9.70, Trafficpersons
 - Review Section 9.71, Maintenance and Protection of Traffic
 - Review Contractor's schedule and method of operations.
 - Review areas of special concern: ramps, turning roadways, medians, lane drops, etc.
 - Open discussion of work zone questions and issues
 - Discussion of review and approval process for changes in contract requirements as they relate to work zone areas

SECTION 2. GENERAL

- 2.a) If the required minimum number of signs and equipment (i.e. one High Mounted Internally Illuminated Flashing Arrow for each lane closed, two TMAs, Changeable Message Sign, etc.) are not available; the traffic control pattern shall not be installed.
- 2.b) The Contractor shall have back-up equipment (TMAs, High Mounted Internally Illuminated Flashing Arrow, Changeable Message Sign, construction signs, cones/drums, etc.) available at all times in case of mechanical failures, etc. The only exception to this is in the case of sudden equipment breakdowns in which the pattern may be installed but the Contractor must provide replacement equipment within 24 hours.
- 2.c) Failure of the Contractor to have the required minimum number of signs, personnel and equipment, which results in the pattern not being installed, shall not be a reason for a time extension or claim for loss time.
- 2.d) In cases of legitimate differences of opinion between the Contractor and the Inspection staff, the Inspection staff shall err on the side of safety. The matter shall be brought to the District Office for resolution immediately or, in the case of work after regular business hours, on the next business day.

SECTION 3. INSTALLING AND REMOVING TRAFFIC CONTROL PATTERNS

- 3.a) Lane Closures shall be installed beginning with the advanced warning signs and proceeding forward toward the work area.
- 3.b) Lane Closures shall be removed in the reverse order, beginning at the work area, or end of the traffic control pattern, and proceeding back toward the advanced warning signs.
- 3.c) Stopping traffic may be allowed:
- As per the contract for such activities as blasting, steel erection, etc.
 - During paving, milling operations, etc. where, in the middle of the operation, it is necessary to flip the pattern to complete the operation on the other half of the roadway and traffic should not travel across the longitudinal joint or difference in roadway elevation.
 - To move slow moving equipment across live traffic lanes into the work area.
- 3.d) Under certain situations when the safety of the traveling public and/or that of the workers may be compromised due to conditions such as traffic volume, speed, roadside obstructions, or sight line deficiencies, as determined by the Engineer and/or State Police, traffic may be briefly impeded while installing and/or removing the advanced warning signs and the first ten traffic cones/drums only. Appropriate measures shall be taken to safely slow traffic. If required, traffic slowing techniques may be used and shall include the use of Truck Mounted Impact Attenuators (TMAs) as appropriate, for a minimum of one mile in advance of the pattern starting point. Once the advanced warning signs and the first ten traffic cones/drums are installed/removed, the TMAs and sign crew shall continue to install/remove the pattern as described in Section 4c and traffic shall be allowed to resume their normal travel.
- 3.e) The Contractor must adhere to using the proper signs, placing the signs correctly, and ensuring the proper spacing of signs.
- 3.f) Additional devices are required on entrance ramps, exit ramps, and intersecting roads to warn and/or move traffic into the proper travel path prior to merging/exiting with/from the main line traffic. This shall be completed before installing the mainline pattern past the ramp or intersecting roadway.
- 3.g) Prior to installing a pattern, any conflicting existing signs shall be covered with an opaque material. Once the pattern is removed, the existing signs shall be uncovered.
- 3.h) On limited access roadways, workers are prohibited from crossing the travel lanes to install and remove signs or other devices on the opposite side of the roadway. Any signs or devices on the opposite side of the roadway shall be installed and removed separately.

SECTION 4. USE OF HIGH MOUNTED INTERNALLY ILLUMINATED FLASHING ARROW

- 4.a) On limited access roadways, one Flashing Arrow shall be used for each lane that is closed. The Flashing Arrow shall be installed concurrently with the installation of the traffic control pattern and its placement shall be as shown on the traffic control plan. For multiple lane closures, one Flashing Arrow is required for each lane closed. If conditions warrant, additional Flashing Arrows should be employed (i.e.: curves, major ramps, etc.).
- 4.b) On non-limited access roadways, the use of a Flashing Arrow for lane closures is optional. The roadway geometry, sight line distance, and traffic volume should be considered in the decision to use the Flashing Arrow.
- 4.c) The Flashing Arrow shall not be used on two lane, two-way roadways for temporary alternating one-way traffic operations.
- 4.d) The Flashing Arrow board display shall be in the “arrow” mode for lane closure tapers and in the “caution” mode (four corners) for shoulder work, blocking the shoulder, or roadside work near the shoulder. The Flashing Arrow shall be in the “caution” mode when it is positioned in the closed lane.
- 4.e) The Flashing Arrow shall not be used on a multi-lane roadway to laterally shift all lanes of traffic, because unnecessary lane changing may result.

SECTION 5. USE OF TRUCK MOUNTED IMPACT ATTENUATOR VEHICLES (TMAs)

- 5.a) For lane closures on limited access roadways, a minimum of two TMAs shall be used to install and remove traffic control patterns. If two TMAs are not available, the pattern shall not be installed.
- 5.b) On non-limited access roadways, the use of TMAs to install and remove patterns closing a lane(s) is optional. The roadway geometry, sight line distance, and traffic volume should be considered in the decision to utilize the TMAs.
- 5.c) Generally, to establish the advance and transition signing, one TMA shall be placed on the shoulder and the second TMA shall be approximately 1,000 feet ahead blocking the lane. The flashing arrow board mounted on the TMA should be in the “flashing arrow” mode when taking the lane. The sign truck and workers should be immediately ahead of the second TMA. In no case shall the TMA be used as the sign truck or a work truck. Once the transition is in place, the TMAs shall travel in the closed lane until all Changeable Message Signs, signs, Flashing Arrows, and cones/drums are installed. The flashing arrow board mounted on the TMA should be in the “caution” mode when traveling in the closed lane.
- 5.d) A TMA shall be placed prior to the first work area in the pattern. If there are multiple work areas within the same pattern, then additional TMAs shall be positioned at each additional work area as needed. The flashing arrow board mounted on the TMA should be in the “caution” mode when in the closed lane.

- 5.e) TMAs shall be positioned a sufficient distance prior to the workers or equipment being protected to allow for appropriate vehicle roll-ahead in the event that the TMA is hit, but not so far that an errant vehicle could travel around the TMA and into the work area. For additional placement and use details, refer to the specification entitled “Type ‘D’ Portable Impact Attenuation System”. Some operations, such as paving and concrete repairs, do not allow for placement of the TMA(s) within the specified distances. In these situations, the TMA(s) should be placed at the beginning of the work area and shall be advanced as the paving or concrete operations proceed.
- 5.f) TMAs should be paid in accordance with how the unit is utilized. When it is used as a TMA and is in the proper location as specified, and then it should be paid at the specified hourly rate for “Type ‘D’ Portable Impact Attenuation System”. When the TMA is used as a Flashing Arrow, it should be paid at the daily rate for “High Mounted Internally Illuminated Flashing Arrow”. If a TMA is used to install and remove a pattern and then is used as a Flashing Arrow, the unit should be paid as a “Type ‘D’ Portable Impact Attenuation System” for the hours used to install and remove the pattern, typically 2 hours (1 hour to install and 1 hour to remove), and is also paid for the day as a “High Mounted Internally Illuminated Flashing Arrow”.

SECTION 6. USE OF TRAFFIC DRUMS AND TRAFFIC CONES

- 6.a) Traffic drums shall be used for taper channelization on limited-access roadways, ramps, and turning roadways and to delineate raised catch basins and other hazards.
- 6.b) Traffic drums shall be used in place of traffic cones in traffic control patterns that are in effect for more than a 36-hour duration.
- 6.c) Traffic Cones less than 42 inches in height shall not be used on limited-access roadways or on non-limited access roadways with a posted speed limit of 45 mph and above.
- 6.d) Typical spacing of traffic drums and/or cones shown on the Traffic Control Plans in the Contract are maximum spacings and may be reduced to meet actual field conditions as required.

SECTION 7. USE OF (REMOTE CONTROLLED) CHANGEABLE MESSAGE SIGNS (CMS)

- 7.a) For lane closures on limited access roadways, one CMS shall be used in advance of the traffic control pattern. Prior to installing the pattern, the CMS shall be installed and in operation, displaying the appropriate lane closure information (i.e.: Left Lane Closed - Merge Right). The CMS shall be positioned ½ - 1 mile ahead of the lane closure taper. If the nearest Exit ramp is greater than the specified ½ - 1 mile distance, than an additional CMS shall be positioned a sufficient distance ahead of the Exit ramp to alert motorists to the work and therefore offer them an opportunity to take the exit.
- 7.b) CMS should not be installed within 1000 feet of an existing CMS.

- 7.c) On non-limited access roadways, the use of CMS for lane closures is optional. The roadway geometry, sight line distance, and traffic volume should be considered in the decision to use the CMS.
- 7.d) The advance CMS is typically placed off the right shoulder, 5 feet from the edge of pavement. In areas where the CMS cannot be placed beyond the edge of pavement, it may be placed on the paved shoulder with a minimum of five (5) traffic drums placed in a taper in front of it to delineate its position. The advance CMS shall be adequately protected if it is used for a continuous duration of 36 hours or more.
- 7.e) When the CMS are no longer required, they should be removed from the clear zone and have the display screen cleared and turned 90° away from the roadway.
- 7.f) The CMS generally should not be used for generic messages (ex: Road Work Ahead, Bump Ahead, Gravel Road, etc.).
- 7.g) The CMS should be used for specific situations that need to command the motorist's attention which cannot be conveyed with standard construction signs (Examples include: Exit 34 Closed Sat/Sun - Use Exit 35, All Lanes Closed - Use Shoulder, Workers on Road - Slow Down).
- 7.h) Messages that need to be displayed for long periods of time, such as during stage construction, should be displayed with construction signs. For special signs, please coordinate with the Office of Construction and the Division of Traffic Engineering for the proper layout/dimensions required.

7.i) The messages that are allowed on the CMS are as follows:

<u>Message No.</u>	<u>Frame 1</u>	<u>Frame 2</u>	<u>Message No.</u>	<u>Frame 1</u>	<u>Frame 2</u>
1	LEFT LANE CLOSED	MERGE RIGHT	9	LANES CLOSED AHEAD	REDUCE SPEED
2	2 LEFT LANES CLOSED	MERGE RIGHT	10	LANES CLOSED AHEAD	USE CAUTION
3	LEFT LANE CLOSED	REDUCE SPEED	11	WORKERS ON ROAD	REDUCE SPEED
4	2 LEFT LANES CLOSED	REDUCE SPEED	12	WORKERS ON ROAD	SLOW DOWN
5	RIGHT LANE CLOSED	MERGE LEFT	13	EXIT XX CLOSED	USE EXIT YY
6	2 RIGHT LANES CLOSED	MERGE LEFT	14	EXIT XX CLOSED USE YY	FOLLOW DETOUR
7	RIGHT LANE CLOSED	REDUCE SPEED	15	2 LANES SHIFT AHEAD	USE CAUTION
8	2 RIGHT LANES CLOSED	REDUCE SPEED	16	3 LANES SHIFT AHEAD	USE CAUTION

For any other message(s), approval must be received from the Office of Construction prior to their use. No more than two (2) displays shall be used within any message cycle.

SECTION 6. WORK ZONE SIGNS AND TRAFFIC CONTROL PLANS

NOTES FOR TRAFFIC CONTROL PLANS

1. IF A TRAFFIC STOPPAGE OCCURS IN ADVANCE OF SIGN (A), THEN AN ADDITIONAL SIGN (A) SHALL BE INSTALLED IN ADVANCE OF THE STOPPAGE.
2. SIGNS (AA), (A), AND (D) SHOULD BE OMITTED WHEN THESE SIGNS HAVE ALREADY BEEN INSTALLED TO DESIGNATE A LARGER WORK ZONE THAN THE WORK ZONE THAT IS ENCOMPASSED ON THIS PLAN.
3. SEE TABLE 1 FOR ADJUSTMENT OF TAPERS IF NECESSARY.
4. IF THIS PLAN REMAINS IN CONTINUOUS OPERATION FOR MORE THAN 36 HOURS, THEN TRAFFIC DRUMS SHALL BE USED IN PLACE OF TRAFFIC CONES.
5. ANY LEGAL SPEED LIMIT SIGNS WITHIN THE LIMITS OF A ROADWAY / LANE CLOSURE AREA SHALL BE COVERED WITH AN OPAQUE MATERIAL WHILE THE CLOSURE IS IN EFFECT, AND UNCOVERED WHEN THE ROADWAY / LANE CLOSURE IS RE-OPENED TO ALL LANES OF TRAFFIC.
6. IF THIS PLAN REMAINS IN CONTINUOUS OPERATION FOR MORE THAN 36 HOURS, THEN ANY EXISTING CONFLICTING PAVEMENT MARKINGS SHALL BE ERADICATED OR COVERED, AND TEMPORARY PAVEMENT MARKINGS THAT DELINEATE THE PROPER TRAVELPATHS SHALL BE INSTALLED.
7. DISTANCES BETWEEN SIGNS IN THE ADVANCE WARNING AREA MAY BE REDUCED TO 100' ON LOW-SPEED URBAN ROADS (SPEED LIMIT < 40 MPH).
8. IF THIS PLAN IS TO REMAIN IN OPERATION DURING THE HOURS OF DARKNESS, INSTALL BARRICADE WARNING LIGHTS - HIGH INTENSITY ON ALL POST-MOUNTED DIAMOND SIGNS IN THE ADVANCE WARNING AREA.
9. A CHANGEABLE MESSAGE SIGN SHALL BE INSTALLED ONE HALF TO ONE MILE IN ADVANCE OF THE LANE CLOSURE TAPER.
- 10 SIGN (P) SHALL BE MOUNTED A MINIMUM OF 7 FEET FROM THE PAVEMENT SURFACE TO THE BOTTOM OF THE SIGN.

TABLE 1 - MINIMUM TAPER LENGTHS

POSTED SPEED LIMIT (MILES PER HOUR)	MINIMUM TAPER LENGTH FOR A SINGLE LANE CLOSURE
30 OR LESS	180' (55m)
35	250' (75m)
40	320' (100m)
45	540' (165m)
50	600' (180m)
55	660' (200m)
65	780' (240m)

METRIC CONVERSION CHART (1" = 25mm)

ENGLISH	METRIC	ENGLISH	METRIC	ENGLISH	METRIC
12"	300mm	42"	1050mm	72"	1800mm
18"	450mm	48"	1200mm	78"	1950mm
24"	600mm	54"	1350mm	84"	2100mm
30"	750mm	60"	1500mm	90"	2250mm
36"	900mm	66"	1650mm	96"	2400mm



SCALE: NONE

CONSTRUCTION TRAFFIC CONTROL PLAN

NOTES

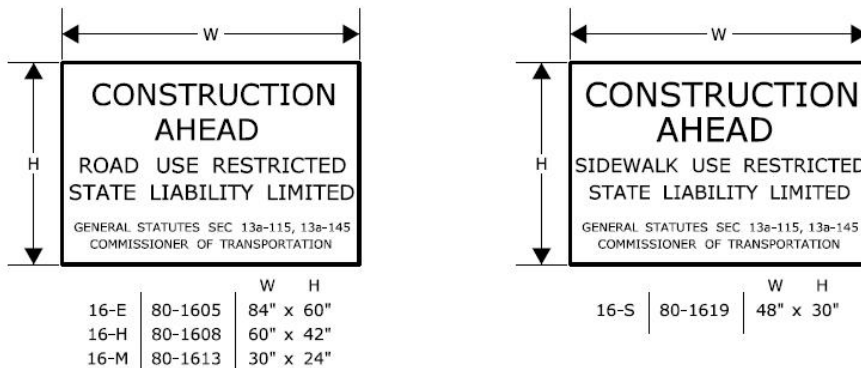
CONNECTICUT DEPARTMENT OF TRANSPORTATION
BUREAU OF ENGINEERING & CONSTRUCTION

APPROVED

Charles S. Harlow
PRINCIPAL ENGINEER

Charles S. Harlow
2012.06.05 15:50:35-0400

SERIES 16 SIGNS



THE 16-S SIGN SHALL BE USED ON ALL PROJECTS THAT REQUIRE SIDEWALK RECONSTRUCTION OR RESTRICT PEDESTRIAN TRAVEL ON AN EXISTING SIDEWALK.

SERIES 16 SIGNS SHALL BE INSTALLED IN ADVANCE OF THE TRAFFIC CONTROL PATTERNS TO ALLOW MOTORISTS THE OPPORTUNITY TO AVOID A WORK ZONE. SERIES 16 SIGNS SHALL BE INSTALLED ON ANY MAJOR INTERSECTING ROADWAYS THAT APPROACH THE WORK ZONE. ON LIMITED-ACCESS HIGHWAYS, THESE SIGNS SHALL BE LOCATED IN ADVANCE OF THE NEAREST UPSTREAM EXIT RAMP AND ON ANY ENTRANCE RAMP PRIOR TO OR WITHIN THE WORK ZONE LIMITS.

THE LOCATION OF SERIES 16 SIGNS CAN BE FOUND ELSEWHERE IN THE PLANS OR INSTALLED AS DIRECTED BY THE ENGINEER.

SIGNS 16-E AND 16-H SHALL BE POST-MOUNTED.

SIGN 16-E SHALL BE USED ON ALL EXPRESSWAYS.

SIGN 16-H SHALL BE USED ON ALL RAMP, OTHER STATE ROADWAYS, AND MAJOR TOWN/CITY ROADWAYS.

SIGN 16-M SHALL BE USED ON OTHER TOWN ROADWAYS.

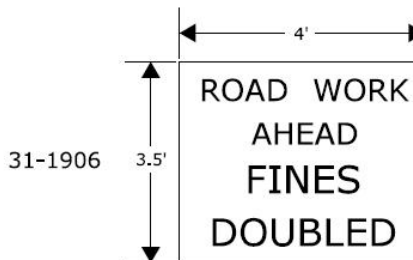
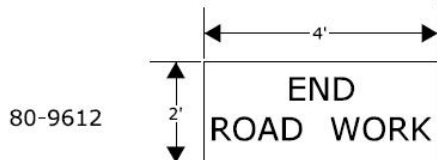
REGULATORY SIGN "ROAD WORK AHEAD, FINES DOUBLED"

THE REGULATORY SIGN "ROAD WORK AHEAD FINES DOUBLED" SHALL BE INSTALLED FOR ALL WORK ZONES THAT OCCUR ON ANY STATE HIGHWAY IN CONNECTICUT WHERE THERE ARE WORKERS ON THE HIGHWAY OR WHEN THERE IS OTHER THAN EXISTING TRAFFIC OPERATIONS.

THE "ROAD WORK AHEAD FINES DOUBLED" REGULATORY SIGN SHALL BE PLACED AFTER THE SERIES 16 SIGN AND IN ADVANCE OF THE "ROAD WORK AHEAD" SIGN.

"END ROAD WORK" SIGN

THE LAST SIGN IN THE PATTERN MUST BE THE "END ROAD WORK" SIGN.



SCALE: NONE

CONSTRUCTION TRAFFIC CONTROL PLAN
REQUIRED SIGNS

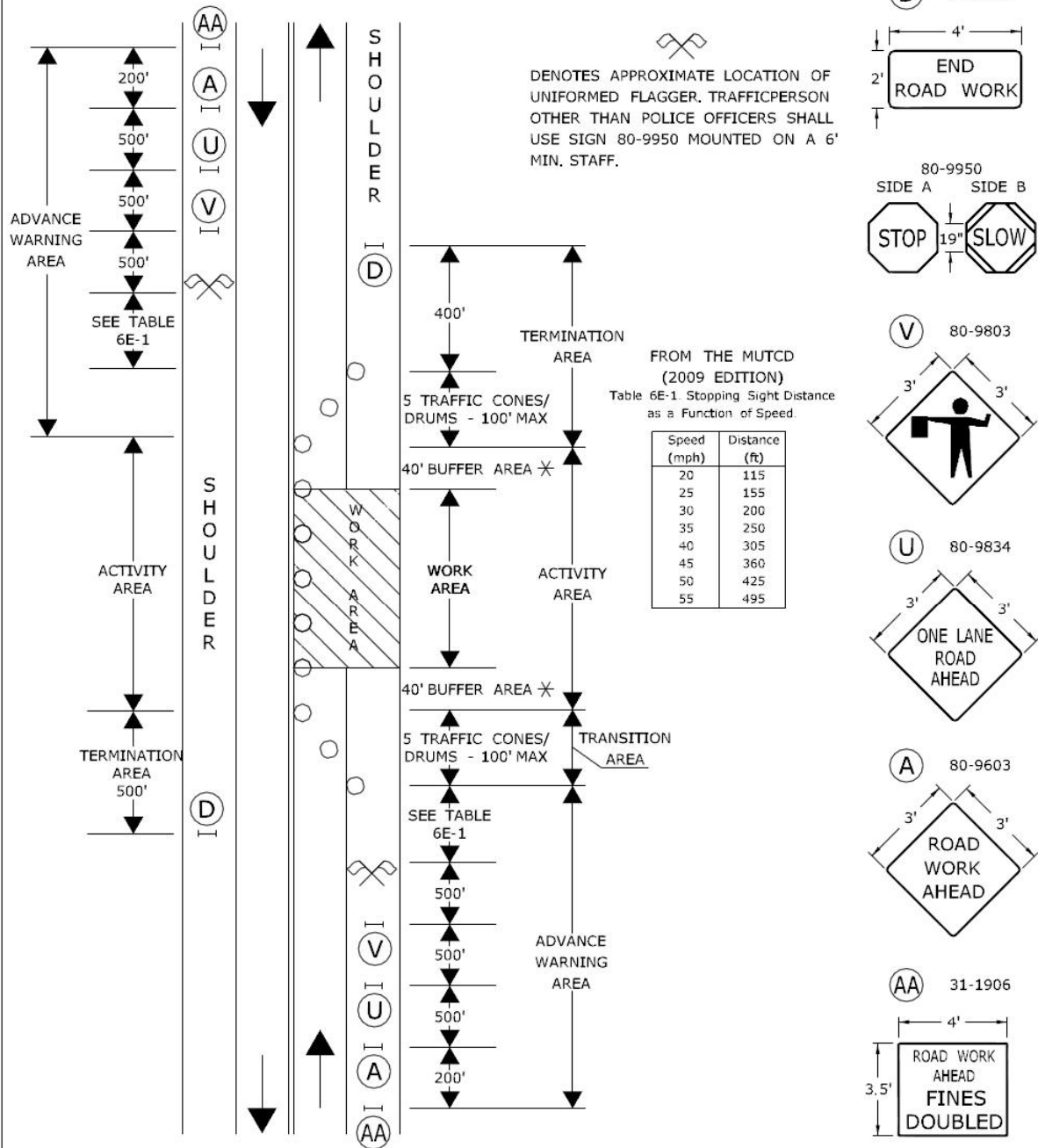
CONNECTICUT DEPARTMENT OF TRANSPORTATION
BUREAU OF ENGINEERING & CONSTRUCTION

APPROVED

Charles S. Harlow
Charles S. Harlow
2012.06.05 11:35:43-04'00'
PRINCIPAL ENGINEER

WORK IN TRAVEL LANE AND SHOULDER TWO LANE HIGHWAY ALTERNATING ONE-WAY TRAFFIC OPERATIONS

SIGN FACE
108 SQ. FT (MIN.)



- TRAFFIC CONE OR TRAFFIC DRUM
- ✱ OPTIONAL ✕ TRAFFIC DRUM — PORTABLE SIGN SUPPORT
- ◀ HIGH MOUNTED INTERNALLY ILLUMINATED FLASHING ARROW



CONSTRUCTION TRAFFIC CONTROL PLAN
PLAN 13 - SHEET 1 OF 2
SEE NOTES 1, 2, 4, 6, 7, 8

CONNECTICUT DEPARTMENT OF TRANSPORTATION
BUREAU OF ENGINEERING & CONSTRUCTION

APPROVED *Charles S. Harlow* Charles S. Harlow
2012.06.05 15:55:23-04'00"
PRINCIPAL ENGINEER

WORK IN TRAVEL LANE AND SHOULDER TWO LANE HIGHWAY ALTERNATING ONE-WAY TRAFFIC OPERATIONS

SIGN FACE
108 SQ. FT (MIN.)

HAND SIGNAL METHODS TO BE USED BY UNIFORMED FLAGGERS

THE FOLLOWING METHODS FROM SECTION 6E.07, FLAGGER PROCEDURES, IN THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES," SHALL BE USED BY UNIFORMED FLAGGERS WHEN DIRECTING TRAFFIC THROUGH A WORK AREA. THE STOP/SLOW SIGN PADDLE (SIGN NO. 80-9950) SHOWN ON THE TRAFFIC STANDARD SHEET TR-1220 01 ENTITLED, "SIGNS FOR CONSTRUCTION AND PERMIT OPERATIONS" SHALL BE USED.

A. TO STOP TRAFFIC

TO STOP ROAD USERS, THE FLAGGER SHALL FACE ROAD USERS AND AIM THE STOP PADDLE FACE TOWARD ROAD USERS IN A STATIONARY POSITION WITH THE ARM EXTENDED HORIZONTALLY AWAY FROM THE BODY. THE FREE ARM SHALL BE HELD WITH THE PALM OF THE HAND ABOVE SHOULDER LEVEL TOWARD APPROACHING TRAFFIC.



B. TO DIRECT TRAFFIC TO PROCEED

TO DIRECT STOPPED ROAD USERS TO PROCEED, THE FLAGGER SHALL FACE ROAD USERS WITH THE SLOW PADDLE FACE AIMED TOWARD ROAD USERS IN A STATIONARY POSITION WITH THE ARM EXTENDED HORIZONTALLY AWAY FROM THE BODY. THE FLAGGER SHALL MOTION WITH THE FREE HAND FOR ROAD USERS TO PROCEED.



C. TO ALERT OR SLOW TRAFFIC

TO ALERT OR SLOW TRAFFIC, THE FLAGGER SHALL FACE ROAD USERS WITH THE SLOW PADDLE FACE AIMED TOWARD ROAD USERS IN A STATIONARY POSITION WITH THE ARM EXTENDED HORIZONTALLY AWAY FROM THE BODY. TO FURTHER ALERT OR SLOW TRAFFIC, THE FLAGGER HOLDING THE SLOW PADDLE FACE TOWARD ROAD USERS MAY MOTION UP AND DOWN WITH THE FREE HAND, PALM DOWN.



- TRAFFIC CONE **OR** TRAFFIC DRUM
- ✱ OPTIONAL ⊗ TRAFFIC DRUM ⇨ PORTABLE SIGN SUPPORT
- ⇐ HIGH MOUNTED INTERNALLY ILLUMINATED FLASHING ARROW



SCALE: NONE

CONSTRUCTION TRAFFIC CONTROL PLAN
PLAN 13 - SHEET 2 OF 2
SEE NOTES 1, 2, 4, 6, 7, 8

CONNECTICUT DEPARTMENT OF TRANSPORTATION
BUREAU OF ENGINEERING & CONSTRUCTION

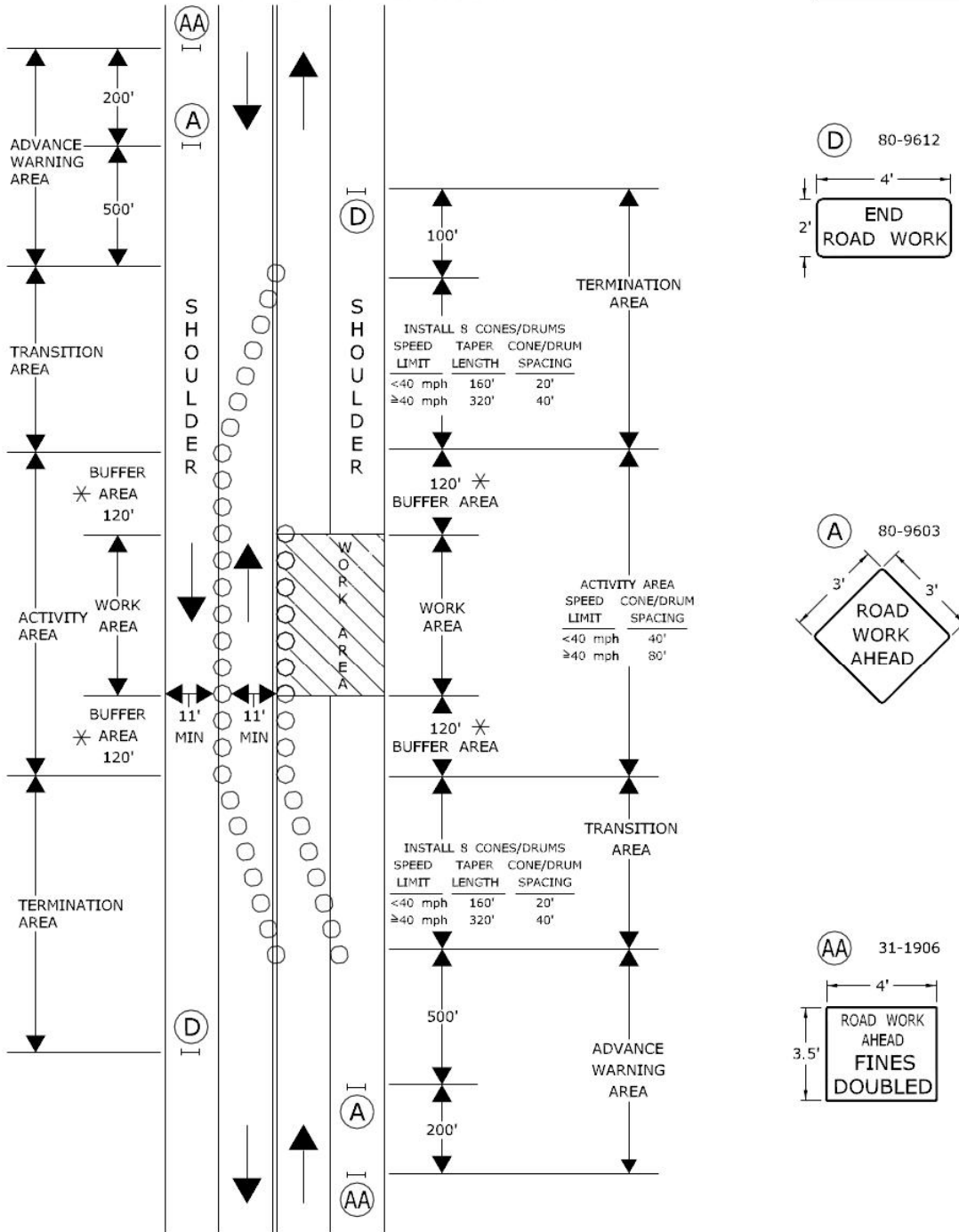
APPROVED

Charles S. Harlow
PRINCIPAL ENGINEER

Charles S. Harlow
2012.08.05 15:55:45-04'00'

WORK IN TRAVEL LANE AND SHOULDER TWO LANE HIGHWAY

SIGN FACE
62 SQ. FT (MIN.)



INSTALL 8 CONES/DRUMS

SPEED LIMIT	TAPER LENGTH	CONE/DRUM SPACING
<40 mph	160'	20'
≥40 mph	320'	40'

ACTIVITY AREA

SPEED LIMIT	CONE/DRUM SPACING
<40 mph	40'
≥40 mph	80'

INSTALL 8 CONES/DRUMS

SPEED LIMIT	TAPER LENGTH	CONE/DRUM SPACING
<40 mph	160'	20'
≥40 mph	320'	40'

- TRAFFIC CONE **OR** TRAFFIC DRUM
- ✕ OPTIONAL ⊗ TRAFFIC DRUM — PORTABLE SIGN SUPPORT
- ◀ HIGH MOUNTED INTERNALLY ILLUMINATED FLASHING ARROW



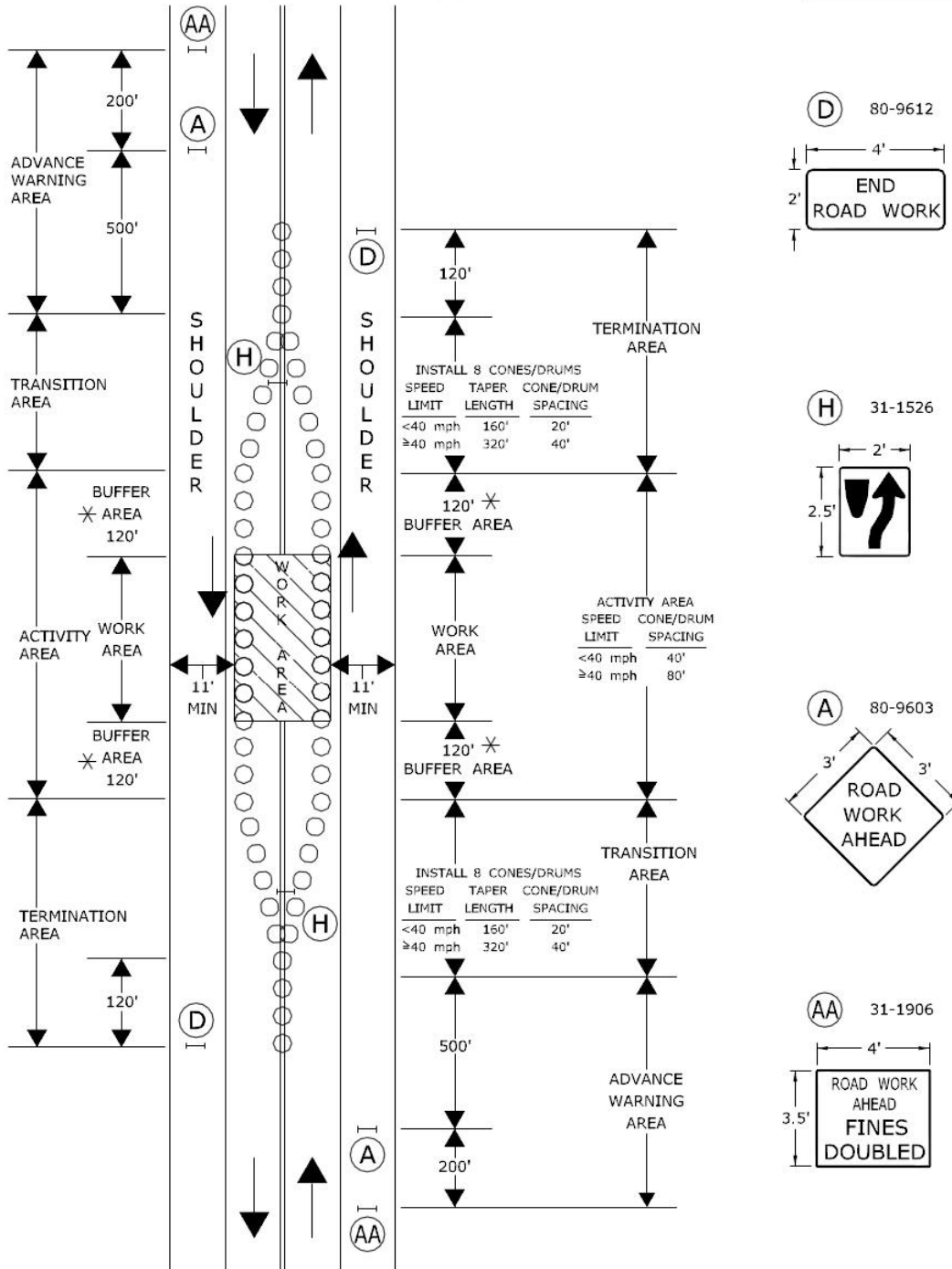
CONSTRUCTION TRAFFIC CONTROL PLAN
PLAN 15
SEE NOTES 1, 2, 4, 6, 7, 8

CONNECTICUT DEPARTMENT OF TRANSPORTATION
BUREAU OF ENGINEERING & CONSTRUCTION

APPROVED Charles S. Harlow Charles S. Harlow
PRINCIPAL ENGINEER 2012.06.05 15:56:29-04'00"

WORK IN MIDDLE OF ROADWAY TWO LANE HIGHWAY

SIGN FACE
72 SQ. FT (MIN.)



- TRAFFIC CONE **OR** TRAFFIC DRUM
- ✱ OPTIONAL ⊗ TRAFFIC DRUM — PORTABLE SIGN SUPPORT
- ◀ HIGH MOUNTED INTERNALLY ILLUMINATED FLASHING ARROW



SCALE: NONE

CONSTRUCTION TRAFFIC CONTROL PLAN

PLAN 16

SEE NOTES 1, 2, 4, 6, 7, 8

CONNECTICUT DEPARTMENT OF TRANSPORTATION
BUREAU OF ENGINEERING & CONSTRUCTION

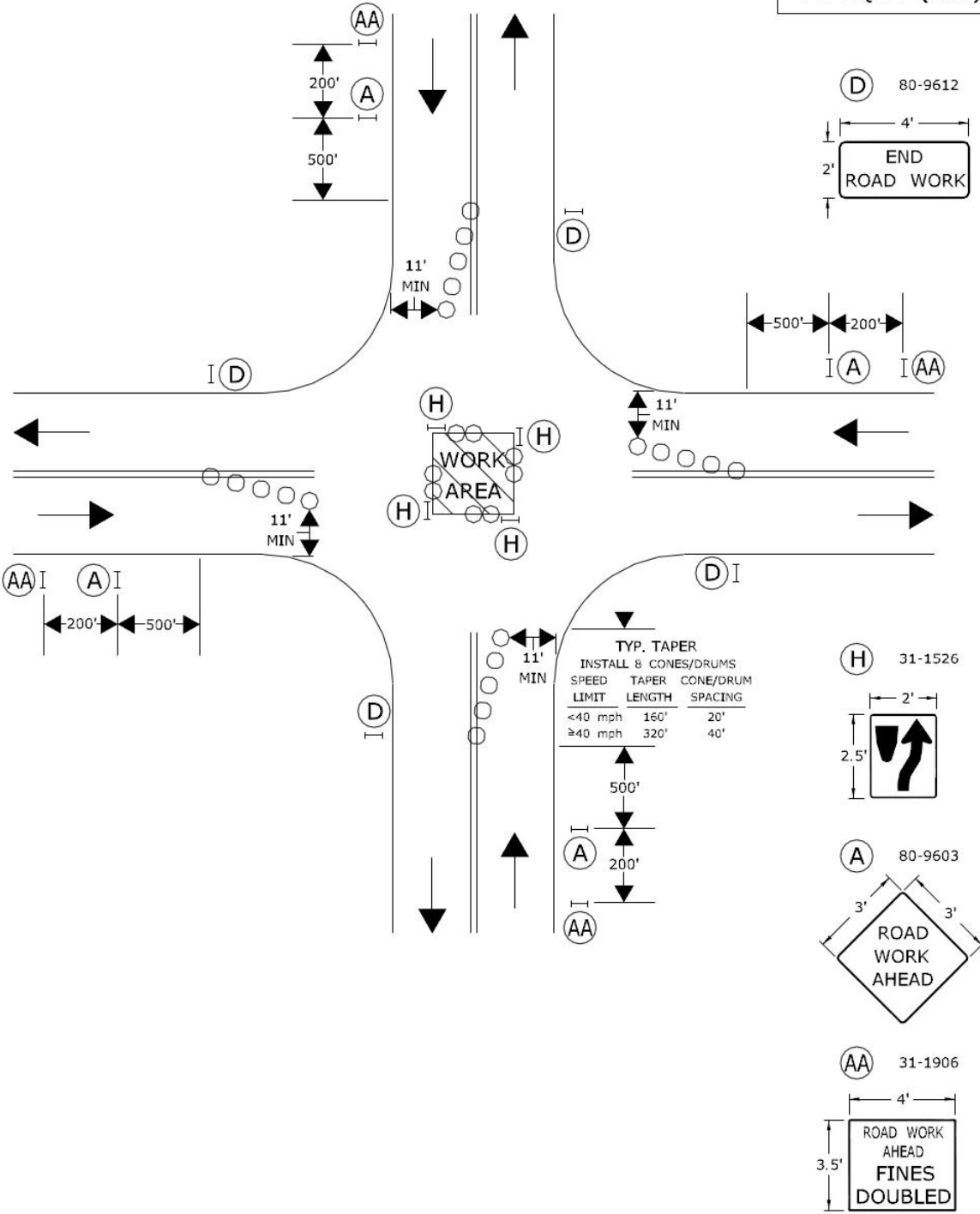
APPROVED

Charles S. Harlow
PRINCIPAL ENGINEER

Charles S. Harlow
2012.08.05 15:56:51-04'00"

WORK IN MIDDLE OF ROADWAY AT INTERSECTION

SIGN FACE
144 SQ. FT. (MIN.)



- TRAFFIC CONE **OR** TRAFFIC DRUM
- ✱ OPTIONAL ⊗ TRAFFIC DRUM ┆ PORTABLE SIGN SUPPORT
- ◀ HIGH MOUNTED INTERNALLY ILLUMINATED FLASHING ARROW



SCALE: NONE

CONSTRUCTION TRAFFIC CONTROL PLAN

PLAN 17

SEE NOTES 1, 2, 4, 6, 7, 8

CONNECTICUT DEPARTMENT OF TRANSPORTATION
BUREAU OF ENGINEERING & CONSTRUCTION

APPROVED

Charles S. Harlow
PRINCIPAL ENGINEER

Charles S. Harlow
2012.08.05 15:57:16-04'00"

Article 9.71.05 – Basis of Payment is supplemented by the following:

The contract lump sum price for “Maintenance and Protection of Traffic” shall also include furnishing, installing, and removing the material for the temporary traversable slope in those areas where a longitudinal dropdown exists.

If there is no method for payment for the temporary transition in those areas where a transverse dropdown exists, then the contract lump sum price for the “Maintenance and Protection of Traffic” shall also include furnishing, installing, and removing the material for the temporary transition.

The contract lump sum price for “Maintenance and Protection of Traffic” shall also include temporarily relocating existing signs and sign supports as many times as deemed necessary and furnishing, installing, and removing temporary sign supports and foundations if necessary during construction of the project.

Pay Item

Maintenance and Protection of Traffic

Pay Unit

l.s..

ITEM #0980001A – CONSTRUCTION STAKING

Description: The work under this item shall consist of construction layout and reference staking necessary for the proper control and satisfactory completion of all work on the project, except property lines.

Materials: All stakes used for control staking shall be of the same quality as used by the Town of Stonington for this purpose. For slope limits, pavement edges, gutter lines, etc. where so-called “green” or “working” stakes are commonly used, lesser quality stakes will be acceptable, provided the stakes are suitable for the intended purpose.

Construction Methods: The Town of Stonington will furnish the Contractor such control points, bench marks, and other data as may be necessary for the construction staking and layout by qualified engineering or surveying personnel as noted elsewhere herein.

The Contractor shall be responsible for the placement and preservation of adequate ties to all control points necessary for the accurate re-establishment of all base lines, center lines, and all critical grades as shown on the plans.

All stakes, references and batter boards which may be required for construction operations, signing and traffic control shall be furnished, set and properly referenced by the Contractor. The Contractor shall be solely and completely responsible for the accuracy of the line and grade of all features of the work. Any errors or apparent discrepancies found in previous surveys, plans, specifications or special provisions shall be called to the Engineer’s attention immediately for correction or interpretation prior to proceeding with the work.

During roadway construction the Contractor shall provide and maintain for the periods needed, as determined by the Engineer, reference stakes at 100 foot intervals outside the slope limits. Further, the Contractor shall provide and maintain reference stakes at 50 foot intervals immediately prior to and during the formation of subgrade and the construction of all subsequent pavement layers. These stakes shall be properly marked as to station, offset and shall be referenced to the proposed grade, even if laser or GPS machine controls are used.

The Contractor shall provide and maintain reference stakes at drainage structures, including reference stakes for the determination of the structure alignments as may be needed for the proper construction of the drainage structure. The reference stakes shall be placed immediately prior and maintained during the installation of the drainage structure. These stakes shall be properly marked as to station, offset and shall be referenced to the proposed grade.

The Contractor shall furnish copies of data used in setting and referencing stakes and other layout markings used by the Contractor after completion of the operation. The Contractor shall provide safe facilities for convenient access to Town of Stonington representatives to control points, batter boards and references.

All staking shall be performed by qualified engineering or surveying personnel who are trained, experienced and skilled in construction layout and staking of the typed required under the contract. All field layout and staking required for the project shall be performed under the supervision of a person or persons of engineering background and experienced in the direction of such work.

The Town may check the control of the work, as established by the Contractor, at any time as the work progresses. The Contractor will be informed of the results of these checks, but the town by so doing in no way relieves the Contractor of responsibility for the accuracy of the layout work. The Contractor shall correct or replace, at the Contractor's own expense, any deficient layout and construction work which may be the result of the inaccuracies in the Contractor's staking operations or the failure to report such inaccuracies, or the Contractor's failure to report inaccuracies found in the work done by the Town or by others. If, as a result of these inaccuracies, the Town is required to make further studies, redesign or both, all expenses incurred by the Town due to such inaccuracies will be deducted from any monies due the Contractor.

The Contractor shall furnish all necessary personnel, engineering equipment and supplies, materials, transportation, and work incidental to the accurate and satisfactory completion of this work.

This pay item warrants positive drainage for the entire project.

Basis of Payment: Payment for Construction Staking will be made as a lump sum.

<u>Pay Item</u>	<u>Pay Unit</u>
Construction Staking	l.s.

ITEM #1206036A – REMOVE AND RELOCATE SIGN

Section 12.06 is supplemented as follows:

Article 12.06.01 – Description is supplemented with the following:

Work under this item shall consist of the removal and/or relocation of designated side-mounted extruded aluminum and sheet aluminum signs, sign posts, sign supports, and foundations where indicated on the plans or as directed by the Engineer. Work under this item shall also include furnishing and installing new sign posts and associated hardware for signs designated for relocation.

Article 12.06.03 – Construction Methods is supplemented with the following:

The Contractor shall take care during the removal and relocation of existing, sign posts, and sign supports that are to be relocated so that they are not damaged. Any material that is damaged shall be replaced by the Contractor at no cost to Town.

Foundations and other material designated for removal shall be removed and disposed of by the Contractor as directed by the engineer and in accordance with existing standards for Removal of Existing Signing.

Sheet aluminum signs designated for relocation are to be re-installed on new sign posts.

Article 12.06.04 – Method of Measurement is supplemented with the following:

Payment under Remove and Relocate Sign shall be at the contract unit price each which shall include extruded aluminum and sheet aluminum sign, sign posts, and sign supports designated for relocation, all new sign posts and associated hardware for signs designated for relocation, all extruded aluminum signs, sheet aluminum signs, sign posts and sign supports designated for scrap, and foundations and other materials designated for removal and disposal, and all other work and equipment required.

Article 12.06.05 – Basis of Payment is supplemented with the following:

This work will be paid for all the contract unit price each for “Remove and Relocate Sign” which price shall include relocating designated extruded aluminum and sheet aluminum signs, sign posts, and sign supports, providing new posts and associated hardware for relocated signs, removing and disposing of foundations and other materials, and all equipment material, tools, and labor incidental thereto. This price shall also include removing, loading, transporting, and unloading of extruded aluminum signs, sheet aluminum signs, sign posts, and sign supports designated for scrap and all equipment, material, tools and labor incidental thereto.

Pay Item

Remove and Relocate Sign

Pay Unit

EA

ITEM #1302061A – ADJUST GATE BOX (WATER)

Description: The Contractor shall adjust to final grade, the gate boxes and covers appurtenant to the water mains as required and furnish and install extension rings, extension stems, air valve extensions, covers, and additional top or bottom sections if necessary, as shown on the Contract Drawings or as directed by the Engineer in accordance with these specifications.

Connecticut Water Company shall be contacted a minimum of 48 hours prior to initiating the adjustment of any water gate boxes so that an inspector can be provided for this work. The Contractor shall contact Connecticut Water Company to arrange an inspector for this work.

Materials: The Contractor shall furnish standard Connecticut Water Company gate box sections as required and extension stems if necessary.

All additional materials, including any resurfacing materials and any additional fill required, shall be furnished and placed by the Contractor. Gravel shall conform to Article M.02.01.

Construction Methods: The Contractor shall carefully excavate around the gate boxes, remove the boxes, install extension stems and air valve extensions, if necessary, reinstall the present gate box if reusable, adjust the box to final grade using extension rings if applicable, and refill the excavation. Care shall be taken to prevent material from filling the inside of the gate box.

Extension stems will be required if the gate box is raised 24-inches or more. Extension stems shall be fabricated according to Connecticut Water Company standards.

Any damage done to Connecticut Water Company facilities by the Contractor shall be repaired or replaced by the Contractor at his expense.

Method of Measurement: The number of adjust gate boxes, complete with extension stems, air valve extensions, gate box extension rings, covers, and additional top or bottom sections, if necessary, measured for payment shall be the actual number of each box reset.

Basis of Payment: This work will be paid for at the contract unit price listed in the bid proposal for “Adjust Gate Box (Water)” complete in place, which price shall include the cost of furnishing material, including labor and equipment to incorporate them into the work. It shall also include the clearing, trenching and disposal of excavated materials, refilling trenches, furnishing the additional material for refilling, grading, sheeting, bracing, and pumping. When the work to rebuild the structure walls requires reconstruction to a point greater than three feet measured vertically down from the proposed top of frame elevation, the limits of additional work must first be authorized by the Engineer.

Pay Item
Adjust Gate Box (Water)

Pay Unit
each

ITEM #2999997A MISCELLANEOUS EXTRA WORK

General: An arbitrary amount of money for this item has been fixed by the Engineer in the Proposal section of this contract to provide an account to pay for miscellaneous extra work on the job found necessary by and ordered done by the Engineer.

Construction Methods: The Engineer may order work, which is not covered in any other bid item, done under this item on force account basis or at mutually agreed upon unit prices, as provided for under Section 3 on the Contract Agreement.

Method of Measurement: Measurement for this work will be made in the appropriate manner as determined by the engineer.

Basis of Payment: For large construction equipment (exclusive of small tools) and vehicles, owned by the Contractor Agreement, reasonable and fair rental rates will be allowed and paid for that use, provided such rates do not exceed 80% of the rental rate for similar equipment as indicated in the latest edition of ‘Compilation of Rental Rates for Construction Equipment’ as prepared and published by Associated Equipment Distributors, and provided:

- a. That the rental rates plus 15% will include fuel, oil, repairs, taxes, insurance, depreciation and all attachments, all complete, ready to operate, but excluding operations.
- b. Operators of equipment will, in general, be included in payments for labor on extra work and not included in rental rates for the equipment.
- c. Daily rental rates will be paid for days and/or fractions of days for periods of less than five working days. When the use of any piece of equipment exceeds five days or more, weekly or monthly rental rates will be used. Rents for fractions of day, week or month will be figured pro rate.

If equipment and vehicles are rented by the Contractor from other parties for use on additional work, the Town will allow, as part of the cost, the actual net rentals paid by the Contractor. These are to be allowed as provided in (a), (b), and (c) above and further provided:

- d. Such rentals or rates of rentals are reasonable and not more than those customarily paid in the vicinity of Stonington for such equipment, and not more than paid for the same or, similar equipment when used on other portions of work under this Contract.
- e. No rental rate shall exceed the rental rate for similar equipment as indicated in the latest edition of “Compilation of Rental Rates for Construction Equipment” referred to previously.

Pay Item
Miscellaneous Extra Work

Pay Unit
Allowance

F.H.W.A. REGION NO.	STATE	TOWN	FED. AID/TA PROJ. NO.	PROJ. NO.	YEAR	ROUTE NO.	SHEET NO.	TOTAL SHEETS
1	CT	STONINGTON		ITB 2019-002	2019	-	4	17

GENERAL NOTES:

- ALL CONSTRUCTION MATERIALS AND OPERATIONS SHALL COMPLY WITH THE STANDARD PROVISIONS AND REQUIREMENTS OF THE CONNECTICUT DEPARTMENT OF TRANSPORTATION FORM 817.
- THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OF ALL PRODUCTS, MATERIAL SAMPLES, PLAN, OR OTHER INFORMATION TO THE TOWN REPRESENTATIVE FOR REVIEW AND APPROVAL PRIOR TO FABRICATION OR DELIVERY TO THE SITE AS SPECIFIED IN THE CONTRACT.
- ALL TESTING, EXCEPT FOR FIELD DENSITY TESTING, MUST BE SUBMITTED TO AND APPROVED BY THE TOWN OF STONINGTON DEPARTMENT OF PUBLIC WORKS, ENGINEERING DEPARTMENT.
- HOURS OF WORK SHALL BE AS DEFINED IN THE CONTRACT DOCUMENTS. THE TOWN RESERVES THE RIGHT TO ADJUST THESE HOURS IN THE INTEREST OF PUBLIC SAFETY.
- THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS REQUIRED BY GOVERNMENT AGENCIES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL OBTAIN ANY TOWN, STATE OF CONNECTICUT OR OTHER PERMITS FOR WORK WITHIN THE PROJECT LIMITS. THE CONTRACTOR SHALL POST ALL BONDS, PAY ALL FEES, PROVIDE PROOF OF INSURANCE, AND PROVIDE TRAFFIC PROTECTION AS REQUIRED FOR THIS WORK.
- THE ENGINEER IS NOT RESPONSIBLE FOR SITE SAFETY MEASURES TO BE EMPLOYED DURING CONSTRUCTION. THE ENGINEER HAS NO CONTRACTUAL DUTY TO CONTROL THE SAFEST METHODS OR MEANS OF THE WORK, JOB SITE RESPONSIBILITIES, SUPERVISION OR TO SUPERVISE SAFETY AND DOES NOT VOLUNTARILY ASSUME ANY SUCH DUTY OR RESPONSIBILITY.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING ADJACENT PROPERTY OWNERS OF IMPENDING CONSTRUCTION, AS WELL AS COORDINATING DRIVEWAY AND WALKWAY REMOVAL/REPLACEMENT WORK.
- ACCESS TO PRIVATE PROPERTIES MUST BE MAINTAINED AT ALL TIMES. FOR SECURITY REASONS, ALL PRIVATELY OWNED FENCING THAT IS TO BE REMOVED SHALL BE REPLACED WITHIN 72 HOURS OF REMOVAL. CONTRACTOR SHALL NOTIFY PROPERTY OWNER 48 HOURS PRIOR TO THE REMOVAL OF FENCING.
- NO FIELD SURVEY PERFORMED. FIELD CONDITIONS MAY VARY. THE CONTRACTOR SHALL VERIFY ALL SITE CONDITIONS IN THE FIELD AND CONTACT THE TOWN REPRESENTATIVE IF THERE ARE ANY QUESTIONS OR CONFLICTS REGARDING THE CONSTRUCTION DOCUMENTS AND/OR FIELD CONDITIONS SO THAT APPROPRIATE REVISIONS CAN BE MADE PRIOR TO BIDDING AND CONSTRUCTION OPERATIONS.
- ALL EXISTING CONDITIONS SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. ANY DISCREPANCIES SHALL BE REPORTED TO THE ENGINEER.
- ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH SPECIFICATION NO. 0971001A - MAINTENANCE AND PROTECTION OF TRAFFIC. NO WORK SHALL BEGIN UNTIL ALL TRAFFIC CONTROL DEVICES ARE IN PLACE.
- TRAFFIC CONTROL SIGNAGE SHALL CONFORM TO THE CONNDOT STANDARD DETAIL SHEETS AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES. INSTALL NEW OR RELOCATED SIGNS WITH BREAKAWAY POSTS.
- ALL EXISTING PAVEMENT MARKINGS DAMAGED OR REMOVED DURING CONSTRUCTION SHALL BE RESTORED PER CTDOT REQUIREMENTS.
- ANY PUBLIC OR PRIVATE PROPERTY THAT IS DISTURBED AS A RESULT OF CONSTRUCTION OPERATIONS SHALL BE RESTORED AS SOON AS POSSIBLE TO THE SATISFACTION OF THE ENGINEER.
- STAGING AREAS AND MATERIAL STOCK PILES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND ARE NOT TO INTERFERE WITH PEDESTRIAN OR VEHICULAR TRAFFIC.
- EACH LAYER OF MATERIAL USED FOR BACKFILL OR SUBGRADE SHALL BE COMPACTED UNTIL THE DRY DENSITY OF EACH LAYER IS AT LEAST 95% OF THE DRY DENSITY ACHIEVED BY THE AASHTO TEST T180, METHOD D FOR THAT SOIL. MAXIMUM LAYER THICKNESS NOT TO EXCEED 12 INCHES.
- ALTERNATIVE METHODS AND PRODUCTS OTHER THAN THOSE SPECIFIED MAY BE USED IF REVIEWED AND APPROVED BY THE TOWN OR APPROPRIATE REGULATORY AGENCY PRIOR TO INSTALLATION.
- RESET ALL PUBLIC OR PRIVATE MONUMENTS, IRON PIPES OR OTHER TYPES OF PROPERTY LINE AND GEODETIC MARKERS DAMAGED OR DISTURBED BY CONSTRUCTION OPERATIONS. THIS WORK SHALL BE COMPLETED BY A LICENSED LAND SURVEYOR AT THE EXPENSE OF THE CONTRACTOR.
- ALL DISTURBED AREAS NOT OTHERWISE INDICATED IN THE CONTRACT DRAWINGS SHALL BE TOPSOILED AND ESTABLISHED WITH TURF.
- THE CONTRACTOR SHALL RESTORE, REPAIR, RESET, RELOCATE OR REPLACE ALL DRIVEWAYS, WALLS, FENCES, RAILINGS, STONE WALLS, ORNAMENTAL OR UTILITARIAN DOMESTIC ACCESSORIES, ANY DRAINAGE STRUCTURE, PIPE, UTILITY, PAVEMENT, CURBS, SIDEWALKS OR LANDSCAPED AREAS DISTURBED DURING CONSTRUCTION TO THEIR ORIGINAL CONDITION OR BETTER, AS NOTED ON THE DRAWINGS OR AS APPROVED BY THE ENGINEER, PRIOR TO THE COMPLETION OF THE PROJECT AT THE CONTRACTOR'S EXPENSE.
- THE CONTRACTOR IS RESPONSIBLE TO ENSURE THAT PROPER STORM DRAINAGE AND SANITARY FLOW ARE MAINTAINED THROUGHOUT CONSTRUCTION.
- THE CONTRACTOR IS RESPONSIBLE FOR SUPPORTING EXCAVATIONS, TRENCH WALLS AND PROVIDING TRENCH PROTECTION IN ACCORDANCE WITH OSHA REGULATIONS. THE COST OF THIS WORK SHALL BE INCLUDED IN THE GENERAL COST OF THE CONTRACT. THERE IS NO SEPARATE PAY ITEM FOR THIS WORK.

DEMOLITION NOTES

- THE CONTRACTOR SHALL REMOVE ANY PAVEMENT, SIDEWALKS, CURB, DRIVEWAYS, OR RELATED ITEMS NECESSARY TO CONSTRUCT PROPOSED IMPROVEMENTS AND DISPOSE OF THESE ITEMS LEGALLY OFFSITE. PAYMENT FOR THIS WORK WILL BE MADE UNDER THE APPROPRIATE BID ITEM OR IF NOT SO SPECIFIED, UNDER THE ITEM "CLEARING AND GRUBBING".
- THE CONTRACTOR SHALL SECURE ALL PERMITS FOR DEMOLITION AND DISPOSAL OF DEMOLITION MATERIAL TO BE REMOVED FROM WITHIN THE PROJECT LIMITS. THE CONTRACTOR SHALL POST ALL BONDS AND PAY ANY PERMIT FEE ASSOCIATED WITH THIS WORK. THE COST FOR THIS SHALL BE INCLUDED IN THE GENERAL COST OF THE PROJECT.
- THE CONTRACTOR SHALL ARRANGE FOR AND COORDINATE ALL WORK TO BE PERFORMED BY UTILITY COMPANIES AND OR THE TOWN. THE CONTRACTOR SHALL REPAIR PAVEMENTS AND COORDINATE WITH ALL UTILITY COMPANIES FOR POWER DISRUPTIONS AND ADJUSTMENTS TO STRUCTURES.
- ALL EXISTING ROAD SIGNING SHALL BE MAINTAINED DURING CONSTRUCTION. TEMPORARY SIGNAGE SHALL BE PLACED IN AREAS WHERE EXISTING SIGNAGE CANNOT REMAIN DUE TO CONSTRUCTION ACTIVITY. ALL SIGNS REMOVED, UNLESS OTHERWISE NOTED AS NEW, SHALL BE STOCKPILED, PROTECTED FROM DAMAGE, AND REINSTALLED AS SOON AS PRACTICABLE, UNLESS OTHERWISE SPECIFIED.
- THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS, MATERIALS AND DIMENSIONS PRIOR TO COMMENCING DEMOLITION AND REPORT ANY DISCREPANCIES TO THE ENGINEER.
- EXISTING LUMINAIRES, HYDRANTS, TRAFFIC SIGNAL APPURTENANCES, ETC. WITHIN STREET RIGHT-OF-WAY AND AS OTHERWISE INDICATED SHALL REMAIN IN PLACE AND BE PROTECTED DURING DEMOLITION ACTIVITIES UNLESS OTHERWISE NOTED.
- SEDIMENT AND EROSION CONTROLS SHALL BE IN PLACE PRIOR TO START OF DEMOLITION OR CLEARING AND GRUBBING OPERATIONS. USE SILT SACKS FOR CATCH BASINS.

GRADING AND DRAINAGE NOTES

- THE CONTRACTOR SHALL UTILIZE EROSION CONTROL MEASURES ACCEPTABLE TO THE ENGINEER UNTIL THE COMPLETION OF HIS WORK AS REQUIRED OR DEEMED NECESSARY BY THE ENGINEER. THE CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR THE MAINTENANCE OF EROSION AND SEDIMENTATION CONTROLS UNTIL PROJECT COMPLETION. THERE WILL BE NO DIRECT PAYMENT FOR THIS WORK AND SUCH COST SHALL BE INCLUDED IN THE OVERALL COST OF THE PROJECT.
- UNLESS OTHERWISE NOTED ALL PROPOSED SIDEWALKS, DRIVEWAYS, AND OTHER IMPROVEMENTS SHALL BE INSTALLED TO MATCH EXISTING GRADES AT THE LIMITS OF CONSTRUCTION. GRADING PERFORMED IN ACCORDANCE WITH PROPOSED IMPROVEMENTS SHALL NOT RESULT IN PONDING OF STORM WATER OR NEGATIVELY IMPACT EXISTING DRAINAGE PATTERNS.
- SIDEWALK PITCH SHALL BE MAXIMUM 2% UNLESS OTHERWISE NOTED, AS SHOWN ON THE TYPICAL DETAILS.

UTILITY NOTES

- INFORMATION ON EXISTING UTILITIES HAS BEEN COMPILED FROM AVAILABLE INFORMATION INCLUDING AND MUNICIPAL RECORD MAPS AND IS NOT GUARANTEED CORRECT OR COMPLETE. UTILITIES ARE SHOWN TO ALERT THE CONTRACTOR TO THEIR PRESENCE. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR DETERMINING ACTUAL LOCATIONS AND ELEVATIONS OF ALL UTILITIES INCLUDING SERVICES. PRIOR TO CONSTRUCTION, CONTACT "CALL BEFORE YOU DIG" AT 1-800-922-4455 48 HOURS MINIMUM PRIOR TO BEGINNING CONSTRUCTION OR DEMOLITION AND VERIFY ALL UNDERGROUND AND OVERHEAD UTILITY LOCATIONS. THE CONTRACTOR SHALL VISIT THE SITE AND VERIFY THE ELEVATION AND LOCATION OF ALL UTILITIES BY VARIOUS MEANS PRIOR TO BEGINNING ANY EXCAVATION. TEST PITS SHALL BE DUG AT ALL LOCATIONS WHERE PROPOSED UTILITIES INCLUDING STREET LIGHTING AND TRAFFIC CONTROL CONDUIT CROSS EXISTING UTILITIES, AND THE HORIZONTAL AND VERTICAL LOCATIONS OF THE UTILITIES SHALL BE DETERMINED. THE CONTRACTOR SHALL CONTACT THE ENGINEER IN THE EVENT OF ANY UNFORESEEN CONFLICTS BETWEEN EXISTING AND PROPOSED UTILITIES SO THAT AN APPROPRIATE MODIFICATION MAY BE MADE. UTILITY CONNECTIONS ARE SUBJECT TO UTILITY COMPANY AND CITY APPROVAL.
- PROPER COORDINATION WITH THE RESPECTIVE UTILITY COMPANY SHALL BE PERFORMED BY THE CONTRACTOR TO INSURE THAT ALL UTILITY COMPANIES AND CTDOT STANDARDS FOR MATERIALS AND CONSTRUCTION METHODS ARE MET.
- ALL DISTURBANCE CAUSED TO TOWN, STATE OR PRIVATE PROPERTY DUE TO CONSTRUCTION SHALL BE RESTORED TO ITS PREVIOUS CONDITION OR BETTER, TO THE SATISFACTION OF THE TOWN OR STATE OF CONNECTICUT AUTHORITY.
- THE CONTRACTOR SHALL ARRANGE FOR WORK TO BE PERFORMED BY UTILITY COMPANIES. THE TOWN OR STATE OF CONNECTICUT. THE CONTRACTOR SHALL COORDINATE THIS WORK AND SECURE ANY PERMITS AND PAY ANY UTILITY COMPANY OR CITY FEES.
- THE CONTRACTOR SHALL COORDINATE AND CONDUCT, AS DETERMINED BY THE APPROPRIATE UTILITY, THE RESETTING OF MANHOLES, HANDHOLES, CURB BOXES AND VALVE BOXES TO THE NEW SIDEWALK OR ROADWAY GRADE.
- SHOULD ANY UNCHARTED OR INCORRECTLY CHARTED, EXISTING PIPING OR OTHER UTILITY BE UNCOVERED DURING EXCAVATION, THE CONTRACTOR SHALL CONSULT WITH THE TOWN AND APPLICABLE UTILITY COMPANY IMMEDIATELY FOR DIRECTIONS BEFORE PROCEEDING FURTHER WITH WORK IN THIS AREA.
- ANY UTILITY LINE OR EQUIPMENT THAT IS DAMAGED THROUGH THE NEGLIGENCE OF THE CONTRACTOR SHALL BE REPAIRED BY THE CONTROLLING UTILITY COMPANY AT THE CONTRACTOR'S EXPENSE.
- CATCH BASINS DAMAGED OR FILLED WITH DEBRIS DURING CONSTRUCTION SHALL BE REPLACED OR CLEANED AT THE CONTRACTOR'S EXPENSE.
- MINIMUM CLEARANCE, AS REQUIRED BY EACH UTILITY, BETWEEN WATER, GAS, ELECTRICAL, AND TELEPHONE LINES AND SEWERS SHALL BE PROVIDED UNLESS OTHERWISE NOTED. 6' MINIMUM CLEARANCE SHALL BE MAINTAINED BETWEEN STORM AND SANITARY SEWERS WITH A CONCRETE ENCASMENT.

5/3/2019 9:37:51 AM

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Revisions	By	Date	Notice	Sign-Offs	By	Date
			Manual revisions to this drawing are prohibited. The use of this drawing by any corporation, or by any person, for any reason, without written authorized consent of The City of Hartford is prohibited.	Drawn	J.D.	04/19
				Checked	J.R.	04/19
				Recommended		
				Approved		
				Recorded		

ADA RAMP REPLACEMENT PROJECT
STONINGTON, CONNECTICUT

BETA Proj. No. 6108	ITB 2019-002	April 2019
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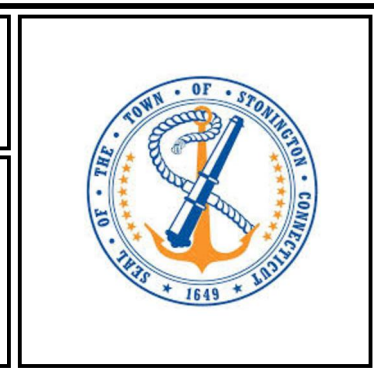
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SUITE 305
HARTFORD, CT. 06114
TEL. 860-513-1503
FAX 860-513-1582

NOT TO SCALE

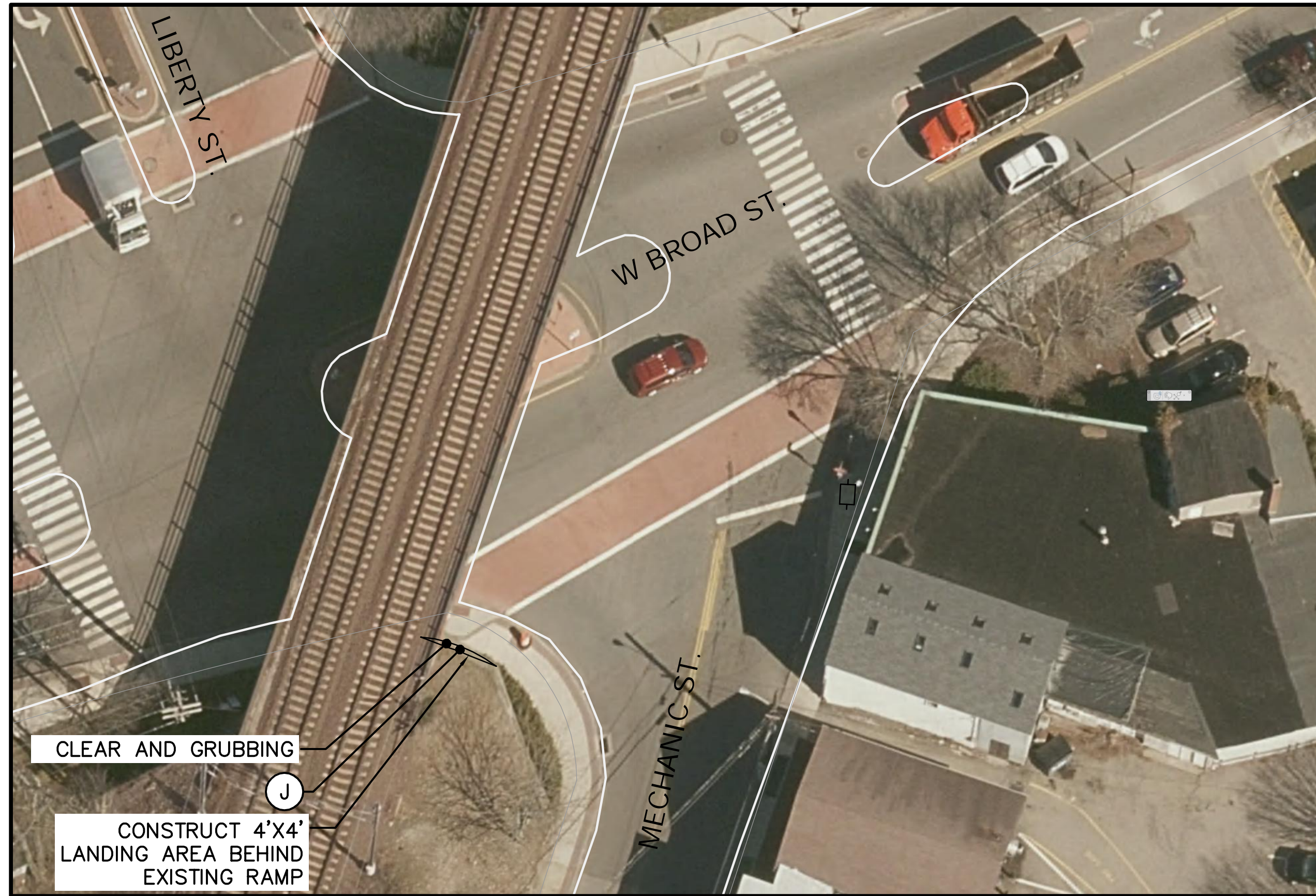
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Town of Stonington, CT
Department of Public Works

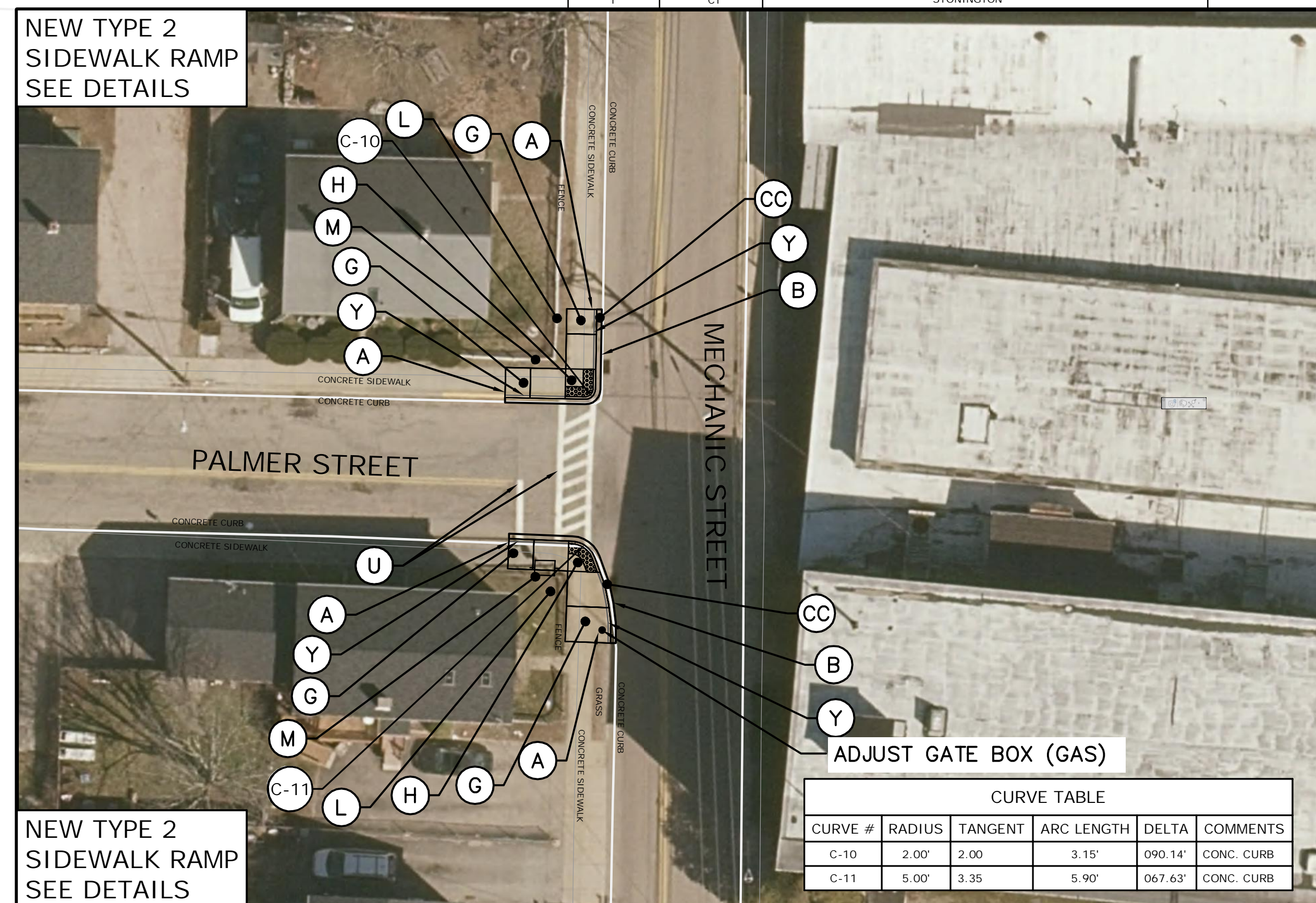
GENERAL NOTES



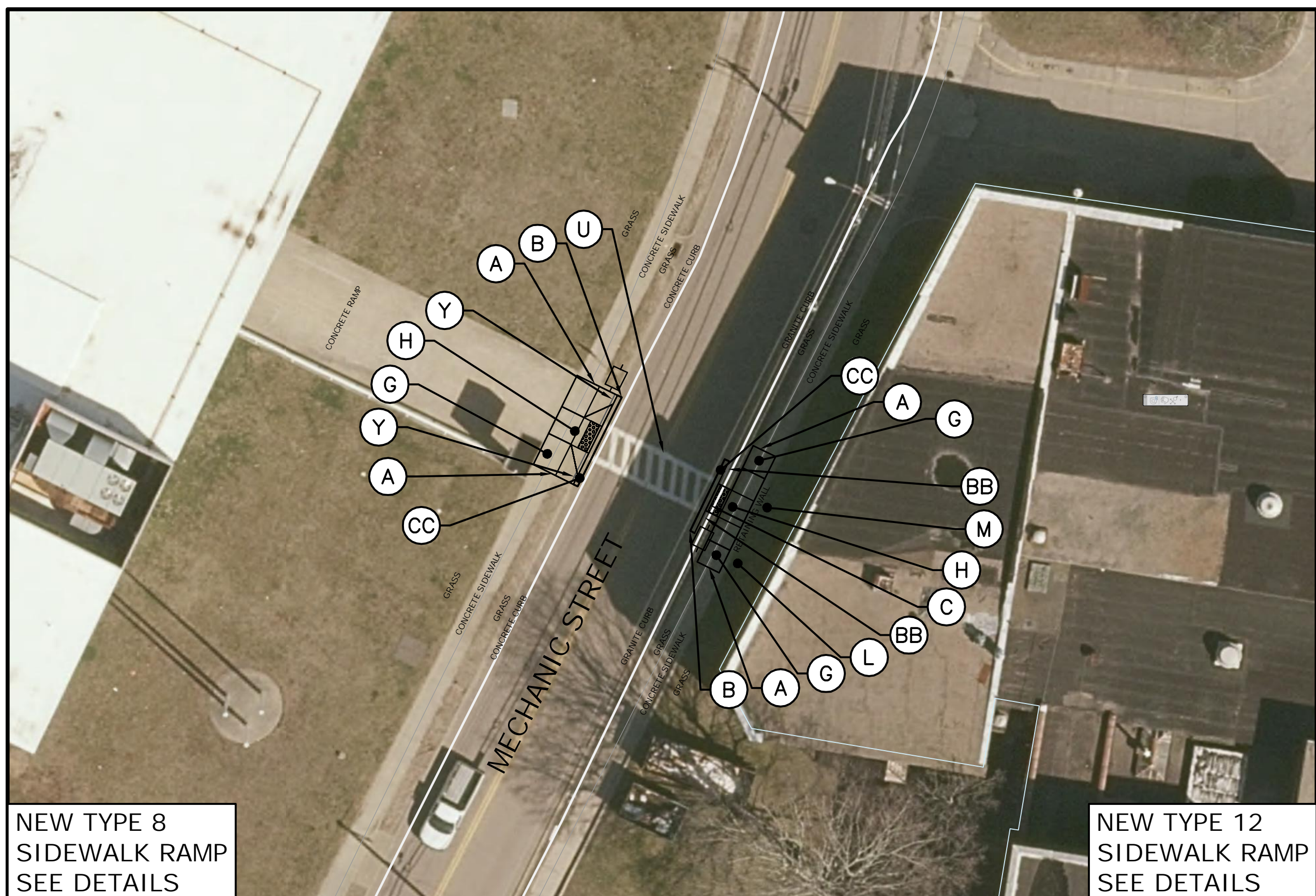
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Town Project No.	ITB 2019-002



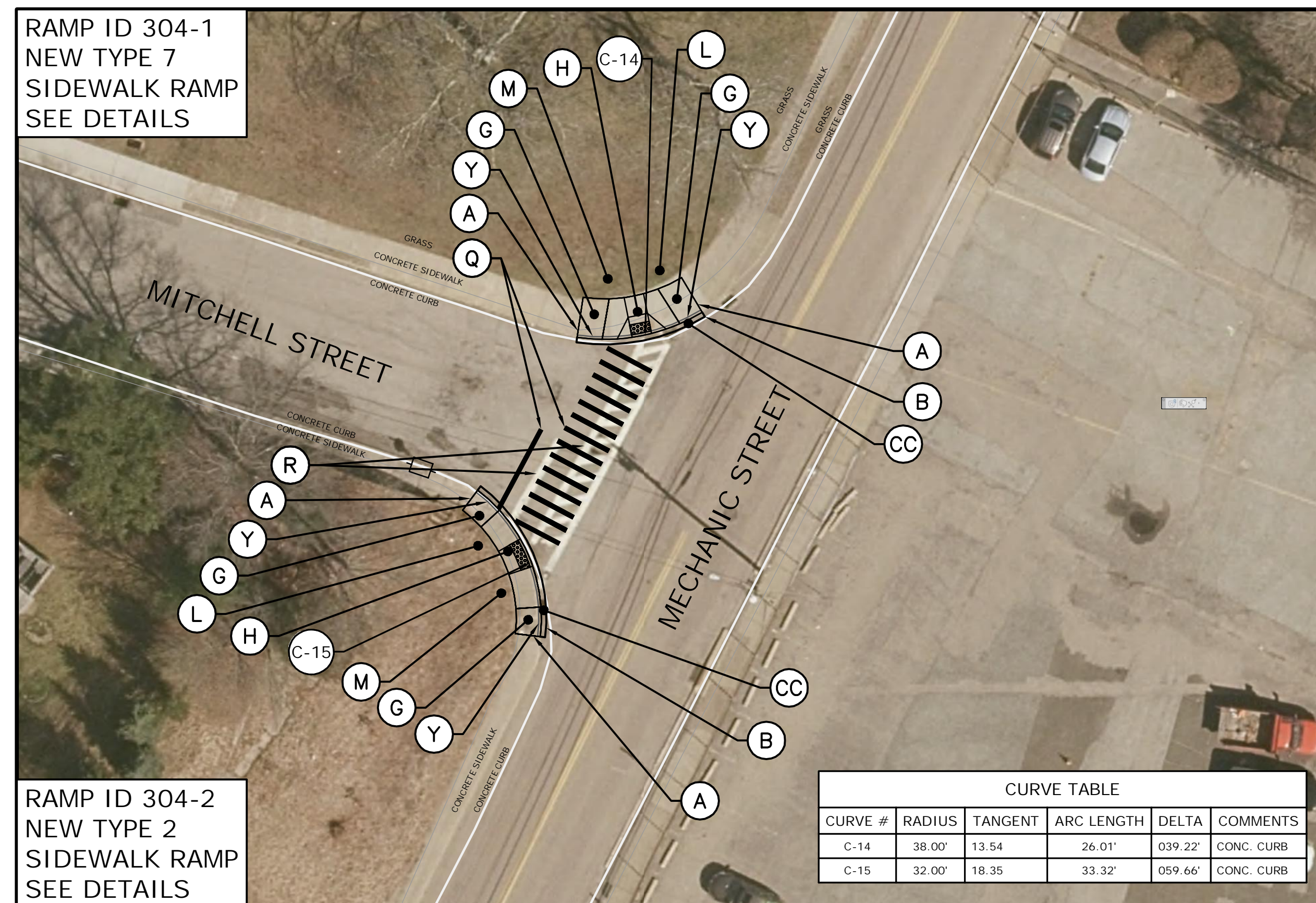
MECHANIC STREET AND W BROAD STREET



MECHANIC STREET AND PALMER STREET



MECHANIC STREET AND MIDBLOCK CROSSING



MECHANIC STREET AND MITCHELL STREET

CONSTRUCTION NOTES

- CONTRACTOR SHALL NOTIFY CALL BEFORE YOU DIG (800-922-4455) 48 HOURS PRIOR TO START OF WORK.
- PROPOSED CURB REVEAL SHALL BE 5" ABOVE EXISTING GUTTER ELEVATION (TYPICAL). VERIFY EX. CURB HEIGHT PRIOR TO START OF WORK.
- CONTRACTOR SHALL VERIFY ELEVATIONS AND MAINTAIN POSITIVE FLOW OF STORM WATER. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR CONSTRUCTION LAYOUT AND PROPER DRAINAGE.
- RESTORE ALL DISTURBED AREAS. PROVIDE 4" TOPSOIL, SEED, MULCH AND FERTILIZER ON LAWN AREAS.
- MATCH EXISTING GRADES AT LIMITS OF WORK. GRADING ASSOCIATED WITH THE CONSTRUCTION OF SIDEWALK RAMP WILL NOT BE PAID FOR.
- REFER TO DETAILS FOR LOCATION OF TACTILE WARNING TILES PER RAMP TYPE.
- CURB AND SIDEWALK REMOVALS TO OCCUR AT NEAREST JOINT. INCLUDE THE COST OF FORMED CONCRETE SHOULDERS AND CURB IN THE COST OF SIDEWALK.
- NEW PAVEMENT MARKINGS AND PAVEMENT MARKING REMOVALS TO BE COMPLETED BY THE TOWN.
- CONTRACTOR TO STAKE STREET LINE LOCATIONS BEFORE STARTING ANY WORK. REPORT ANY ROW IMPACTS TO ENGINEER. REPORT CONFLICTS, IF ANY, WITH EXISTING MONUMENTS.
- THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL UTILITY ADJUSTMENTS AND RELOCATION WITH EACH RESPECTIVE UTILITY. NO ADDITIONAL PAYMENT WILL BE MADE FOR THIS WORK.
- CONTRACTOR SHALL MAINTAIN A 48" x 48" MINIMUM MANEUVERING SPACE IN FRONT OF ALL SIDEWALK RAMP.
- WATER POLLUTION PREVENTION MARKING TO BE INSTALLED BY TOWN.

CONSTRUCTION KEY

- (A) — SAW CUT CEMENT CONCRETE AT NEXT NEAREST JOINT
- (B) — SAWCUT BITUMINOUS CONCRETE
- (C) — 6" GRANITE STONE CURBING
- (D) — 6" GRANITE CURVED STONE CURBING
- (E) — RESET GRANITE STONE CURBING
- (F) — 4" BITUMINOUS CONCRETE PARK CURBING
- (G) — CONCRETE SIDEWALK
- (H) — CONCRETE SIDEWALK RAMP
- (I) — RETROFIT DETECTABLE WARNING STRIP
- (L) — BITUMINOUS CONCRETE SIDEWALK
- (K) — BITUMINOUS CONCRETE DRIVEWAY
- (C) — FURNISHING AND PLACING TOPSOIL
- (M) — TURF ESTABLISHMENT
- (N) — PROTECTION EXISTING VEGETATION
- (O) — REMOVE AND RELOCATE SIGN
- (P) — 4" WHITE EPOXY RESIN PAVEMENT MARKINGS (BY TOWN)
- (Q) — 12" WHITE EPOXY RESIN PAVEMENT MARKINGS (BY TOWN)
- (R) — REMOVAL OF PAINTED PAVEMENT MARKINGS (BY TOWN)
- (S) — RESET MANHOLE
- (T) — RELOCATE STOP SIGN 4' BEHIND CROSSWALK
- (U) — EXISTING PAVEMENT MARKING TO REMAIN
- (V) — INSTALL PEDESTRIAN CROSSING SIGN (CTDOT #4811)
- (W) — GRADING REQUIRED BEHIND RAMP
- (X) — GRADING AS REQUIRED
- (Y) — CONCRETE CURBING (MONOLITHIC)
- (Z) — PROTECT BRICK MASONRY
- (AA) — 6" BITUMINOUS CONCRETE LIP CURBING
- (BB) — GRANITE TRANSITION CURBING
- (CC) — FULL DEPTH ROADWAY REPAIR

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Revisions	By	Date	Notice

Sign-Offs	By	Date
Drawn	J.D.	04/19
Checked	J.R.	04/19
Recommended		
Approved		
Recorded		

ADA RAMP REPLACEMENT PROJECT
STONINGTON, CONNECTICUT

BETA Proj. No. 6108 ITB 2019-002 April 2019

BETA
IMPROVING COMMUNITIES TOGETHER

1010 WETHERSFIELD AVE
SUITE 305
HARTFORD, CT 06114
TEL: 860-513-1503
FAX: 860-513-1582

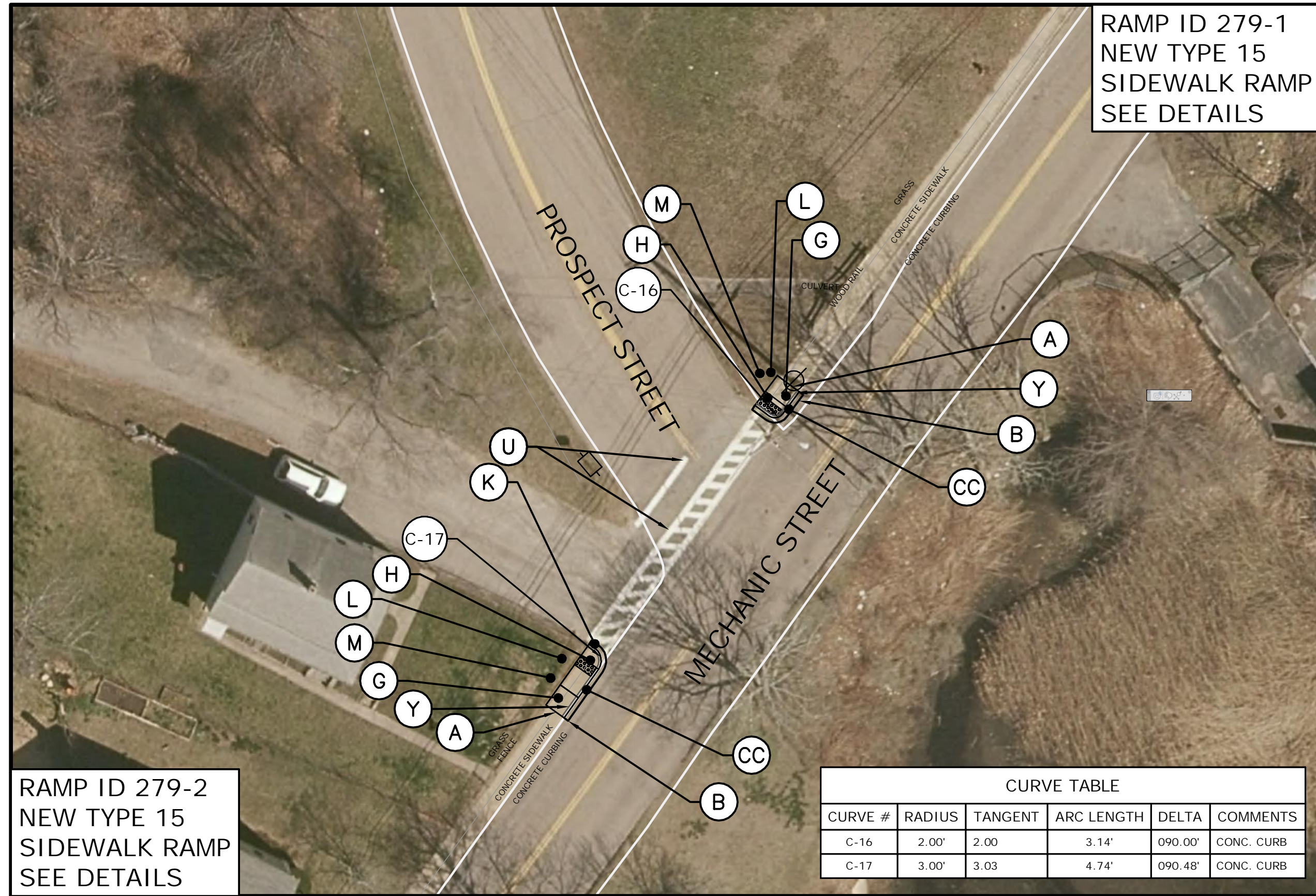
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UNLESS OTHERWISE NOTED OR CHANGED BY REPRODUCTION

Town of Stonington, CT
Department of Public Works

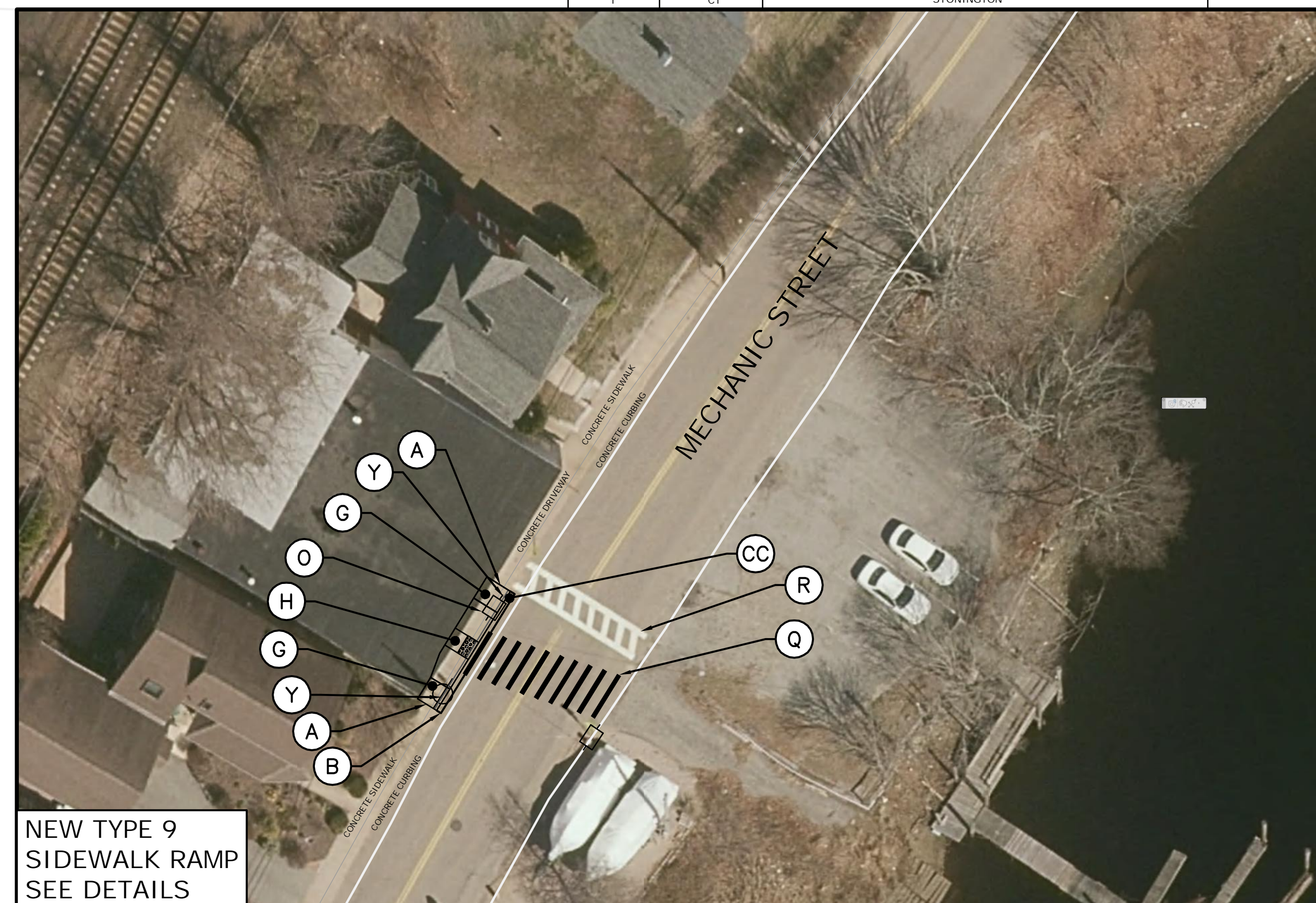
ADA SIDEWALK RAMP COMPLIANCE

Sheet Name
SR 1

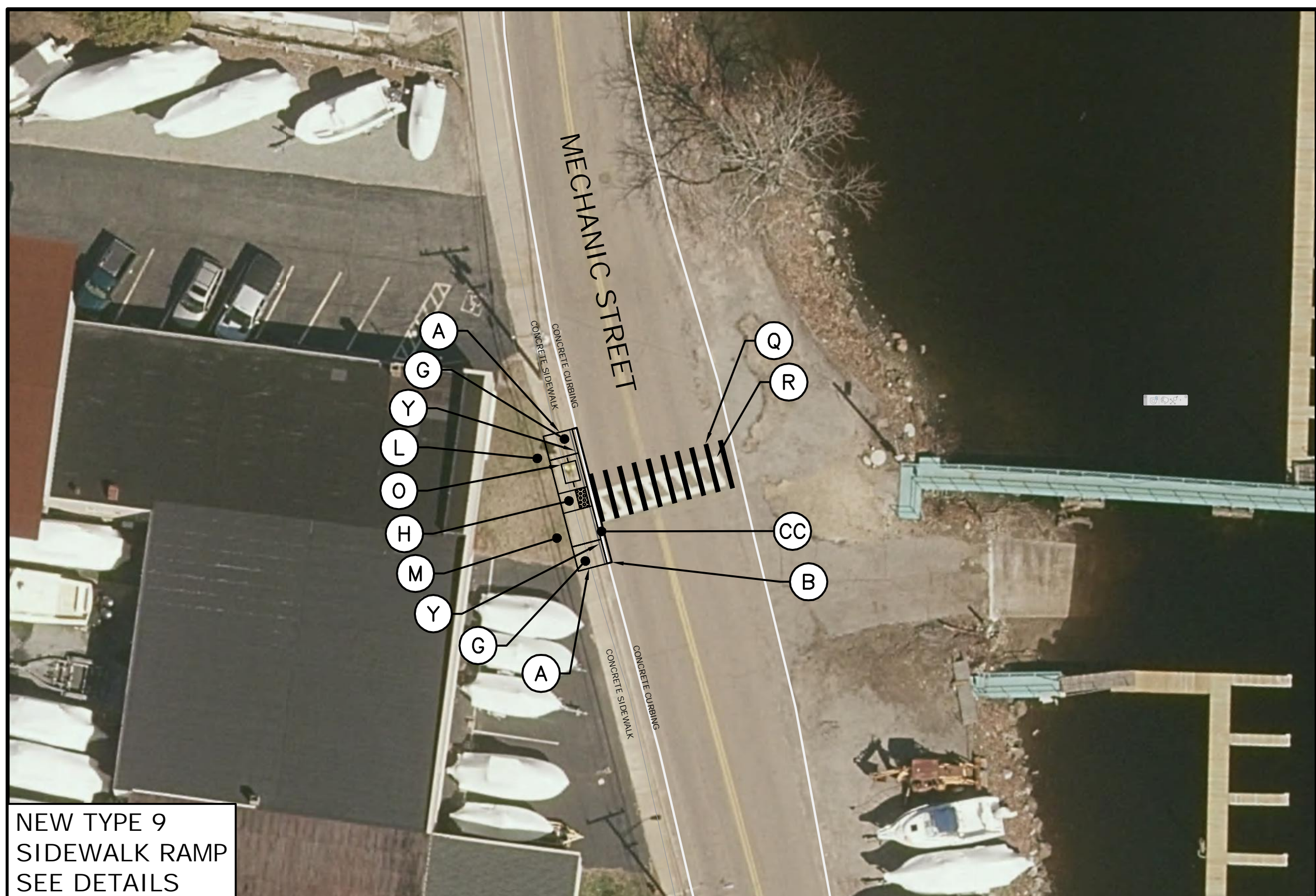
Town Project No.
ITB 2019-002



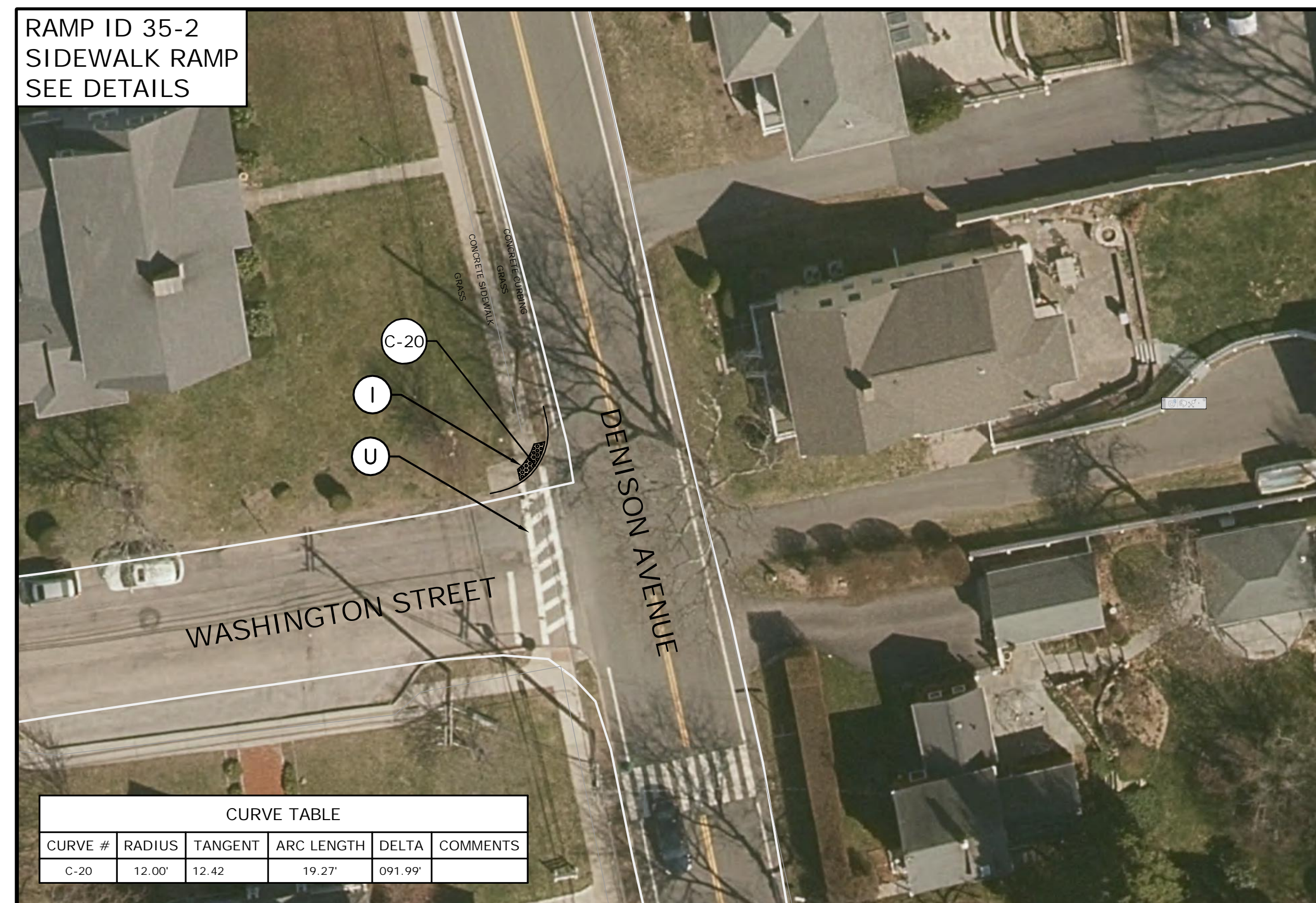
MECHANIC STREET AND PROSPECT STREET



MECHANIC ST. AND MIDBLOCK CROSSING (NORTH DOCK)



MECHANIC ST. AND MIDBLOCK CROSSING (SOUTH DOCK)



WASHINGTON STREET AND DENISON AVENUE

CONSTRUCTION NOTES

- CONTRACTOR SHALL NOTIFY CALL BEFORE YOU DIG (800-922-4455) 48 HOURS PRIOR TO START OF WORK.
- PROPOSED CURB REVEAL SHALL BE 5" ABOVE EXISTING GUTTER ELEVATION (TYPICAL). VERIFY EX. CURB HEIGHT PRIOR TO START OF WORK.
- CONTRACTOR SHALL VERIFY ELEVATIONS AND MAINTAIN POSITIVE FLOW OF STORM WATER. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR CONSTRUCTION LAYOUT AND PROPER DRAINAGE.
- RESTORE ALL DISTURBED AREAS. PROVIDE 4" TOPSOIL, SEED, MULCH AND FERTILIZER ON LAWN AREAS.
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CONSTRUCTION KEY

- (A) SAW CUT CEMENT CONCRETE AT NEXT NEAREST JOINT
- (B) SAWCUT BITUMINOUS CONCRETE
- (C) 6" GRANITE STONE CURBING
- (D) 6" GRANITE CURVED STONE CURBING
- (E) RESET GRANITE STONE CURBING
- (F) 4" BITUMINOUS CONCRETE PARK CURBING
- (G) CONCRETE SIDEWALK
- (H) CONCRETE SIDEWALK RAMP
- (I) RETROFIT DETECTABLE WARNING STRIP
- (J) BITUMINOUS CONCRETE SIDEWALK
- (K) BITUMINOUS CONCRETE DRIVEWAY
- (L) FURNISHING AND PLACING TOPSOIL
- (M) TURF ESTABLISHMENT
- (N) PROTECTION EXISTING VEGETATION
- (O) REMOVE AND RELOCATE SIGN
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- (AA) 6" BITUMINOUS CONCRETE LIP CURBING
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- (CC) FULL DEPTH ROADWAY REPAIR

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Revisions	By	Date	Notice

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Sign-Offs	By	Date
Drawn	J.D.	04/19
Checked	J.R.	04/19
Recommended		
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ADA RAMP REPLACEMENT PROJECT
STONINGTON, CONNECTICUT

BETA Proj. No. 6108 ITB 2019-002 April 2019

1010 WETHERSFIELD AVE
SUITE 305
HARTFORD, CT 06114
TEL: 860-513-1503
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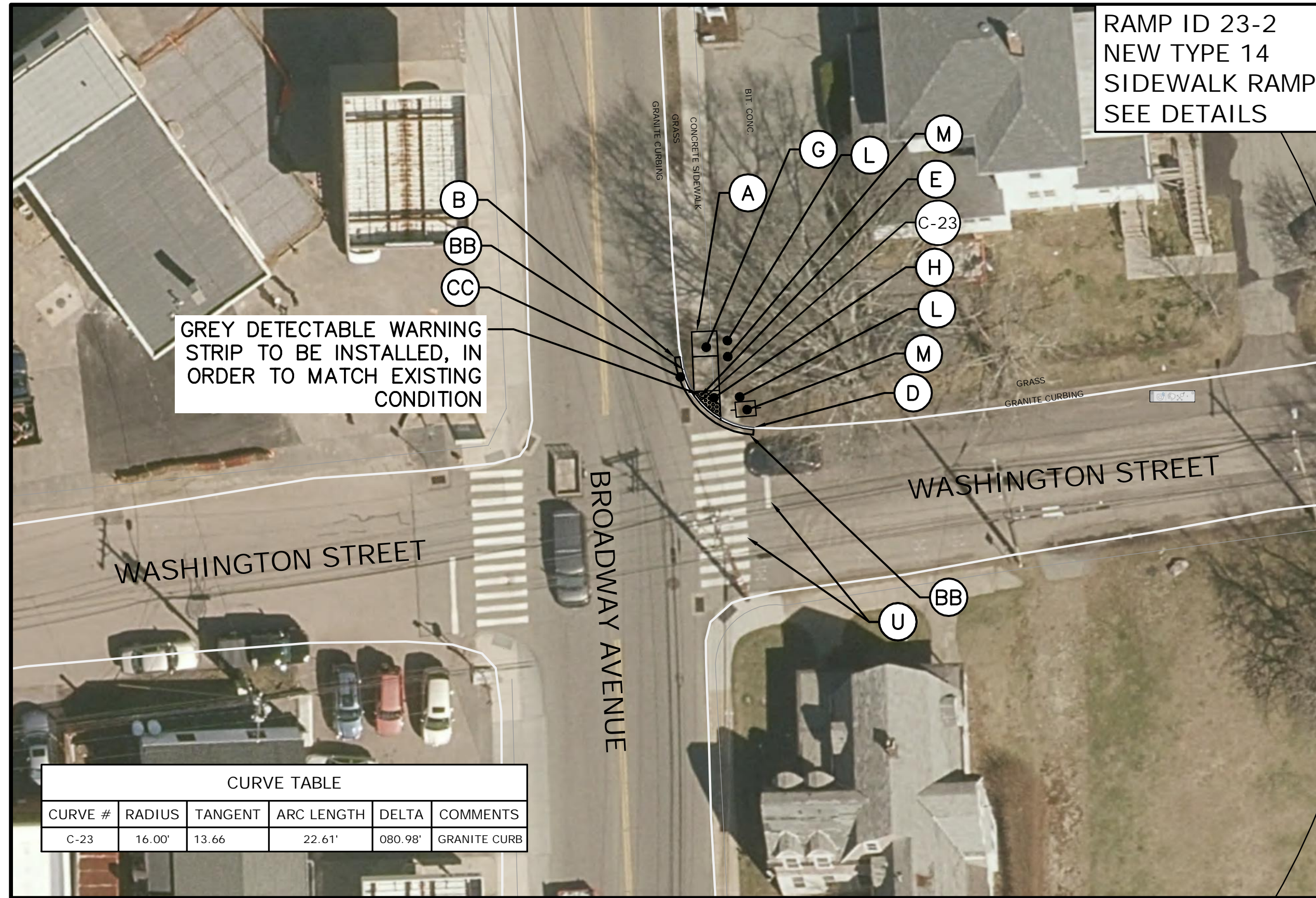
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UNLESS OTHERWISE NOTED OR CHANGED BY REPRODUCTION

Town of Stonington, CT
Department of Public Works

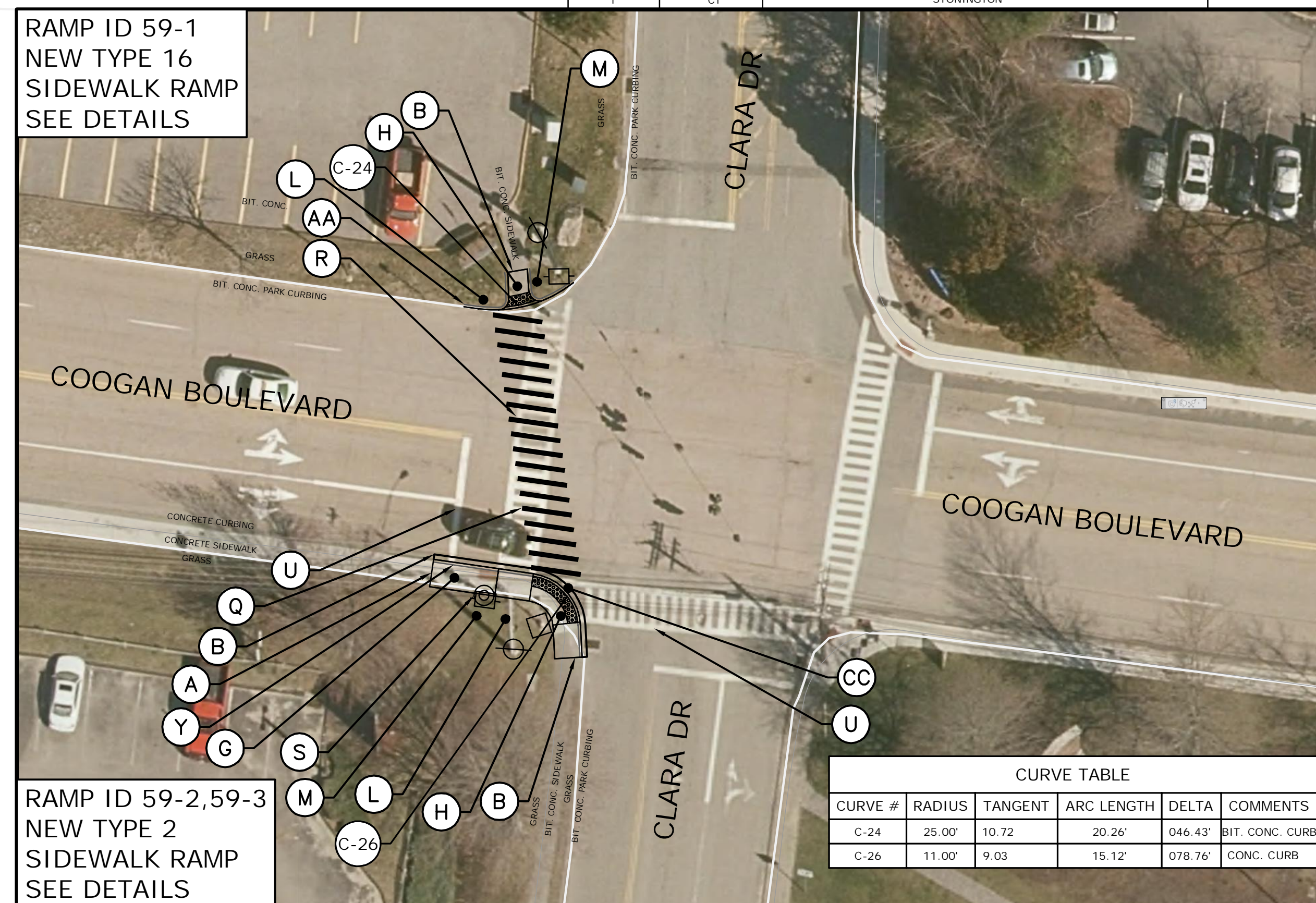
ADA SIDEWALK RAMP COMPLIANCE

Sheet Name
SR 2

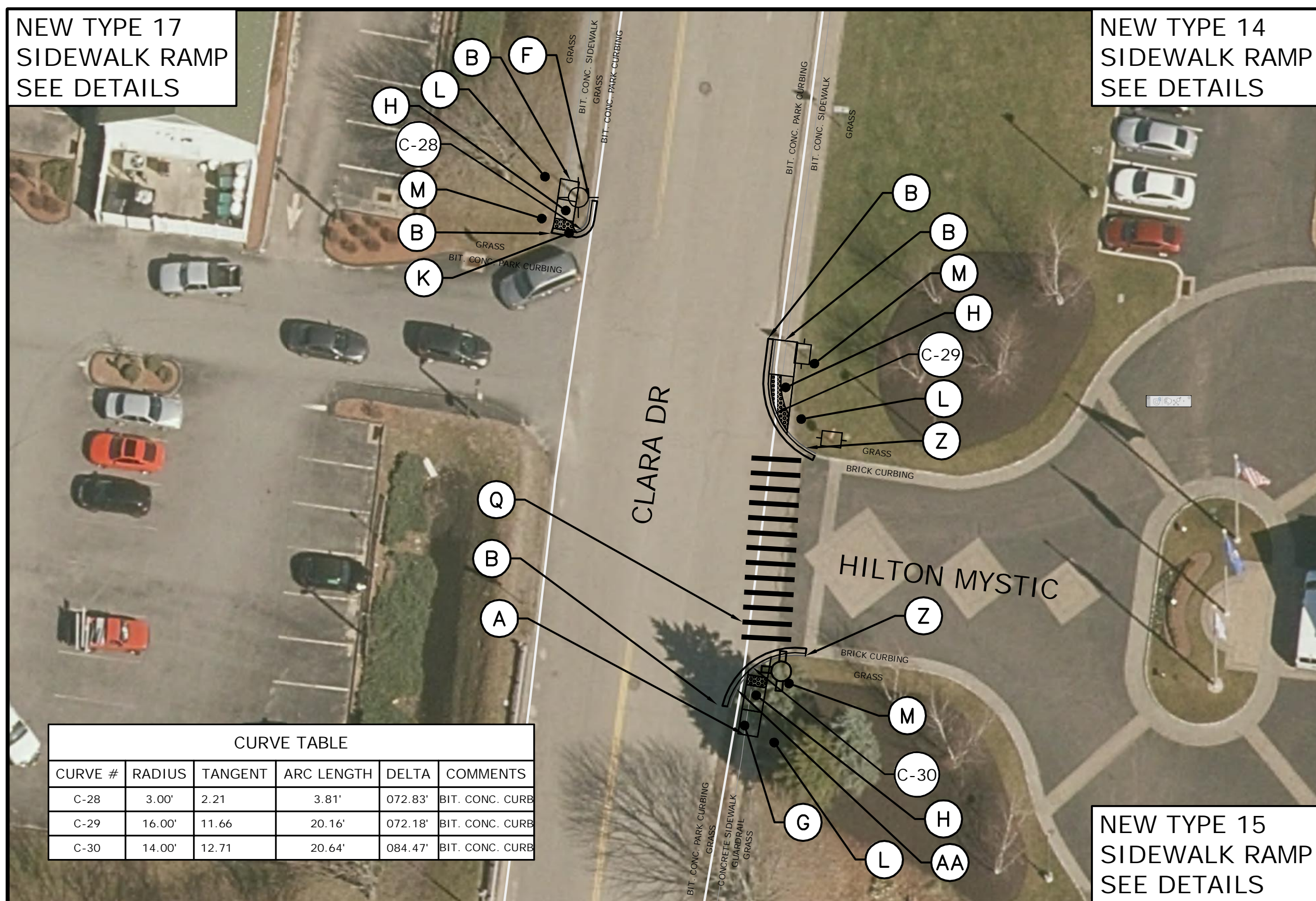
Town Project No.
ITB 2019-002



WASHINGTON ST. AND BROADWAY AVE.



CLARA DRIVE AND COOGAN BOULEVARD



CLARA DRIVE AND HILTON MYSTIC/PRIVATE DRIVE

CONSTRUCTION NOTES

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- (B) — SAWCUT BITUMINOUS CONCRETE
- (C) — 6" GRANITE STONE CURBING
- (D) — 6" GRANITE CURVED STONE CURBING
- (E) — RESET GRANITE STONE CURBING
- (F) — 4" BITUMINOUS CONCRETE PARK CURBING
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Revisions	By	Date	Notice

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Sign-Offs	By	Date
Drawn	J.D.	04/19
Checked	J.R.	04/19
Recommended		
Approved		
Recorded		

ADA RAMP REPLACEMENT PROJECT
STONINGTON, CONNECTICUT

BETA Proj. No. 6108 ITB 2019-002 April 2019

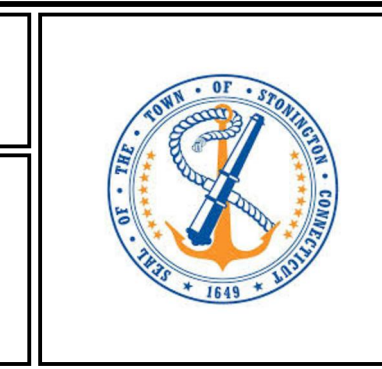
BETA
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1010 WETHERSFIELD AVE.
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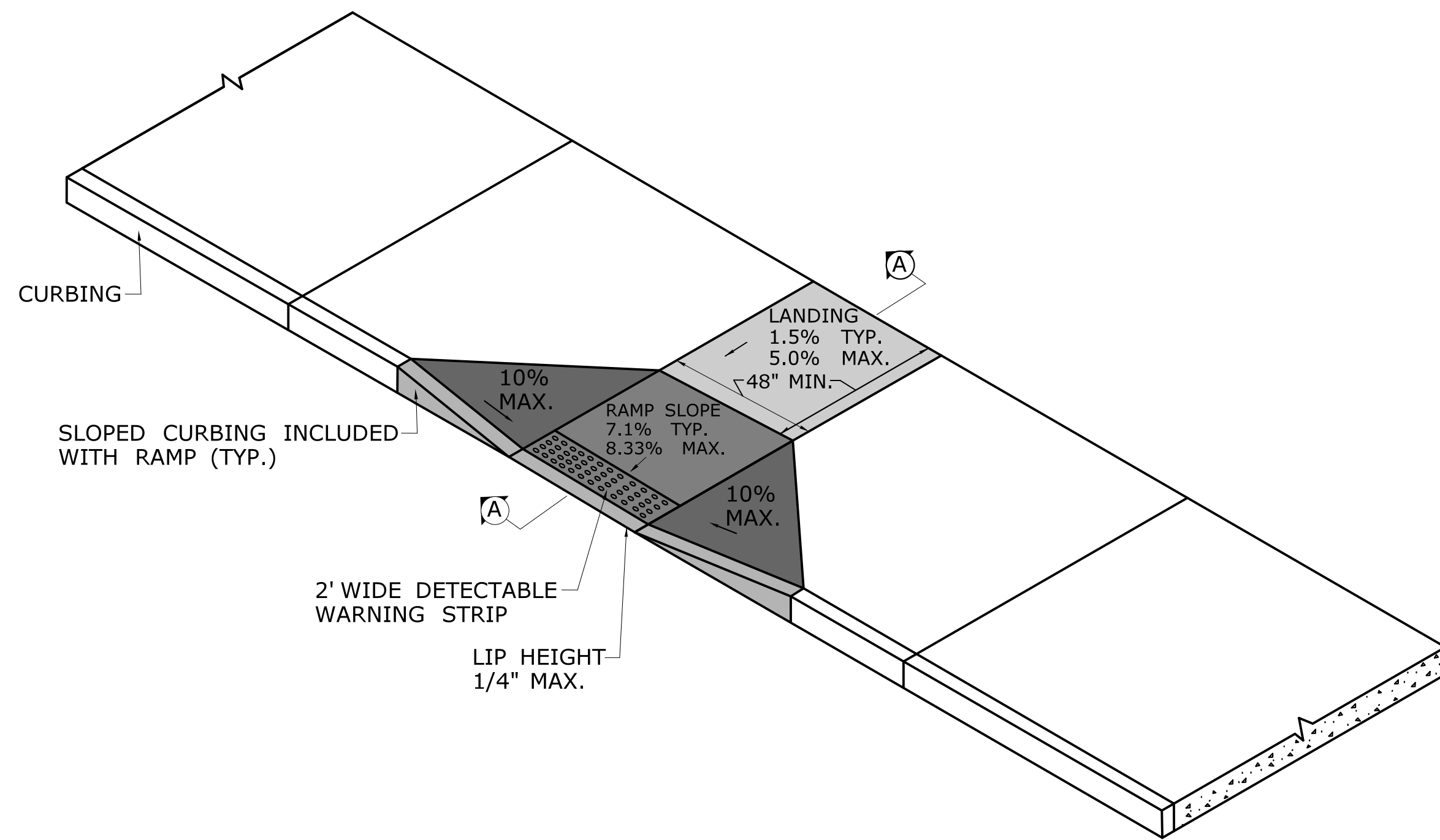
Town of Stonington, CT
Department of Public Works

ADA SIDEWALK RAMP COMPLIANCE



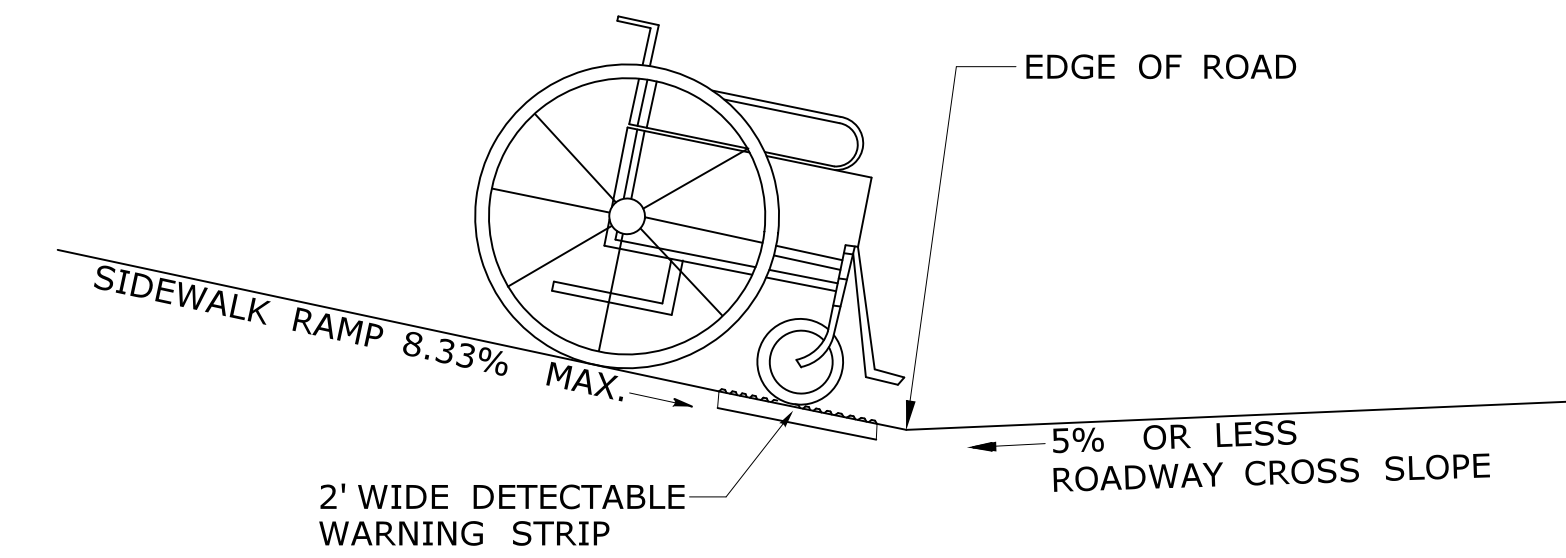
Sheet Name
SR 3

Town Project No.
ITB 2019-002

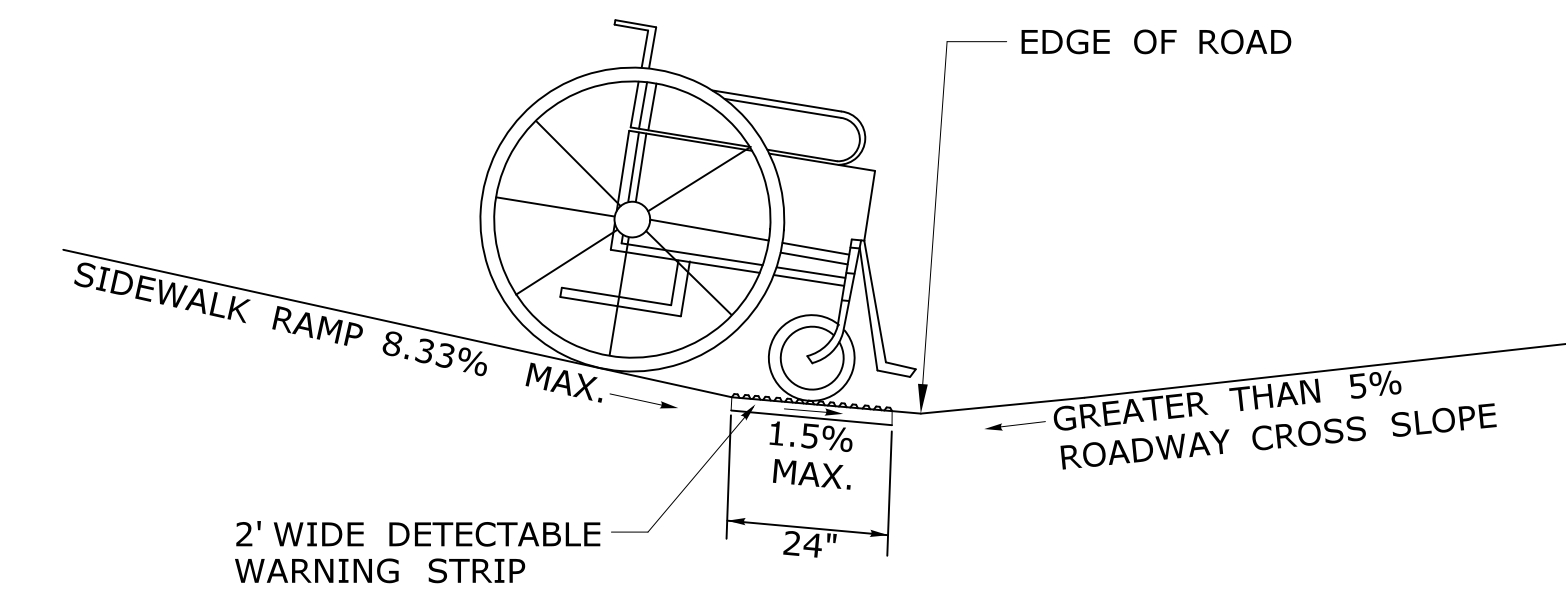


**PERPENDICULAR
SIDEWALK RAMP**

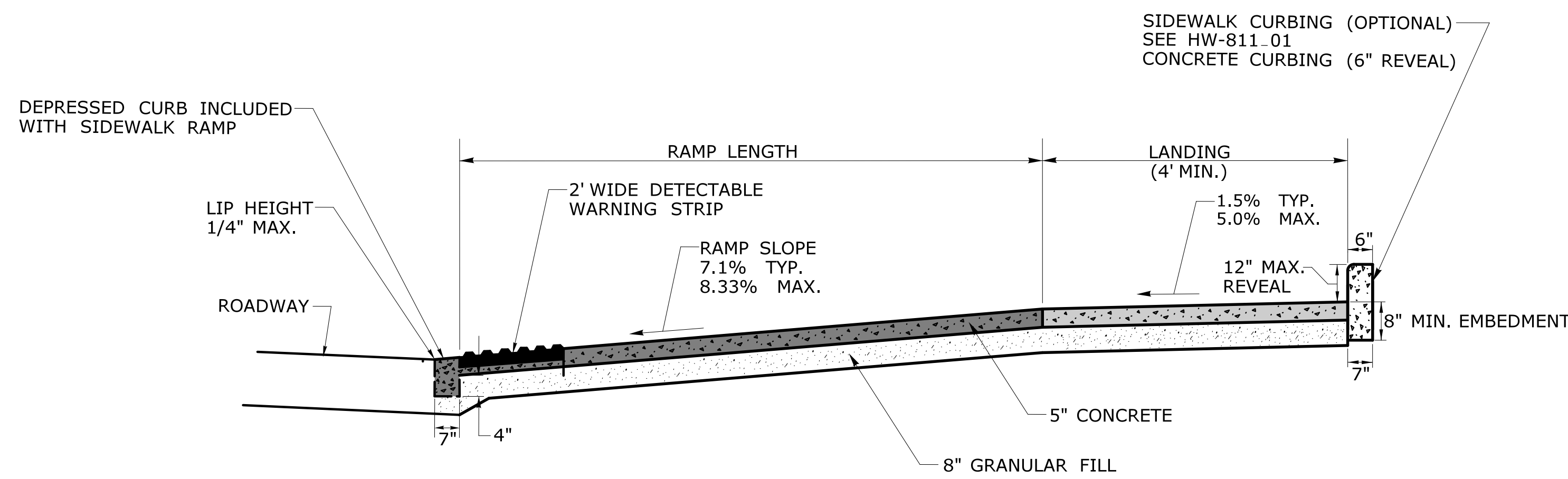
- GENERAL NOTES:**
1. SIDEWALK RAMPS SHALL HAVE A COARSE BROOM FINISH TRAVERSE TO THE SLOPE OF THE RAMP.
 2. VERTICAL SURFACE DISCONTINUITIES AT JOINTS SHALL NOT EXCEED 1/4 INCH.
 3. REMOVAL OF EXISTING SIDEWALK FOR NEW RAMP INSTALLATIONS SHALL BE TO THE NEAREST EXPANSION OR CONTRACTION JOINT.
 4. THE RUNNING SLOPE OF THE CURB RAMP SHALL BE 8.3 PERCENT MAXIMUM BUT SHALL NOT REQUIRE THE RAMP LENGTH TO EXCEED 15 FEET.



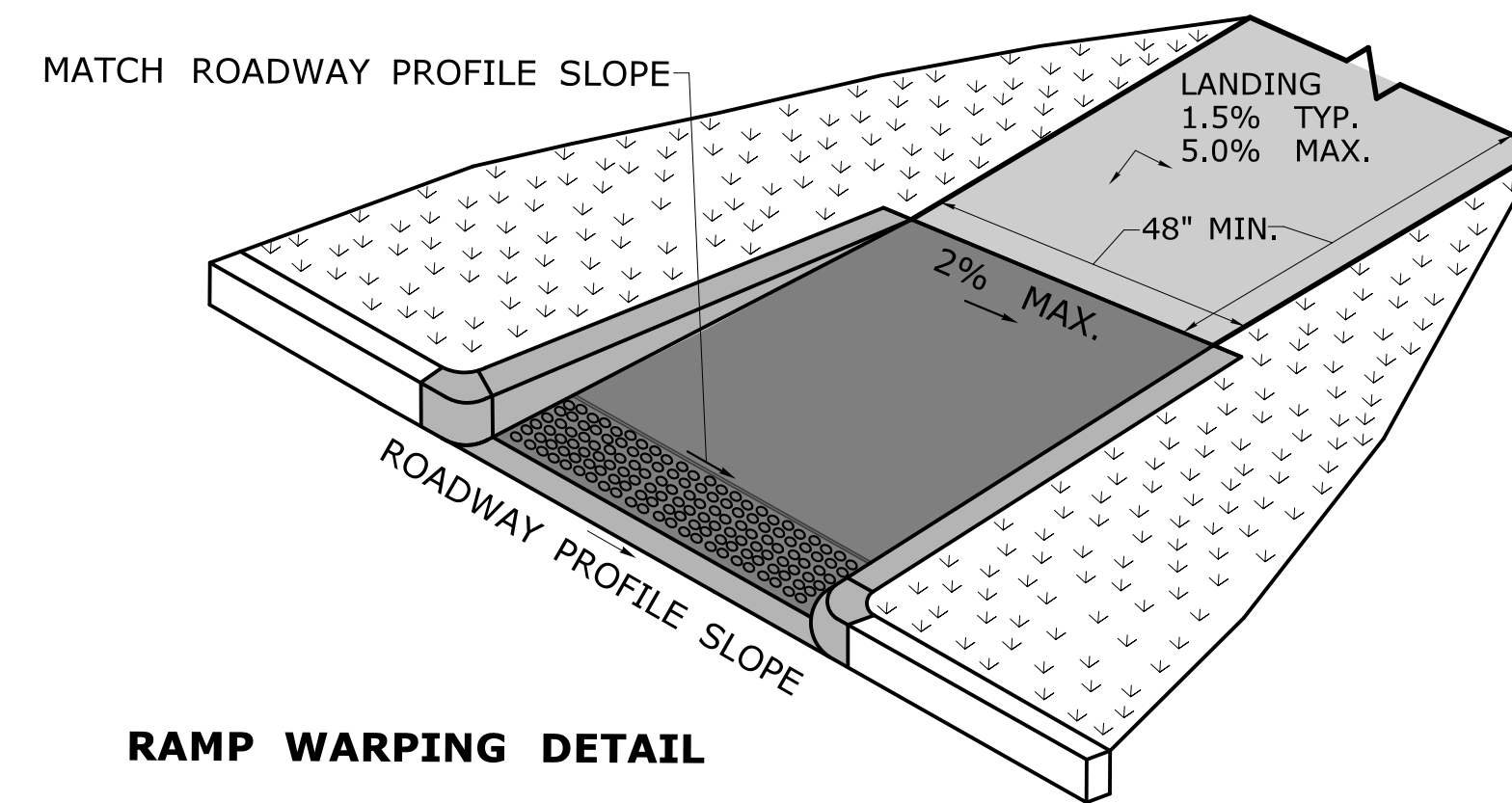
**SIDEWALK RAMP GRADE AT
ROADWAY CROSS SLOPE OF 5% OR LESS**



**SIDEWALK RAMP GRADE AT
ROADWAY CROSS SLOPE OF GREATER THAN 5%**



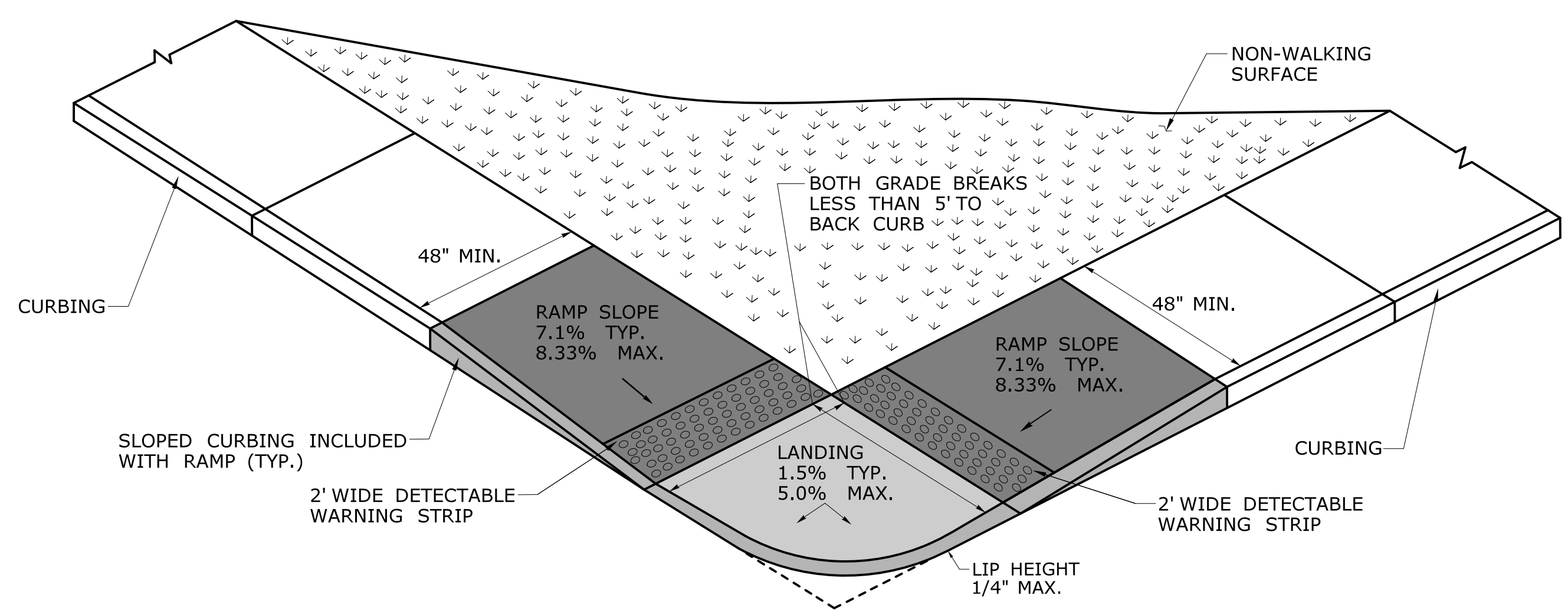
SECTION AA



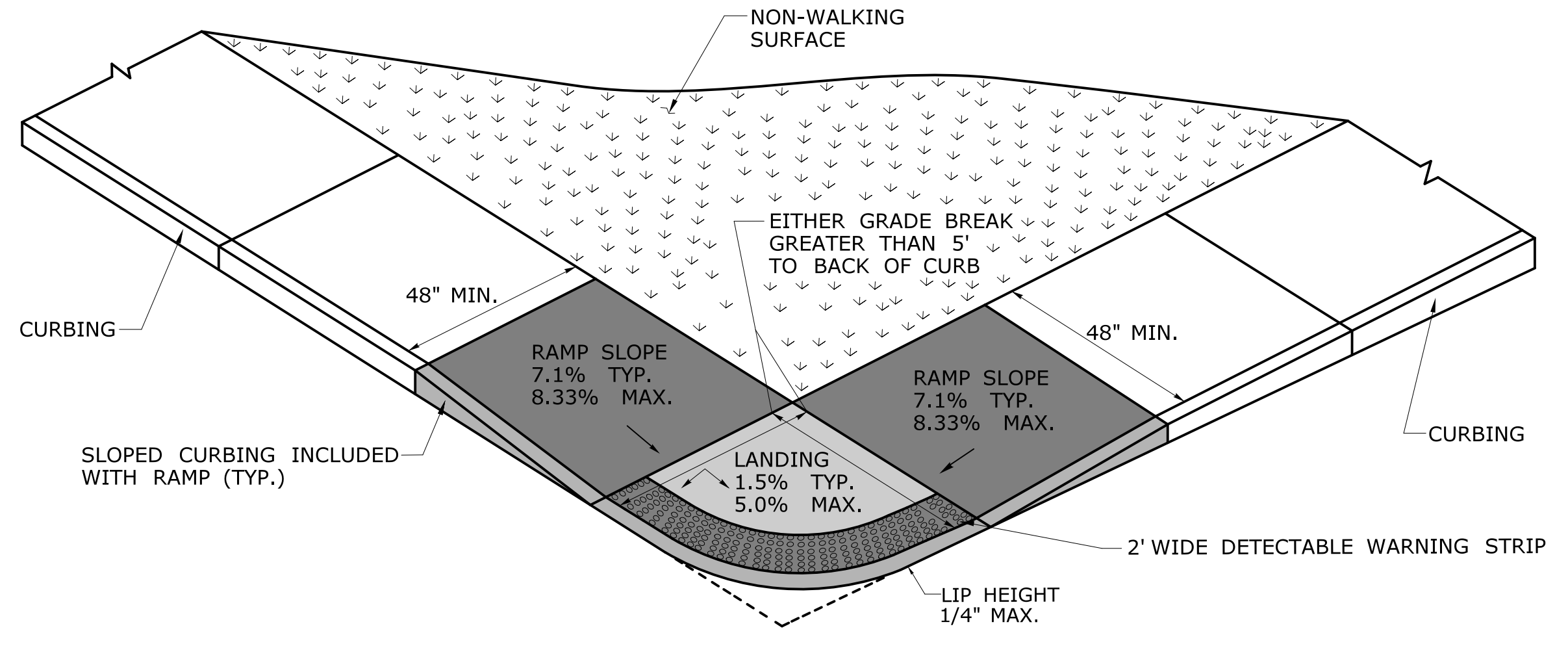
RAMP WARPING DETAIL

1. TRANSITION SIDEWALK RAMP TO MATCH ROADWAY PROFILE AS GRADUALLY AS POSSIBLE. DO NOT EXCEED 3% PER FOOT CROSS SLOPE RATE OF CHANGE WHEN TRANSITIONING TO ROADWAY PROFILE.
2. COMPLETE TRANSITION TO ROADWAY PROFILE BEHIND DETECTABLE WARNING SURFACE.

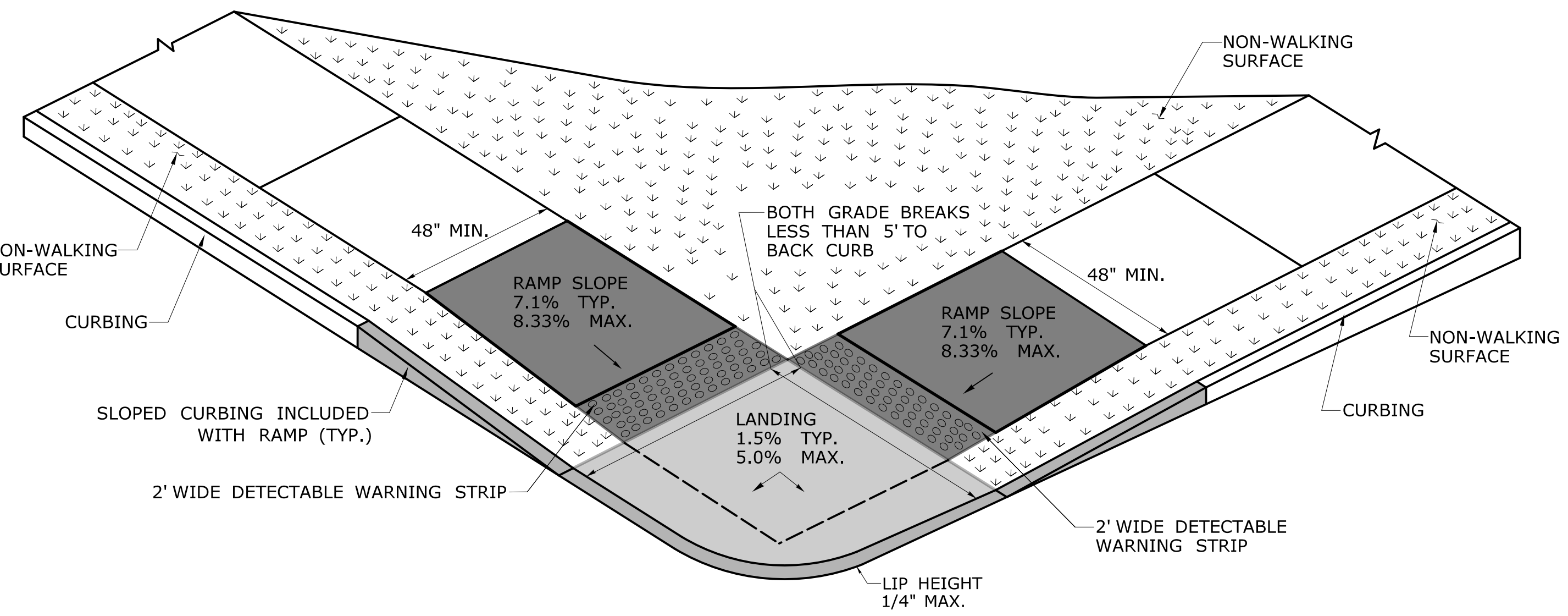
THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.		DESIGNER/DRAFTER: J.D. CHECKED BY: J.R.	STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION	SIGNATURE/BLOCK: OFFICE OF ENGINEERING APPROVED BY:	PROJECT TITLE: ADA SIDEWALK RAMP COMPLIANCE PROJECT	TOWN: STONINGTON	PROJECT NO. ITB-2019-002 DRAWING NO. DET-1 SHEET NO. 8
REV.	DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 4/29/2019	Filename: ...CTDOT_HIGHWAY_GD_[1-28-19].dgn		



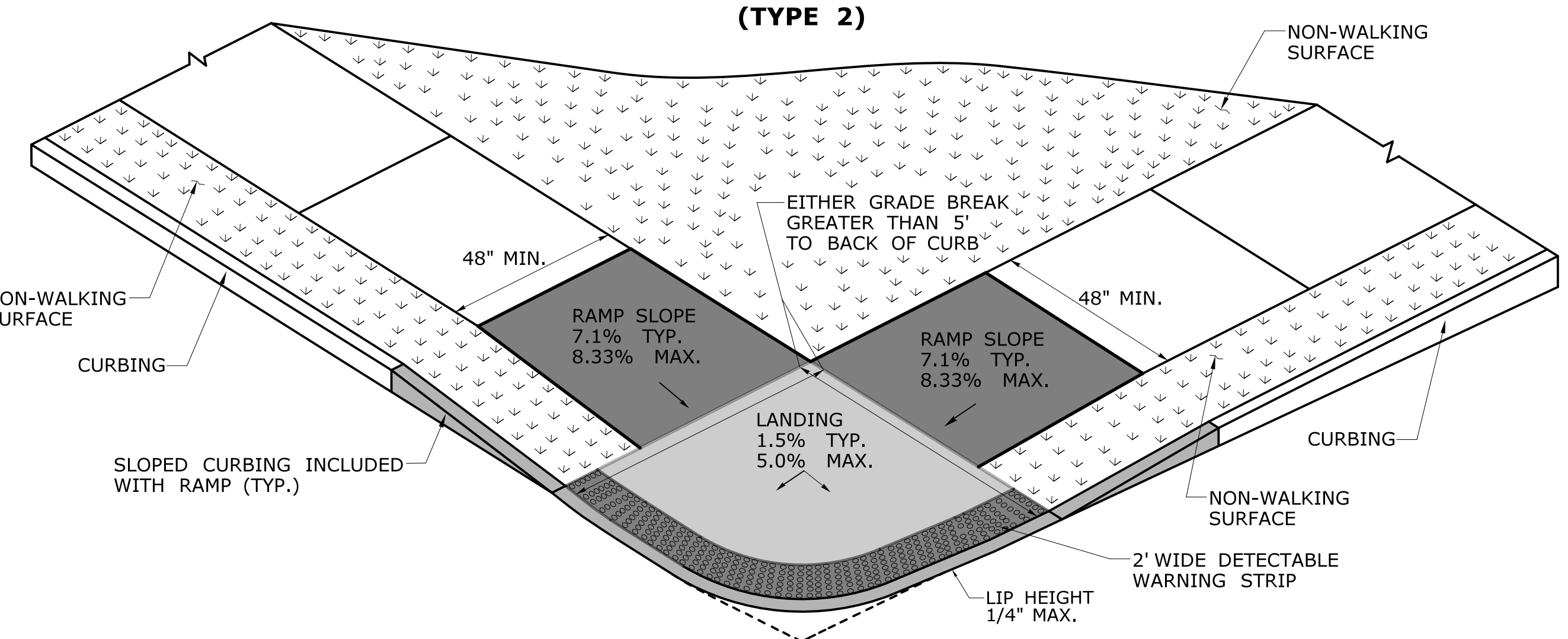
PERPENDICULAR RAMP WITH A GRADE BREAK OF 5' OR LESS (TYPE 1)



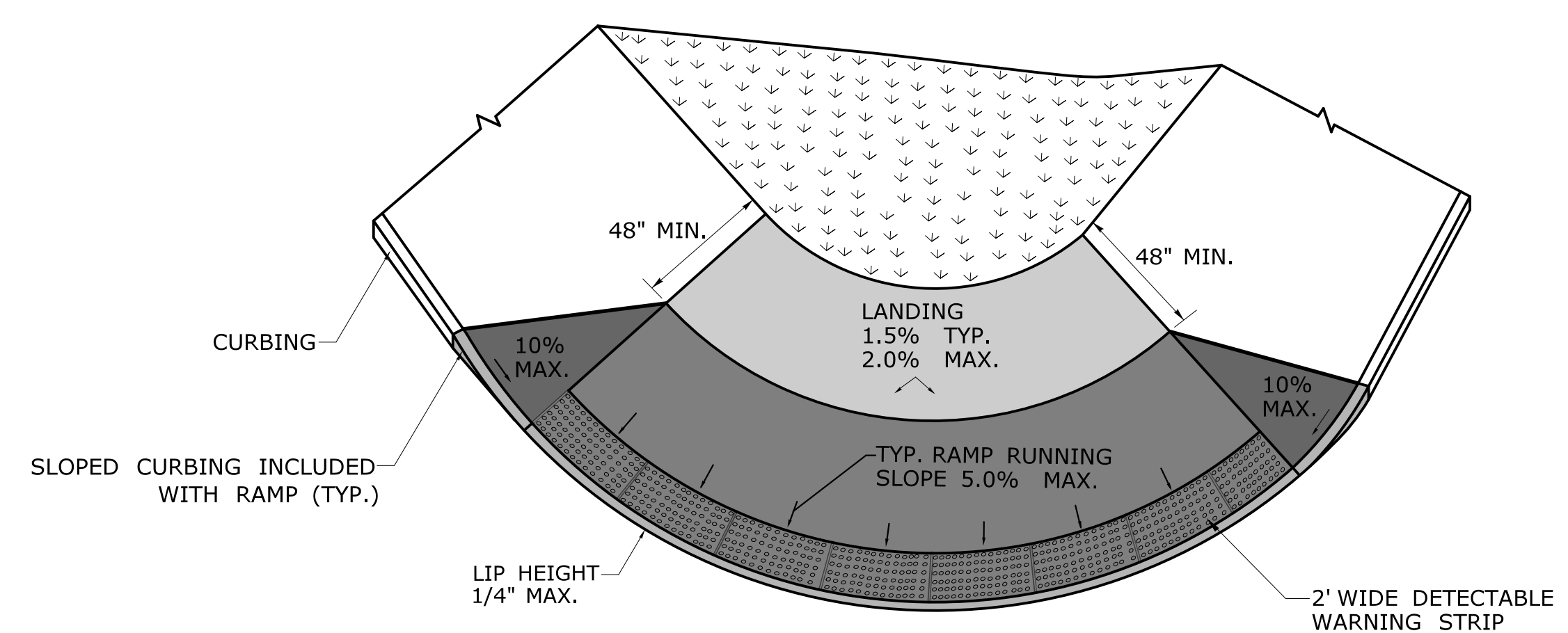
BLENDED TRANSITION WITH GRADE BREAK GREATER THAN 5' (TYPE 2)



PERPENDICULAR RAMP WITH A GRADE BREAK TO BACK OF CURB OF 5' OR LESS (TYPE 3)



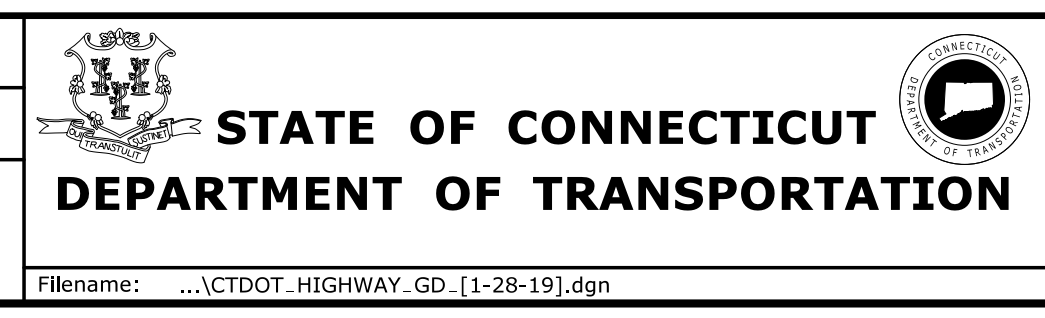
BLENDED TRANSITION TO BACK OF CURB GREATER THAN 5' (TYPE 4)



BLENDED TRANSITION WITH LANDING AT TOP (TYPE 5)

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

DESIGNER/DRAFTER: J.D.
 CHECKED BY: J.R.

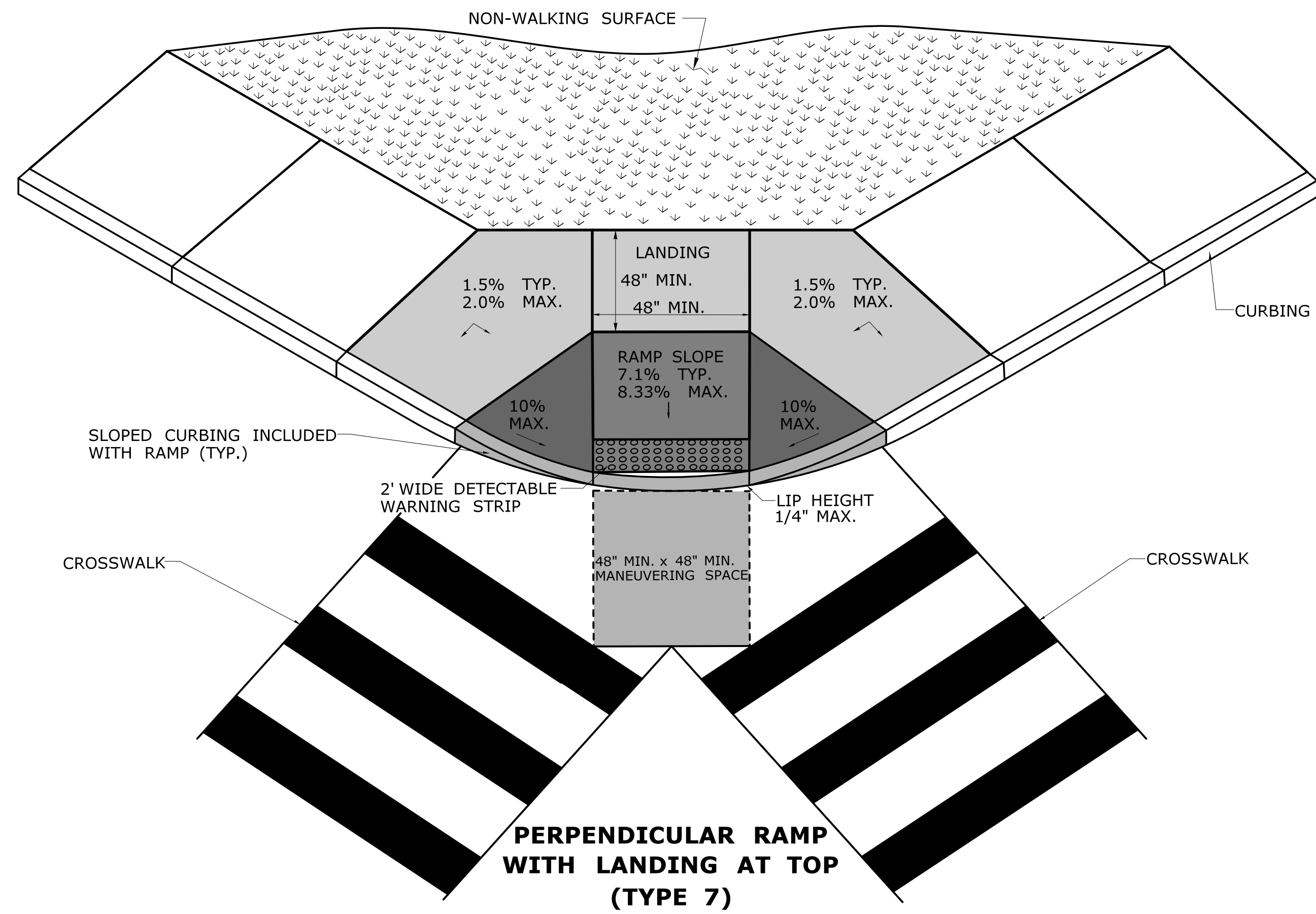
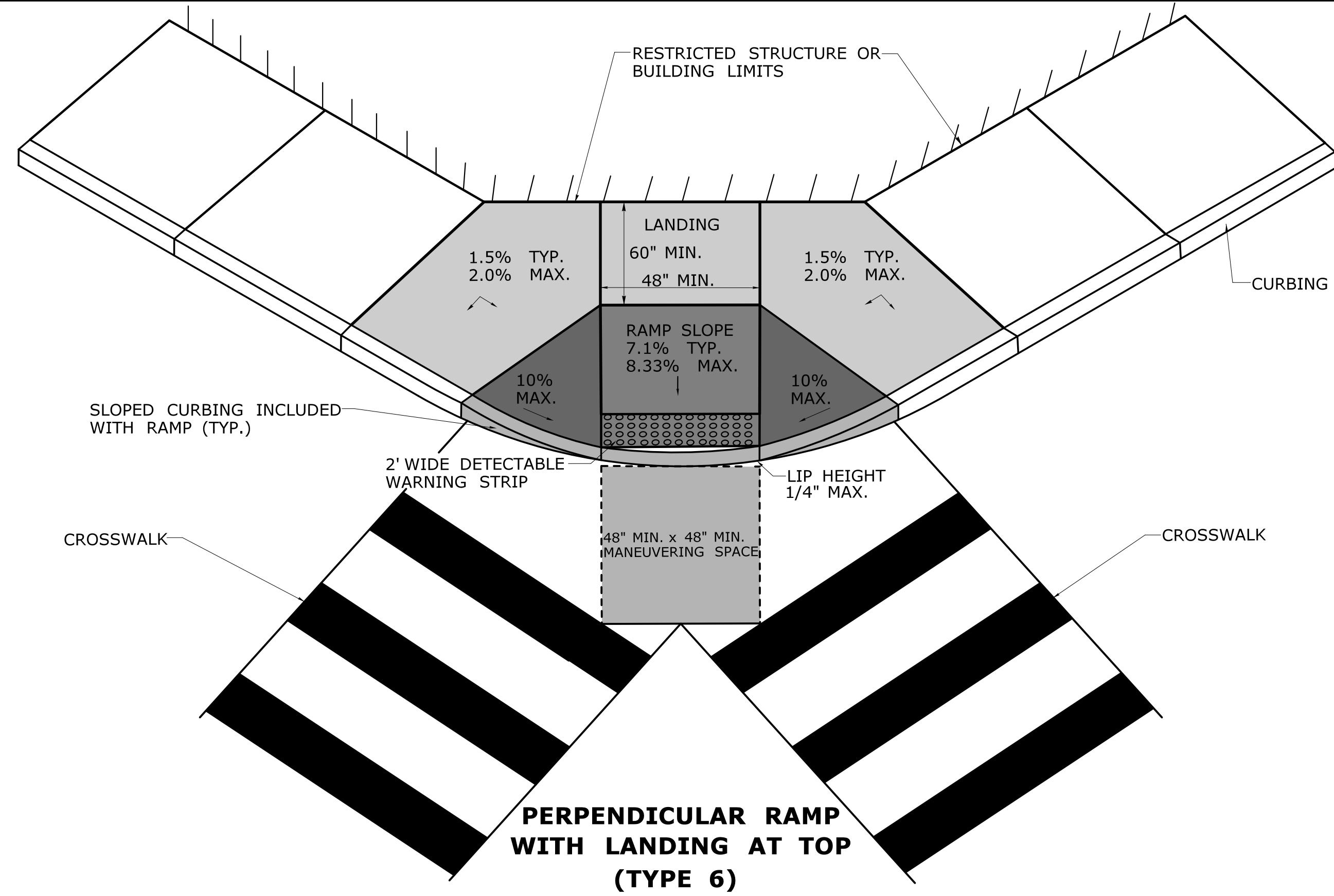


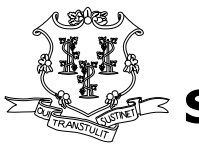

SIGNATURE/BLOCK:
OFFICE OF ENGINEERING
 APPROVED BY:

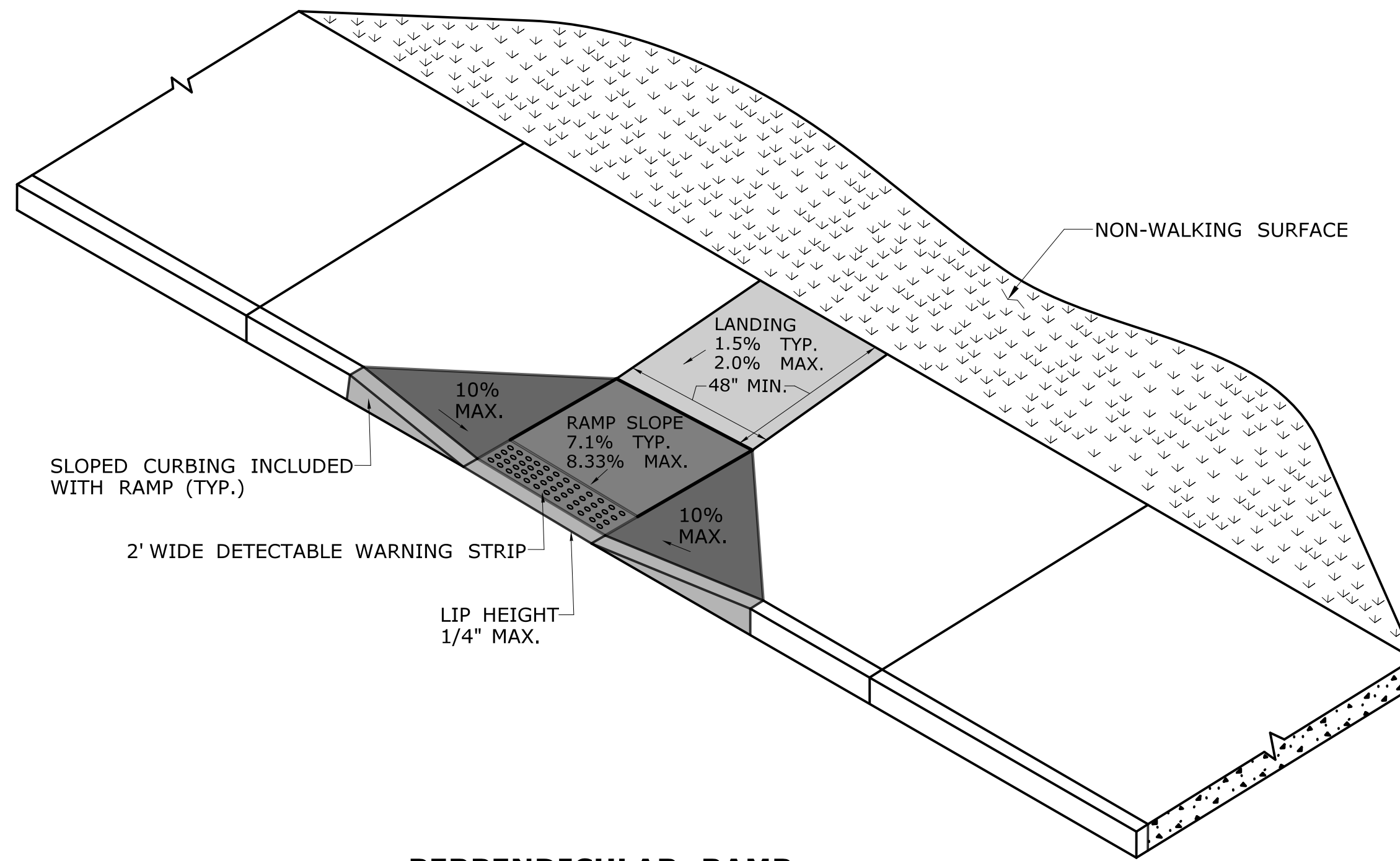
PROJECT TITLE:
ADA SIDEWALK RAMP COMPLIANCE PROJECT

TOWN: **STONINGTON**
 DRAWING TITLE:
CONCRETE SIDEWALK RAMPS SHEET 2

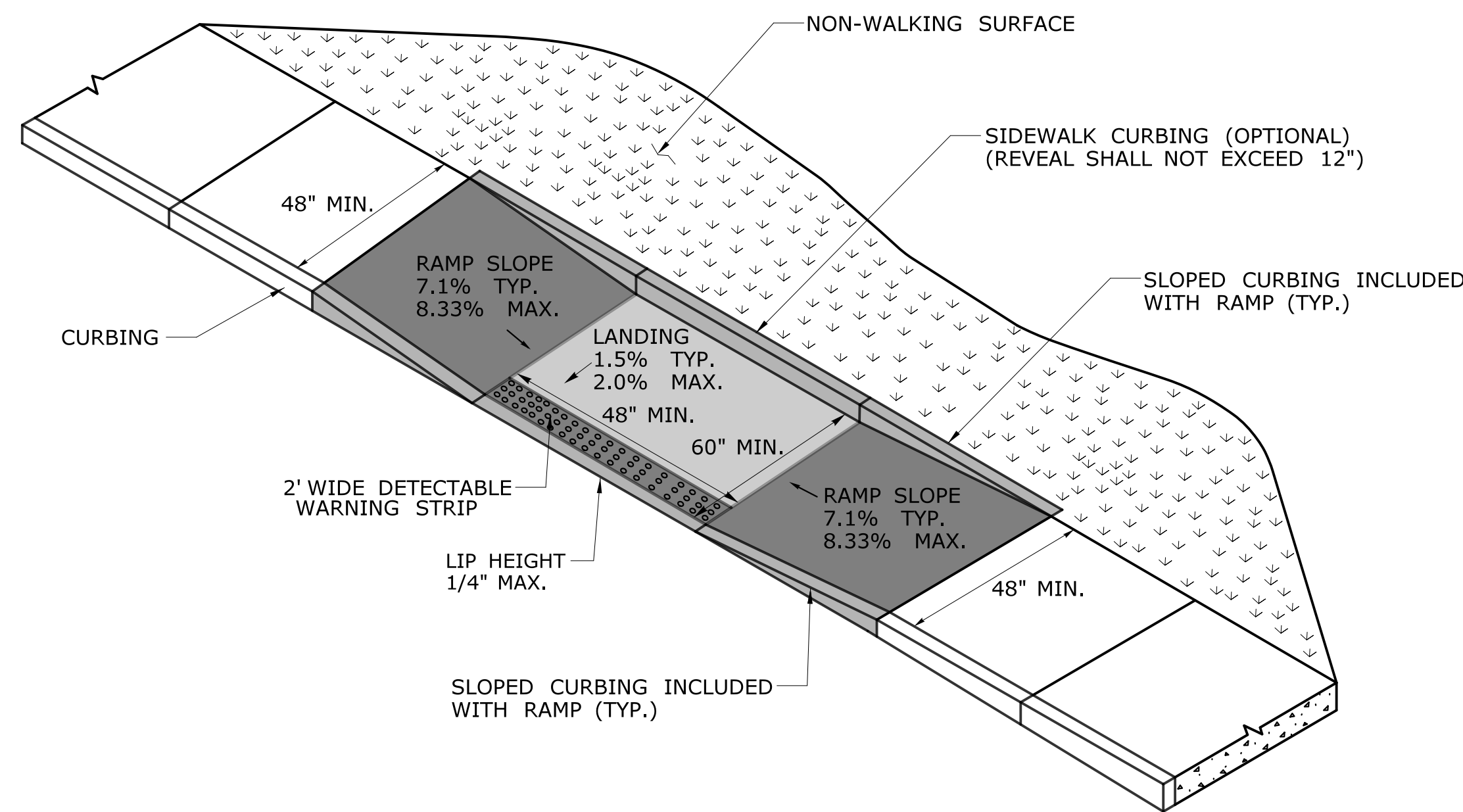
PROJECT NO.: **ITB-2019-002**
 DRAWING NO.: **DET-2**
 SHEET NO.: **9**



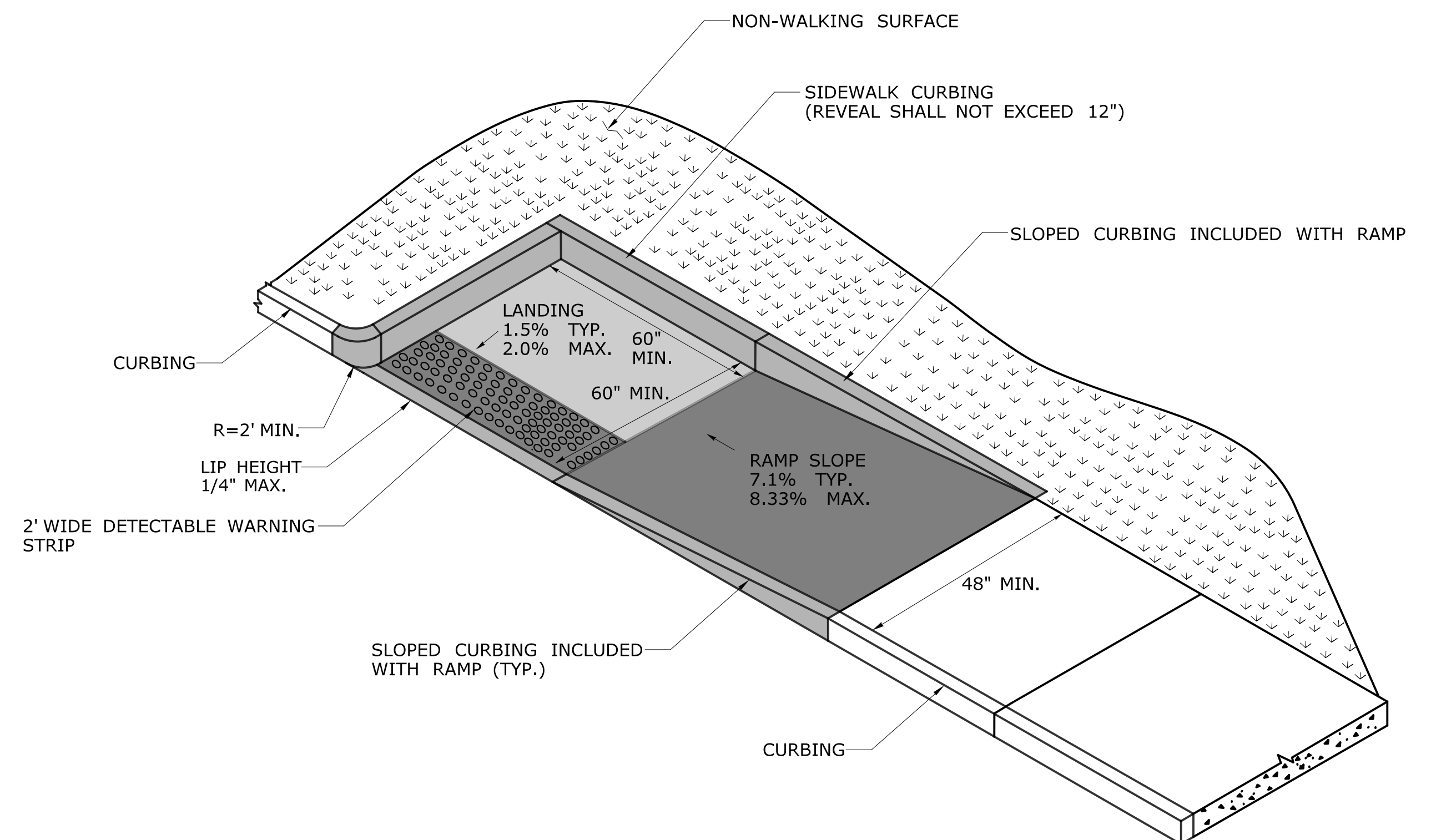
REV.	DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 4/29/2019	DESIGNER/DRAFTER: J.D.	CHECKED BY: J.R.	 STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION	 SIGNATURE/ BLOCK: OFFICE OF ENGINEERING APPROVED BY:	PROJECT TITLE: ADA SIDEWALK RAMP COMPLIANCE PROJECT	TOWN: STONINGTON	PROJECT NO. ITB-2019-002
										DRAWING TITLE: CONCRETE SIDEWALK RAMPS SHEET 3	DRAWING NO. DET-3
							Filename: ...CTDOT_HIGHWAY_GD_[1-28-19].dgn				SHEET NO. 10



PERPENDICULAR RAMP WITH 48" BY-PASS (TYPE 8)



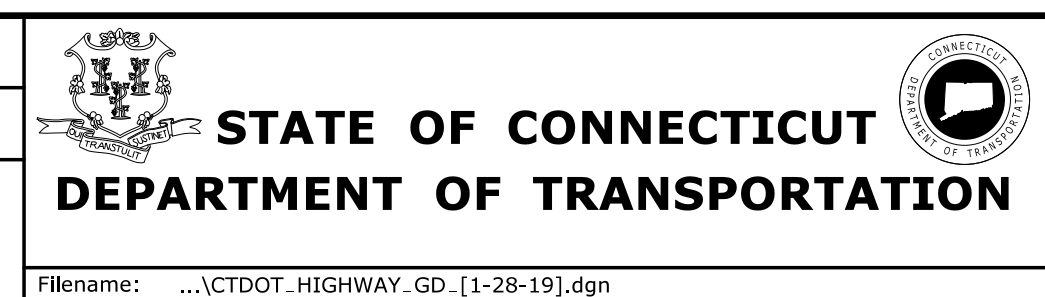
PARALLEL RAMP WITHOUT NON-WALKING SURFACE (TYPE 9)



PARALLEL RAMP WITH LANDING AT BOTTOM ON CORNER (TYPE 10)

REV.	DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 4/29/2019

DESIGNER/DRAFTER: J.D.
 CHECKED BY: J.R.

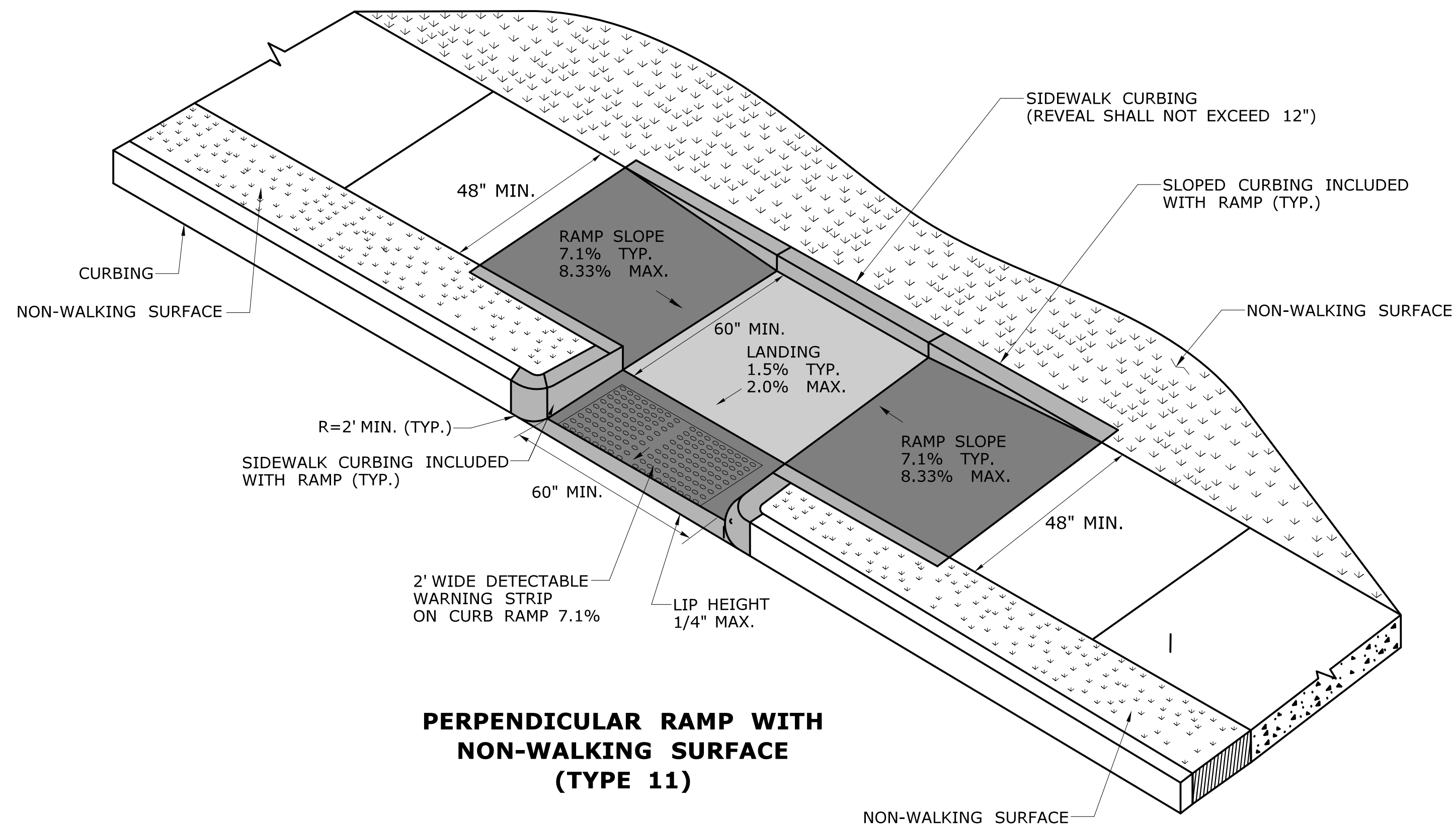


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OFFICE OF ENGINEERING
 APPROVED BY:

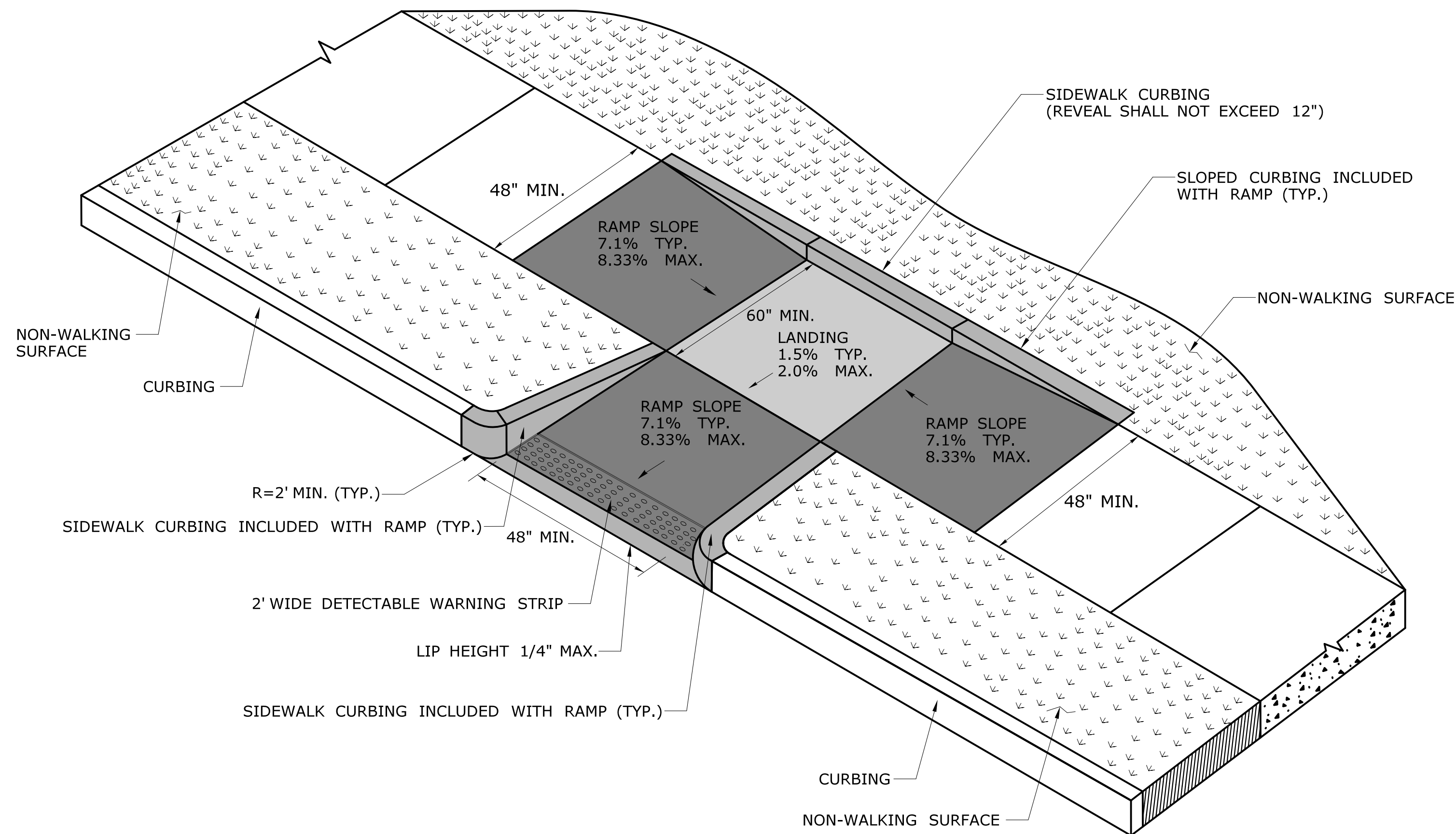
PROJECT TITLE:
ADA SIDEWALK RAMP COMPLIANCE PROJECT

TOWN: **STONINGTON**
 DRAWING TITLE:
CONCRETE SIDEWALK RAMPS SHEET 4

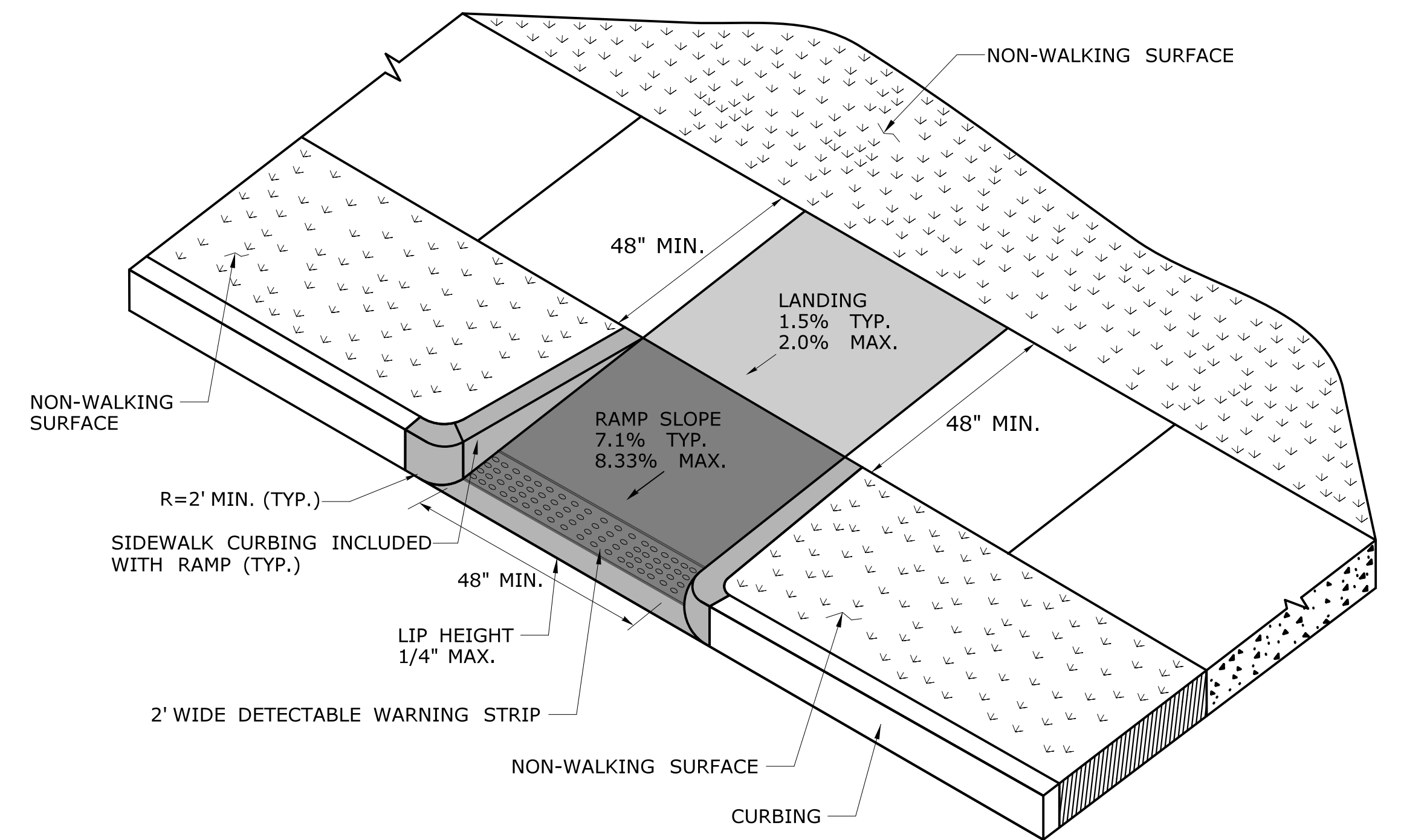
PROJECT NO.: **ITB-2019-002**
 DRAWING NO.: **DET-4**
 SHEET NO.: **11**



**PERPENDICULAR RAMP WITH
NON-WALKING SURFACE
(TYPE 11)**

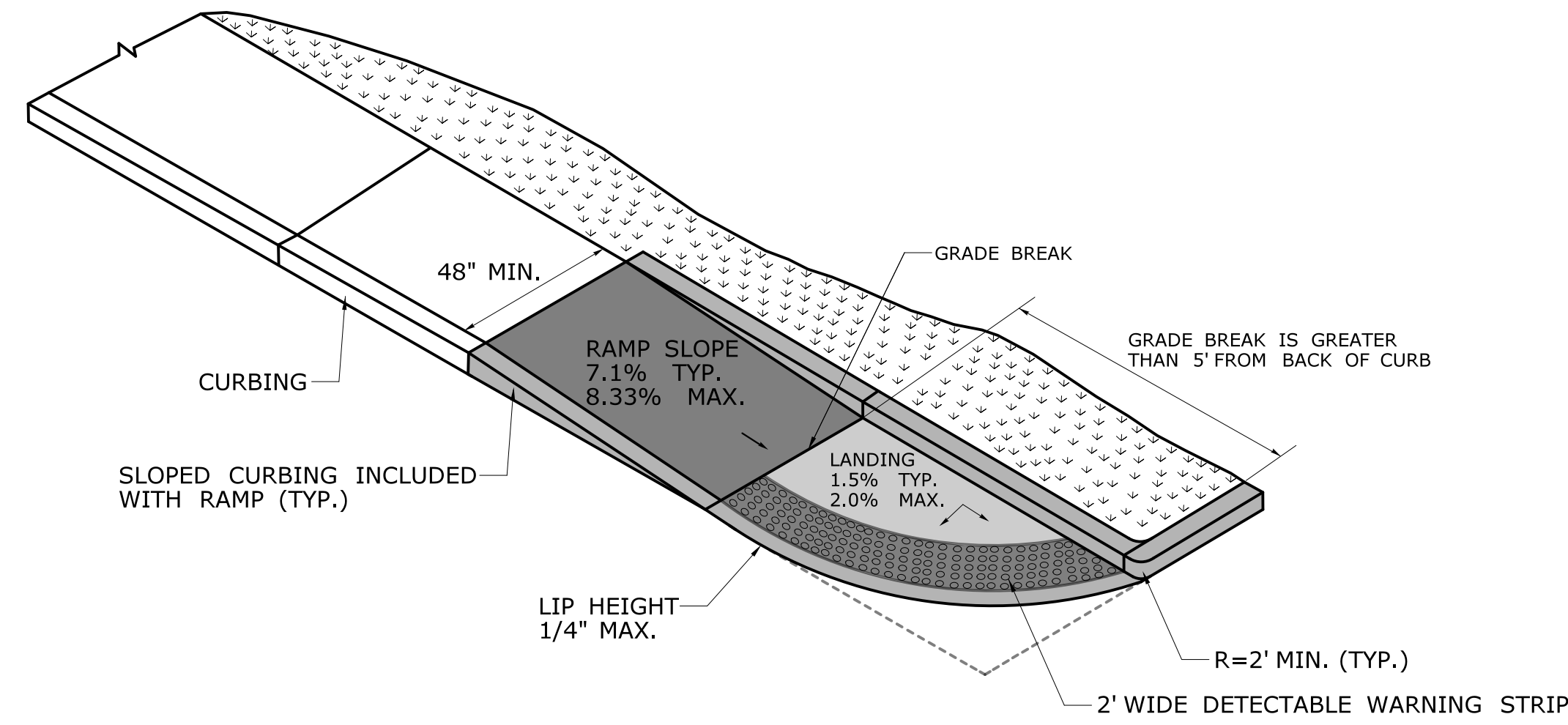


**PERPENDICULAR RAMP WITH SIDEWALK CURB
AND NON-WALKING SURFACE
(TYPE 12)**

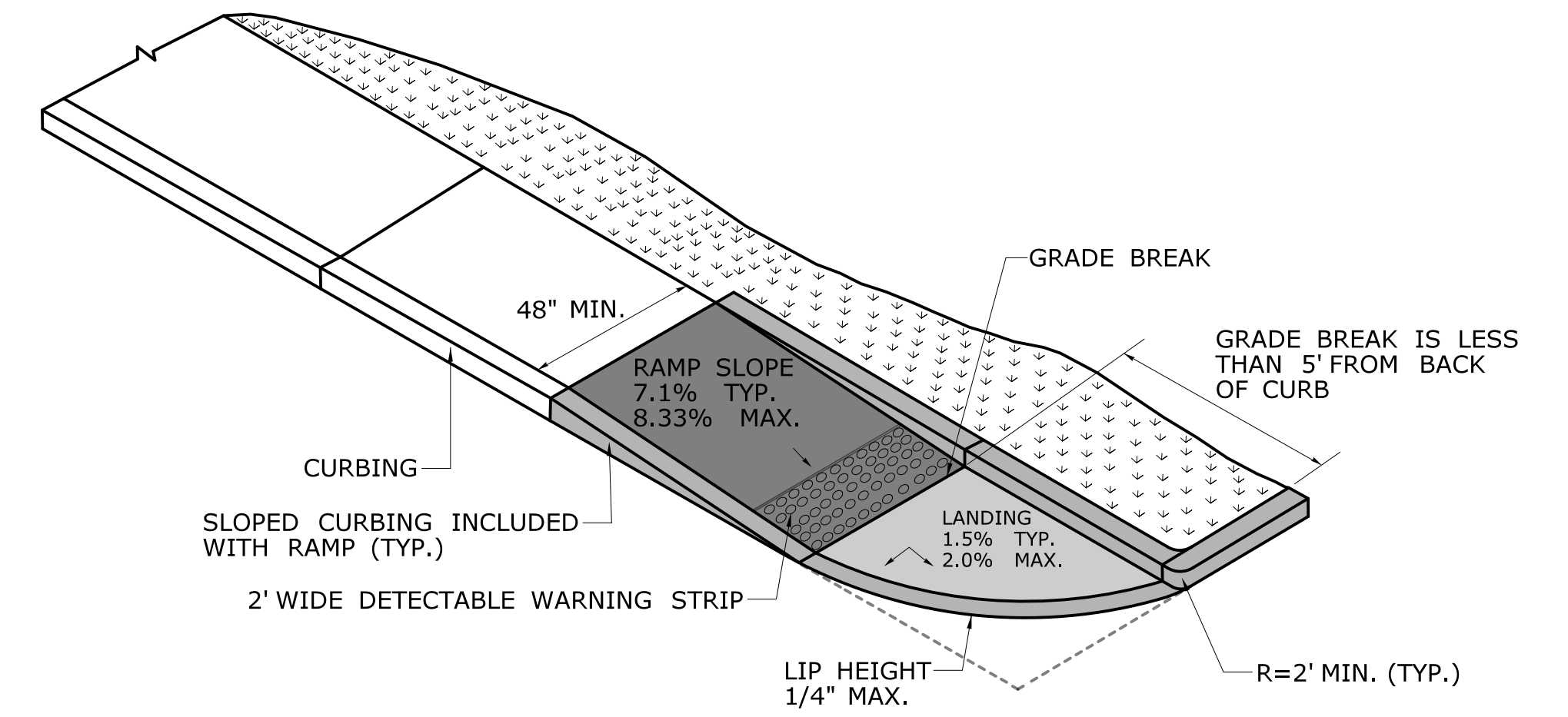


**PERPENDICULAR RAMP
WITH NON-WALKING SURFACE
(TYPE 13)**

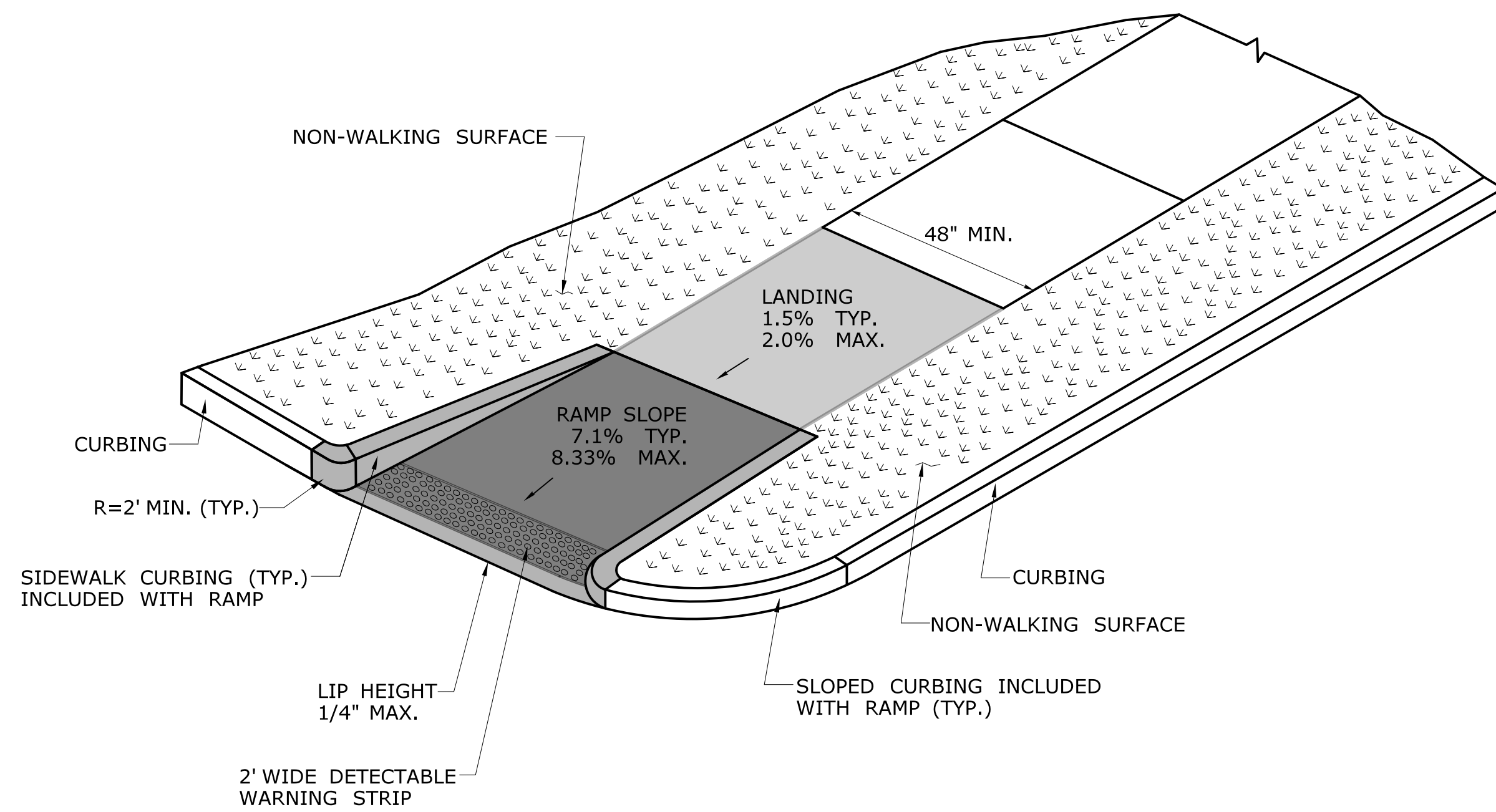
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REV. DATE REVISION DESCRIPTION SHEET NO. Plotted Date: 4/29/2019	FILENAME: ...CTDOT_HIGHWAY_GD_[1-28-19].dgn			DRAWING TITLE: CONCRETE SIDEWALK RAMPS SHEET 5	SHEET NO. 12		



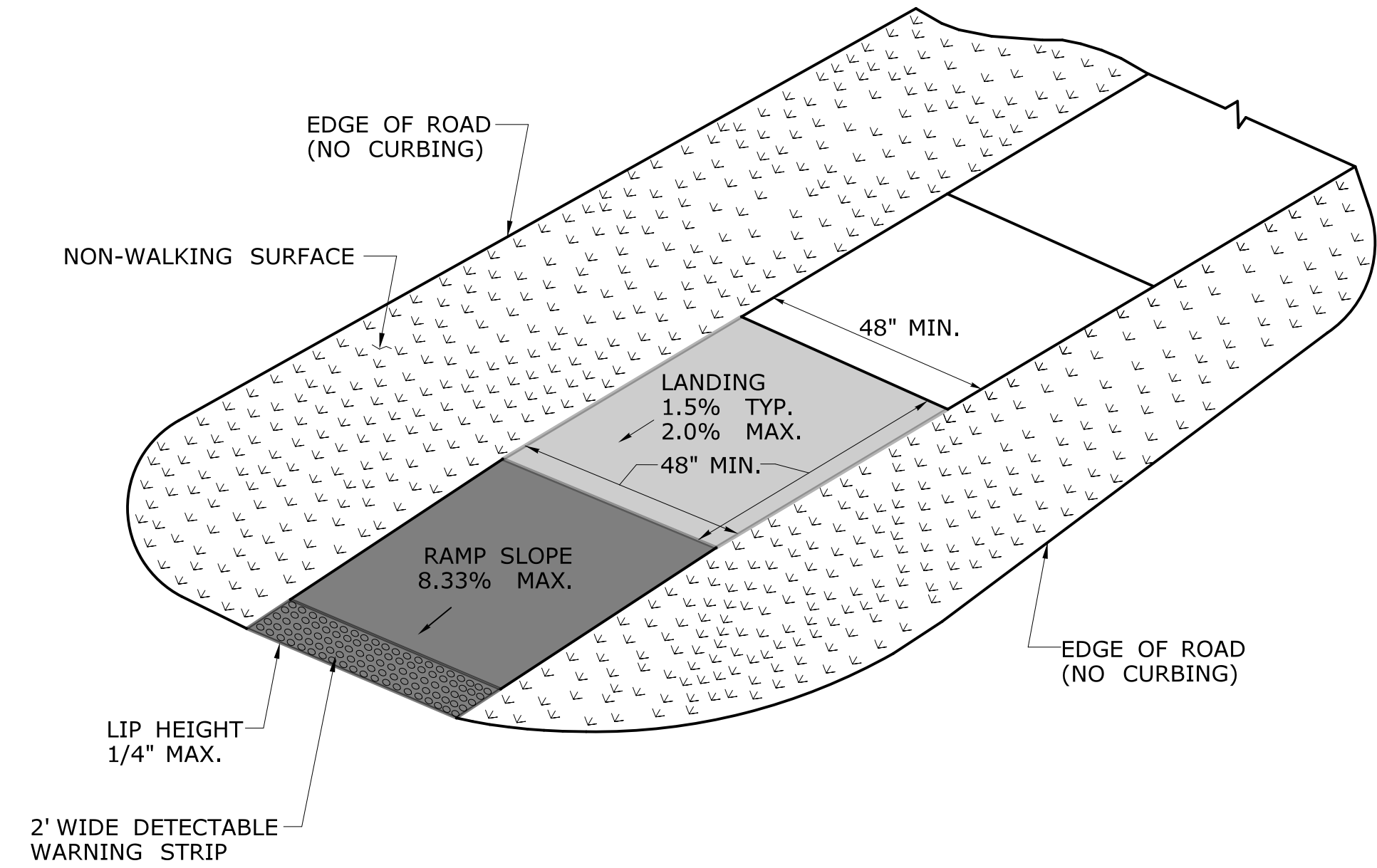
**SINGLE DIRECTION RAMP
WITHOUT NON-WALKING SURFACE
GRADE BREAK GREATER THAN 5'
(TYPE 14)**



**SINGLE DIRECTION RAMP
WITHOUT NON-WALKING SURFACE
GRADE BREAK LESS THAN 5'
(TYPE 15)**



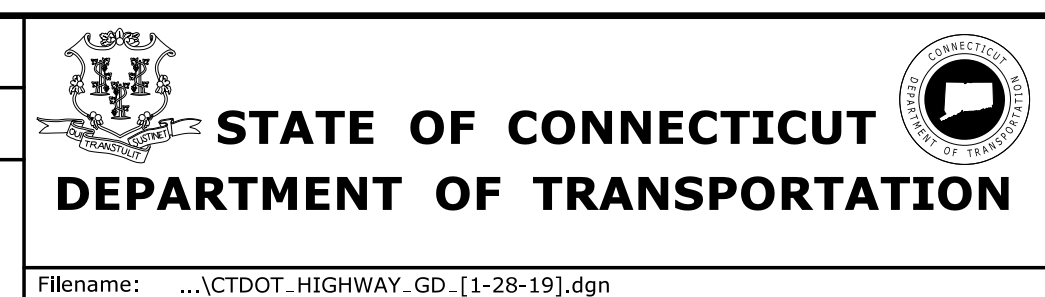
**SINGLE DIRECTION - RETURN CURB
WITH NON-WALKING SURFACE
(TYPE 16)**



**SINGLE DIRECTION - NO CURB
WITH NON-WALKING SURFACE
(TYPE 17)**

REV.	DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 4/29/2019

DESIGNER/DRAFTER:
J.D.
CHECKED BY:
J.R.

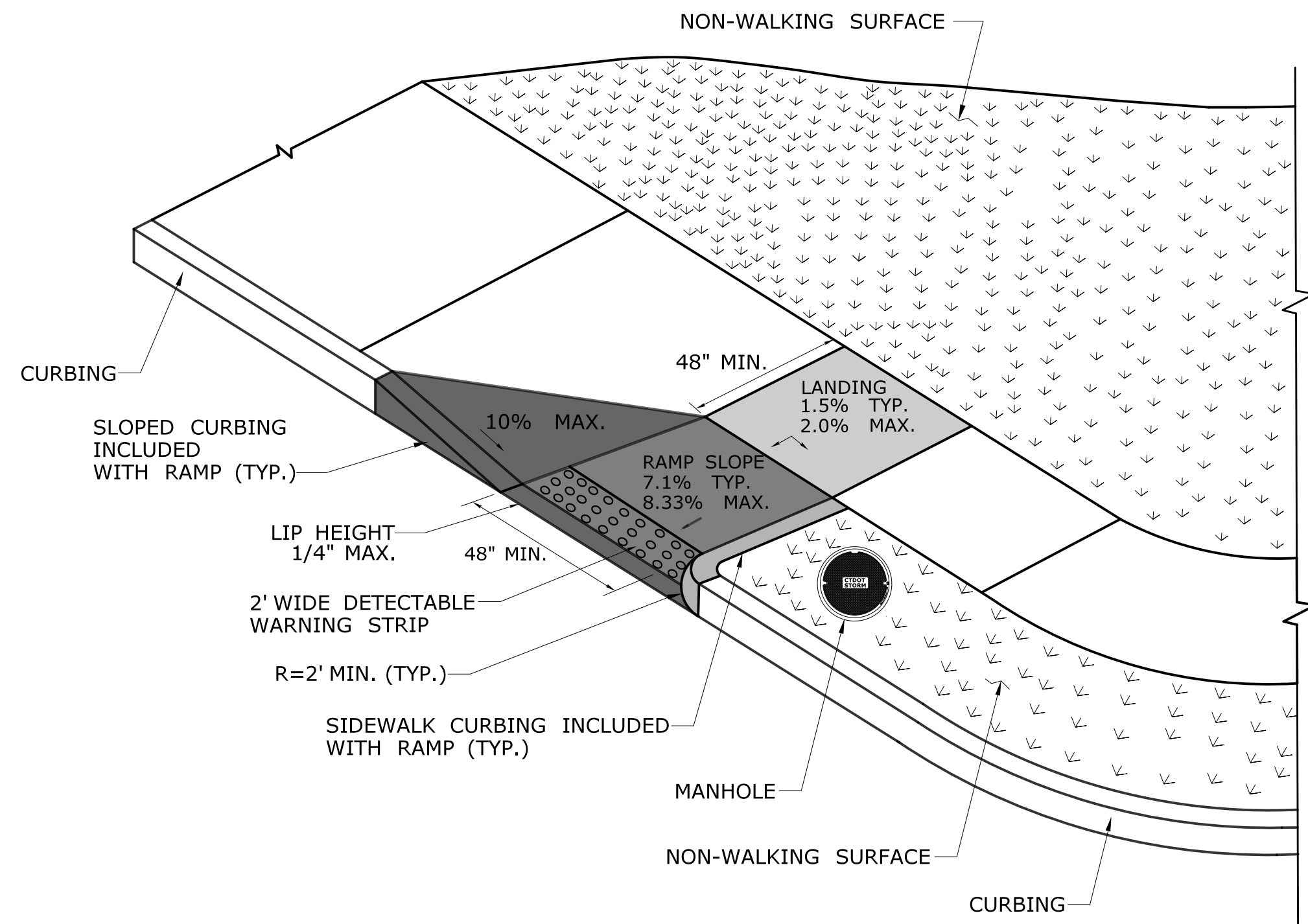


SIGNATURE/
BLOCK:
OFFICE OF ENGINEERING
APPROVED BY:

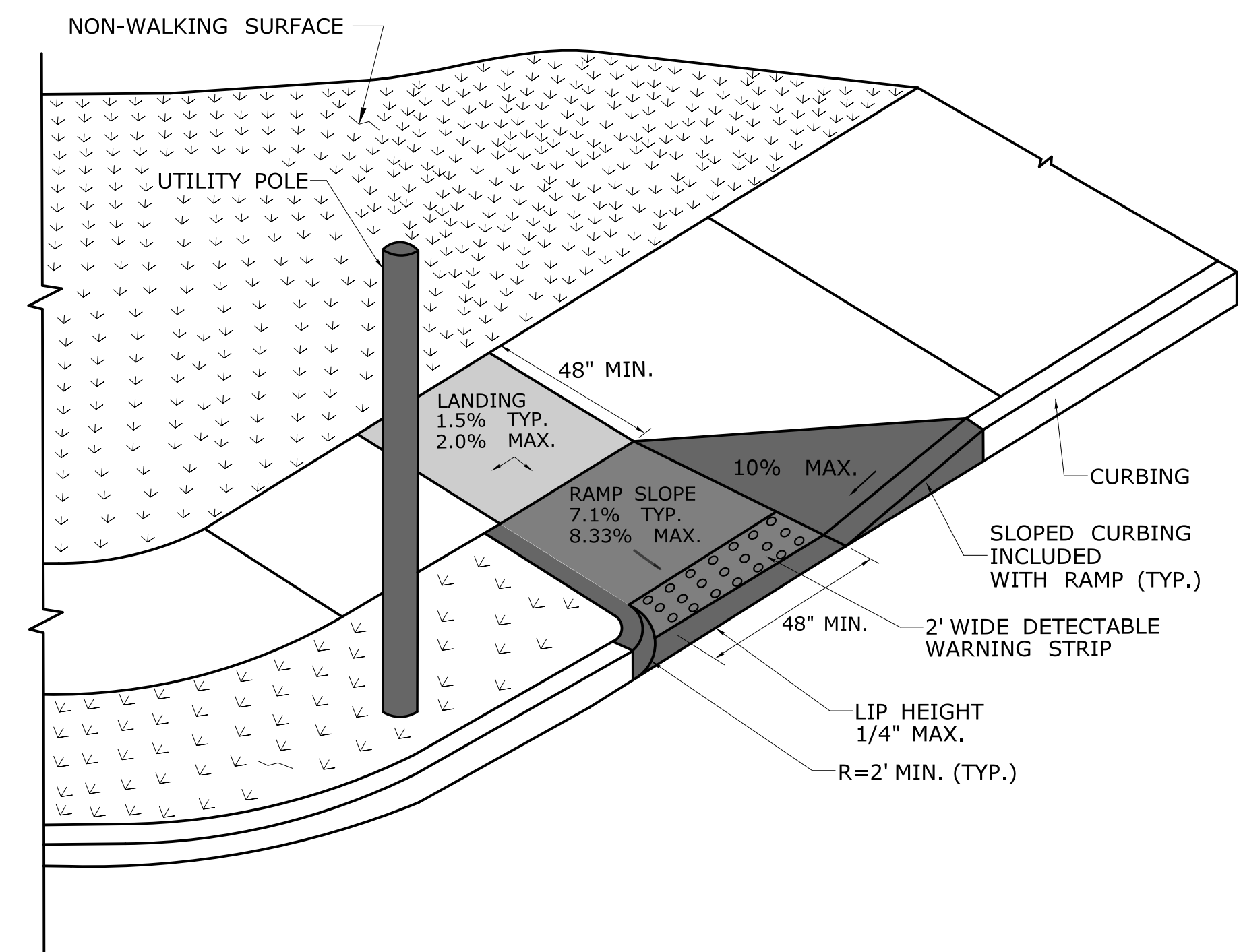
PROJECT TITLE:
**ADA SIDEWALK RAMP
COMPLIANCE PROJECT**

TOWN:
STONINGTON
DRAWING TITLE:
**CONCRETE SIDEWALK
RAMPS SHEET 6**

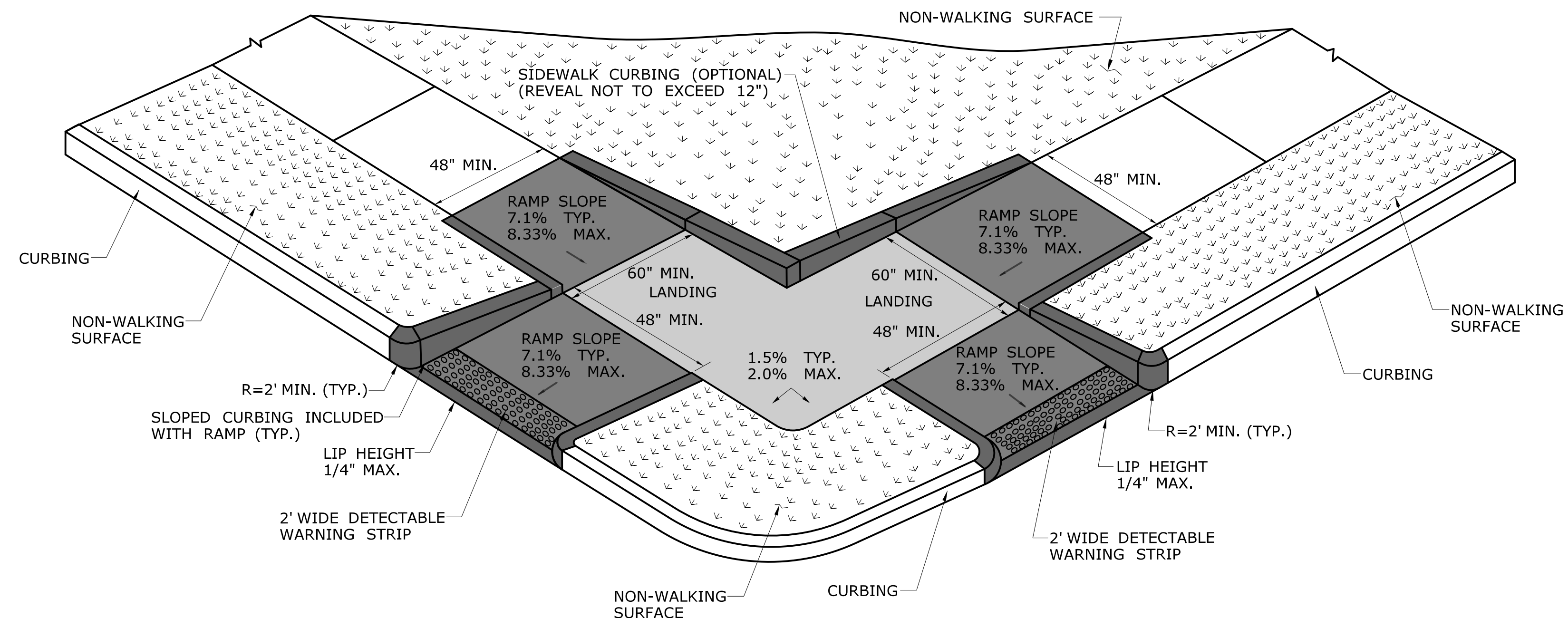
PROJECT NO.
ITB-2019-002
DRAWING NO.
DET-6
SHEET NO.
13



**PERPENDICULAR RAMP
WITH NON-WALKING SURFACE
(TYPE 18 LEFT)**



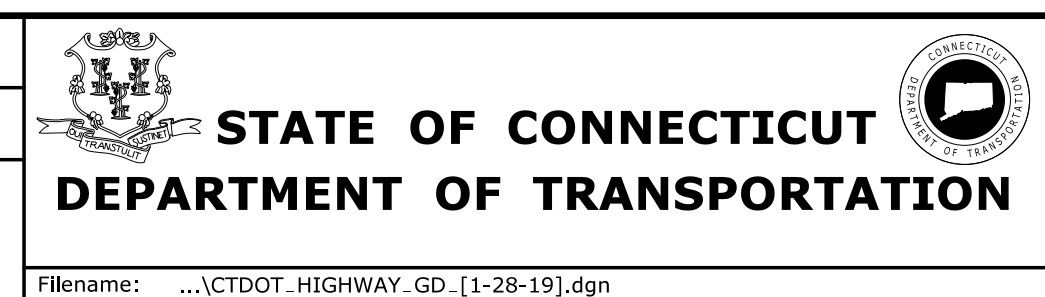
**PERPENDICULAR RAMP
WITH NON-WALKING SURFACE
(TYPE 18 RIGHT)**



**PERPENDICULAR RAMP
WITH NON-WALKING SURFACE
(TYPE 19)**

REV.	DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 4/29/2019

DESIGNER/DRAFTER:
J.D.
CHECKED BY:
J.R.

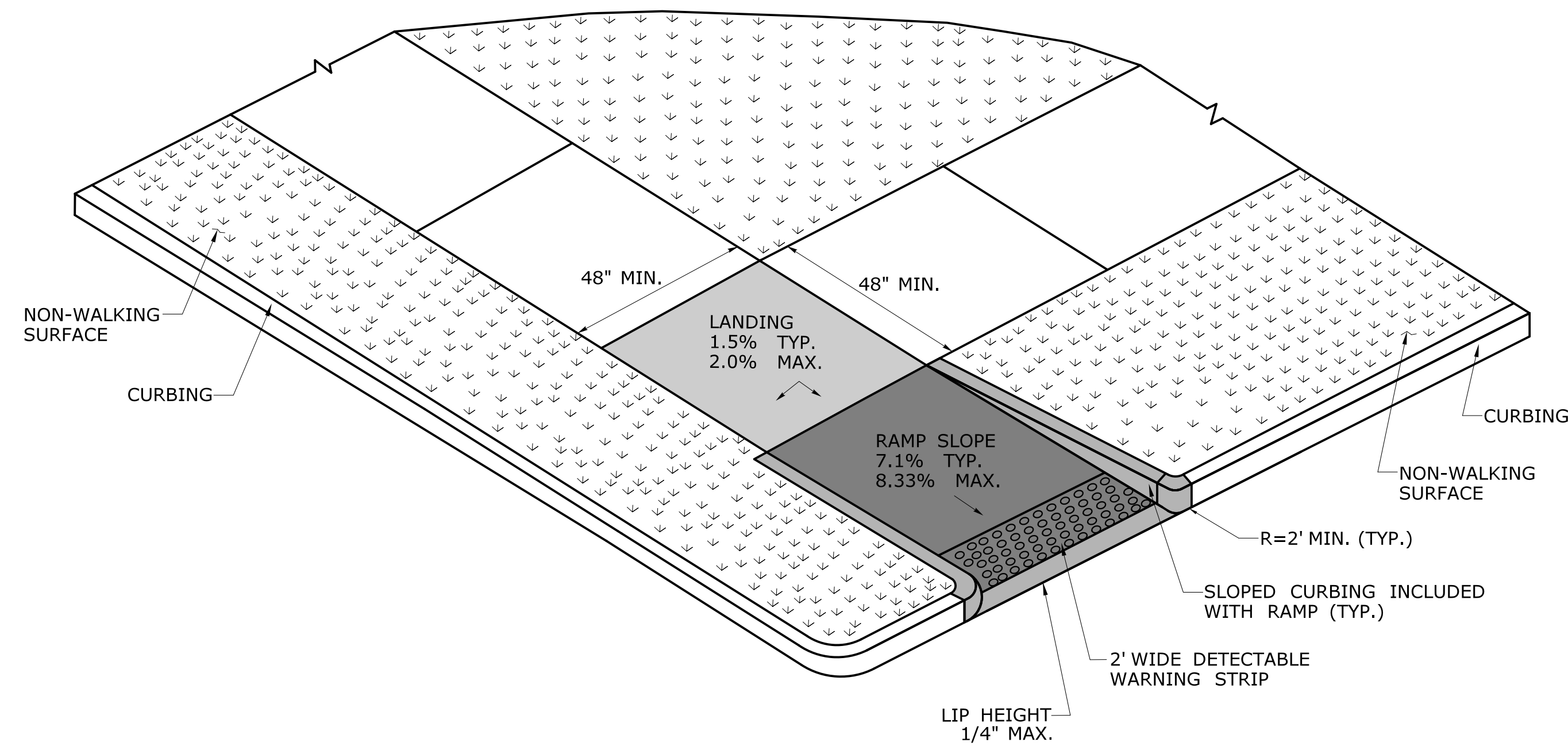


SIGNATURE/
BLOCK:
OFFICE OF ENGINEERING
APPROVED BY:

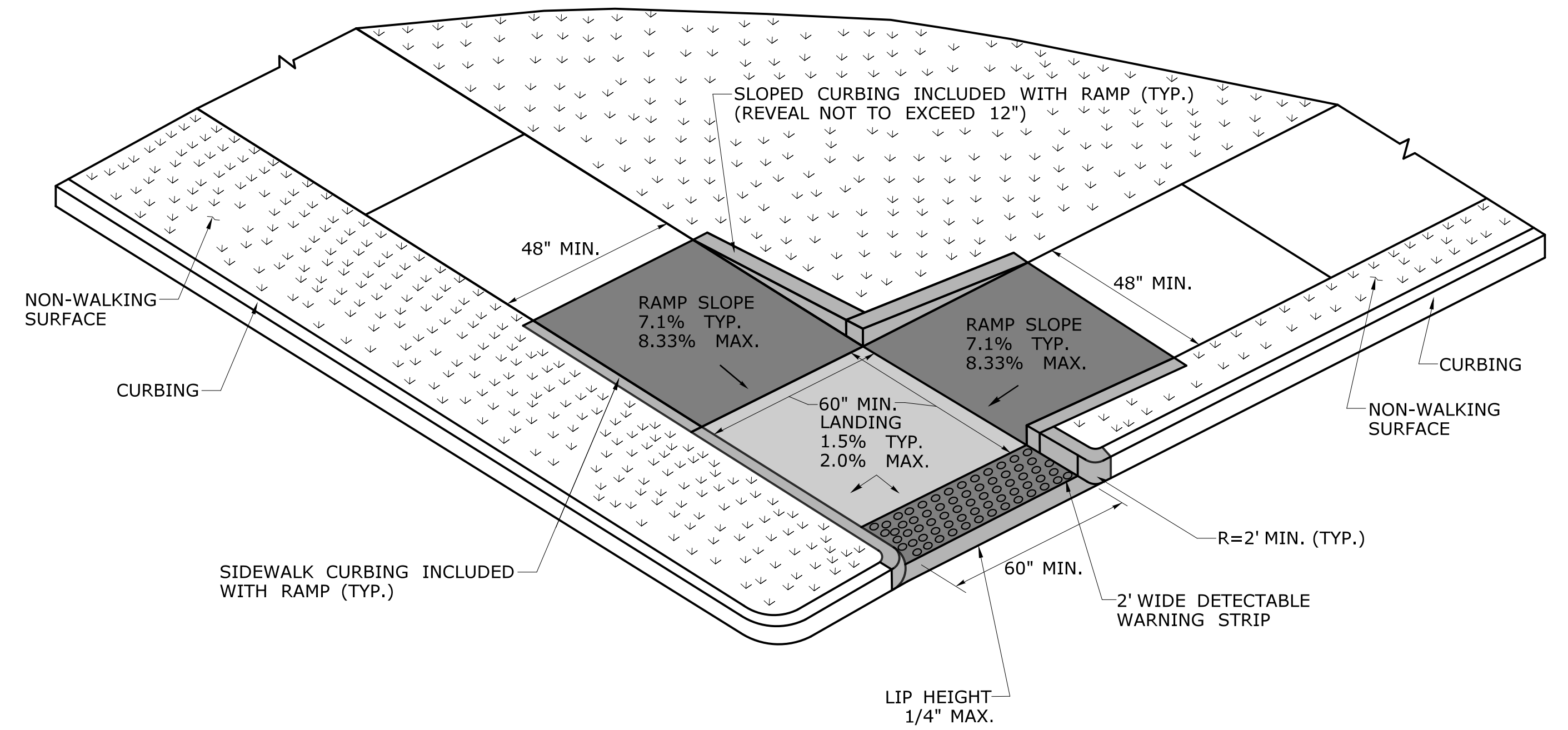
PROJECT TITLE:
**ADA SIDEWALK RAMP
COMPLIANCE PROJECT**

TOWN:
STONINGTON
DRAWING TITLE:
**CONCRETE SIDEWALK
RAMPS SHEET 7**

PROJECT NO.
ITB-2019-002
DRAWING NO.
DET-7
SHEET NO.
14

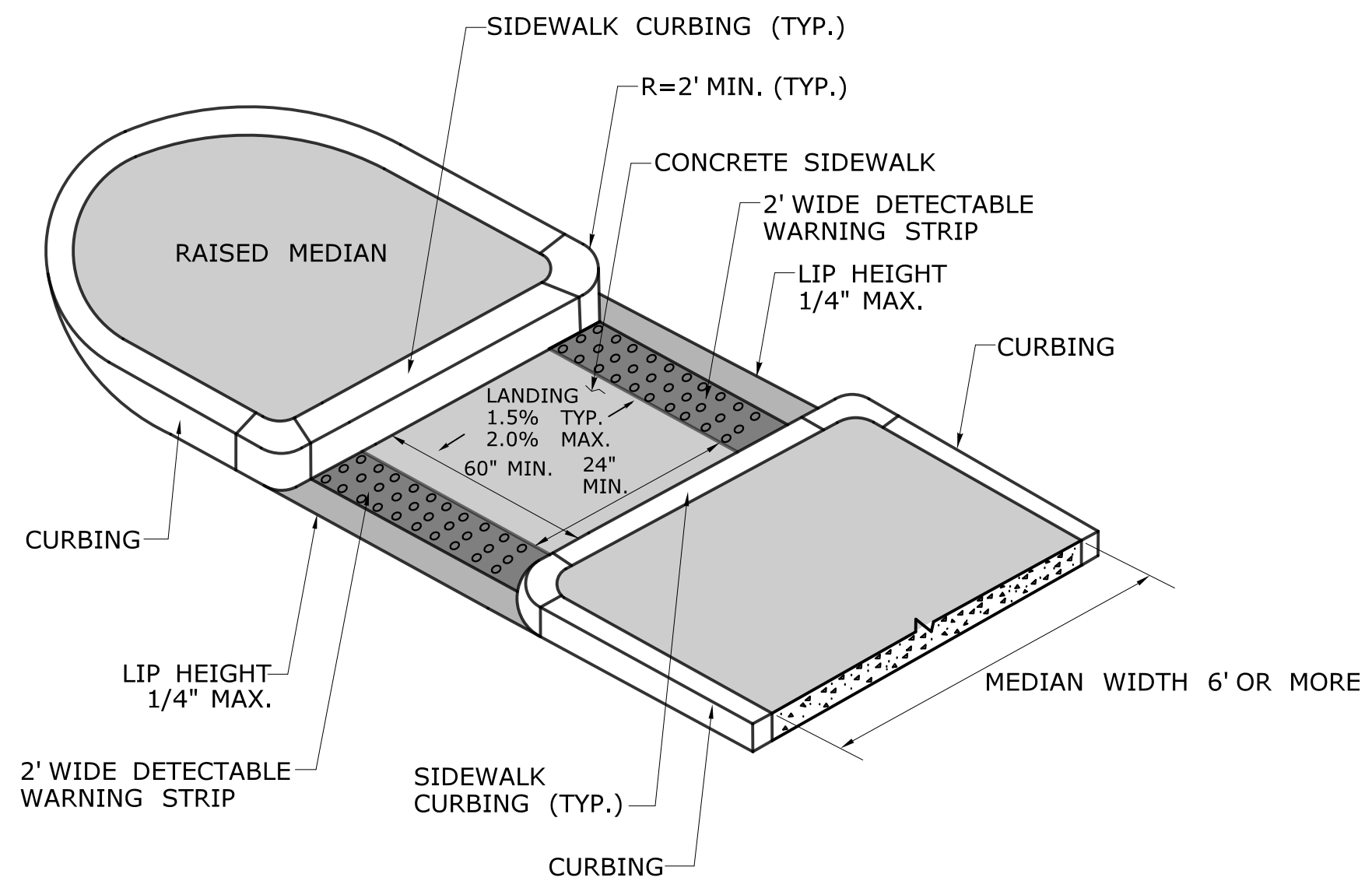


RESTRICTED PEDESTRIAN CROSSING SIDEWALK RAMP WITH NON-WALKING SURFACE (TYPE 20)

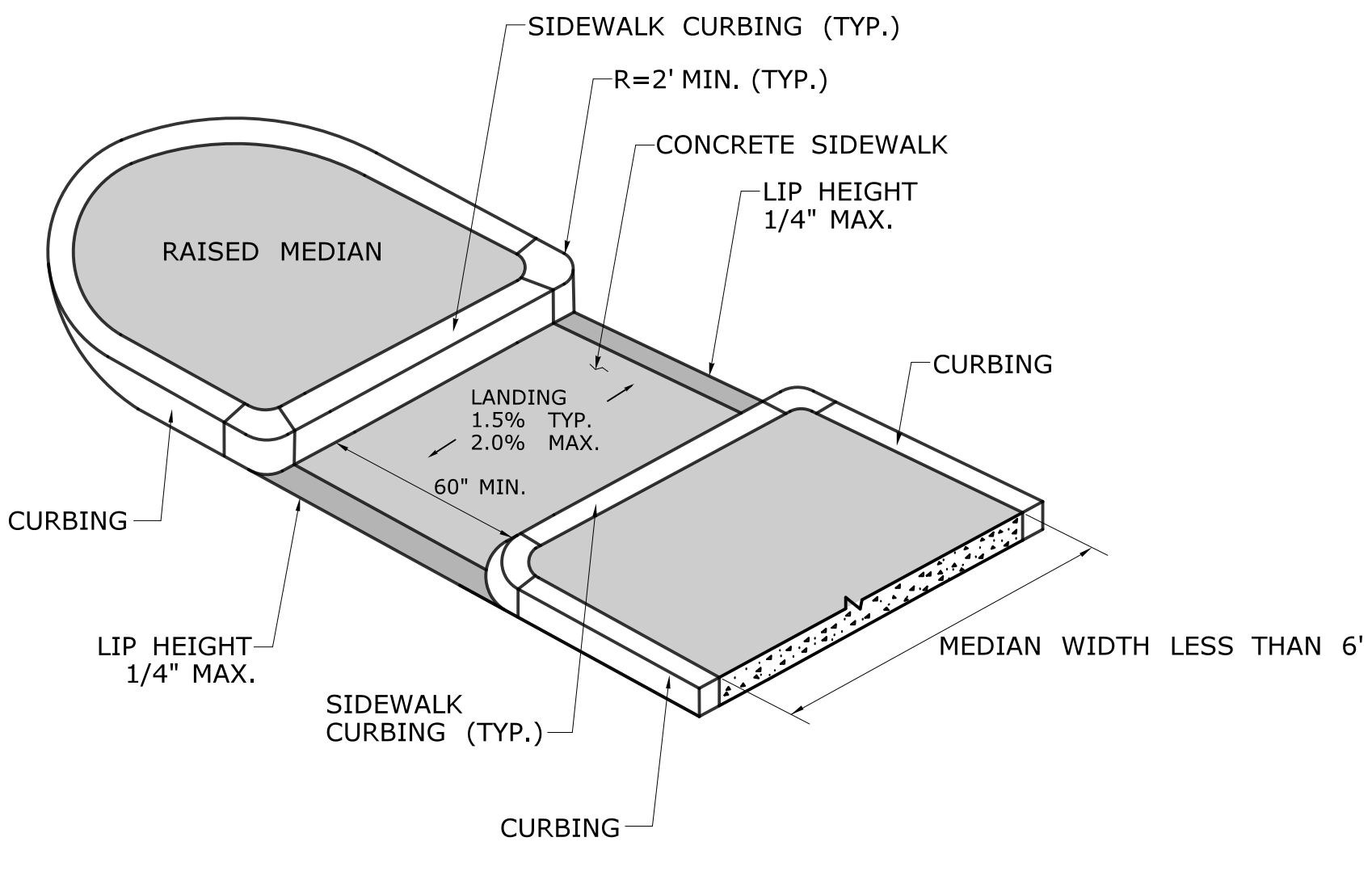


RESTRICTED PEDESTRIAN CROSSING WITH LANDING AT BOTTOM AND NON-WALKING SURFACE (TYPE 21)

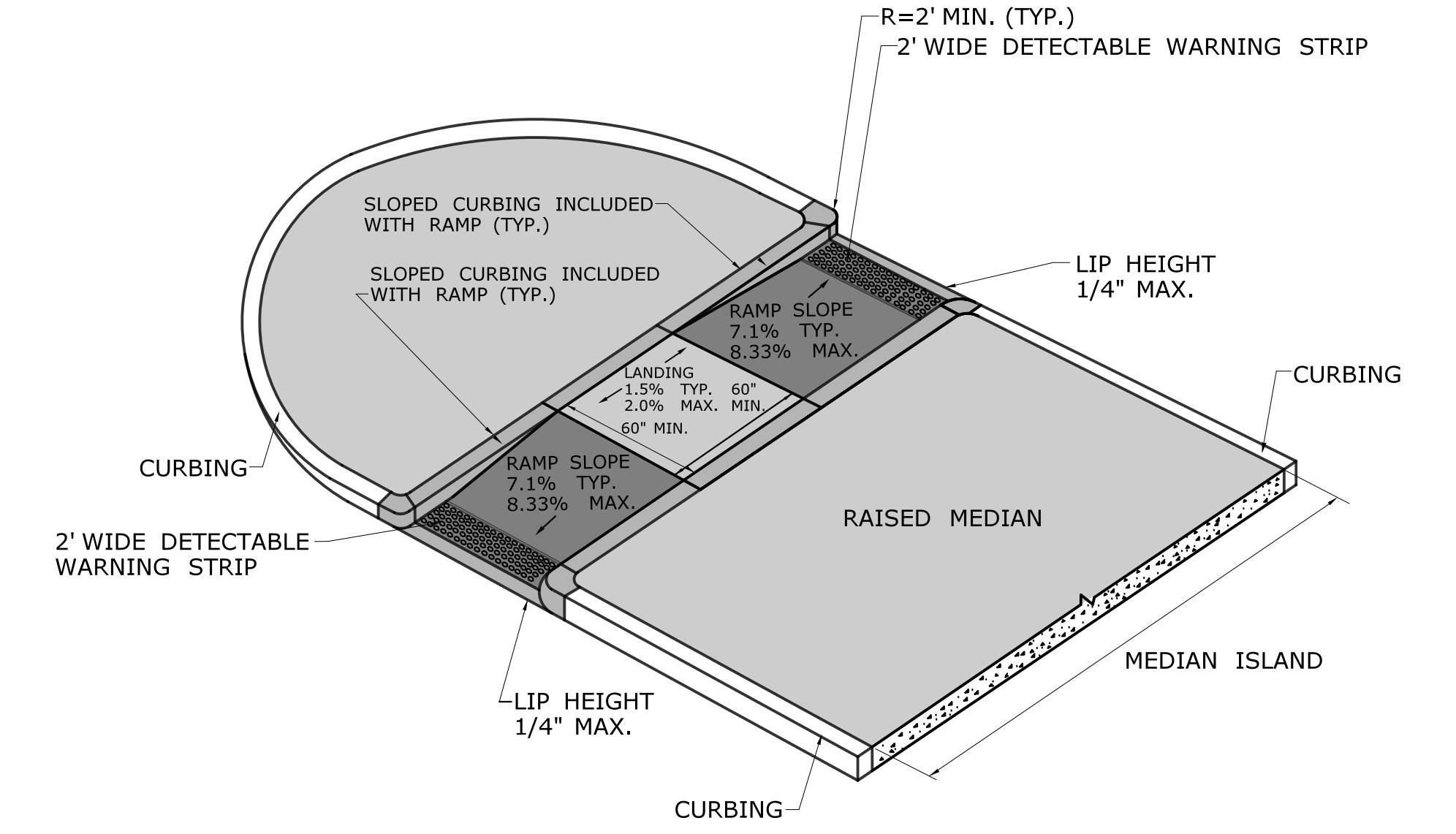
THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.		DESIGNER/DRAFTER: J.R.	 STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION	SIGNATURE/ BLOCK: OFFICE OF ENGINEERING	PROJECT TITLE: ADA SIDEWALK RAMP COMPLIANCE PROJECT	TOWN: STONINGTON	PROJECT NO. ITB-2019-002
CHECKED BY: J.R.	APPROVED BY:	DRAWING TITLE: CONCRETE SIDEWALK RAMPS SHEET 8		DRAWING NO. DET-8			
REV. DATE REVISION DESCRIPTION SHEET NO. Plotted Date: 4/29/2019	Filename: ...CTDOT_HIGHWAY_GD_[1-28-19].dgn				SHEET NO. 15		



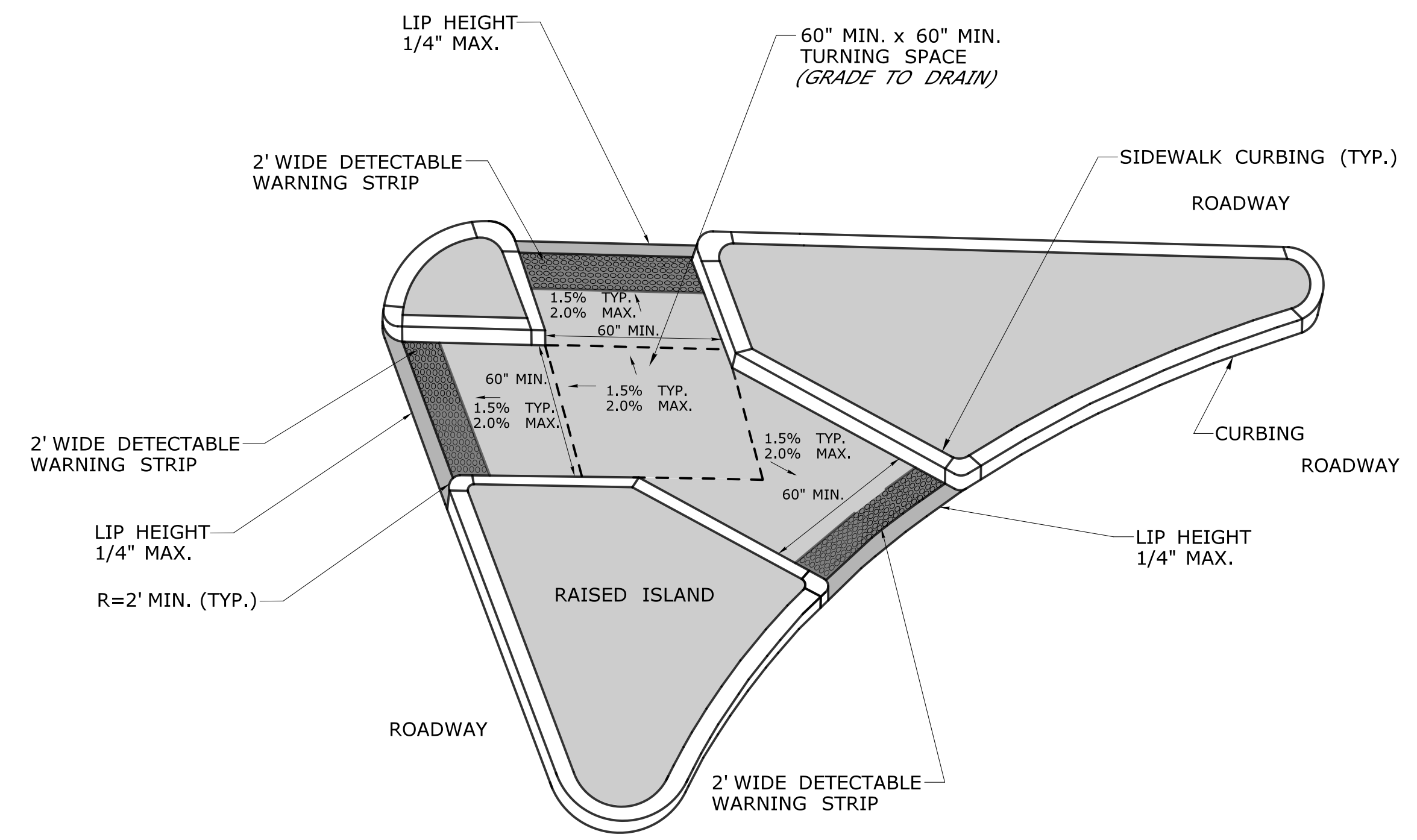
**CUT-THROUGH PEDESTRIAN REFUGE ISLAND
MEDIAN WIDTH 6' OR MORE
(TYPE 22)**



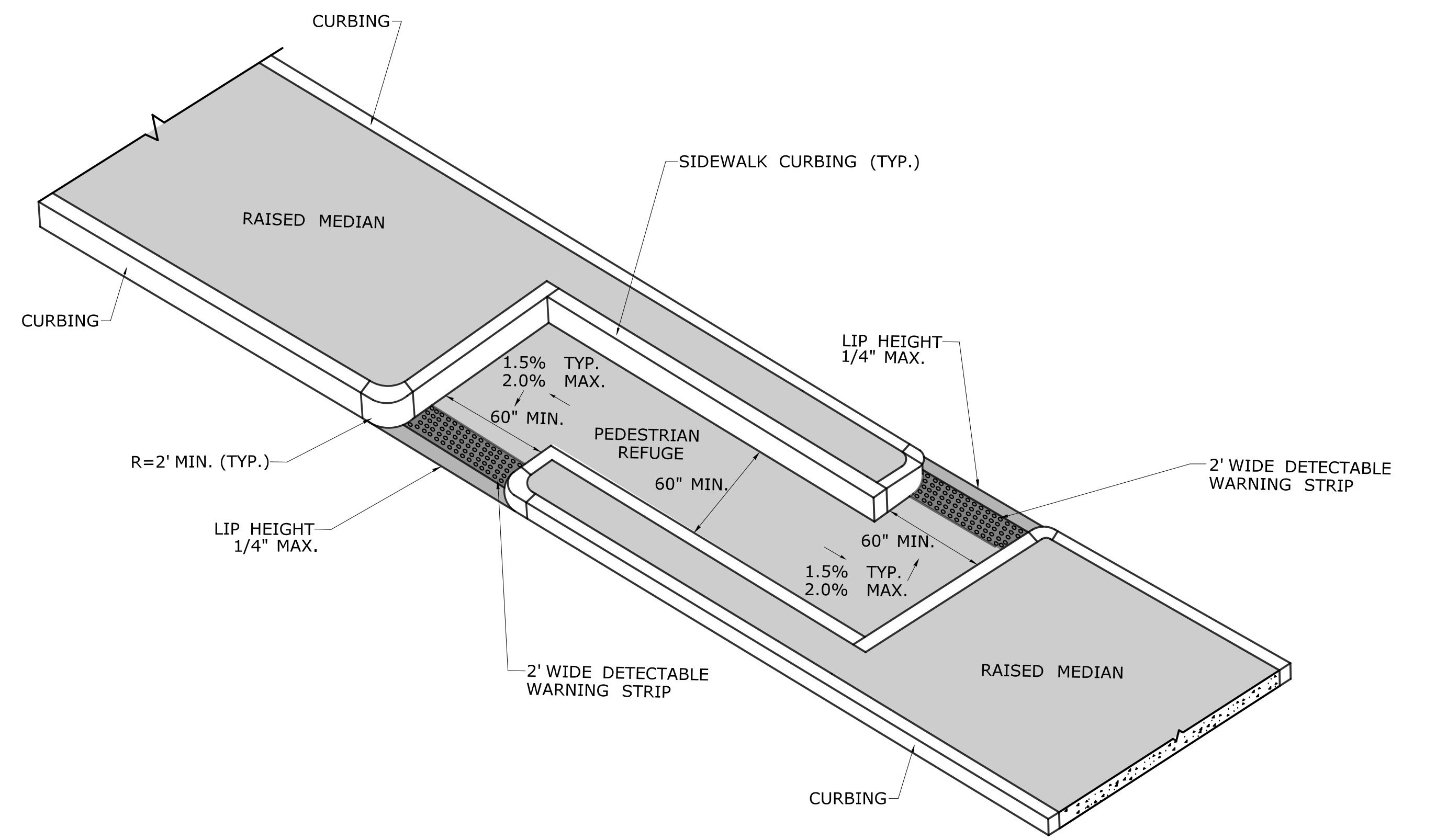
**CUT-THROUGH PEDESTRIAN REFUGE ISLAND
MEDIAN WIDTH LESS THAN 6'
(TYPE 23)**



**PEDESTRIAN REFUGE ISLAND WITH LANDING AND RAMPS
(TYPE 24)**



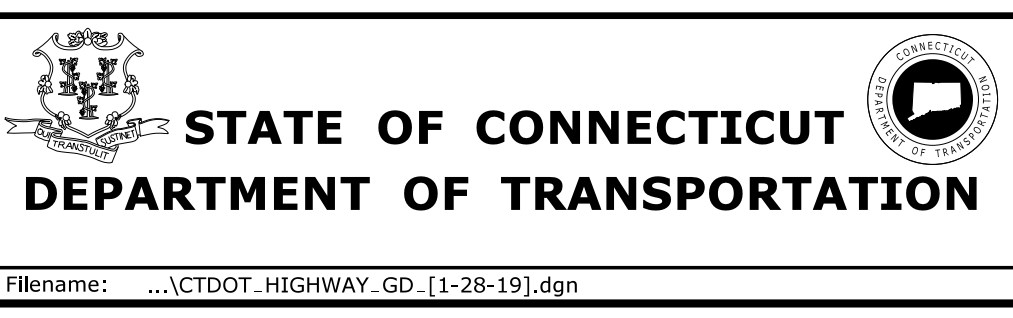
**CUT-THROUGH PEDESTRIAN REFUGE ISLAND
(TYPE 25)**



**CUT-THROUGH PEDESTRIAN REFUGE ISLAND
OFFSET CONFIGURATION
(TYPE 26)**

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

DESIGNER/DRAFTER:
J.D.
CHECKED BY:
J.R.

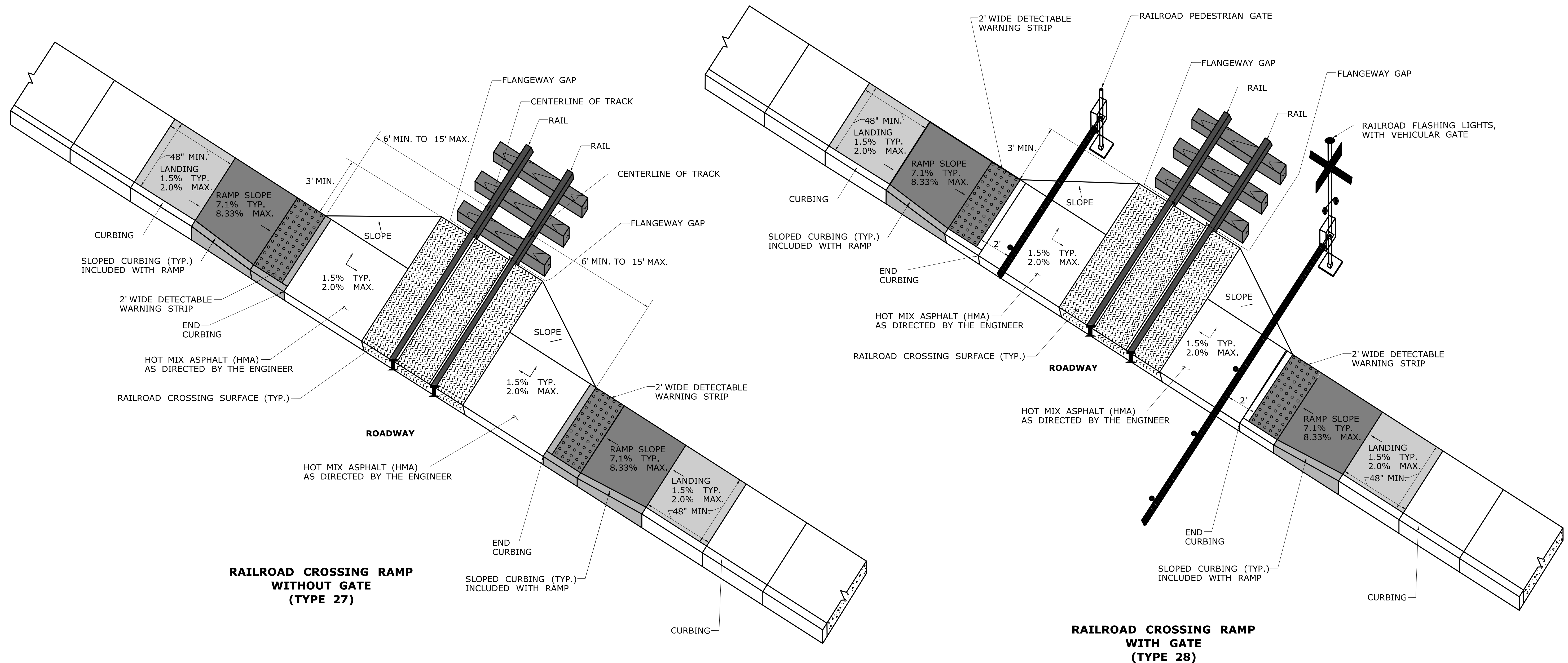


SIGNATURE/
BLOCK:
OFFICE OF ENGINEERING
APPROVED BY:

PROJECT TITLE:
ADA SIDEWALK RAMP COMPLIANCE PROJECT

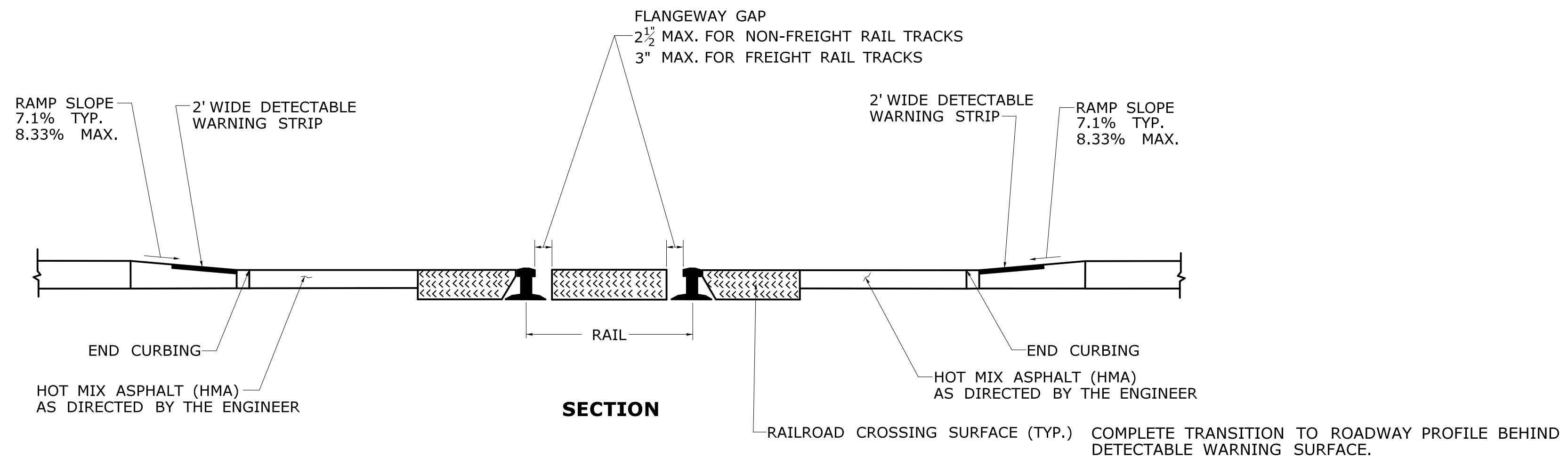
TOWN:
STONINGTON
DRAWING TITLE:
CONCRETE SIDEWALK RAMPS SHEET 9

PROJECT NO.
ITB-2019-002
DRAWING NO.
DET-9
SHEET NO.
16



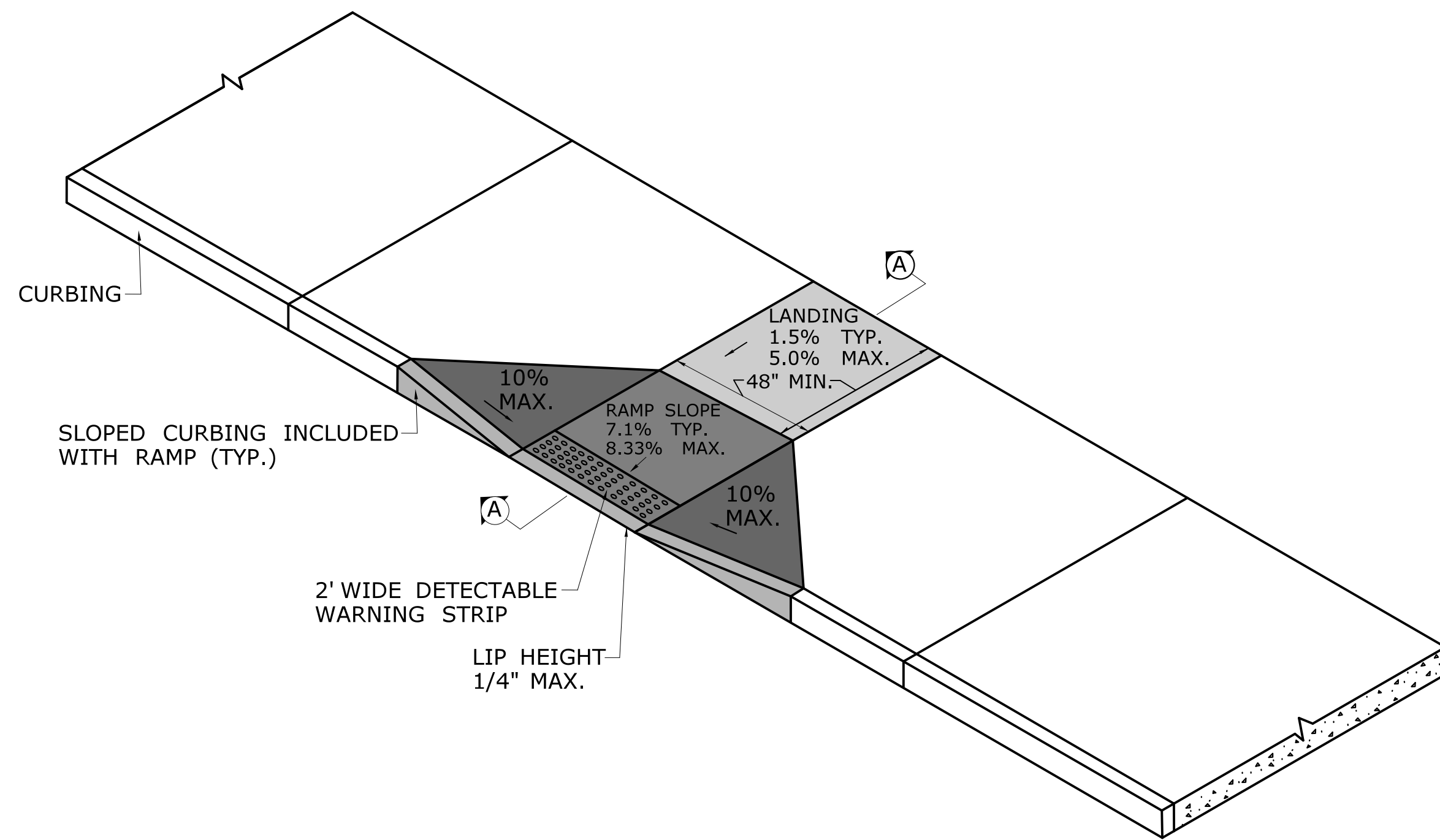
RAILROAD CROSSING RAMP WITHOUT GATE (TYPE 27)

RAILROAD CROSSING RAMP WITH GATE (TYPE 28)



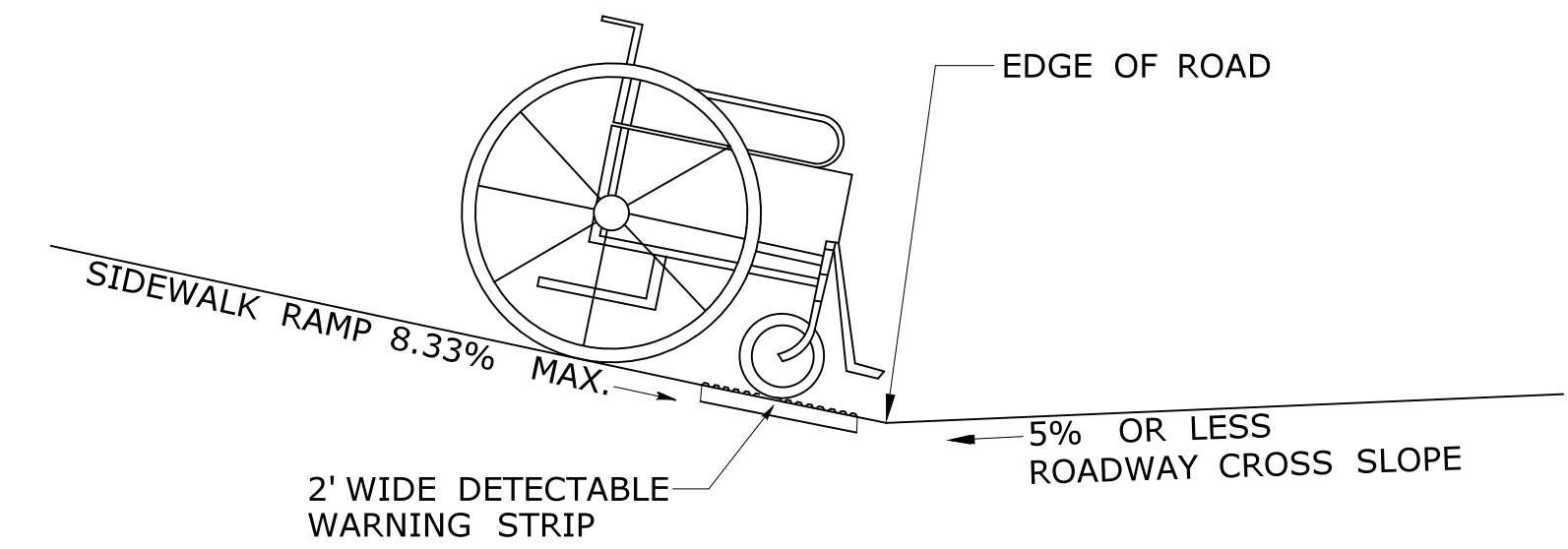
SECTION

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REV. DATE REVISION DESCRIPTION SHEET NO. Plotted Date: 4/29/2019	CONCRETE SIDEWALK RAMP SHEET 10						

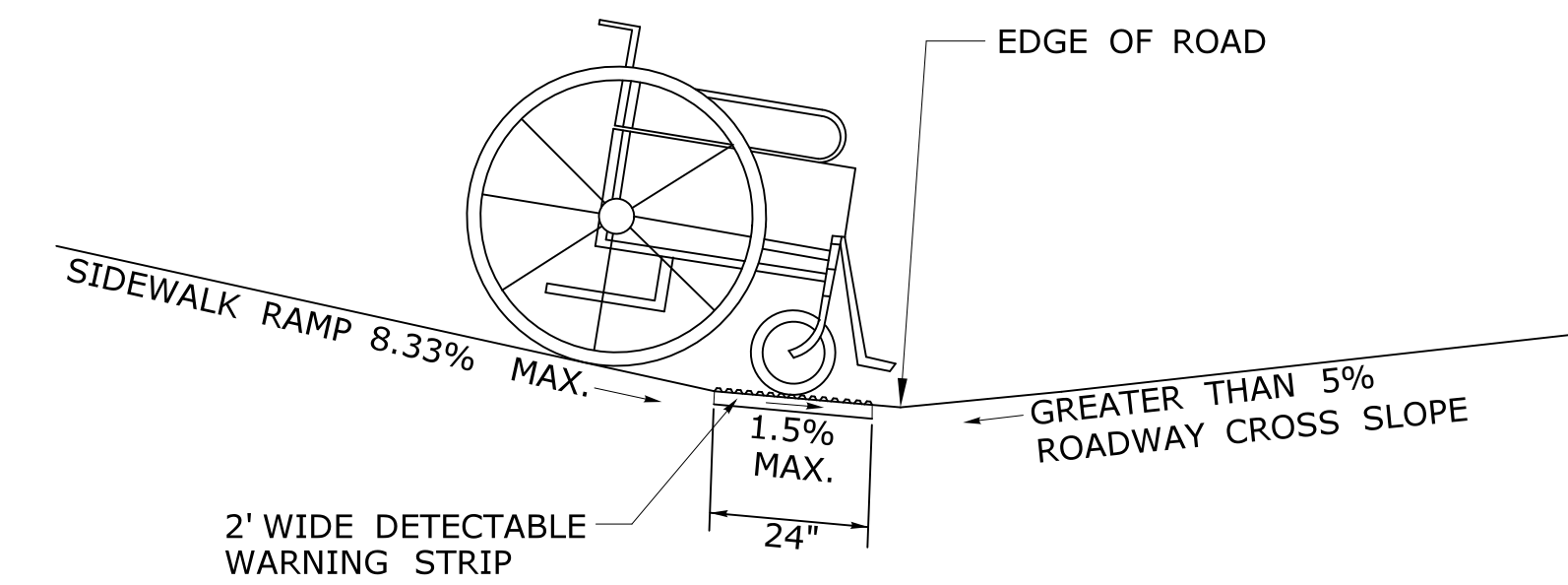


**PERPENDICULAR
SIDEWALK RAMP**

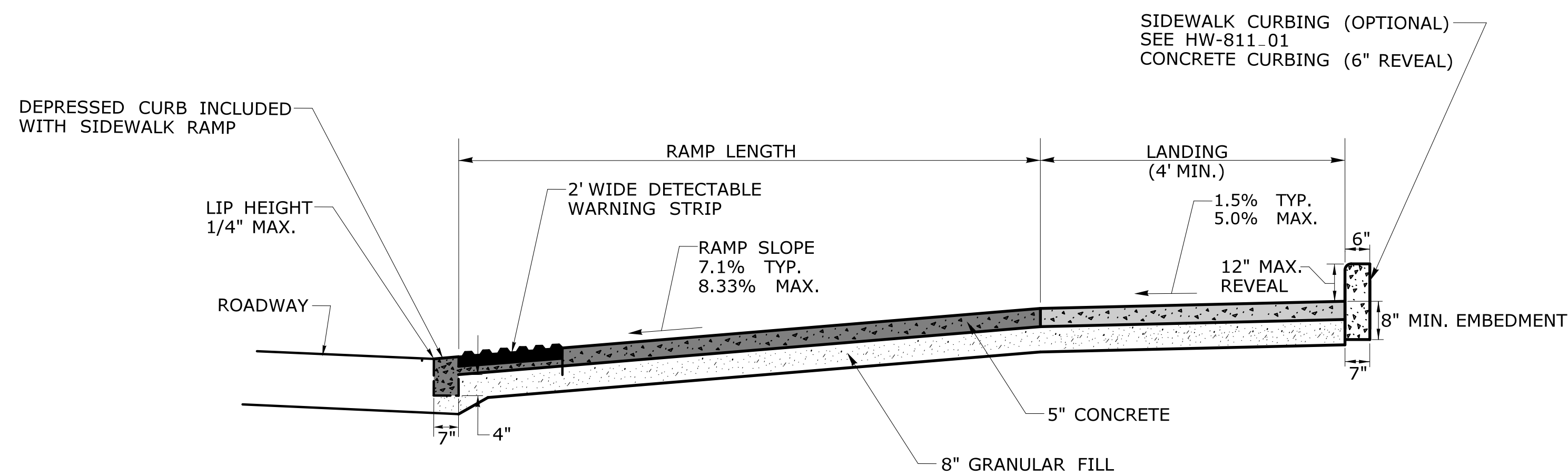
- GENERAL NOTES:**
1. SIDEWALK RAMPS SHALL HAVE A COARSE BROOM FINISH TRAVERSE TO THE SLOPE OF THE RAMP.
 2. VERTICAL SURFACE DISCONTINUITIES AT JOINTS SHALL NOT EXCEED 1/4 INCH.
 3. REMOVAL OF EXISTING SIDEWALK FOR NEW RAMP INSTALLATIONS SHALL BE TO THE NEAREST EXPANSION OR CONTRACTION JOINT.
 4. THE RUNNING SLOPE OF THE CURB RAMP SHALL BE 8.3 PERCENT MAXIMUM BUT SHALL NOT REQUIRE THE RAMP LENGTH TO EXCEED 15 FEET.



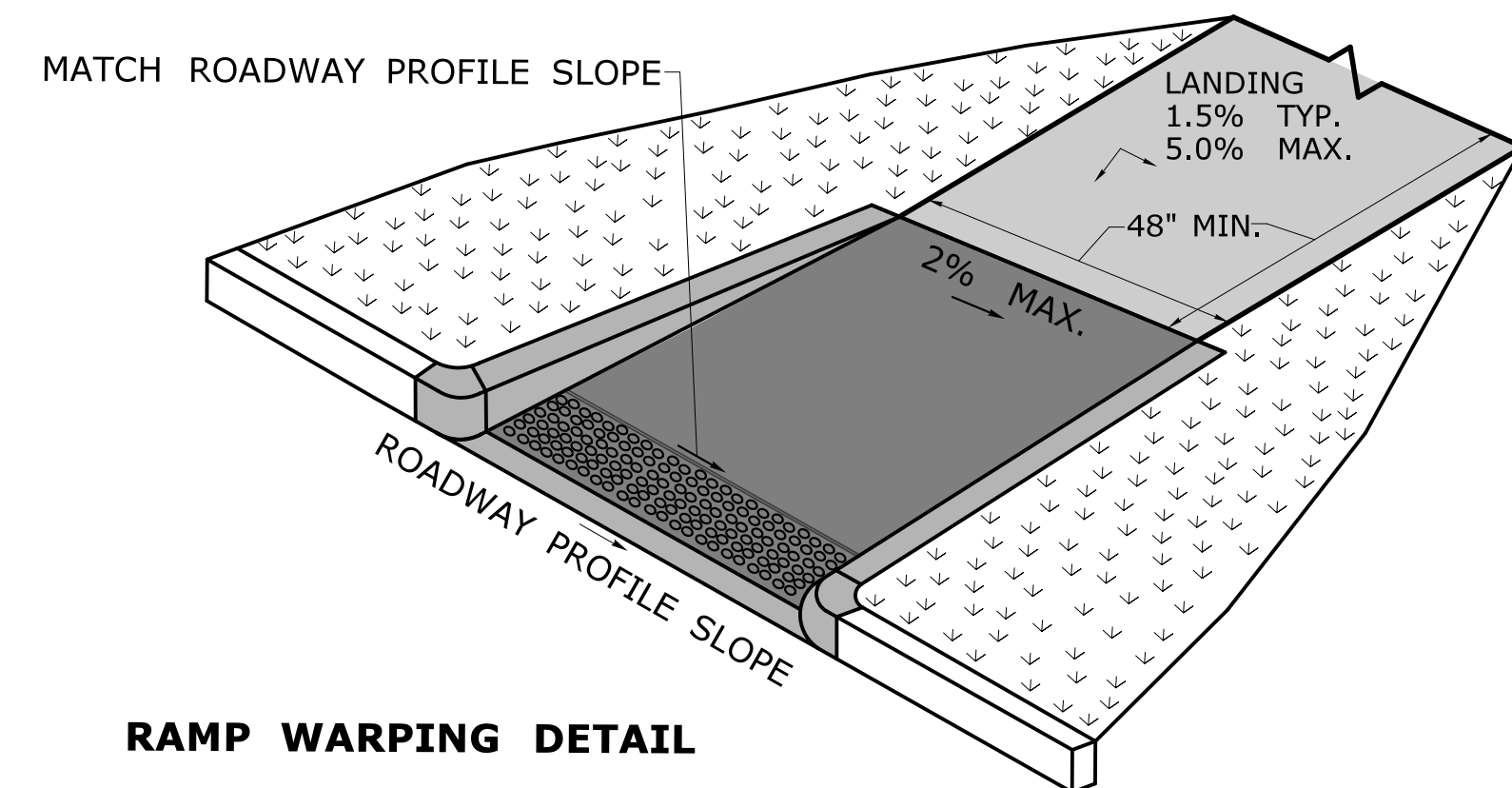
**SIDEWALK RAMP GRADE AT
ROADWAY CROSS SLOPE OF 5% OR LESS**



**SIDEWALK RAMP GRADE AT
ROADWAY CROSS SLOPE OF GREATER THAN 5%**



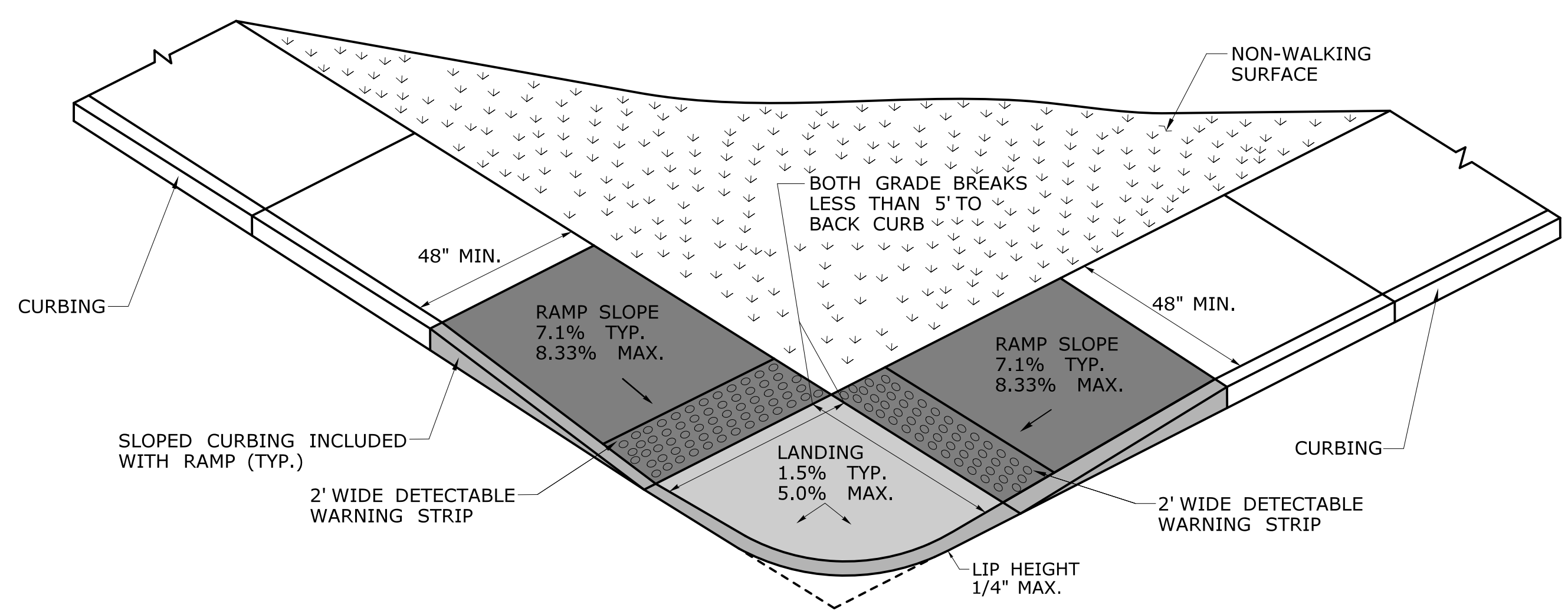
SECTION AA



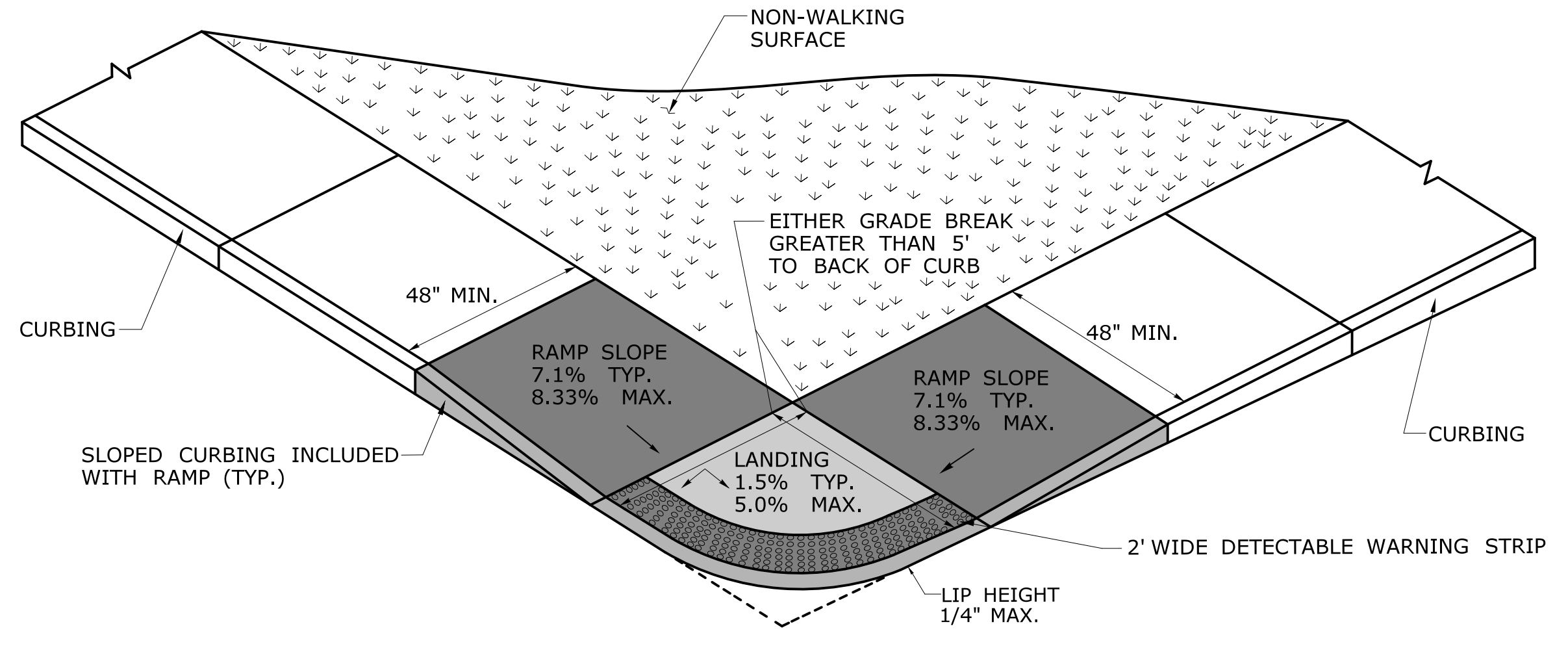
RAMP WARPING DETAIL

1. TRANSITION SIDEWALK RAMP TO MATCH ROADWAY PROFILE AS GRADUALLY AS POSSIBLE. DO NOT EXCEED 3% PER FOOT CROSS SLOPE RATE OF CHANGE WHEN TRANSITIONING TO ROADWAY PROFILE.
2. COMPLETE TRANSITION TO ROADWAY PROFILE BEHIND DETECTABLE WARNING SURFACE.

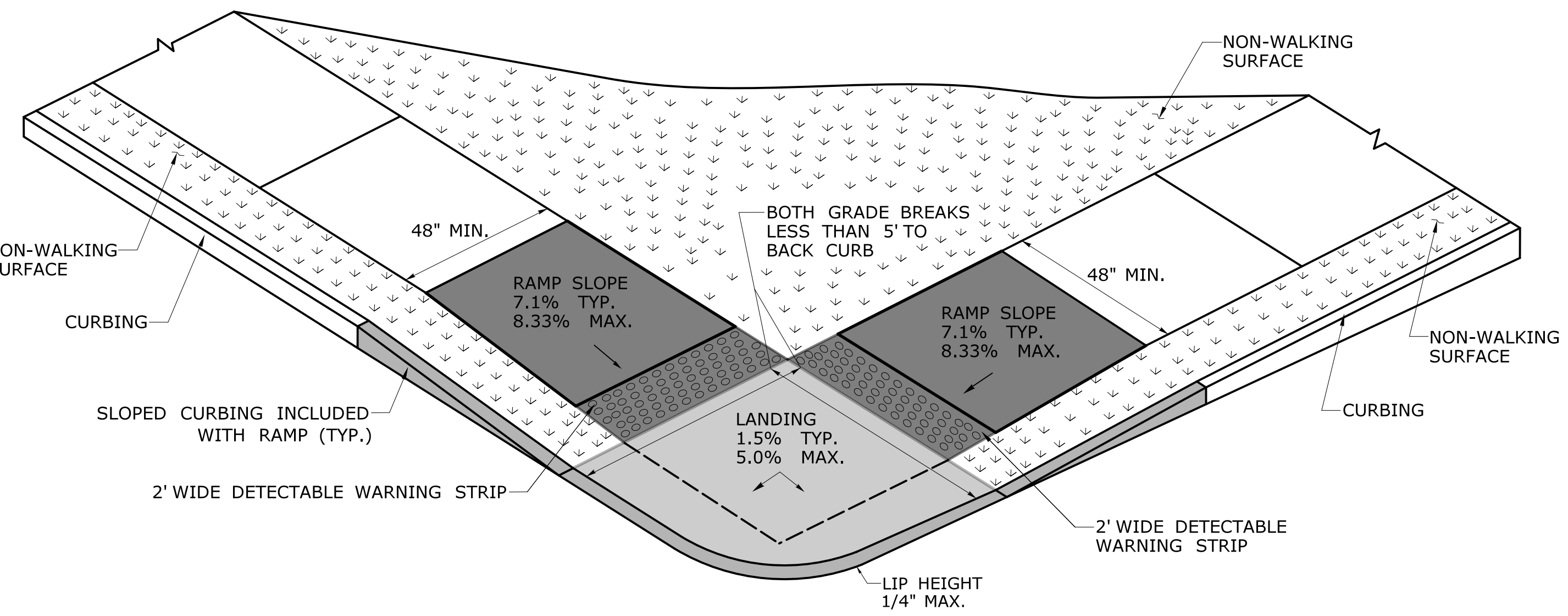
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REV.	DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 4/29/2019	Filename: ...CTDOT_HIGHWAY_GD_[1-28-19].dgn		



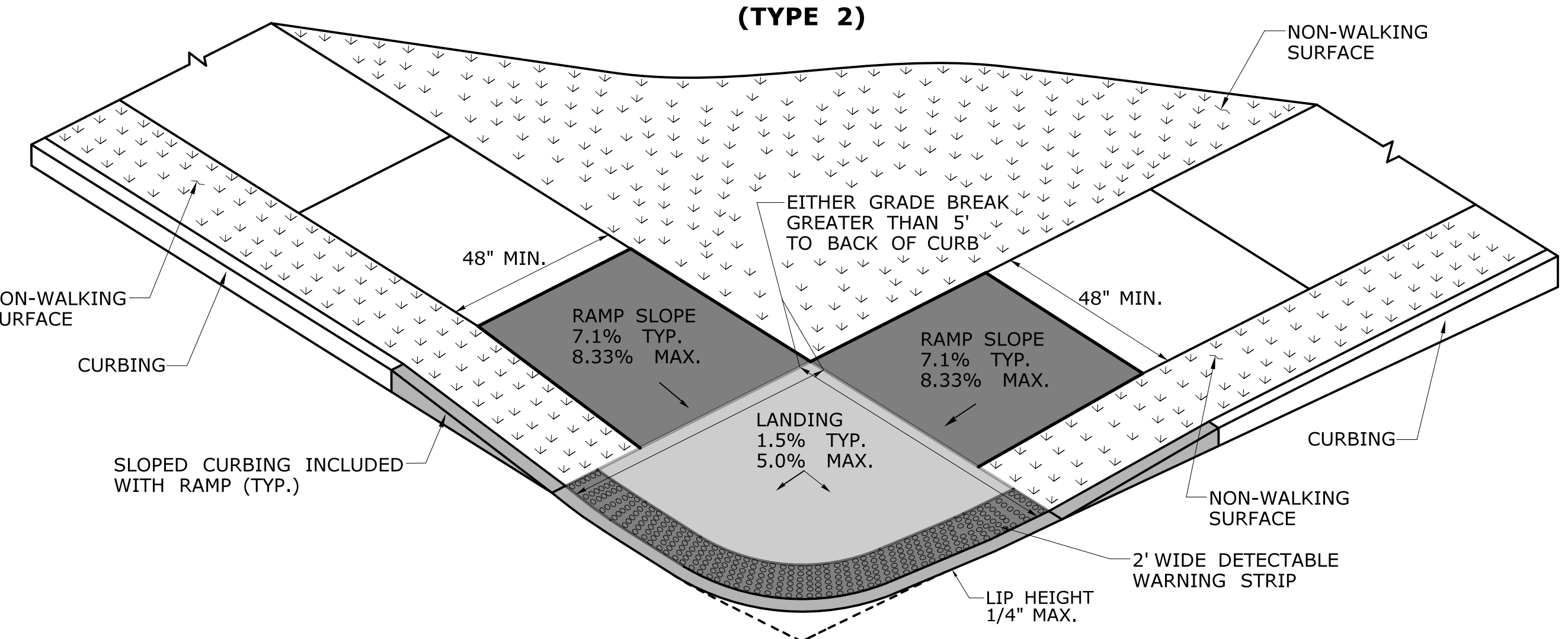
PERPENDICULAR RAMP WITH A GRADE BREAK OF 5' OR LESS (TYPE 1)



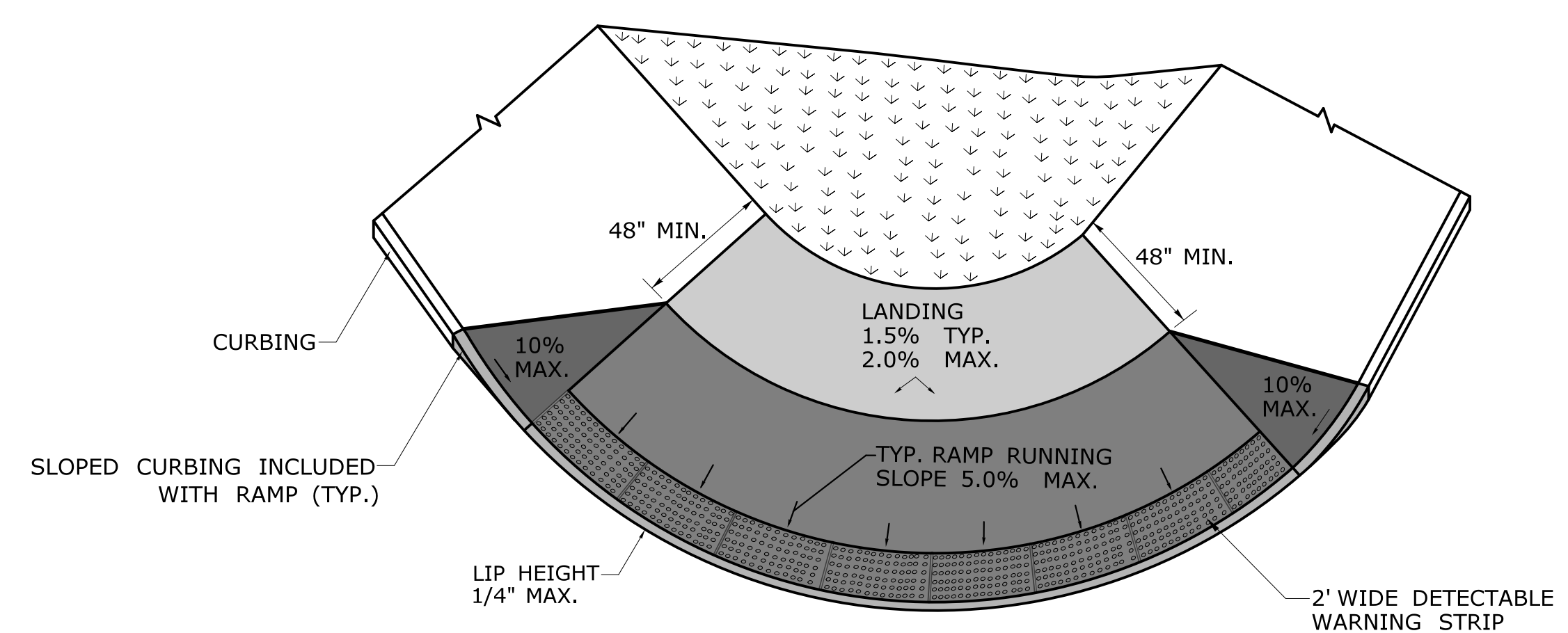
BLENDED TRANSITION WITH GRADE BREAK GREATER THAN 5' (TYPE 2)



PERPENDICULAR RAMP WITH A GRADE BREAK TO BACK OF CURB OF 5' OR LESS (TYPE 3)



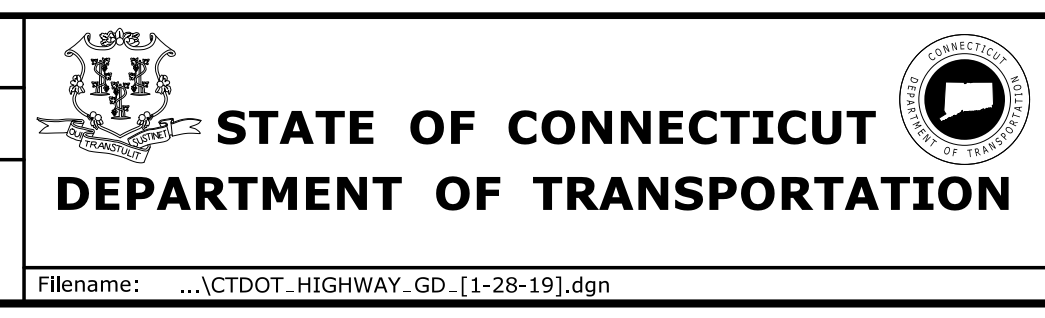
BLENDED TRANSITION TO BACK OF CURB GREATER THAN 5' (TYPE 4)



BLENDED TRANSITION WITH LANDING AT TOP (TYPE 5)

REV.	DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 4/29/2019

DESIGNER/DRAFTER: J.D.
 CHECKED BY: J.R.

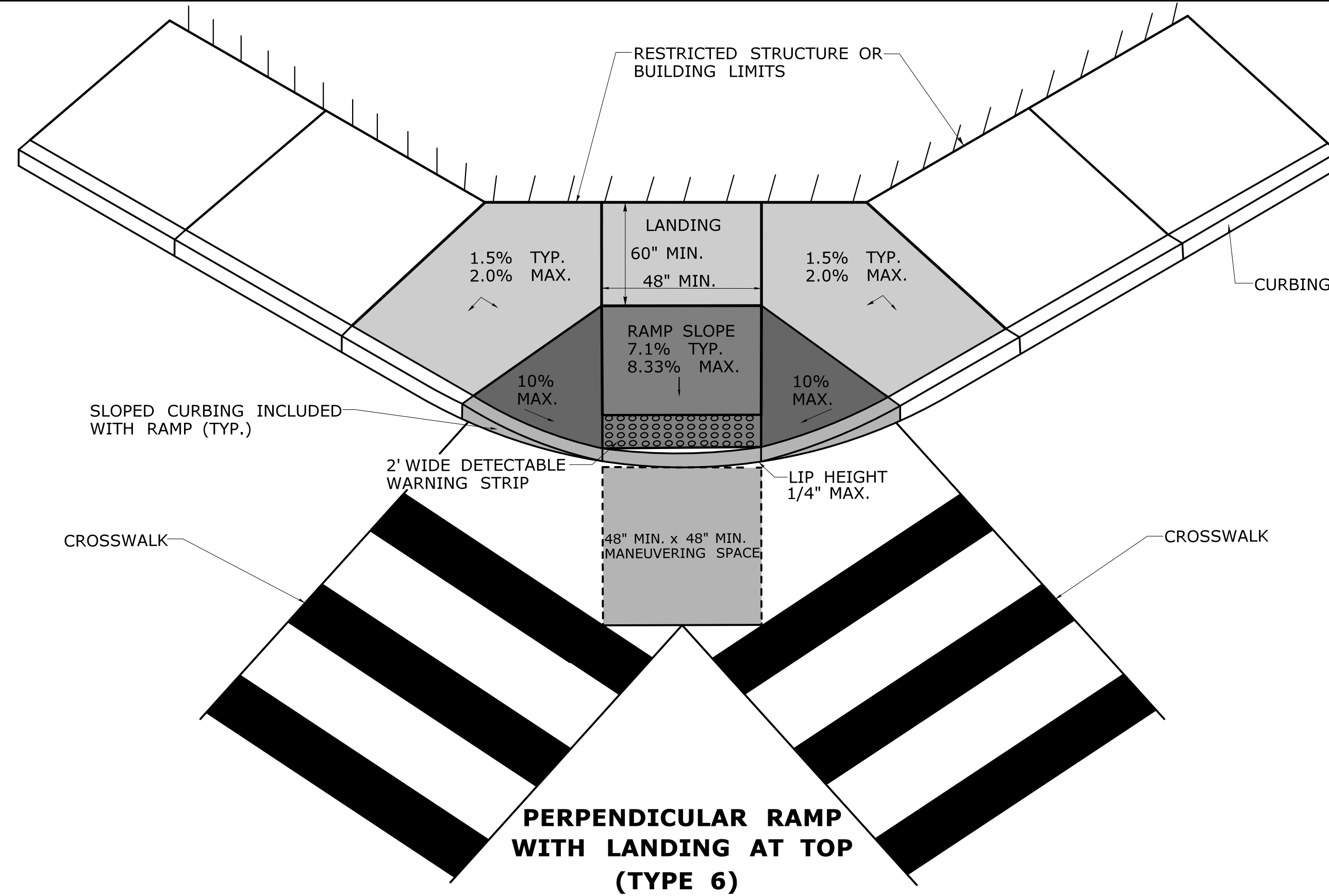


SIGNATURE/BLOCK:
OFFICE OF ENGINEERING
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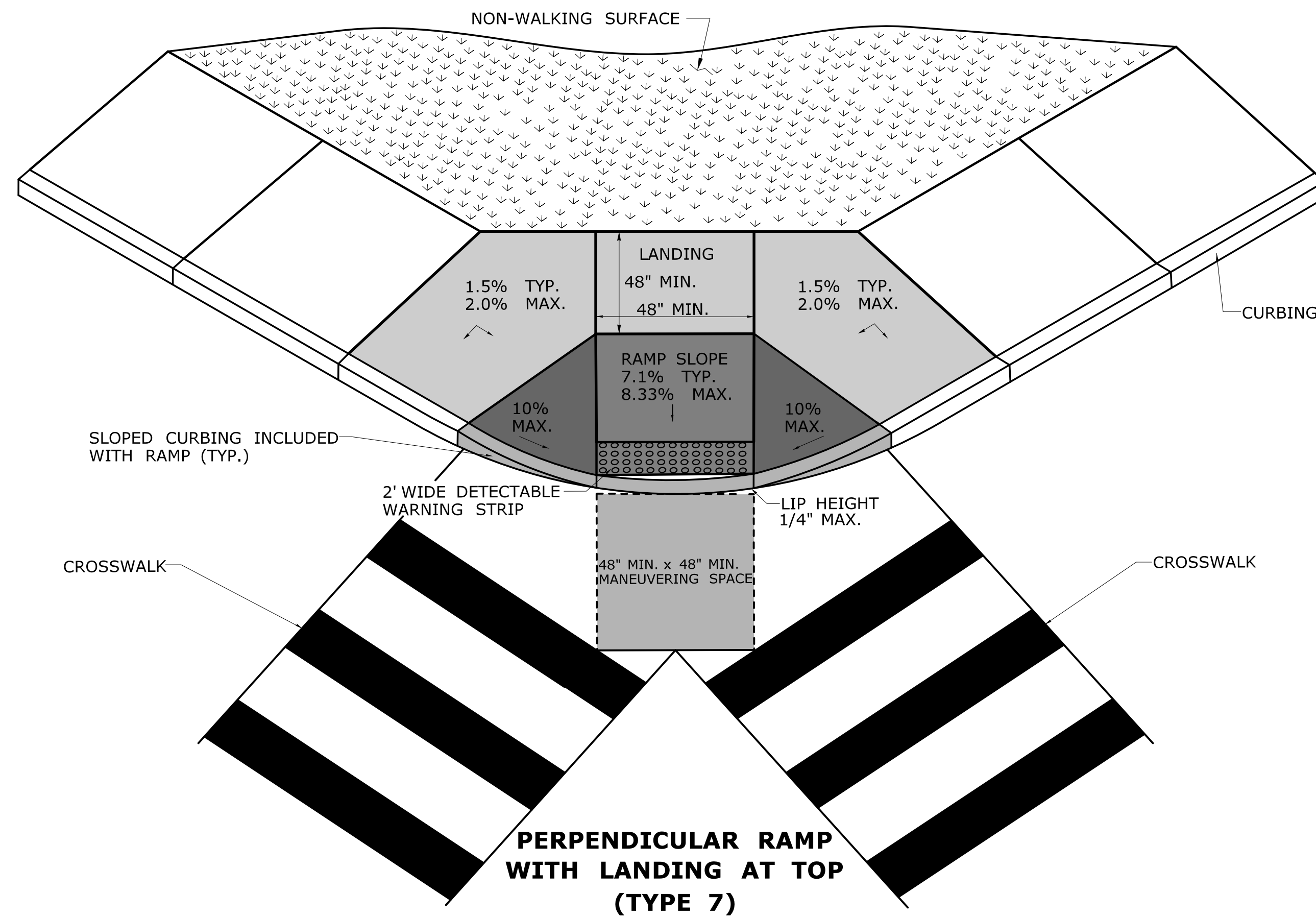
PROJECT TITLE:
ADA SIDEWALK RAMP COMPLIANCE PROJECT

TOWN: **STONINGTON**
 DRAWING TITLE:
CONCRETE SIDEWALK RAMPS SHEET 2

PROJECT NO.: **ITB-2019-002**
 DRAWING NO.: **DET-2**
 SHEET NO.: **9**



PERPENDICULAR RAMP WITH LANDING AT TOP (TYPE 6)




PERPENDICULAR RAMP WITH LANDING AT TOP (TYPE 7)

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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DESIGNER/DRAFTER:
J.D.
CHECKED BY:
J.R.


STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Plotted Date: 4/29/2019

SIGNATURE/BLOCK:
OFFICE OF ENGINEERING
APPROVED BY:

PROJECT TITLE:
ADA SIDEWALK RAMP COMPLIANCE PROJECT

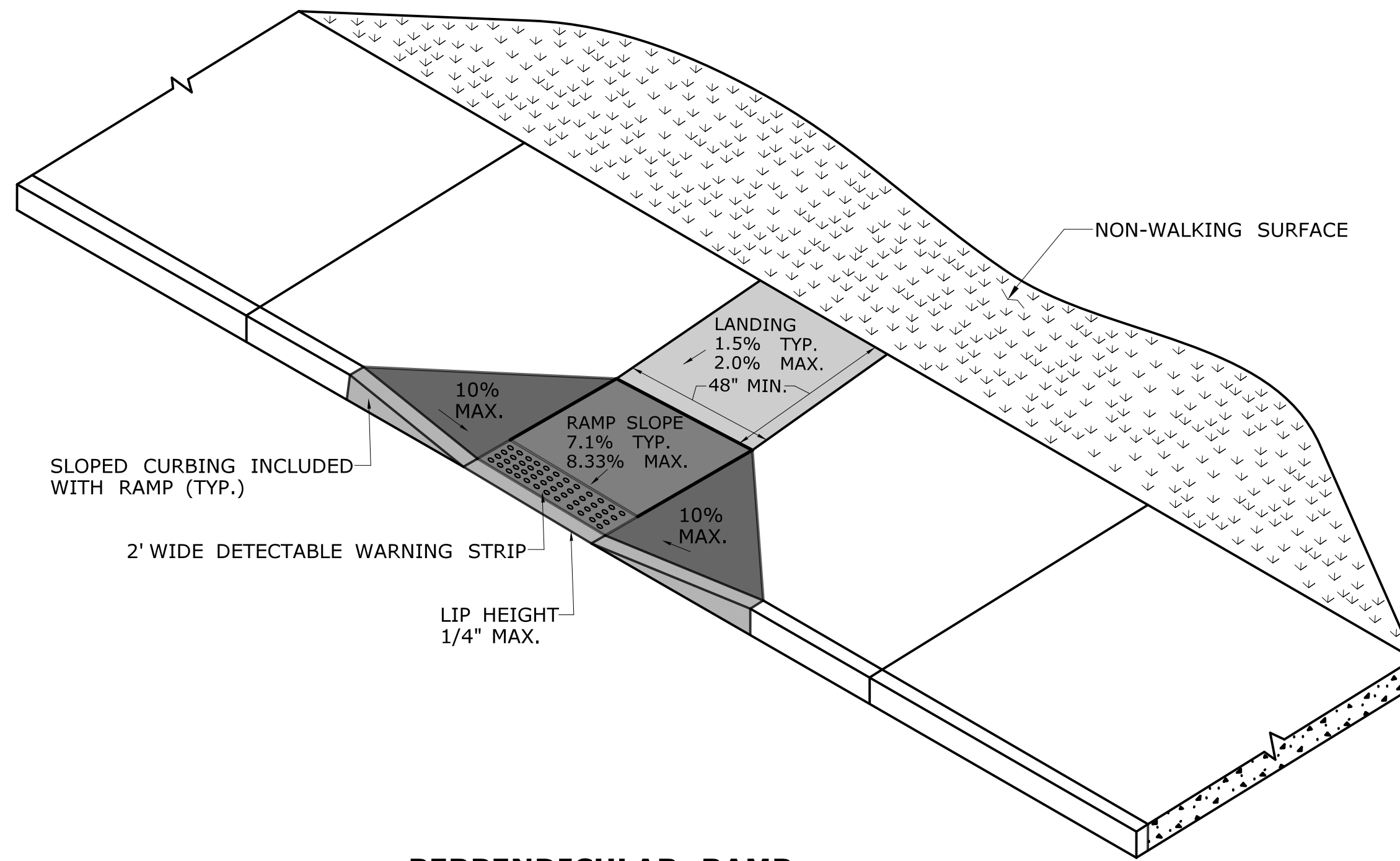
TOWN:
STONINGTON

DRAWING TITLE:
CONCRETE SIDEWALK RAMPS SHEET 3

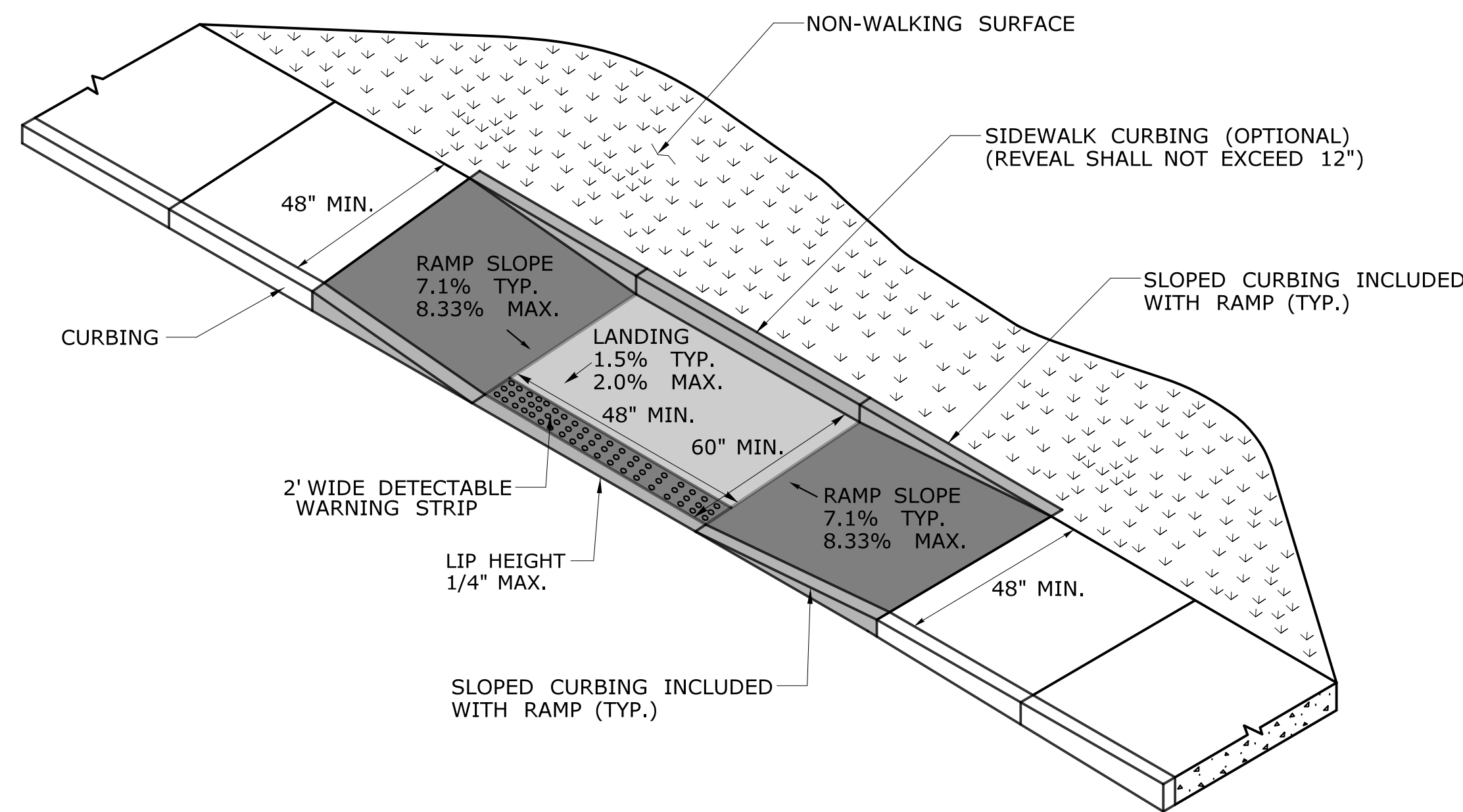
PROJECT NO.
ITB-2019-002

DRAWING NO.
DET-3

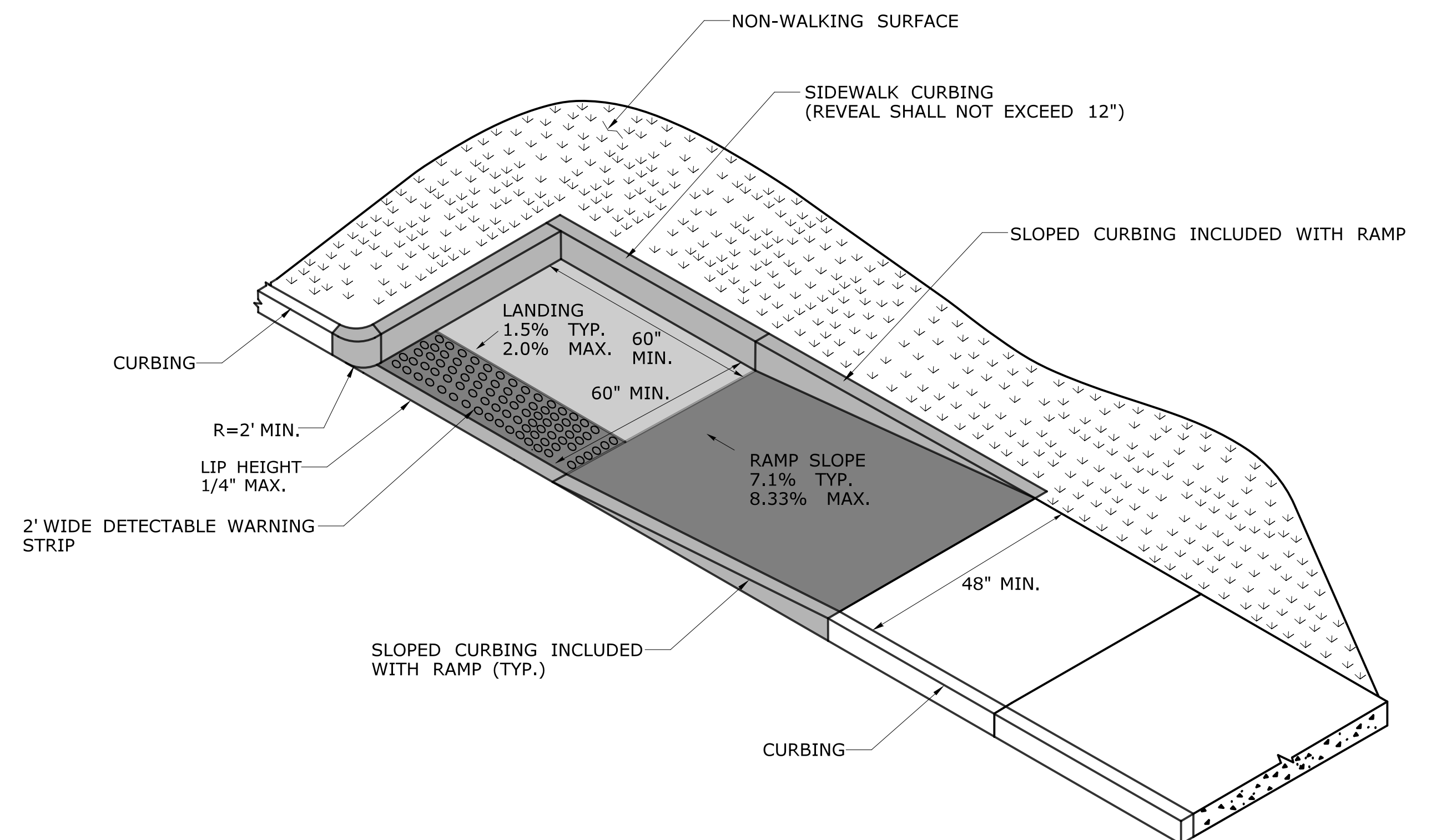
SHEET NO.
10



PERPENDICULAR RAMP WITH 48" BY-PASS (TYPE 8)



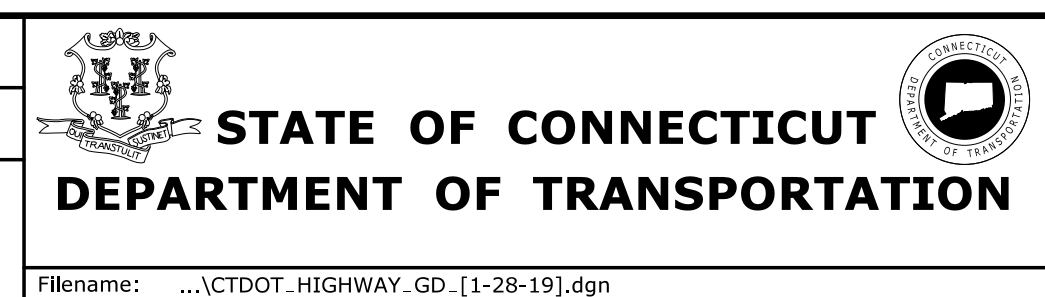
PARALLEL RAMP WITHOUT NON-WALKING SURFACE (TYPE 9)



PARALLEL RAMP WITH LANDING AT BOTTOM ON CORNER (TYPE 10)

REV.	DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 4/29/2019

DESIGNER/DRAFTER: J.D.
 CHECKED BY: J.R.

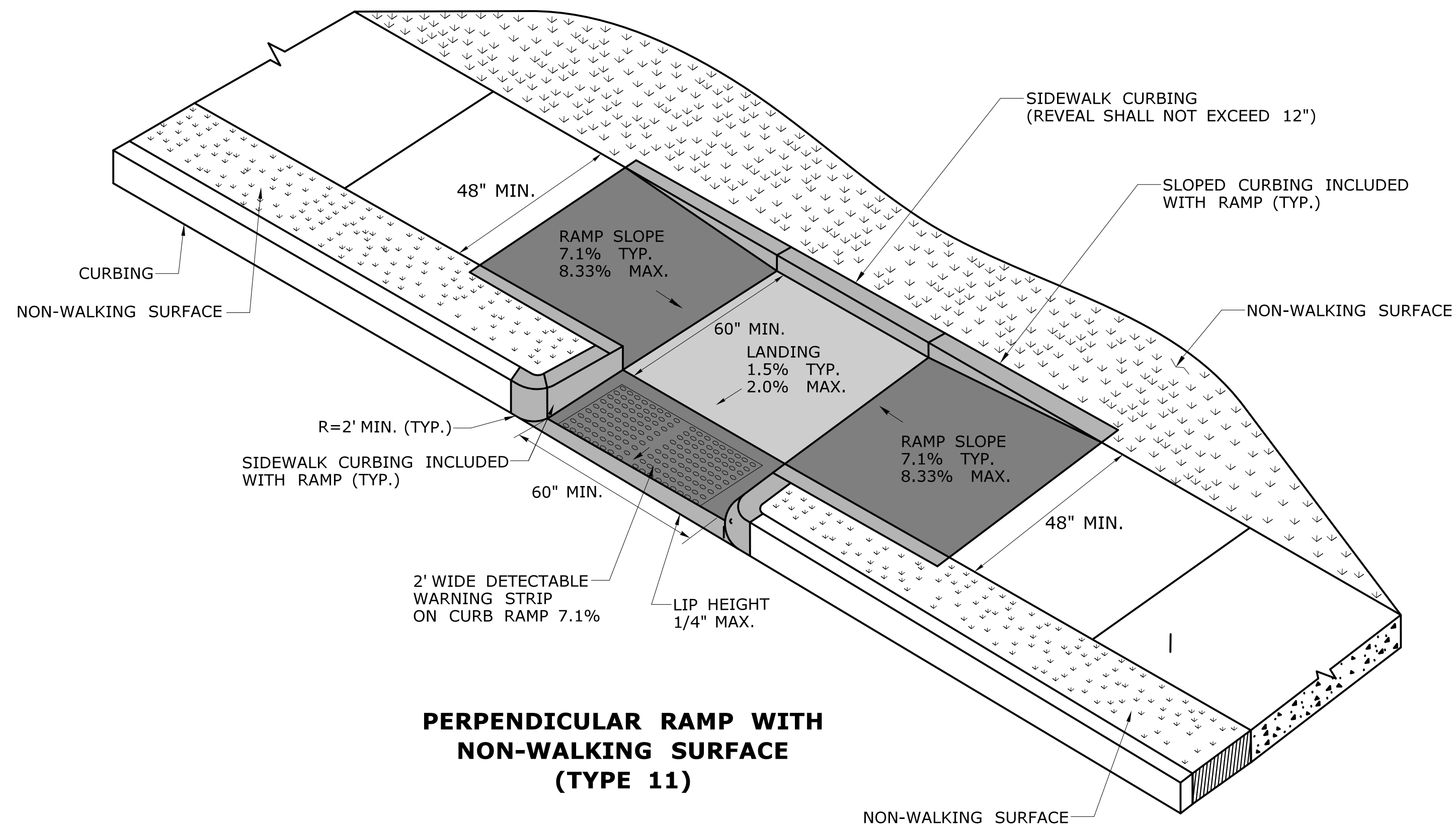


SIGNATURE/BLOCK:
OFFICE OF ENGINEERING
 APPROVED BY:

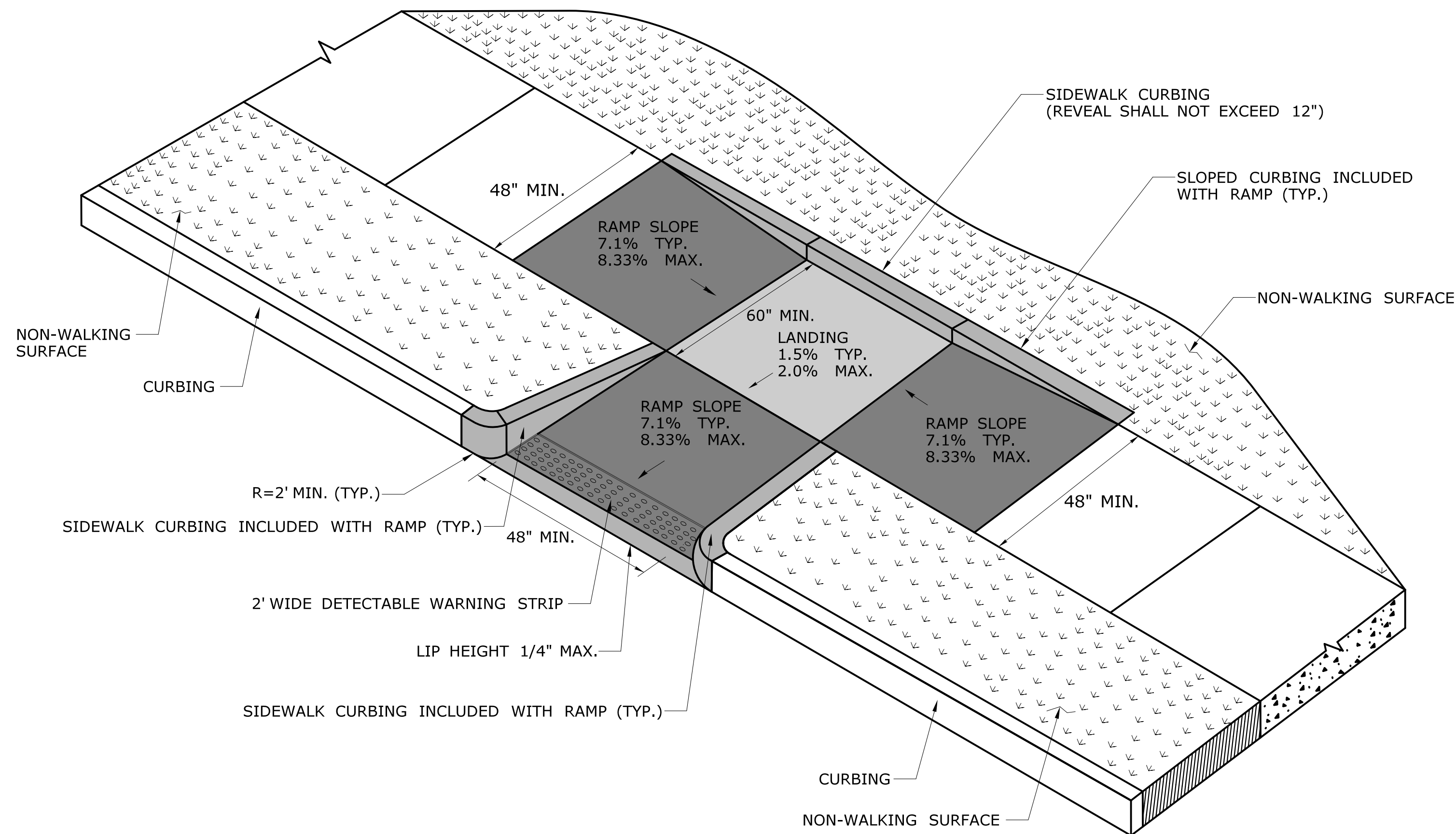
PROJECT TITLE:
ADA SIDEWALK RAMP COMPLIANCE PROJECT

TOWN: **STONINGTON**
 DRAWING TITLE:
CONCRETE SIDEWALK RAMPS SHEET 4

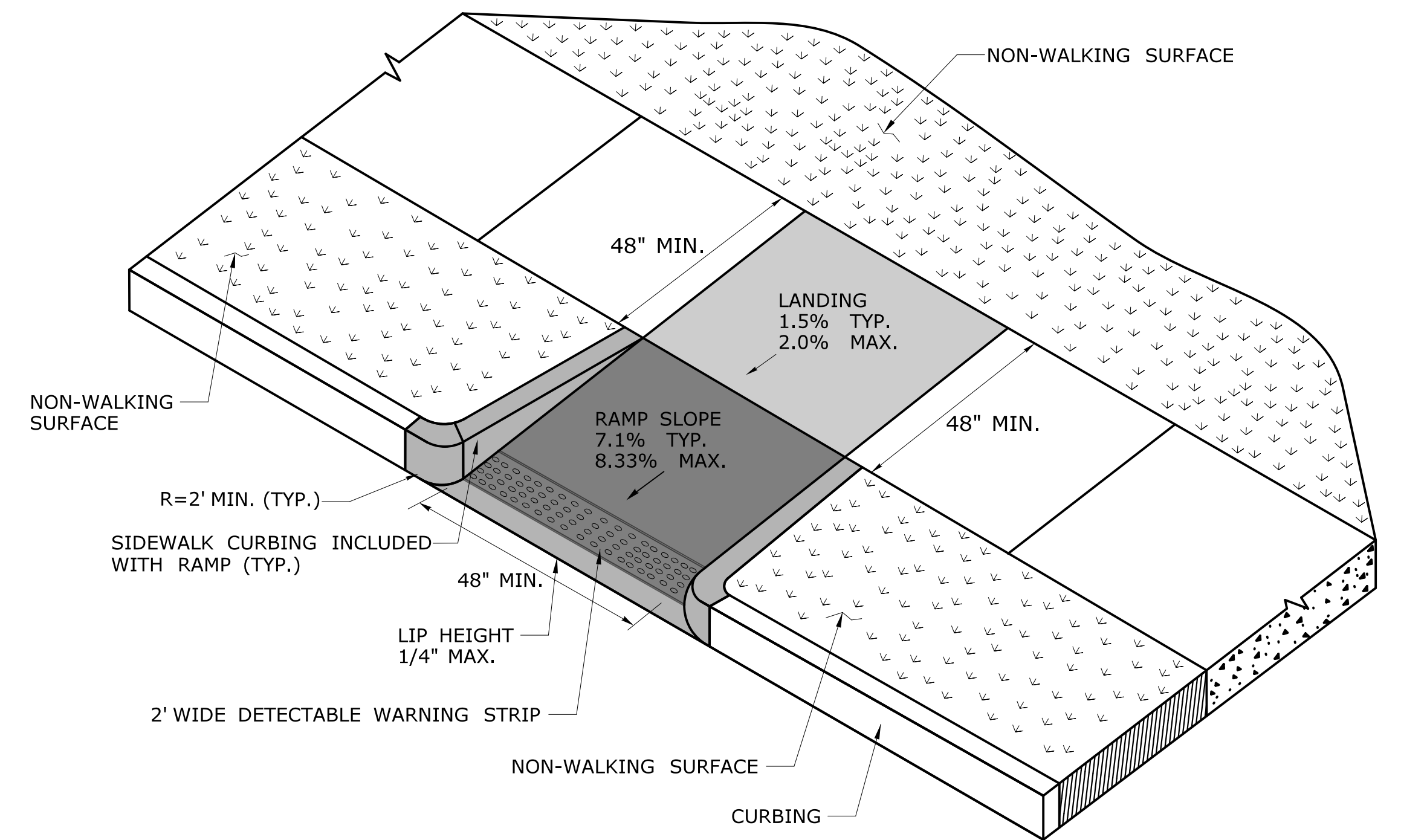
PROJECT NO.: **ITB-2019-002**
 DRAWING NO.: **DET-4**
 SHEET NO.: **11**



**PERPENDICULAR RAMP WITH
NON-WALKING SURFACE
(TYPE 11)**

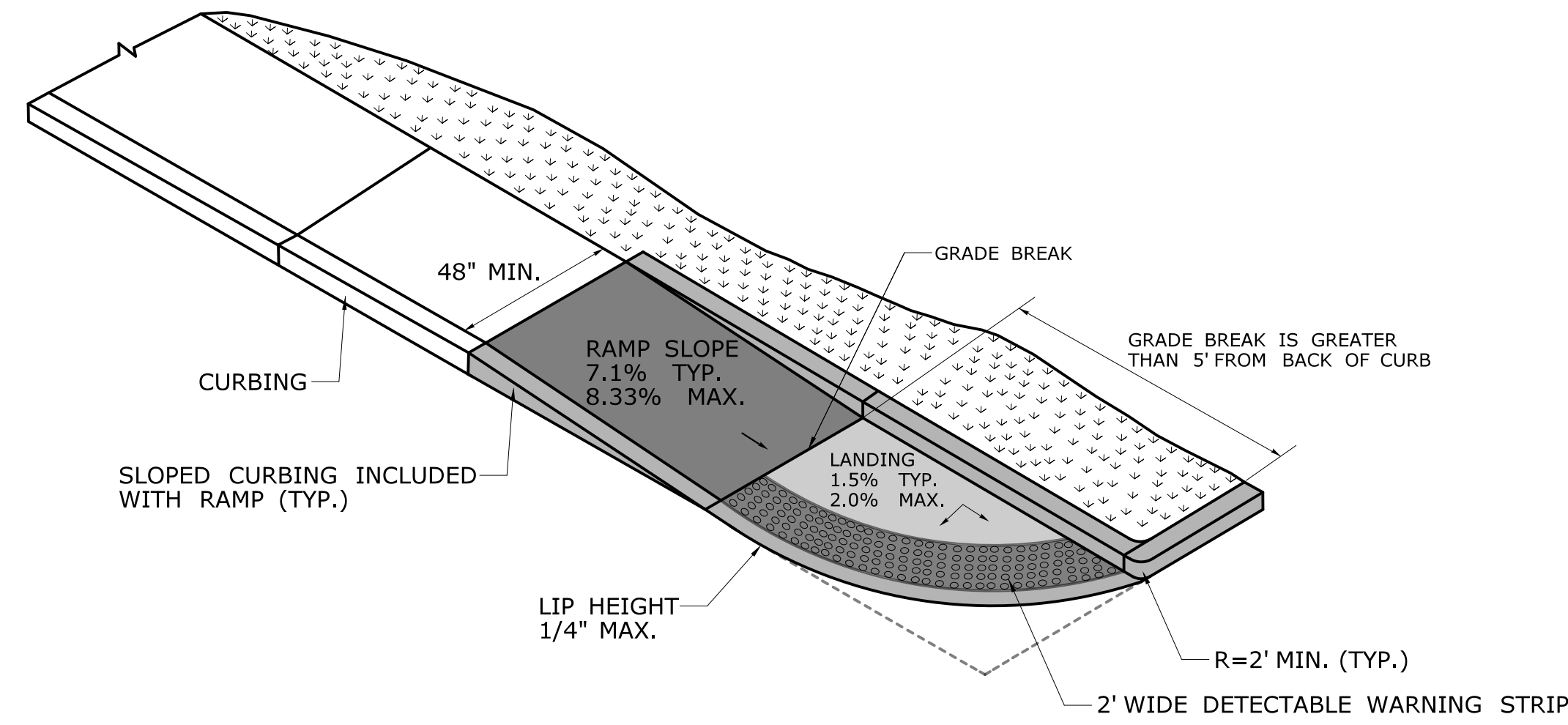


**PERPENDICULAR RAMP WITH SIDEWALK CURB
AND NON-WALKING SURFACE
(TYPE 12)**

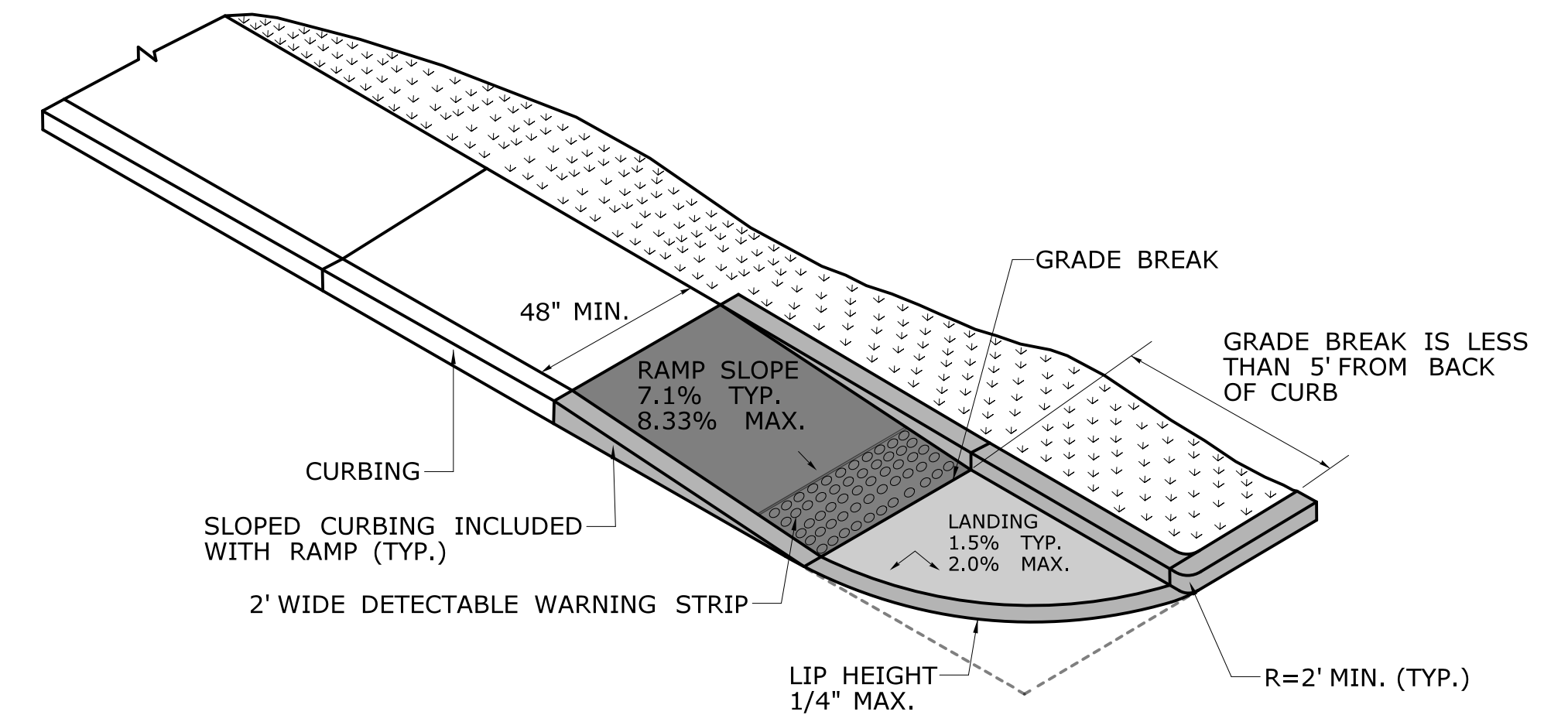


**PERPENDICULAR RAMP
WITH NON-WALKING SURFACE
(TYPE 13)**

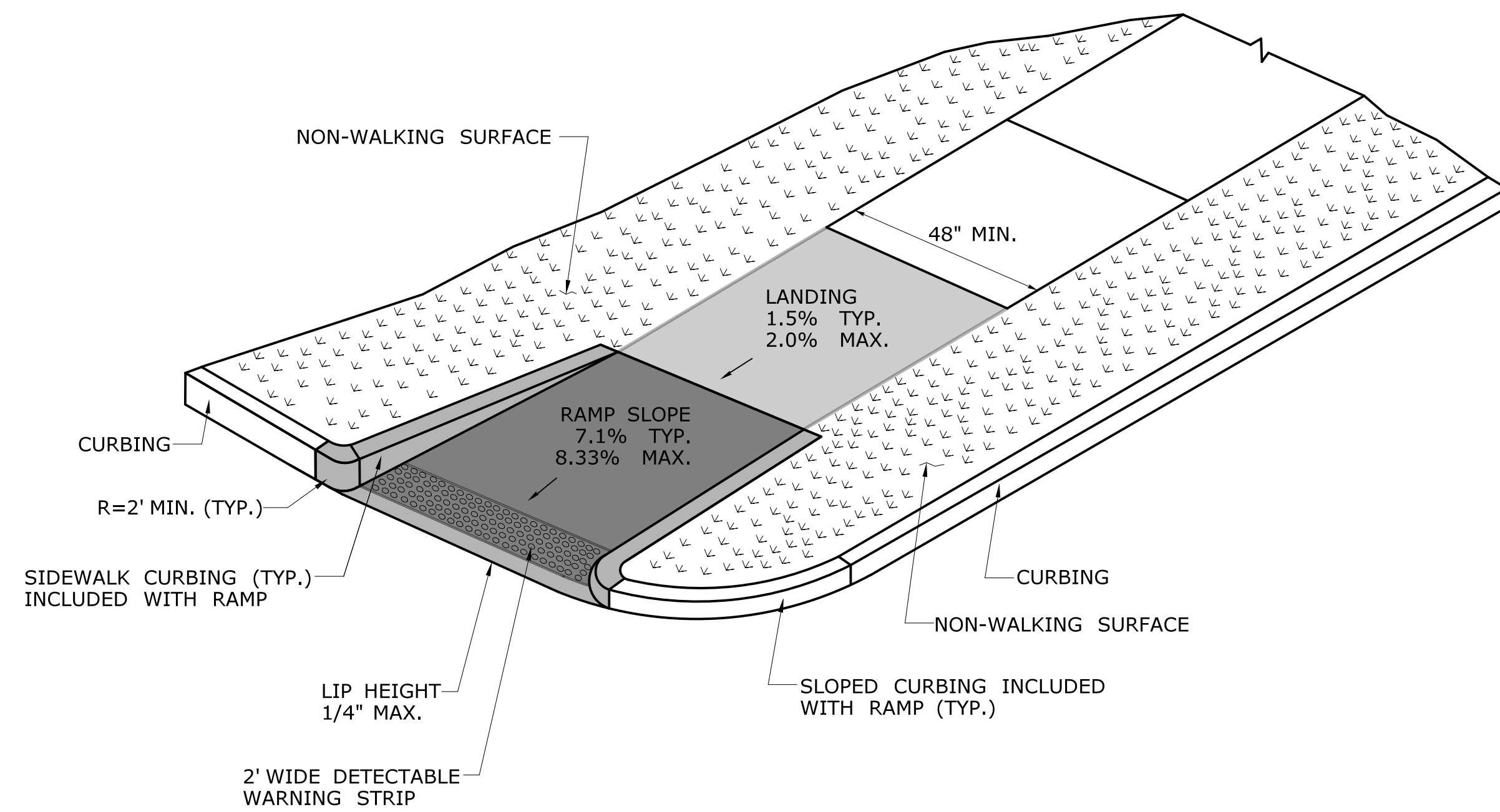
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REV. DATE REVISION DESCRIPTION SHEET NO. Plotted Date: 4/29/2019	FILENAME: ...CTDOT_HIGHWAY_GD_[1-28-19].dgn	OFFICE OF ENGINEERING		DRAWING TITLE: CONCRETE SIDEWALK RAMPS SHEET 5	SHEET NO. 12		



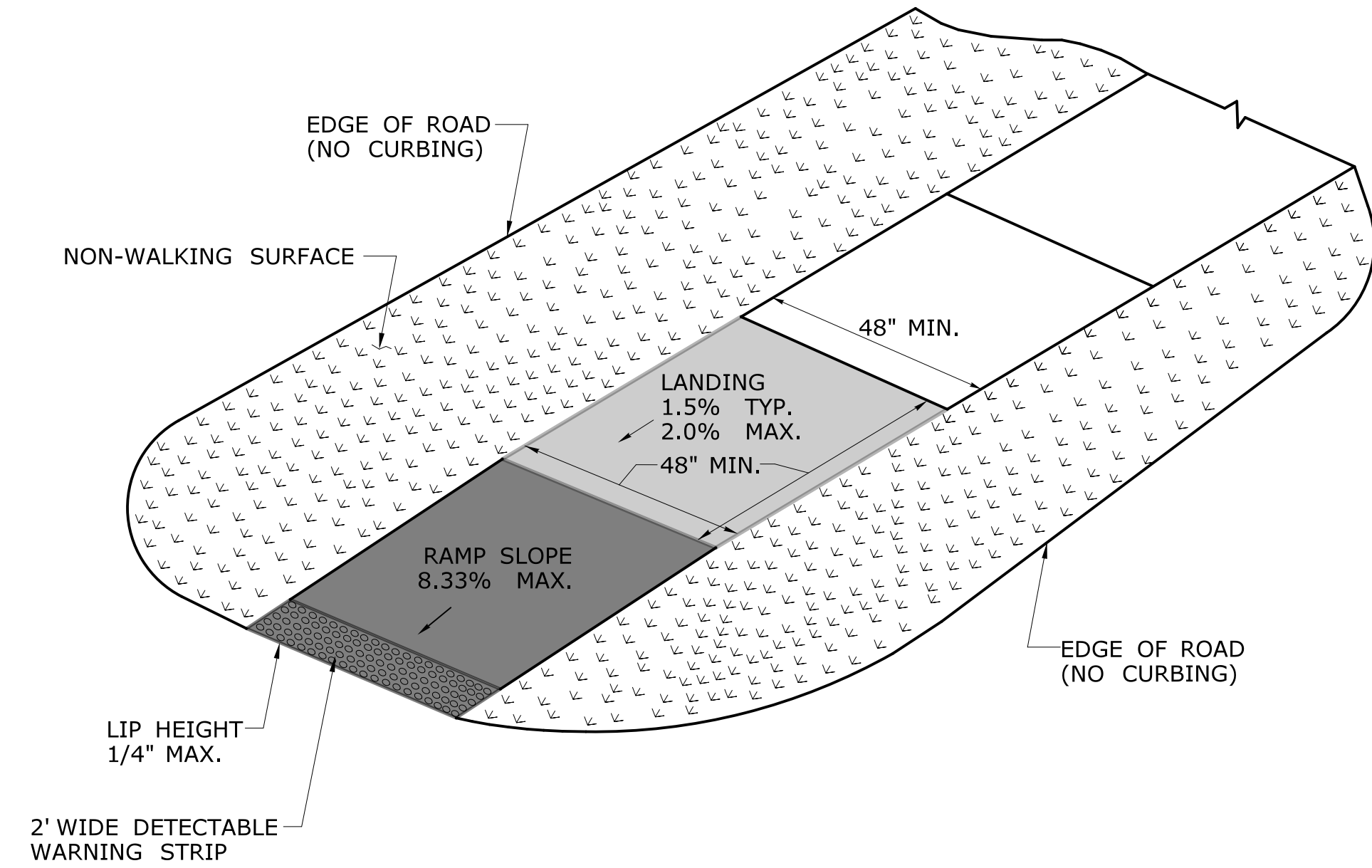
**SINGLE DIRECTION RAMP
WITHOUT NON-WALKING SURFACE
GRADE BREAK GREATER THAN 5'
(TYPE 14)**



**SINGLE DIRECTION RAMP
WITHOUT NON-WALKING SURFACE
GRADE BREAK LESS THAN 5'
(TYPE 15)**

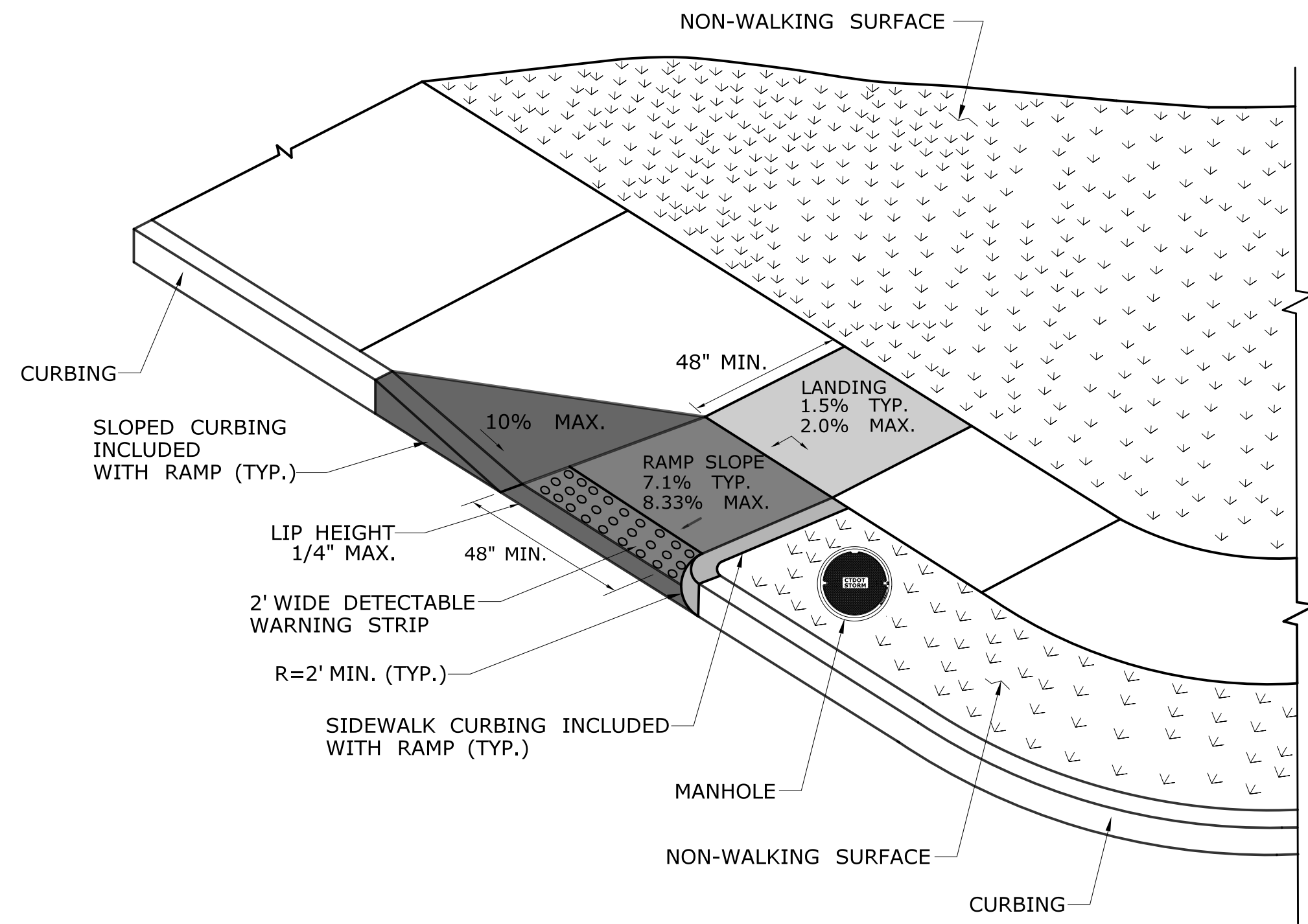


**SINGLE DIRECTION - RETURN CURB
WITH NON-WALKING SURFACE
(TYPE 16)**

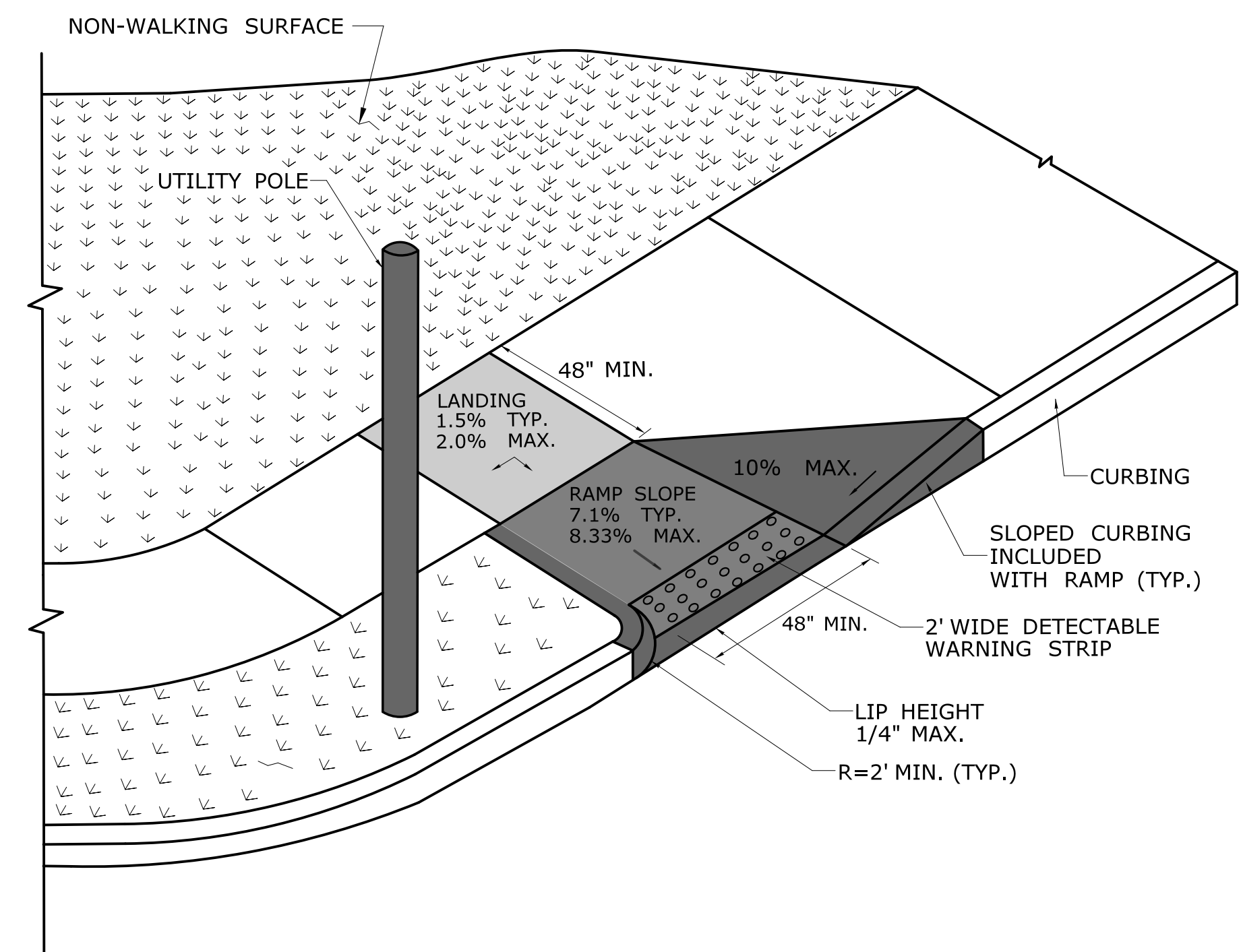


**SINGLE DIRECTION - NO CURB
WITH NON-WALKING SURFACE
(TYPE 17)**

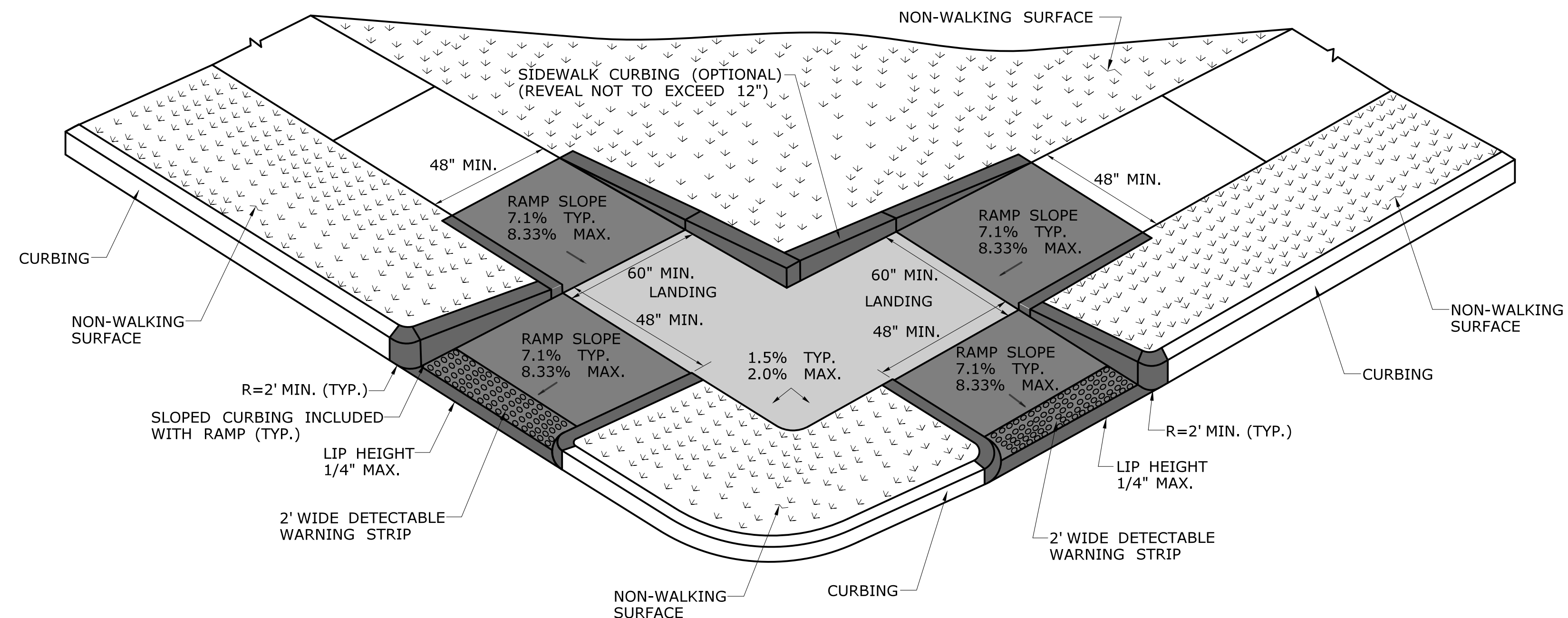
THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.		DESIGNER/DRAFTER: J.D. CHECKED BY: J.R.	<p>STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION</p>	SIGNATURE/ BLOCK: OFFICE OF ENGINEERING APPROVED BY:	PROJECT TITLE: ADA SIDEWALK RAMP COMPLIANCE PROJECT	TOWN: STONINGTON	PROJECT NO. ITB-2019-002 DRAWING NO. DET-6 SHEET NO. 13
REV. DATE REVISION DESCRIPTION SHEET NO. Plotted Date: 4/29/2019	Filename: ... \CTDOT_HIGHWAY_GD_[1-28-19].dgn			CONCRETE SIDEWALK RAMPS SHEET 6			



**PERPENDICULAR RAMP
WITH NON-WALKING SURFACE
(TYPE 18 LEFT)**



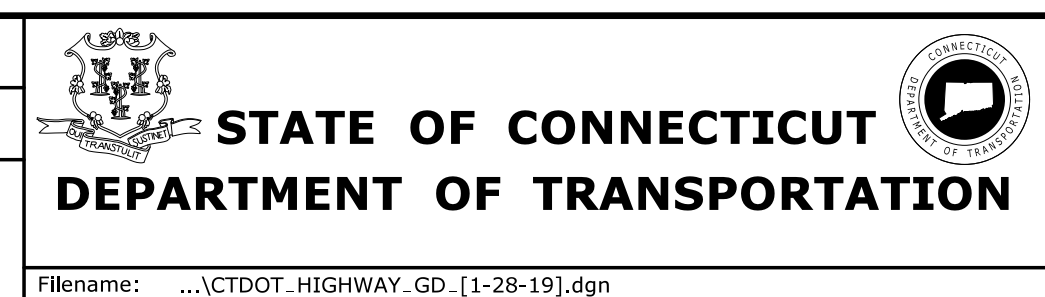
**PERPENDICULAR RAMP
WITH NON-WALKING SURFACE
(TYPE 18 RIGHT)**



**PERPENDICULAR RAMP
WITH NON-WALKING SURFACE
(TYPE 19)**

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

DESIGNER/DRAFTER:
J.D.
CHECKED BY:
J.R.

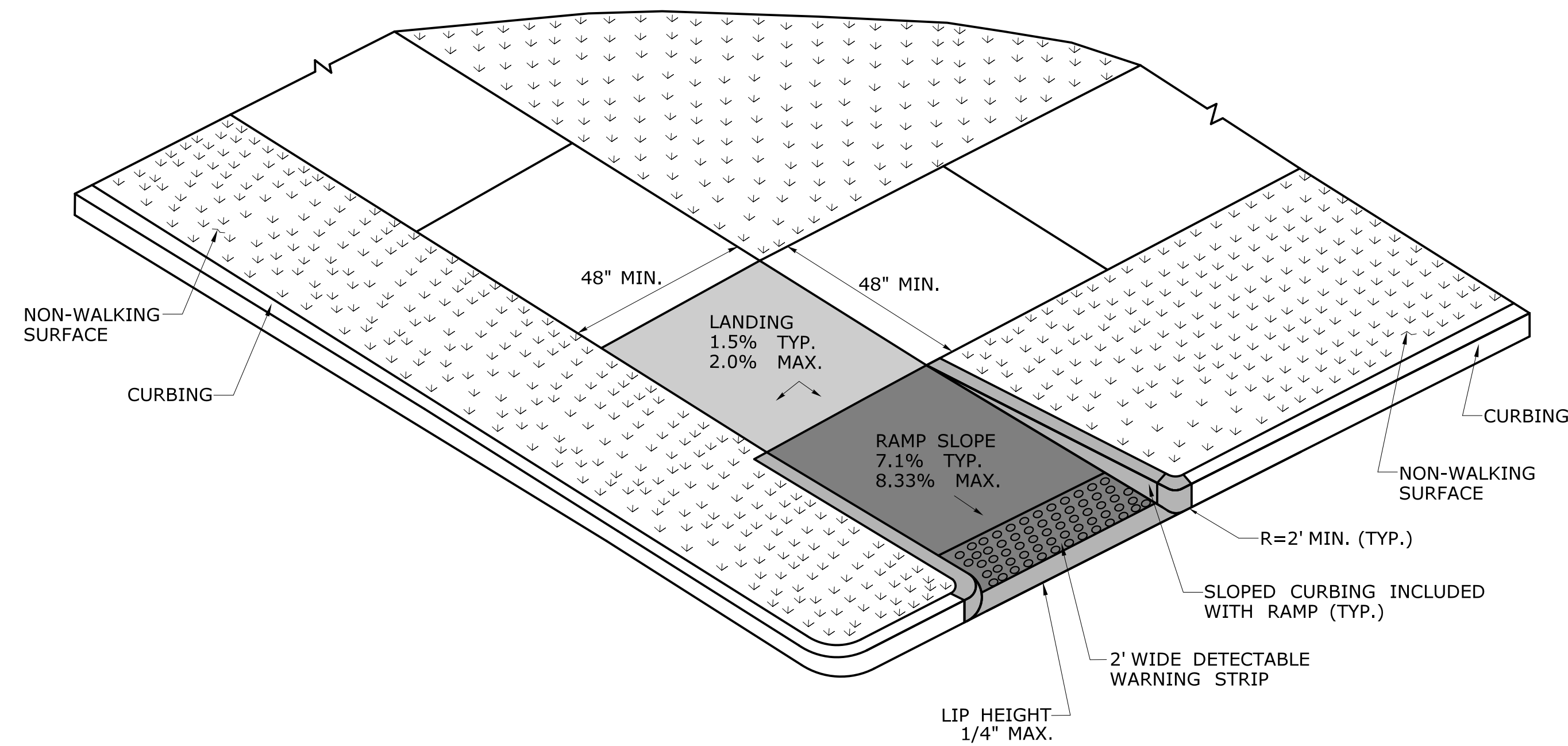


SIGNATURE/
BLOCK:
OFFICE OF ENGINEERING
APPROVED BY:

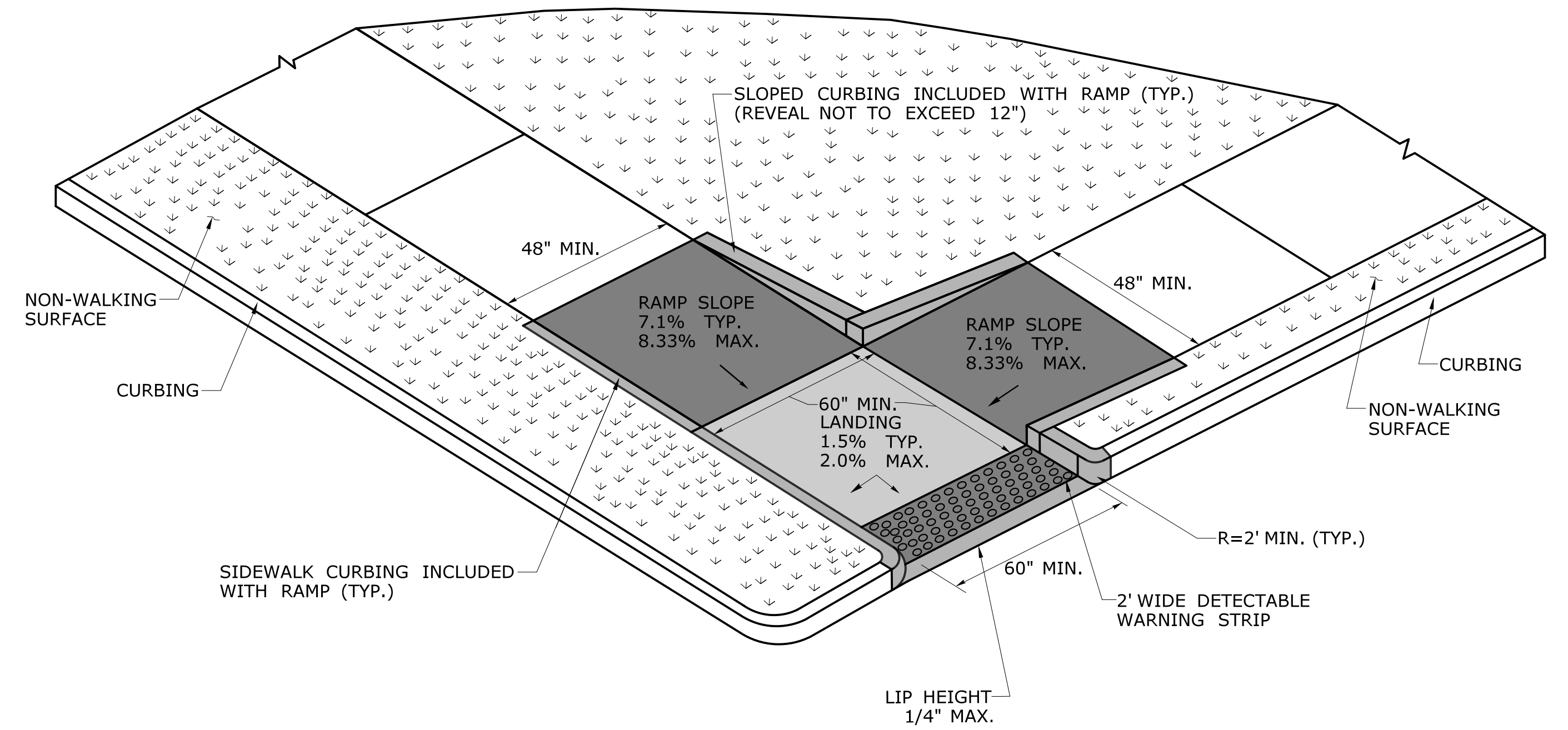
PROJECT TITLE:
**ADA SIDEWALK RAMP
COMPLIANCE PROJECT**

TOWN:
STONINGTON
DRAWING TITLE:
**CONCRETE SIDEWALK
RAMPS SHEET 7**

PROJECT NO.
ITB-2019-002
DRAWING NO.
DET-7
SHEET NO.
14

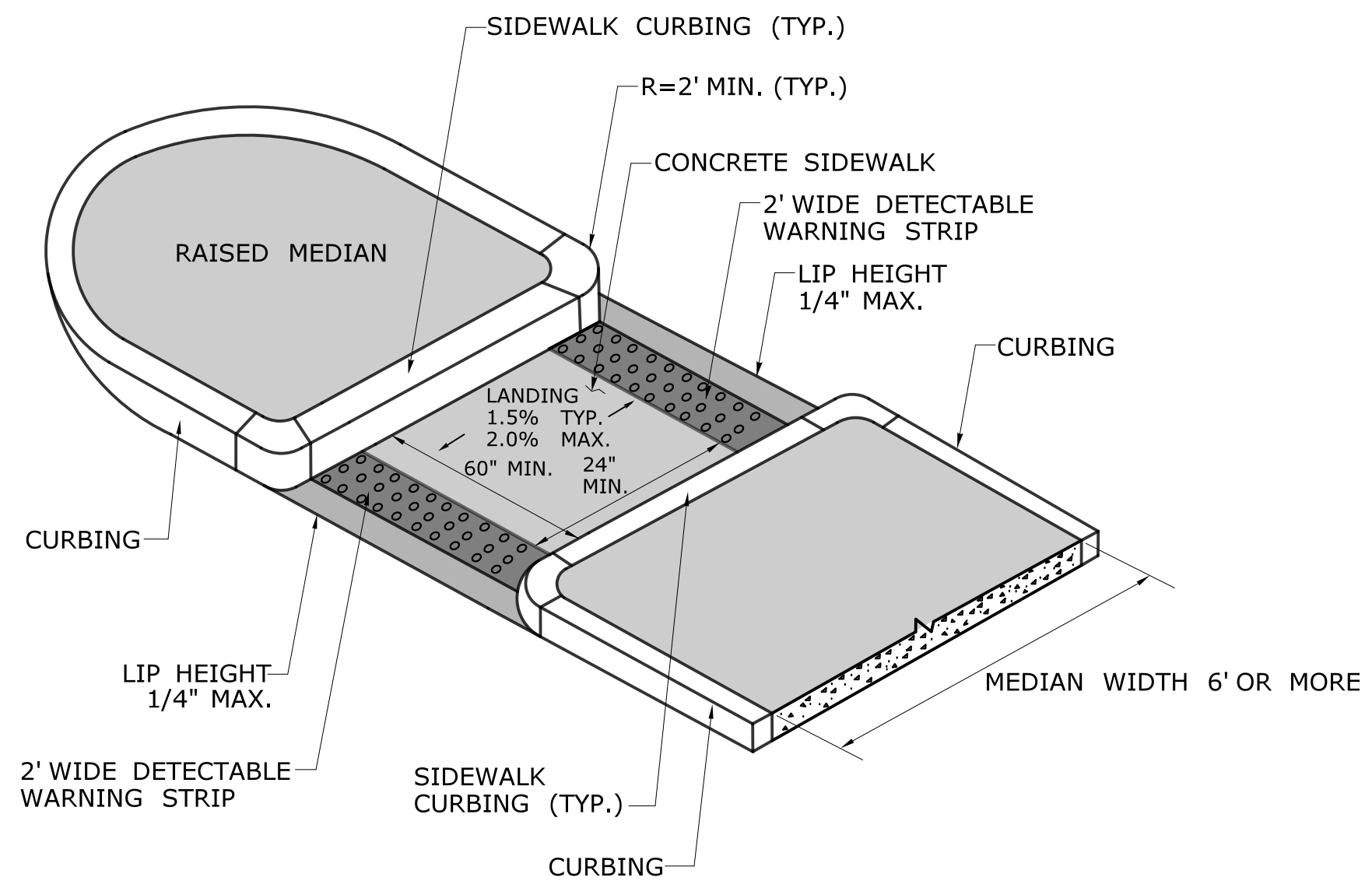


RESTRICTED PEDESTRIAN CROSSING SIDEWALK RAMP WITH NON-WALKING SURFACE (TYPE 20)

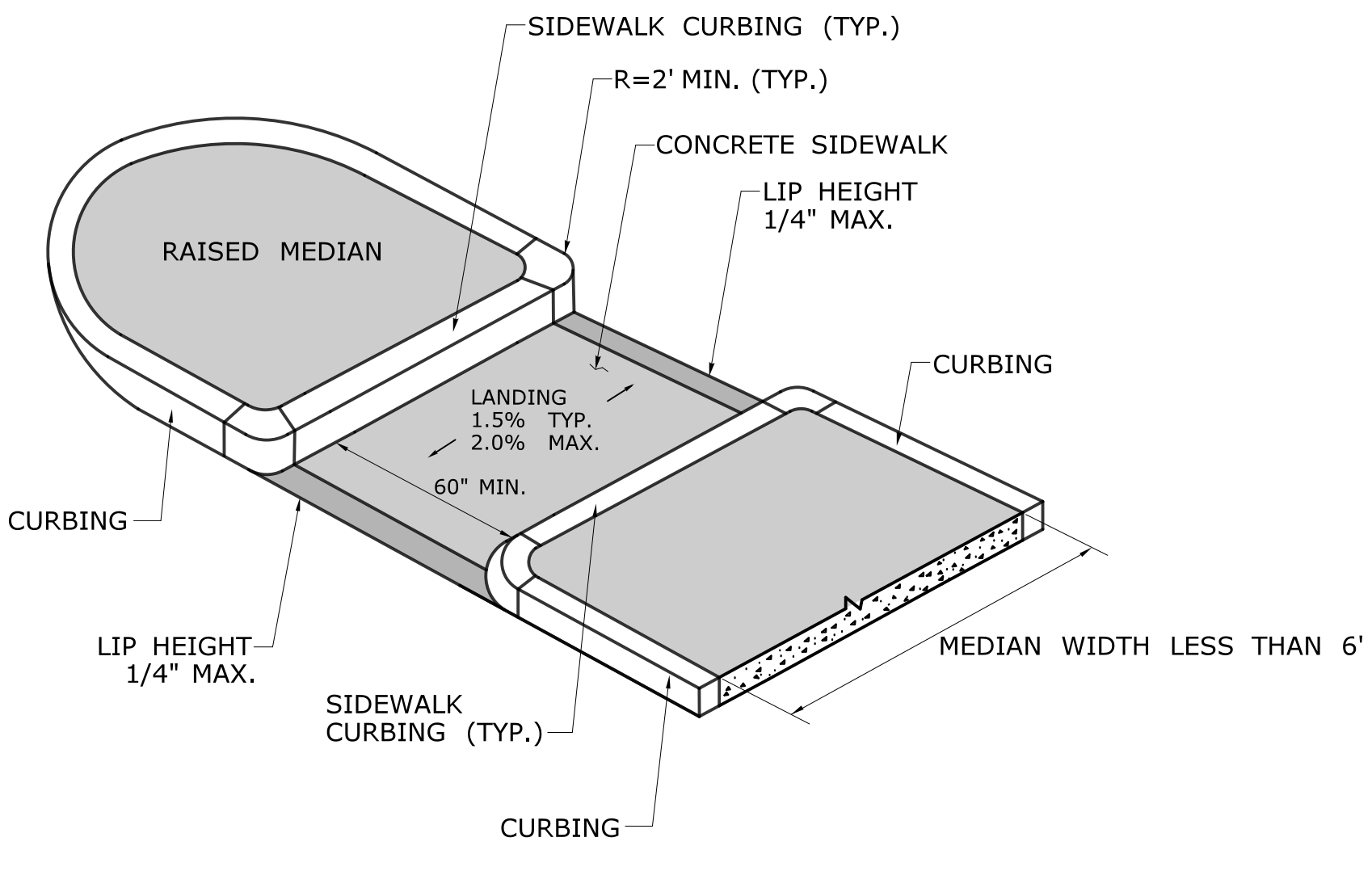


RESTRICTED PEDESTRIAN CROSSING WITH LANDING AT BOTTOM AND NON-WALKING SURFACE (TYPE 21)

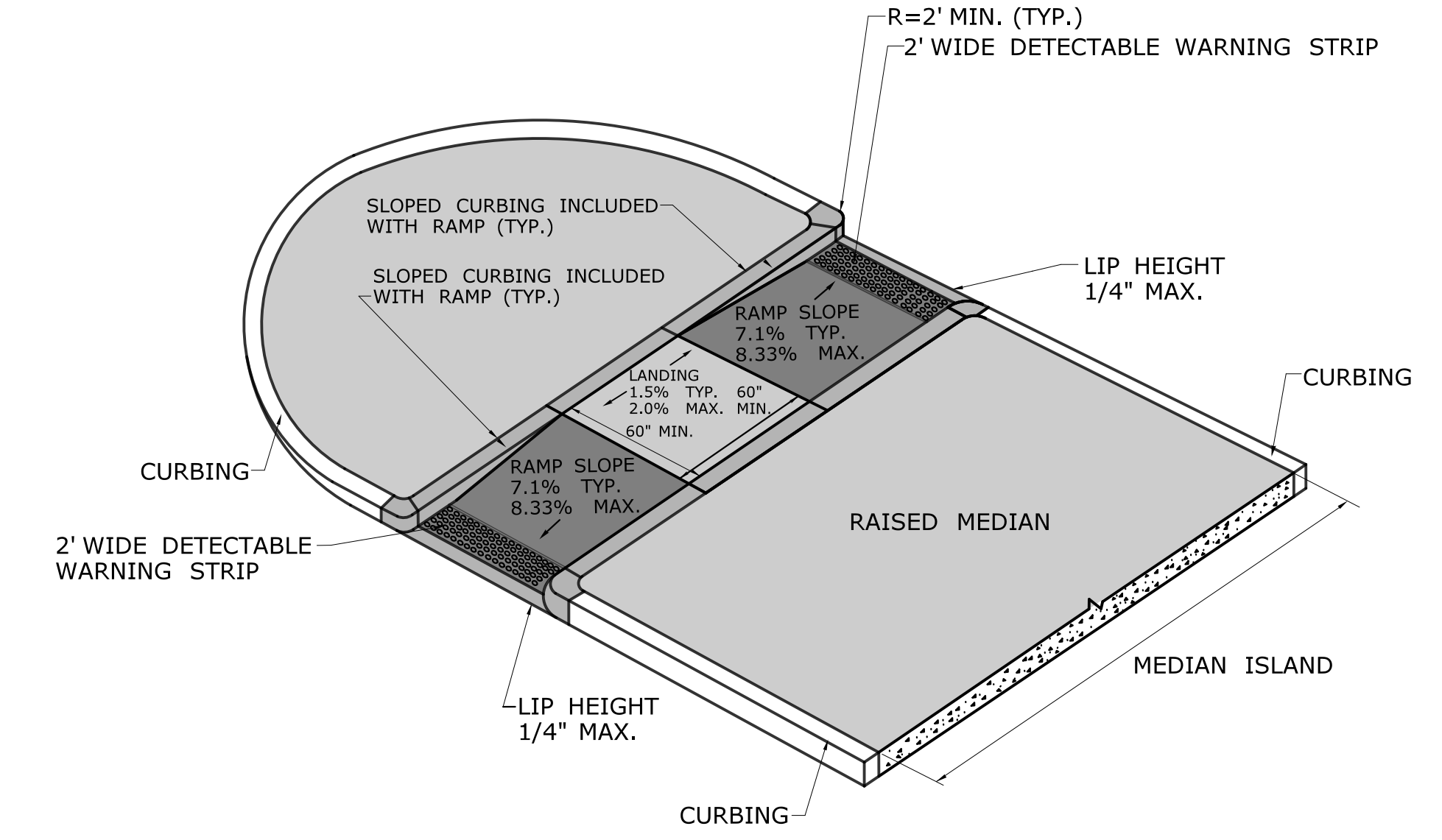
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CHECKED BY: J.R.	APPROVED BY:	DRAWING TITLE: CONCRETE SIDEWALK RAMPS SHEET 8		DRAWING NO. DET-8			
REV. DATE REVISION DESCRIPTION SHEET NO. Plotted Date: 4/29/2019	Filename: ... \CTDOT_HIGHWAY_GD_[1-28-19].dgn				SHEET NO. 15		



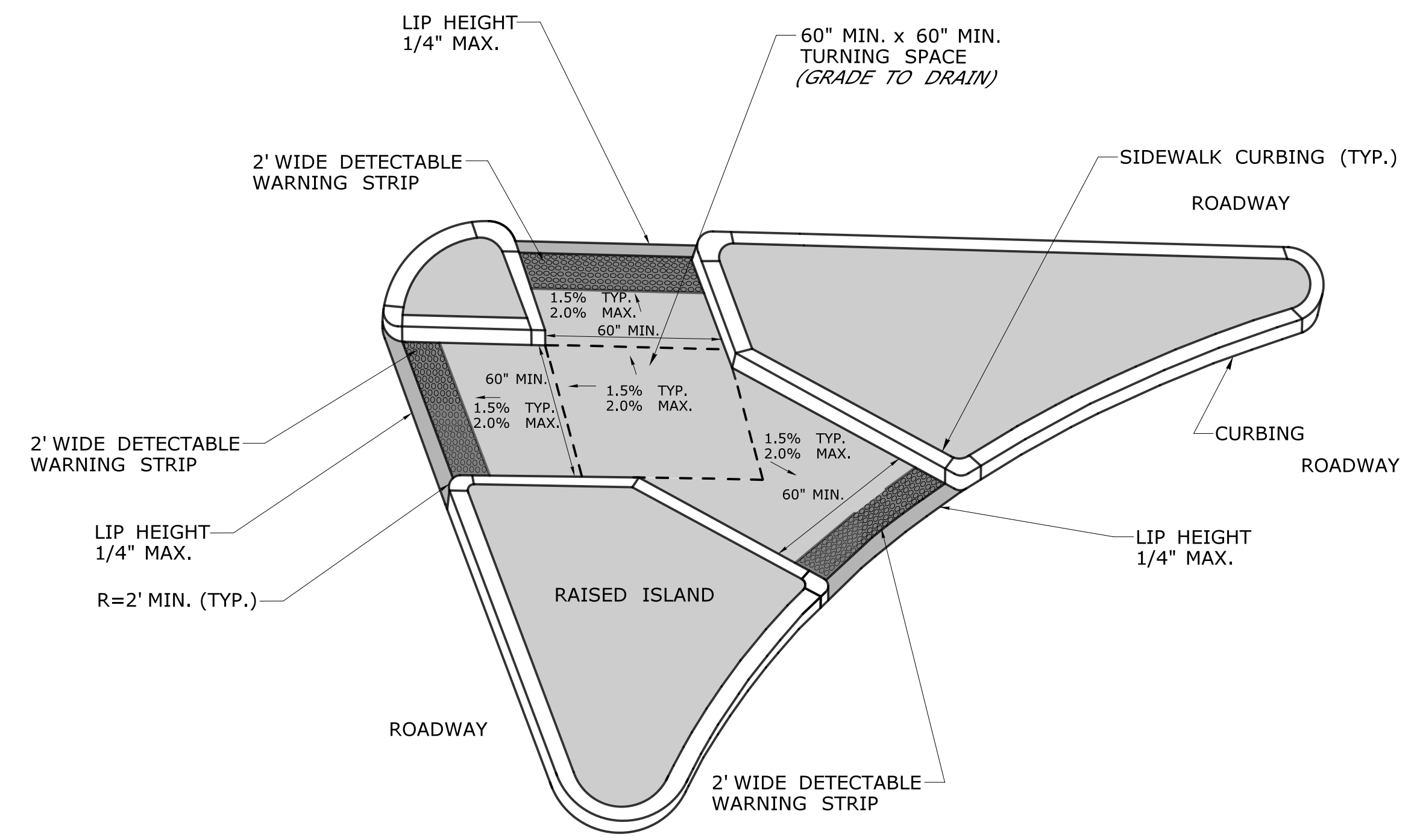
**CUT-THROUGH PEDESTRIAN REFUGE ISLAND
MEDIAN WIDTH 6' OR MORE
(TYPE 22)**



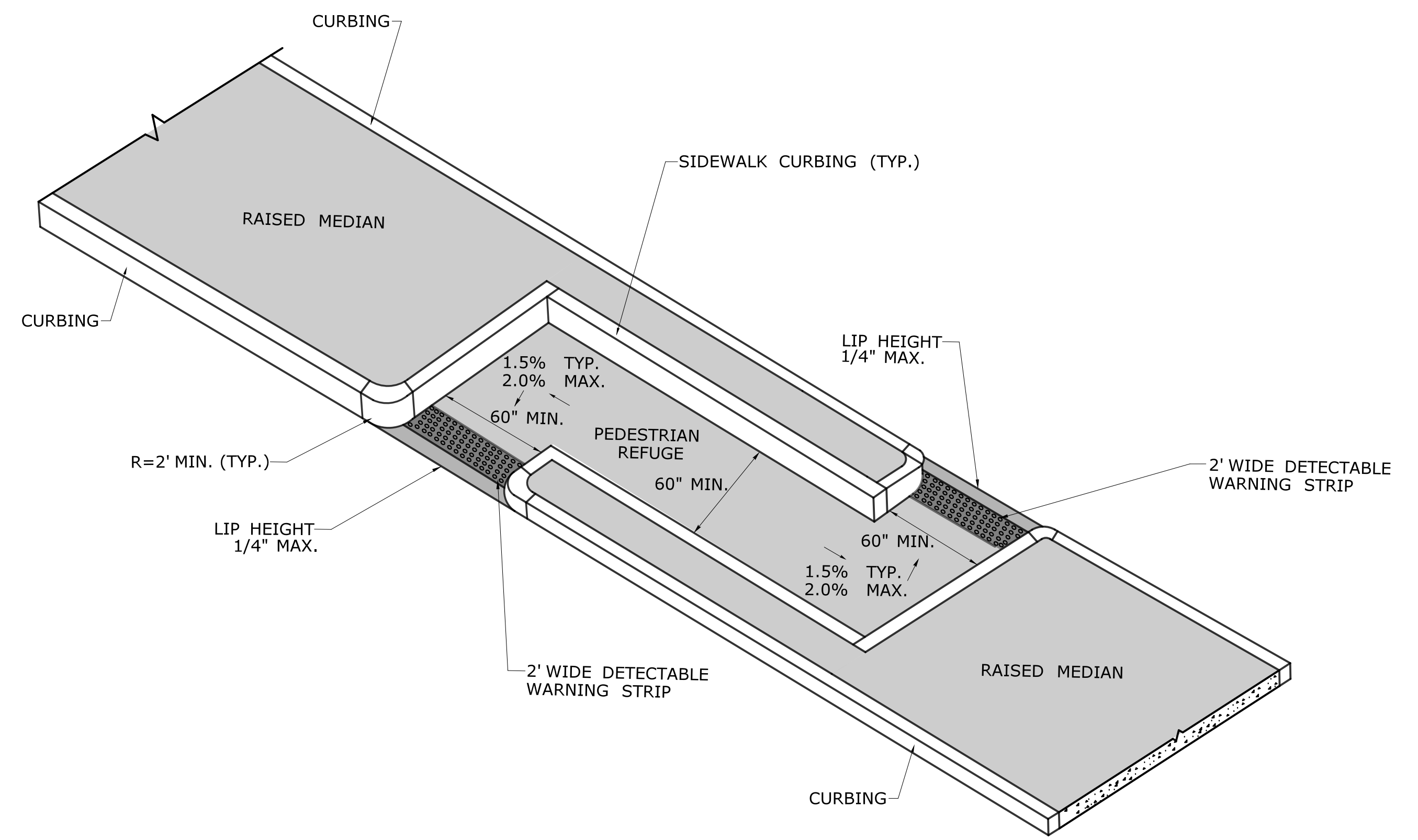
**CUT-THROUGH PEDESTRIAN REFUGE ISLAND
MEDIAN WIDTH LESS THAN 6'
(TYPE 23)**



**PEDESTRIAN REFUGE ISLAND WITH LANDING AND RAMPS
(TYPE 24)**



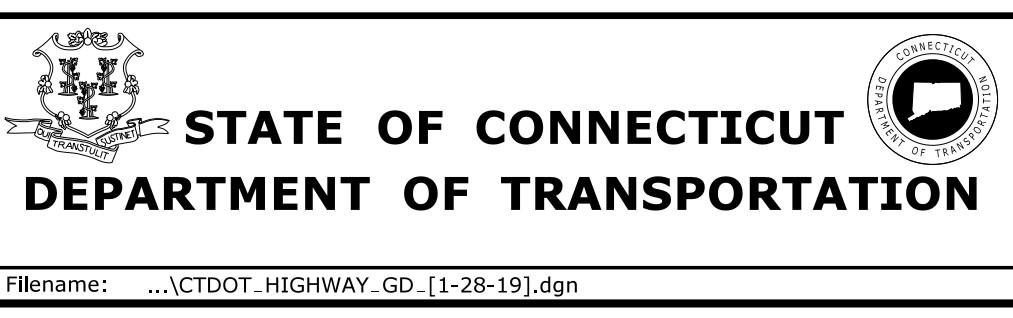
**CUT-THROUGH PEDESTRIAN REFUGE ISLAND
(TYPE 25)**



**CUT-THROUGH PEDESTRIAN REFUGE ISLAND
OFFSET CONFIGURATION
(TYPE 26)**

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

DESIGNER/DRAFTER:
J.D.
CHECKED BY:
J.R.

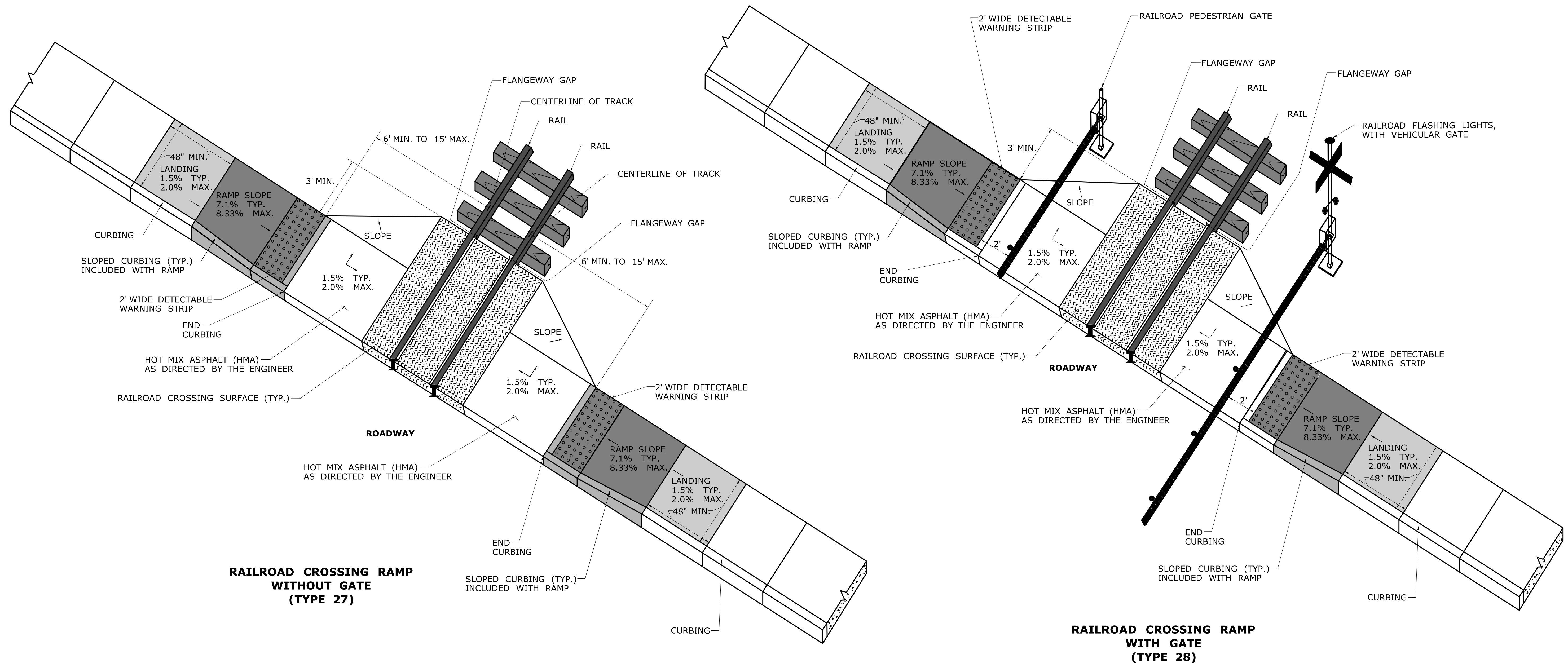


SIGNATURE/
BLOCK:
OFFICE OF ENGINEERING
APPROVED BY:

PROJECT TITLE:
**ADA SIDEWALK RAMP
COMPLIANCE PROJECT**

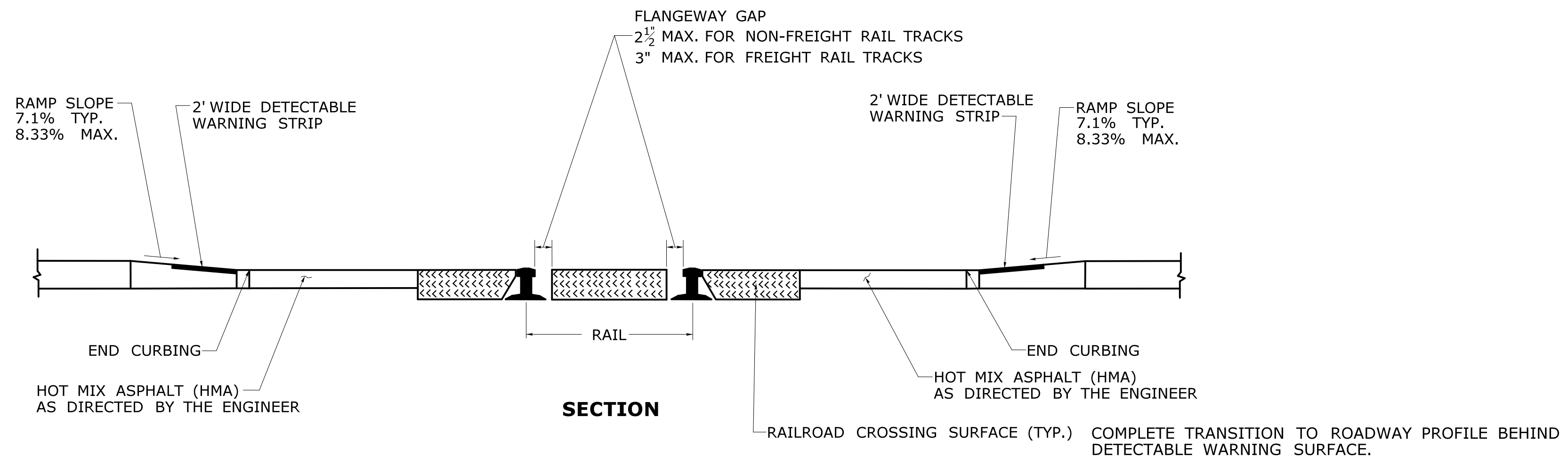
TOWN:
STONINGTON
DRAWING TITLE:
**CONCRETE SIDEWALK
RAMPS SHEET 9**

PROJECT NO.
ITB-2019-002
DRAWING NO.
DET-9
SHEET NO.
16



RAILROAD CROSSING RAMP WITHOUT GATE (TYPE 27)

RAILROAD CROSSING RAMP WITH GATE (TYPE 28)



SECTION

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.		DESIGNER/DRAFTER: J.D. CHECKED BY: J.R.	STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION	SIGNATURE/BLOCK: OFFICE OF ENGINEERING APPROVED BY:	PROJECT TITLE: ADA SIDEWALK RAMP COMPLIANCE PROJECT	TOWN: STONINGTON	PROJECT NO. ITB-2019-002 DRAWING NO. DET-10 SHEET NO. 17
REV.	DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 4/29/2019	Filename: ...CTDOT_HIGHWAY_GD_[1-28-19].dgn		

[DOL Web Site](#) • [Wage and Workplace Issues](#) • [Wage Rates](#) • [Heavy/Highway Rates - Stonington](#)

Heavy/Highway Rates - Stonington (effective July 1, 2018)

Classification	Hourly Rate	Benefits
01) Asbestos/Toxic Waste Removal Laborers: Asbestos removal and encapsulation (except its removal from mechanical systems which are not to be scrapped), toxic waste removers, blasters. **See Laborers Group 5 and 7**		
1) Boilermaker	\$33.79	34% + 8.96
----LINE CONSTRUCTION----		
24) Driver Groundmen	\$30.92	6.5% + 9.70
25) Groundmen	\$22.67	6.5% + 6.20
26) Heavy Equipment Operators	\$37.10	6.5% + 10.70
27) Linemen, Cable Splicers, Dynamite Men	\$41.22	6.5% + 12.20
28) Material Men, Tractor Trailer Drivers, Equipment Operators	\$35.04	6.5% + 10.45
1a) Bricklayer, Cement Masons, Cement Finishers, Plasterers, Stone Masons	\$33.48	31.66
2) Carpenters, Piledrivermen	\$32.60	25.34
2a) Diver Tenders	\$32.60	25.34
3) Divers	\$41.06	25.34
03a) Millwrights	\$33.14	25.74
4) Painters: (Bridge Construction) Brush, Roller, Blasting (Sand, Water, etc.), Spray	\$49.75	21.05
4a) Painters: Brush and Roller	\$33.62	21.05
4b) Painters: Spray Only	\$36.62	21.05
4c) Painters: Steel Only	\$35.62	21.05
4d) Painters: Blast and Spray	\$36.62	21.05
4e) Painters: Tanks, Tower and Swing	\$35.62	21.05
5) Electrician (Trade License required: E-1,2 L-5,6 C-5,6 T-1,2 L-1,2 V-1,2,7,8,9)	\$40.00	25.97+3% of gross wage
6) Ironworkers: Ornamental, Reinforcing, Structural, and Precast Concrete Erection	\$35.47	35.14 + a
7) Plumbers (Trade License required: (P-1,2,6,7,8,9 J-1,2,3,4 SP-1,2) and Pipefitters (Including HVAC Work) (Trade License required: S-1,2,3,4,5,6,7,8 B-1,2,3,4 D-1,2,3,4 G-1, G-2, G-8, G-9)	\$42.62	31.21
----LABORERS----		
8) Group 1: Laborer (Unskilled), Common or General, acetylene burner, concrete specialist	\$30.05	20.10
9) Group 2: Chain saw operators, fence and guard rail erectors, pneumatic tool operators, powdermen	\$30.30	20.10

10) Group 3: Pipelayers	\$30.55	20.10
11) Group 4: Jackhammer/Pavement breaker (handheld); mason tenders (cement/concrete), catch basin builders, asphalt rakers, air track operators, block paver, curb setter and forklift operators	\$30.55	20.10
12) Group 5: Toxic waste removal (non-mechanical systems)	\$32.05	20.10
13) Group 6: Blasters	\$31.80	20.10
Group 7: Asbestos/lead removal, non-mechanical systems (does not include leaded joint pipe)	\$31.05	20.10
Group 8: Traffic control signalmen	\$16.00	20.10
Group 9: Hydraulic Drills	\$29.30	18.90
----LABORERS (TUNNEL CONSTRUCTION, FREE AIR). Shield Drive and Liner Plate Tunnels in Free Air.----		
13a) Miners, Motormen, Mucking Machine Operators, Nozzle Men, Grout Men, Shaft & Tunnel Steel & Rodmen, Shield & Erector, Arm Operator, Cable Tenders	\$32.22	20.10 + a
13b) Brakemen, Trackmen	\$31.28	20.10 + a
----CLEANING, CONCRETE AND CAULKING TUNNEL----		
14) Concrete Workers, Form Movers, and Strippers	\$31.28	20.10 + a
15) Form Erectors	\$31.60	20.10 + a
----ROCK SHAFT LINING, CONCRETE, LINING OF SAME AND TUNNEL IN FREE AIR:----		
16) Brakemen, Trackmen, Tunnel Laborers, Shaft Laborers	\$31.28	20.10 + a
17) Laborers Topside, Cage Tenders, Bellman	\$31.17	20.10 + a
18) Miners	\$32.22	20.10 + a
----TUNNELS, CAISSON AND CYLINDER WORK IN COMPRESSED AIR: ----		
18a) Blaster	\$38.53	20.10 + a
19) Brakemen, Trackmen, Groutman, Laborers, Outside Lock Tender, Gauge Tenders	\$38.34	20.10 + a
20) Change House Attendants, Powder Watchmen, Top on Iron Bolts	\$36.41	20.10 + a
21) Mucking Machine Operator	\$39.11	20.10 + a
----TRUCK DRIVERS----(*see note below)		
Two axle trucks	\$29.13	23.33 + a
Three axle trucks; two axle ready mix	\$29.23	23.33 + a
Three axle ready mix	\$29.28	23.33 + a
Four axle trucks, heavy duty trailer (up to 40 tons)	\$29.33	23.33 + a
Four axle ready-mix	\$29.38	23.33 + a
Heavy duty trailer (40 tons and over)	\$29.58	23.33 + a
Specialized earth moving equipment other than conventional type on-the road trucks and semi-trailer (including Euclids)	\$29.38	23.33 + a
----POWER EQUIPMENT OPERATORS----		
Group 1: Crane handling or erecting structural steel or stone, hoisting engineer (2 drums or over), front end loader (7 cubic yards or over), Work Boat 26 ft. & Over, Tunnel Boring Machines. (Trade License Required)	\$39.55	24.05 + a
Group 2: Cranes (100 ton rate capacity and over); Excavator over 2 cubic yards; Piledriver (\$3.00 premium when operator controls hammer); Bauer Drill/Caisson. (Trade License Required)	\$39.23	24.05 + a
Group 3: Excavator/Backhoe under 2 cubic yards; Cranes (under 100 ton rated capacity), Gradall; Master Mechanic; Hoisting Engineer (all types of equipment where a drum and cable are used to hoist or drag material regardless of motive power of operation)	\$38.49	24.05 + a

Group 4: Trenching Machines; Lighter Derrick; Concrete Finishing Machine; CMI Machine or Similar; Koehring Loader (Skooper)	\$38.10	24.05 + a
Group 5: Specialty Railroad Equipment; Asphalt Paver; Asphalt Spreader; Asphalt Reclaiming Machine; Line Grinder; Concrete Pumps; Drills with Self Contained Power Units; Boring Machine; Post Hole Digger; Auger; Pounder; Well Digger; Milling Machine (ove	\$37.51	24.05 + a
Group 5 continued: Side Boom; Combination Hoe and Loader; Directional Driller.	\$37.51	24.05 + a
Group 6: Front End Loader (3 up to 7 cubic yards); Bulldozer (rough grade dozer).	\$37.20	24.05 + a
Group 7: Asphalt Roller; Concrete Saws and Cutters (ride on types); Vermeer Concrete Cutter; Stump Grinder; Scraper; Snooper; Skidder; Milling Machine (24" and Under Mandrel).	\$36.86	24.05 + a
Group 8: Mechanic, Grease Truck Operator, Hydroblaster, Barrier Mover, Power Stone Spreader; Welder; Work Boat under 26 ft.; Transfer Machine.	\$36.46	24.05 + a
Group 9: Front End Loader (under 3 cubic yards), Skid Steer Loader regardless of attachments (Bobcat or Similar); Fork Lift, Power Chipper; Landscape Equipment (including hydroseeder).	\$36.03	24.05 + a
Group 10: Vibratory Hammer, Ice Machine, Diesel and Air Hammer, etc.	\$33.99	24.05 + a
Group 11: Conveyor, Earth Roller; Power Pavement Breaker (whiphammer), Robot Demolition Equipment.	\$33.99	24.05 + a
Group 12: Wellpoint Operator.	\$33.93	24.05 + a
Group 13: Compressor Battery Operator.	\$33.35	24.05 + a
Group 14: Elevator Operator; Tow Motor Operator (Solid Tire No Rough Terrain).	\$32.21	24.05 + a
Group 15: Generator Operator; Compressor Operator; Pump Operator; Welding Machine Operator; Heater Operator.	\$31.80	24.05 + a
Group 16: Maintenance Engineer/Oiler	\$31.15	24.05 + a
Group 17: Portable asphalt plant operator; portable crusher plant operator; portable concrete plant operator.	\$35.46	24.05 + a
Group 18: Power Safety Boat; Vacuum Truck; Zim Mixer; Sweeper; (minimum for any job requiring CDL license).	\$33.04	24.05 + a
**NOTE: SEE BELOW		
----LINE CONSTRUCTION----(Railroad Construction and Maintenance)----		
20) Lineman, Cable Splicer, Technician	\$48.19	6.5% + 22.00
21) Heavy Equipment Operator	\$42.26	6.5% + 19.88
22) Equipment Operator, Tractor Trailer Driver, Material Men	\$40.96	6.5% + 19.21
23) Driver Groundmen	\$26.50	6.5% + 9.00
23a) Truck Driver	\$40.96	6.5% + 17.76

Welders: Rate for craft to which welding is incidental.

*Note: Hazardous waste removal work receives additional \$1.25 per hour for truck drivers.

**Note: Hazardous waste premium \$3.00 per hour over classified rate.

ALL Cranes: When crane operator is operating equipment that requires a fully licensed crane operator to operate he receives an extra \$4.00 premium in addition to the hourly wage rate and benefit contributions:

- 1) Crane handling or erecting structural steel or stone; hoisting engineer (2 drums or over)
- 2) Cranes (100 ton rate capacity and over) Bauer Drill/Caisson
- 3) Cranes (under 100 ton rated capacity)

- Crane with boom including jib, 150 feet - \$1.50 extra.
- Crane with boom including jib, 200 feet - \$2.50 extra.
- Crane with boom including jib, 250 feet - \$5.00 extra.
- Crane with boom including jib, 300 feet - \$7.00 extra.
- Crane with boom including jib, 400 feet - \$10.00 extra.

~ ~ ~ All classifications that indicate a percentage of the fringe benefits must be calculated at the percentage rate times the "base hourly rate".

Apprentices duly registered under the Commissioner of Labor's regulations on "Work Training Standards for Apprenticeship and Training Programs" Section 31-51-d-1 to 12, are allowed to be paid the appropriate percentage of the prevailing journeymen hourly base and the full fringe benefit rate, providing the work site ratio shall not be less than one full-time journeyman instructing and supervising the work of one apprentice in a specific trade.

~~Connecticut General Statute Section 31-55a: Annual Adjustments to wage rates by contractors doing state work ~~

The Prevailing wage rates applicable to this project are subject to annual adjustments each July 1st for the duration of the project.

Each contractor shall pay the annual adjusted prevailing wage rate that is in effect each July 1st, as posted by the Department of Labor.

It is the contractor's responsibility to obtain the annual adjusted prevailing wage rate increases directly from the Department of Labor's website.

The annual adjustments will be posted on the Department of Labor's Web page: www.ctdol.state.ct.us.

The Department of Labor will continue to issue the initial prevailing wage rate schedule to the Contracting Agency for the project.

All subsequent annual adjustments will be posted on our Web Site for contractor access.

Effective October 1, 2005 - Public Act 05-50: any person performing the work of any mechanic, laborer, or worker shall be paid prevailing wage.

All Persons who perform work ON SITE must be paid prevailing wage for the appropriate mechanic, laborer, or worker classification.

All certified payrolls must list the hours worked and wages paid to All Persons who perform work ON SITE regardless of their ownership i.e.: (Owners, Corporate Officers, LLC Members, Independent Contractors, et. al)

Reporting and payment of wages is required regardless of any contractual relationship alleged to exist between the contractor and such person.

~~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 clause (29 CFR 5.5 (a) (1) (ii)).

Please direct any questions which you may have pertaining to classification of work and payment of prevailing wages to the Wage and Workplace Standards Division, telephone (860)263-6790.