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SPECIFICATIONS

General Requirements

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General Notes:

1. The contractor shall verify all utility locations prior to construction, by calling the Utility Protection Center.
2. The contractor will be responsible for coordinating any utility relocations before work begins on said affected roadways.
3. The contractor shall be responsible for furnishing all labor, material; equipment and incidental items needed to provide adequate construction signing, barricades, traffic control devices and other related items for the project area, during the construction period.
4. The contractor shall provide reasonable access to residential, commercial and public properties in the project area. During construction, traffic may be restricted to local traffic, only with approval of the Traffic Engineer.
5. Any surplus excavation shall become the property of the contractor, and disposal shall be the contractor's responsibility at no additional cost.
6. The contractor shall backfill behind replaced curbs as needed.
7. The contractor shall level all disturbed areas with topsoil and hand rake to a uniform appearance.
8. All work shall be done according to the Macon Bibb County provided specifications.
9. Contractor shall be paid at unit bid prices unless otherwise designated.
10. All patches shall be milled to a depth of 5" below grade, compacted and filled with 12.5mm superpave asphalt.
11. Small patches shall be compacted by use of slide tamp or by hand tamping. Vibratory roller shall be used on larger patches.
12. Macon-Bibb County reserves the right to delete any street from this contract.
13. Some streets may have concrete, brick or cobble stone under the existing asphalt.
14. As time is of the essence the contractor agrees to begin work immediately and keep work in progress until the completion of said contract.
15. For patches deeper than 5", contractor shall fill in the patch with G.A.B.C., compact with adequate compacting device to 98% dry density and install 5" 12.5mm Superpave asphalt. Extra G.A.B.C. shall be paid by the unit bid price only.
16. Milling asphaltic concrete pavement, measured as specified, will be paid for at the Contract Unit Price bid per square yard. The price bid for this item includes the credit value of all Reclaimed Asphalt Pavement (RAP) recovered, and no adjustment in the unit price for this item or other items will be considered for variations in the amount of RAP actually recovered. Payment is full compensation for furnishing equipment, milling, hauling, stockpiling milled material, and satisfactorily performing the work.
17. The contractor shall obtain permission for all storage on private property. Materials stored on Macon-Bibb County right of way must be permitted by the appropriate authority (Macon-Bibb Engineering & Macon-Bibb Sheriff's Offices).
18. Macon-Bibb County will not incur any liability for any of the contractor's stolen or damaged property while stored on public right of way.
19. The contractor will be responsible for the installation of ADA approved intersection sidewalk access points. See attached detail.

01005 - STATEMENT OF WORK

PART 1 - GENERAL

1.01 STATEMENT OF WORK: This is a general overview of the project. Follow details shown by the specifications and drawings, interpreted in accordance with contract clauses.

- A. Provide all labor, material, plant, equipment, supplies, and coordination required to:
 - 1. Provide the repair of 4" thick X 5' wide sections of side walk along 3rd Street including ADA approved access at the intersections of each street.
 - 2. Provide for the installation of 4" thick X 5' wide side walk for a portion of Wood Street.
 - 3. Provide a 6" thick driveway entrance along Third Street and a 6" thick driveway exit along Wood Street

- B. The project includes 3rd Street and Wood St.

- C. Price: Accomplish work shown for the original bid price. This includes special work times for utility outages and repair of damages. The words "at no additional cost to the Government" are implied whether stated or not.

1.02 CONTRACT SITE AND WORK RESTRICTIONS:

Work area is restricted to the area at the construction site. Provide a seven day notification prior to a road closure so that the approved detour may be publicized in the local paper or other media outlets. Any traffic detours require the submittal of a traffic control plan to the Macon-Bibb County Traffic Engineering for approval 7 days before enacting said plan. All equipment must remain on public right of way during work hours and can be stored safely on the right of way while not in use provided it does not cause a traffic flow or sight distance problem. Any offsite parking/storage will require a written agreement between the owner of the private property and the contractor performing the work.

1.03 HOURS OF WORK:

- A. Standard work hours for this project are normal work hours of 8:00 AM to 5:00 PM local time, Monday through Friday. Work must stop on official City-County holidays unless specifically approved in advance.

- B. Alternate Work Hours
 - 1. If the Contractor desires to work another set of standard hours submit written request five (5) workdays before the date desired to work the different standard.

 - 2. To work special hours or days such as to continue paving until dark, request verbal approval from the Engineer at least four hours in advance.

 - 3. The Government reserves the right to refuse these requests. In addition, work requiring inspector presence such as placing concrete may not be possible outside normal hours on short notice. Digging outside of normal hours will normally not be approved. Any work outside of the

01005 - STATEMENT OF WORK

standard working hours performed without the permission of the engineer will be subject to analysis by a geotechnical engineering firm at the expense of the contractor.

C. All references to days mean calendar days unless otherwise noted.

1.04 SUBMITTALS:

A. General: Provide the following submittals in accordance with instructions found in Section 01300, Submittals and Contractor Furnished Items.

B. Material Submittals: Omitted.

PART 2 - PRODUCTS - OMITTED

PART 3 - EXECUTION

3.01 COORDINATION: The contractor shall coordinate work between different disciplines.

A. Locations shown are approximate and may be moved if approved by the Engineer.

B. Manufacturers' recommendations and/or requirements, if more stringent than the specifications and drawings, shall be followed at no additional cost to the Government.

Section 01005 Submittals

<u>Para #</u>	<u>Description</u>	<u>Date Required</u>	<u>Inspector Check Mark</u>
1.02	Closure Notice	7 days prior	_____
1.03 B.1	Alternate Work Hours	5 days prior	_____

<<<<< END OF SECTION >>>>>

01040 – SITE REQUIREMENTS

PART 1 - GENERAL

1.01 UTILITY OUTAGES: Request any necessary utility outages in writing to the appropriate utility with a copy to the Engineer, a minimum of 14 days before the proposed outage. These may have to be scheduled at other than normal working hours depending on the impact to the users served by the utilities. These are at no additional cost to the Government. The contractor is responsible for working with existing utility company to relocate existing utilities at the utilities' own expense except where indicated otherwise on the drawings. The contractor is responsible for notifying the public of any impending utility outages 7 days prior to the temporary loss of said utility.

1.02 SUBMITTALS: Omitted

- A. General: Provide the following submittals in accordance with instructions found in Section 01300, Submittals and Contractor Furnished Items.
- B. Material Submittals: None required under this section.

1.03 SAFEGUARDING COMMUNICATION FACILITIES: For work that will interfere with buried fiber optics cable, aerial cable, house cable, underground cable, or other communication facilities, notify the utility and the Engineer in writing 14 days before the scheduled construction. Do no work until receiving approval.

PART 2 – PUBLIC NOTIFICATION:

The contractor will be responsible for notifying all affected parties of the construction activity a minimum of 48 hrs prior to work beginning. The notification will include the duration of any potential inconvenience such as construction activity that will reduce the affected right of way to one lane of traffic or if the roadway will remain in a state of disrepair for some duration without construction (ex. curing FDR applications before applying an asphalt topping or the relocation of utilities in the right of way)

PART 3 - EXECUTION

3.01 DIGGING/EXCAVATION REQUIREMENTS: Any utility location information provided for this project is for general bidding purposes only. The contractor shall determine actual locations and quantities at the site by calling the Georgia Utilities Protection Center prior to accomplishing any digging. .

- A. Damage: The contractor is responsible for any damage to underground structures and utility lines identified on the drawings and any identified and marked in the field as a result of obtaining the utility location. If any underground utility is damaged, notify the utility and the Engineer immediately.
- B. Cutting of Roads, Streets, and Paved Parking Areas:
 - 1. Mark, barricade, and illuminate construction work on or near roads or streets which may present a traffic hazard in accordance with the Manual on Uniform Traffic Control Devices (MUTCD). Closures of streets, parking lots, and other traffic areas will not be permitted unless approved by the Engineer after written request 14 days before the scheduled closure & a detailed traffic control plan has been approved by the Macon-Bibb County Traffic Engineer's Office.

01040 – SITE REQUIREMENTS

2. Road cuts shall be backfilled immediately after completion of associated utility work. When the road is reopened, the cut shall be filled with temporary or permanent materials to a smooth condition, or metal plates or other approved methods shall be employed to prevent discomfort or damage to vehicular traffic. Road cuts shall be permanently closed within 5 working days unless approved otherwise by the Engineer. Provide advance signage warning motorists of the condition in accordance with the MUTCD. Repair streets as shown on the drawings.

3.02 STORAGE AREA: The contractor shall obtain permission for all storage on private property. Materials stored on the county or state right of way must be obtained from the appropriate agency. Any damage to the Contractor's equipment or loss of materials or property will not incur any additional costs to the Government

3.03 LOCATING AND IDENTIFYING UNDERGROUND LINES AND STRUCTURES:

- A. Regardless of statements in other Spec sections, provide warning tapes over new buried underground utilities and structures. Follow these requirements if the other Spec sections are less detailed and stringent.
- B. These include all underground items such as utility lines, storm drainage lines, water and sewer lines, traffic signal loops and utility pits and manholes with tops below grade. Do not proceed with any work if the proper locates have not been acquired. Positive identification of actual location and depth of the utility facilities is the sole responsibility of the contractor.
- C. Provide a warning tape of standard industrial width and thickness with imprinted words identifying the type of utility line or structure below it. Place along the length (and width if not a utility line) of the protected item at one-foot depth below grade.

3.04 SITE MAINTENANCE, CLEAN UP, AND RESTORATION

- A. Maintain the work site in a neat, orderly, and safe manner. Cut grass regularly to maintain site to community standards.
- B. Remove scrap, waste, and excess materials promptly. Provide signs, barricades, and lights as required to protect personnel.
- C. Do not allow trash and debris to accumulate and become unsightly. Sweep up and collect in contractor-maintained disposal containers daily. Dispose of collected debris weekly as a minimum.
- D. Store materials on site in a neat and orderly manner.
- E. Restore the project site to its final condition as required by the contract as soon as possible.
- F. Do not open trenches or excavations until material is on-hand or scheduled to arrive within three days. Close excavations or ditches as soon as the work has been placed, inspected, and accepted by the government.

Section 1040 Submittals

01040 – SITE REQUIREMENTS

Para #	Description	Date Required	Inspector Checklist
1.01	Utility Outage Requests	14 days prior to outage	_____
3.01 B	Road/Parking Closure Request	14 days prior	_____
3.03 C	Warning Tape	21 days afterward	_____

<<<<< END OF SECTION >>>>>

01300 - SUBMITTALS AND CONTRACTOR FURNISHED ITEMS

PART 1 - GENERAL

1.01 GENERAL:

A. Basic: Provide items requiring drawings, diagrams, certifications, manufacturers' literature, data brochures, technical data, sample requests, forms, and other data as noted under each specification section.

B. Contractor Responsibility: Review, Corrections, or Comments made on the Submittals do not relieve the contractor from compliance with the requirements of the Drawings, Specifications, Addendums, and Contract Documents. By entering into this contract, the contractor agrees that the purpose of submittals is to demonstrate to the Engineer that the contractor understands the design concept and that he demonstrates his understanding by indicating which equipment and material he intends to furnish, install, and use. Review of shop drawing will be general only for basic conformance with the design concept. The Government's review of such drawings, schedules, or cuts shall not relieve the contractor from the responsibility for correcting all errors of any sort contained in the submittals. The contractor is responsible for confirming and correlating all quantities and dimensions; selecting proper fabrication processes, construction methods and installation techniques; coordinating this work with that of all other trades; and performing all work in a safe, workmanlike and satisfactory manner.

1.02 OMITTED:

1.03 SUBMITTAL INSTRUCTIONS: Submittal requirements for each specification section are listed in those respective sections. The following apply to all sections.

A. Material Submittals:

1. Complete Submissions: All items requiring submittals prior to construction activities for each section should be provided at one time unless noted otherwise or logically required. In some instances the specifications may require certain items from one or more specifications sections to be submitted at one time.
2. Submittal Checklist: The contractor shall complete a copy of the checklist provided in the submittals paragraph of each specification section. This checklist shall be provided with each submittal. Submittal information shall be arranged in order to correspond with each checklist.
3. Time: The Contractor shall have approved submittals before ordering any equipment under this contract. If equipment is ordered prior to receiving approval, it will be solely at the Contractor's risk. Under no circumstances will material be installed prior to approval of submittals. There will be no time schedule for providing material submittals unless noted elsewhere in the specifications. The Contractor will be required to manage his materials/equipment lead times and obtain approval in sufficient time to complete the work on schedule. Disapproval of incomplete or unsatisfactory submittals shall not be grounds for contract extensions. Other submittals such as as-builts, test reports, etc., shall be provided as indicated. When the word "prior" is used, it shall generally mean prior to the delivery or installation of the product at the work site or prior to the time in question of the item addressed in the specification.
4. Exceptions: If any material proposed for use on this contract deviates from the specifications, the Contractor shall submit those proposed deviations for approval along with detailed

01300 - SUBMITTALS AND CONTRACTOR FURNISHED ITEMS

justification. All exceptions and deviations shall be described in detail with each product submittal. Cost will not be considered a justification for taking exceptions unless a credit is offered to the Government.

5. Substitutions: Products provided by manufacturers other than those specified as the “design basis” shall be considered substitutions.

- a. All features of items submitted as substitutions are implied to be in full compliance with Specifications and Drawings if not specifically noted as "Exceptions."
- b. Where a design basis is referenced in Specifications and Drawings, substitutions must meet or exceed the salient features of the design basis as determined by the Engineer. Exceptions to design basis characteristics must be clearly noted as "Exceptions." The contractor must demonstrate that the product substituted is clearly equal or superior to the specified product, or else the request for substitution will be denied.
- c. Changes required to accommodate approved substitution shall be made at no additional cost to the Government.

B. Other Submittals: Other submittals such as samples, test results, spare parts, and etc. shall be provided as required by each specifications section. Provide 2 copies of each or an electronic copy unless directed otherwise.

1.04 RETURN AND DISAPPROVAL OF SUBMITTALS: The Engineer will return submittals to the Contractor within 14 days after receipt indicating approval or disapproval. Resubmittal of disapproved submittals shall be accomplished within 14 days after receipt of disapproval. Disapproval shall not be cause for time extension.

1.05 SUPERINTENDENT or MANAGER: When requested, provide name and qualifications for review. Provide the name and contact information of the person who will be the primary contact with the Government on this project until project acceptance.

1.06 TURN-IN OF IDENTIFIED EQUIPMENT, SPARE PARTS, TOOLS, AND OTHER MATERIALS: Items indicated in the Submittals section of each specifications and elsewhere, for turn-in to the Government shall be delivered as directed or in the absence of direction, before prefinal inspection. Obtain receipts from Government employees receiving the materials and deliver them to the Engineer before prefinal inspection.

1.07 Omitted

1.08 Omitted

1.09 Omitted

1.10 PRE-AWARD SUBMITTALS: Submit the following items before award, if directed.

A. Experience: Provide documentation on contractor experience relative to this project. After bid opening, the Government may examine contractor experience. The Contractor and/or named subcontractors shall have been regularly engaged in the type work of this project for at least (2) years. Include for each subcontractor the name of the business and the individual responsible for this project.

01300 - SUBMITTALS AND CONTRACTOR FURNISHED ITEMS

B. References: Provide the names, addresses and telephone numbers of at least two customers for whom similar projects were performed in the last (two) years.

1.11 Omitted

END OF SECTION

01590 – UTILITY RELOCATION

PART 1 – GENERAL

1.01 Cooperation with Utilities: Macon-Bibb County will notify all utility companies, all pipeline owners, all railroad companies, or other parties affected by award of the Contract, giving the name and address of the Contractor, and will assist the Contractor in arranging for all necessary adjustments of the public or private utility fixtures, pipe lines, and other appurtenances within or adjacent to the limits of construction. Water lines, gas lines, wire lines, service connections, water and gas meter boxes, water and gas valve boxes, light standards, cableways, signals, railroad facilities, and all other utility appurtenances within the limits of the proposed construction which are to be relocated or adjusted are to be moved by the owners at their expense, except as otherwise provided for elsewhere in the Contract. It is understood and agreed that the Contractor has considered in his bid all of the permanent and temporary utility appurtenances in their present location or relocated positions, and that no additional compensation will be allowed for any delays, inconvenience, or damage sustained by him due to any interference from said utility appurtenances or the operation of moving them, with the exception that delays and interruptions to the work are covered in Subsection 1.02. It shall be the Contractor's responsibility to plan with each utility owner a schedule of operations which will clearly set forth at which stage of the Contractor's operations the utility owner will be required to perform his removal and relocation work.

1.02 Contractor's Responsibility for Utility Property and Services

A. Overhead or Underground Utility Facilities

At points where the Contractor's operations are adjacent to or conflict with overhead or underground utility facilities, or are adjacent to other property, damage to which might result in considerable expense, loss, or inconvenience, work shall not be commenced until all arrangements necessary for the protection thereof have been made.

B. Utility Facility Owners

The names of known utility owners and the location of known utility facilities will be shown on the Plans or located at the work site, and the Contractor shall give 24-hour notice to such utility owners before commencing work adjacent to said utility facilities which may result in damage thereto. Contractor shall further notify utility owners of any changes in his work schedules affecting required action by the utility owners to protect or adjust their facilities. Notice to the utility companies by Macon-Bibb of the award of contract, under Subsection 1.01, shall not be deemed to satisfy the notice required by this paragraph.

C. Cooperation with Facility Owners

The Contractor shall cooperate with the owners of any underground or overhead utility facilities in their removal and rearrangement operations in order that these operations may progress in a reasonable

01590 – UTILITY RELOCATION

manner, that duplication of rearrangement work may be reduced to a minimum, and that services rendered by those parties will not be unnecessarily interrupted.

D. Interruption of Services

In the event of interruption to water or other utility services as a result of accidental breakage or as a result of being exposed or unsupported, the Contractor shall promptly notify the proper authority and shall cooperate with the said authority in the restoration of service. If utility service is interrupted, repair work shall be continuous until the service is restored. No work shall be undertaken around fire hydrants until provisions for continued service have been approved by the local fire authority.

E. Facilities Supported on Bridges

If the utility facilities are to be supported on bridges, the following provisions shall apply:

1. The Plans will show the location of the facility and the auxiliary items necessary to support the facility.
2. The Contractor who constructs the bridge shall install anchor bolts, thimbles, inserts, or other auxiliary items that are attached to the bridge as a part of the support for the utility facility. The Utility owner, at his or her expense, shall furnish these auxiliary items, unless the Contract indicates that these items are to be furnished by the Contractor as a part of the bridge.
3. The Agency constructing the utility facility shall install hanger rods, pipe rolls, and other attachments necessary for the support of the utility facility as indicated on the Plans. The Utility owner, at his expense, shall furnish these attachments unless otherwise specified. This work shall also include:
 - a. Caulking the openings around the utility where it passes through endwalls to prevent the passage of undesirable materials.
 - b. Painting the exposed portions of utility supports unless such supports are corrosion resistant. Painting shall be done in accordance with the applicable portions of the specifications.
4. The sequence of bridge construction work may be set forth in the Plans and/or the Specifications and will show at what stage of the work a utility owner will be allowed to make the utility installation. Further, all or any portion of the work under Subsection 1.02.E.3 may be included in the bridge contract by the Plans and/or the Specifications.
5. Any damage to the bridge structure caused by the utility installation shall be repaired to the satisfaction of the Engineer at the expense of the agency installing the utility facility.

F. Clearances

The Plans provide for at least minimum clearance of utilities as required by the National Electrical Safety Code, U.S. Department of Commerce, National Bureau of Standards. Any additional clearance the Contractor may desire or require in performing The work shall be arranged by the contractor with the utility owner. Macon-Bibb will pay no extra compensation for such additional clearances.

G. Delays

01590 – UTILITY RELOCATION

Delays and interruptions to the work caused by the adjustment or repair of water, gas, or other utility appurtenances and property will be considered for an extension of contract time unless such delays are due to the negligence of the Contractor.

H. Compensation

There will be no direct compensation for complying with the above. Any additional cost to the contractor for the above services, interruptions, or special procedures, shall be included in the over-all bid submitted.

1.03 KNOWN UTILITIES

The following utilities are known to have facilities on the project site. Those requiring relocation are identified below. See the plans for more detailed information on the affected areas. The contractor is responsible for calling the Utilities Location Protection Center prior to digging to have all utilities in the project site located. The contractor is responsible to repair all damages to identified utilities as a result of his operations.

Utility	Contact		Relocation Required
Macon Water Authority	Algernon Wallace	478-464-5662	Possibly
Georgia Power			Possibly
Downtown	Chris Zeno	478-784-5705	
South and West	Phillip Saunders		
East of Ocmulgee	Lavelle Lewis		
North	Dennis Pritchett		
AT&T	Mel Redd	478-788-1040	Possibly
Cox Cable	Mike Adams	478-256-1544	Possibly
Atlanta Gas Light	Corey Alford	404-807-4915	Possibly
	(Engineer) Larry Adams (Project Mgr)	678-725-0421	
Norfolk Southern	Brian Hobbs	(404) 529-1251	No
Public Service Telephone	Jeremy Kendrick	478-847-6524 478-951-7815 (C)	Possibly

01590 – UTILITY RELOCATION

Mitchell Harris		478-847-6522 478-837-3877 (C)	
Southern Telecom			Possibly
Georgia Public Web	Greg Spell	770-661-2808	Possibly
888-662-6324 (24 Hour)			
Level III	Tony Charlton	321-312-3225	Possibly
(Formerly KMC Telecom and Telco)		relo@level3.com	
Macon-Bibb (Fiber)	Rob Ryals	478-751-0401	Possibly
Macon-Bibb Communications (traffic signal loop)	Kevin Poss	478-751-9266	Yes
Tower Cloud	Lee Clark	727-471-5600	No
Medical Center of CG	Tim Slocomb	478-633-1036	No
Windstream			No
Jointly Owned Natural Gas	Wayne James Ronnie Jones	478-654-6059 478-952-1605 (C)	No
Colonial Pipeline	Kevin Railey	706-891-7584	No

1.04 SUBMITTALS:

A. General: Provide the following submittals in accordance with instructions found in Section 01300, Submittals and Contractor Furnished Items.

B. Material Submittals: None required under this section.

C. Other Submittals: Provide the following submittals as required by the contract or as directed by the Contracting Officer.

01590 – UTILITY RELOCATION

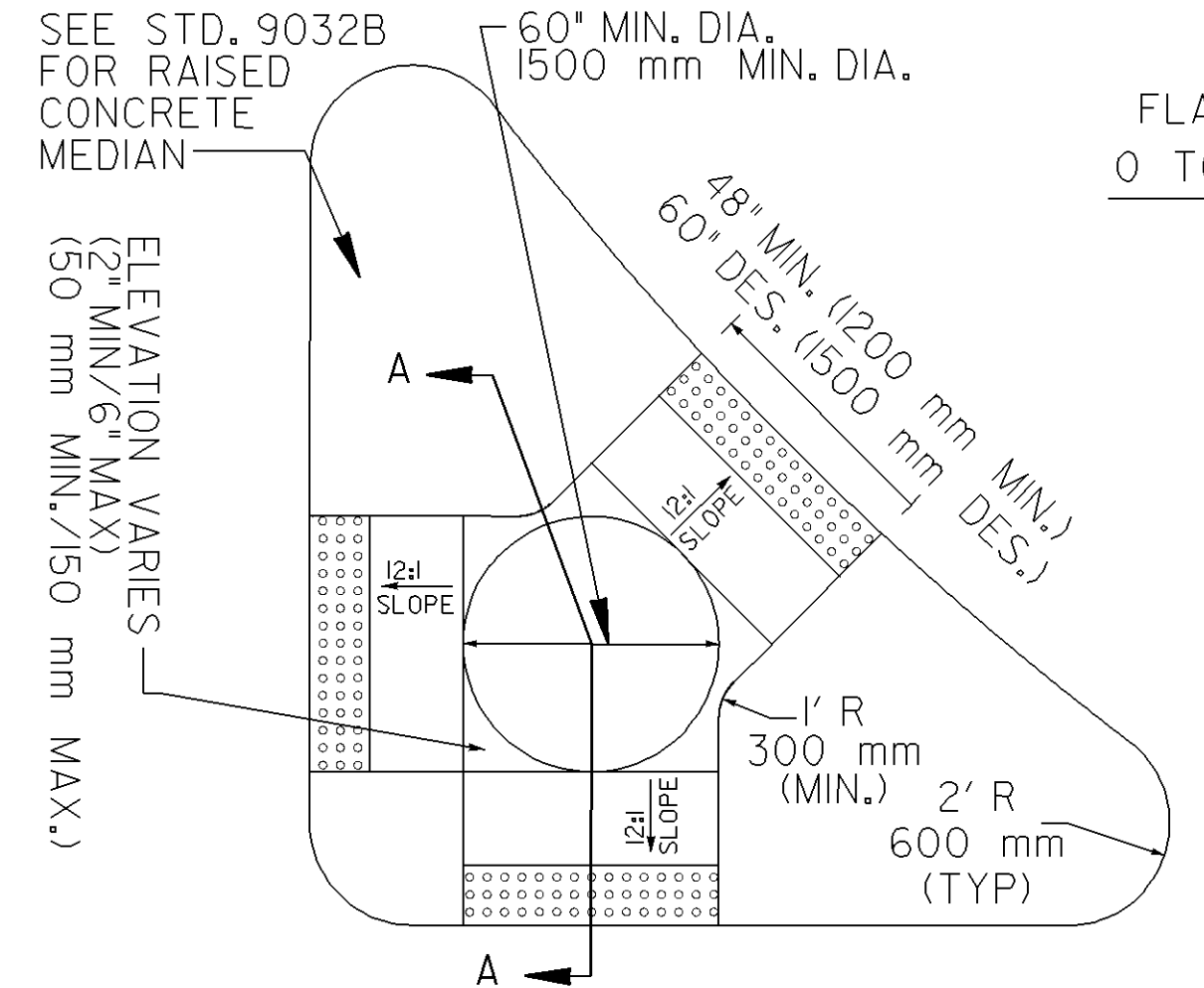
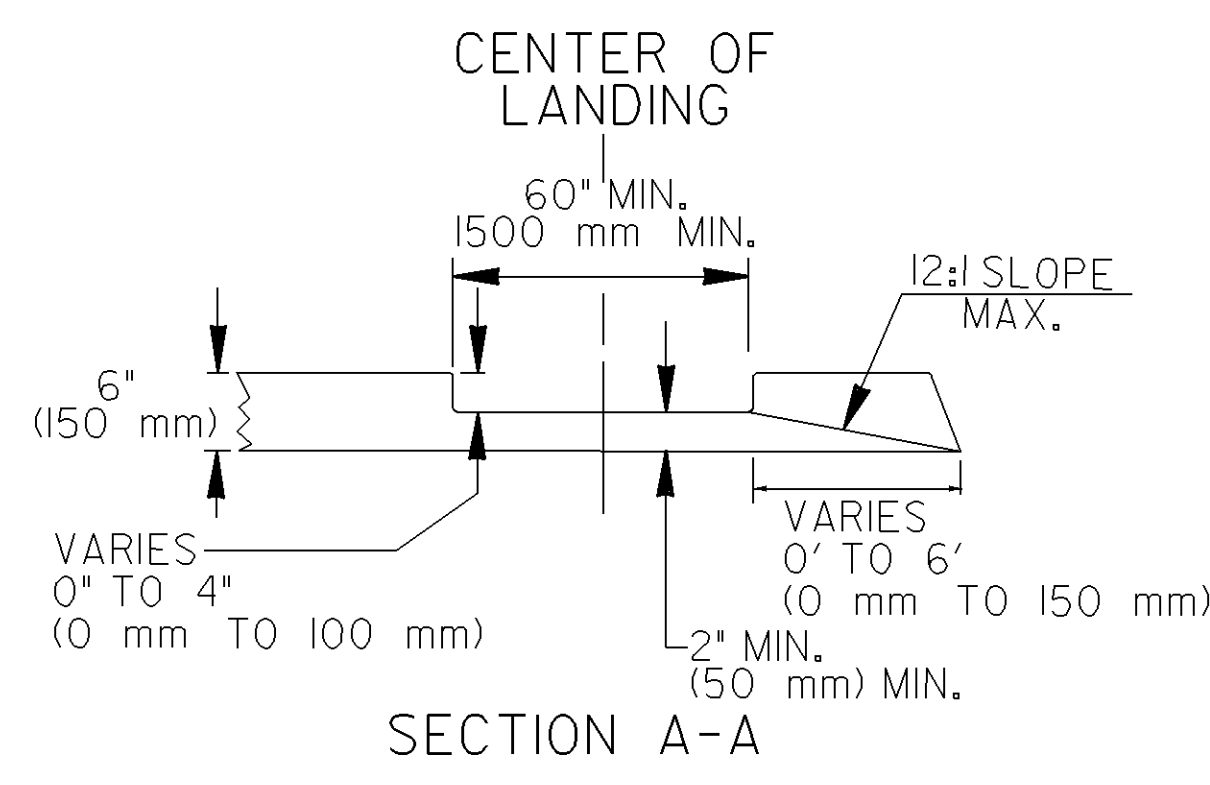
Para #	Description	Date Required When Identified	Inspector Checklist
1.02 B.	Utility Notification		_____

<<<<< END OF SECTION >>>>>

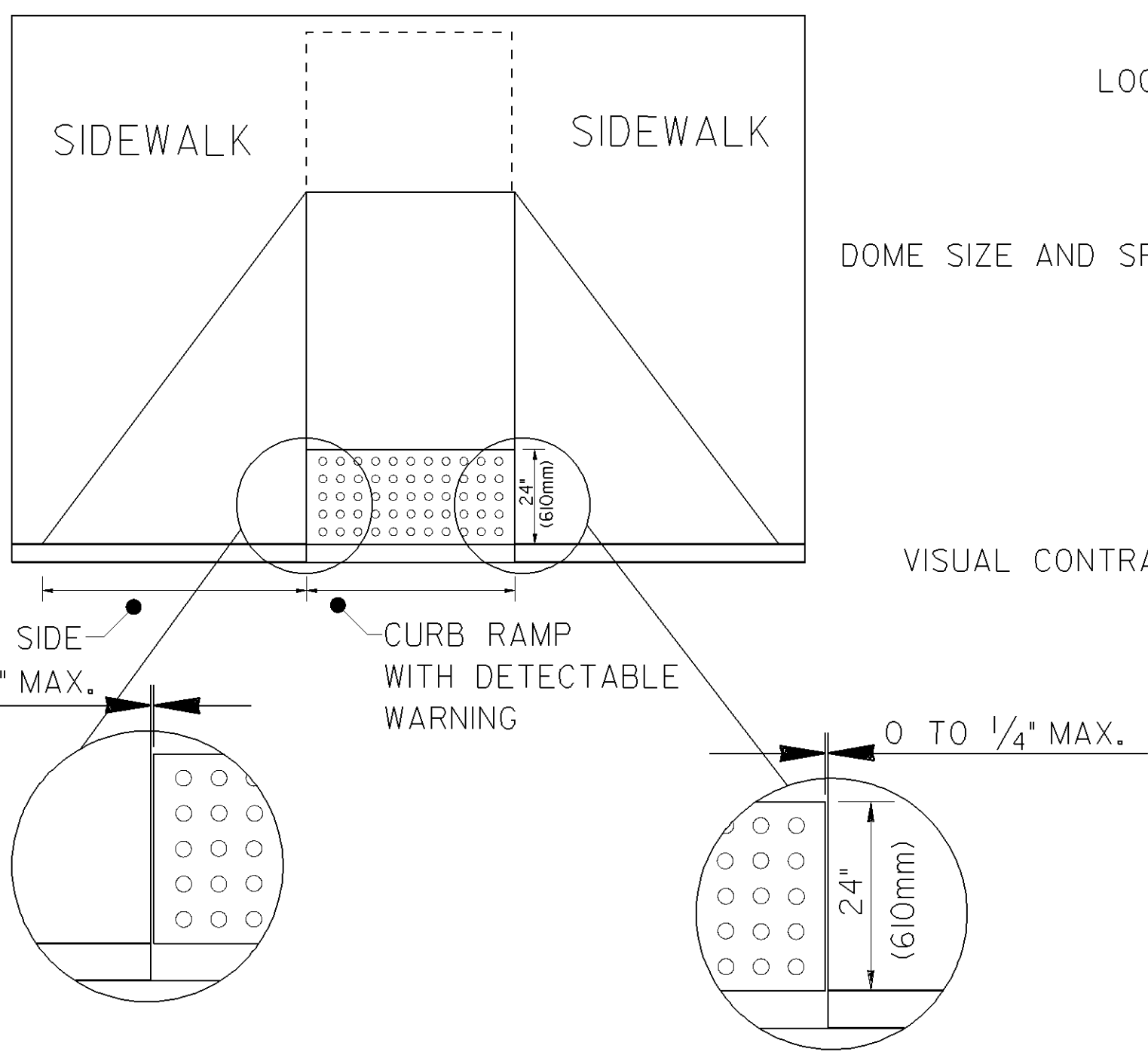
General Notes:

1. The contractor shall verify all utility locations prior to construction, by calling the Utility Protection Center.
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13. Some streets may have concrete, brick or cobble stone under the existing asphalt.
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18. Macon-Bibb County will not incur any liability for any of the contractor's stolen or damaged property while stored on public right of way.
19. The contractor will be responsible for the installation of ADA approved intersection sidewalk access points. See attached detail.

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			



CONCRETE ISLAND WITH ELEVATED CUT THROUGH



SIZE: DETECTABLE WARNINGS SHALL BE 24 INCHES (610 mm) IN THE DIRECTION OF PEDESTRAIN TRAVEL AND EXTEND THE FULL WIDTH OF THE CURB RAMP OR FLUSH SURFACE.

LOCATION: THE DETECTABLE WARNING SHALL BE LOCATED SO THAT THE EDGE NEAREST THE CURB LINE OR OTHER POTENTIAL HAZARD IS 6 TO 8 INCHES (150 mm TO 180mm) FROM THE CURB LINE OR OTHER POTENTIAL HAZARD, SUCH AS A REFLECTIVE POOL EDGE OR THE DYNAMIC ENVELOPE OF RAIL OPERATIONS.

DOMES SIZE AND SPACING: TRUNCATED DOMES SHALL HAVE A BASE DIAMETER OF 0.9 INCH TO 1.4 INCH (23mm-36mm) AT THE BOTTOM, A DIAMETER OF 0.45 INCH TO 0.91 INCH (11mm-23mm) AT THE TOP, THE TOP DIAMETER SHALL BE A MINIMUM OF 50% AND A MAXIMUM OF 65% OF THE BASE DIAMETER, A HEIGHT OF 0.2 INCH (5.1mm) AND A CENTER-TO-CENTER SPACING OF 2.40 INCHES (61mm) DESIRABLE 1.60 INCHES (41mm) MINIMUM MEASURED ALONG ONE SIDE OF A SQUARE ARRANGEMENT. DOMES SHALL HAVE A SQUARE ARRANGEMENT. DOMES SHALL BE ALIGNED ON A SQUARE GRID IN THE PREDOMINANT DIRECTION OF TRAVEL TO PERMIT WHEELS TO ROLL BETWEEN DOMES.

VISUAL CONTRAST: DETECTABLE WARNING SURFACES SHALL CONTRAST VISUALLY WITH THE ADJACENT WALKING SURFACE EITHER LIGHT-ON-DARK OR DARK-ON-LIGHT. THE MATERIAL USED TO PROVIDE VISUAL CONTRAST SHALL BE AN INTEGRAL PART OF THE DETECTABLE WARNING SURFACE.

MATERIALS:

NEW CONSTRUCTION

THE DETECTABLE WARNINGS SHALL BE MADE OF MATERIALS SPECIFIED ON QPL 87.

RETROFIT OF EXISTING RAMPS

SURFACED APPLIED MATERIALS WILL ONLY BE APPROVED TO BE USED ON EXISTING WHEELCHAIR RAMPS.

INSTALLATION:

BRICK PAVERS SHALL BE SET IN A WET MORTAR BED. THE BED SHALL BE PLACED ON CONCRETE. THE CONCRETE SHALL BE A MINIMUM OF 4" THICK.

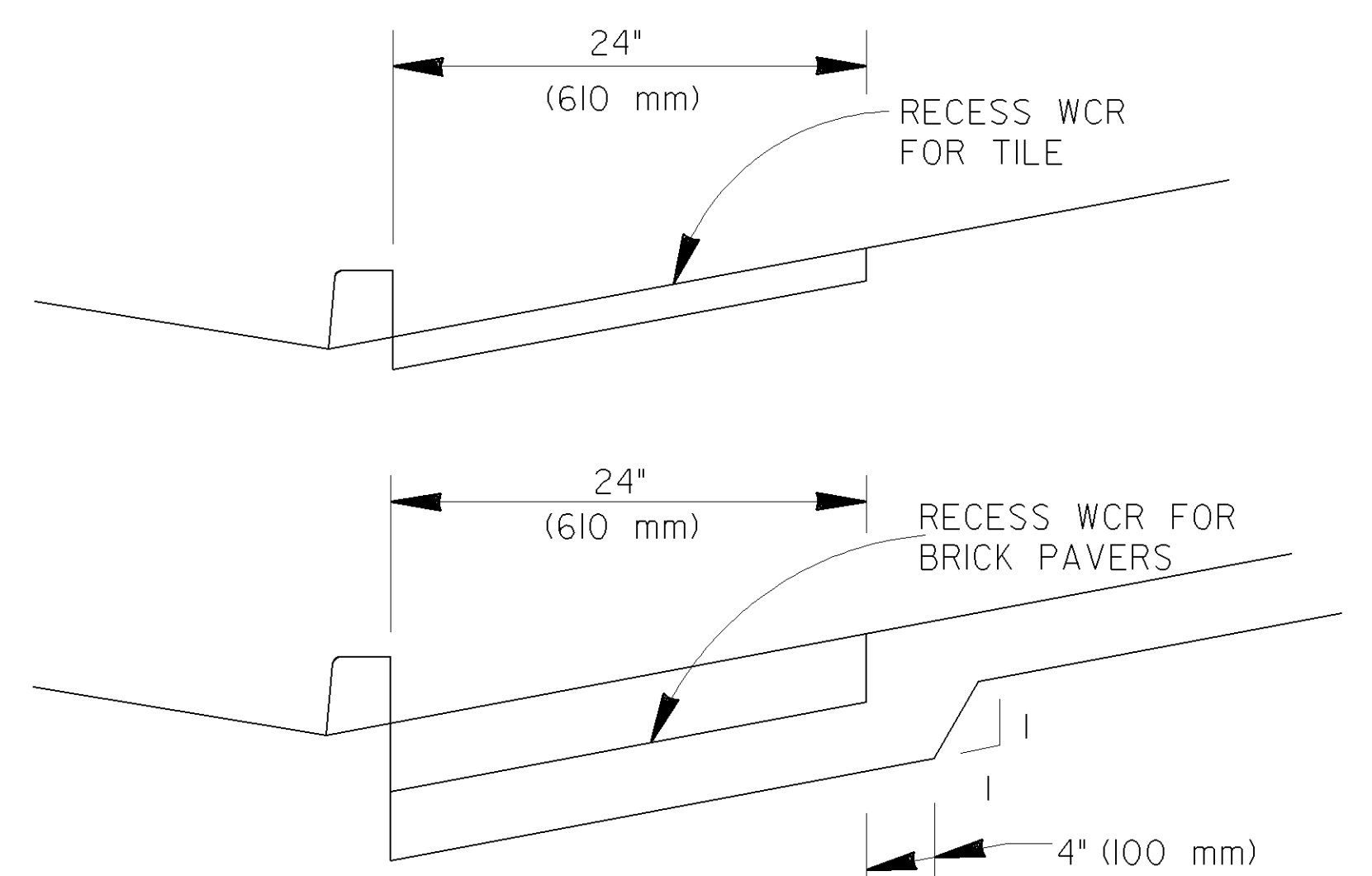
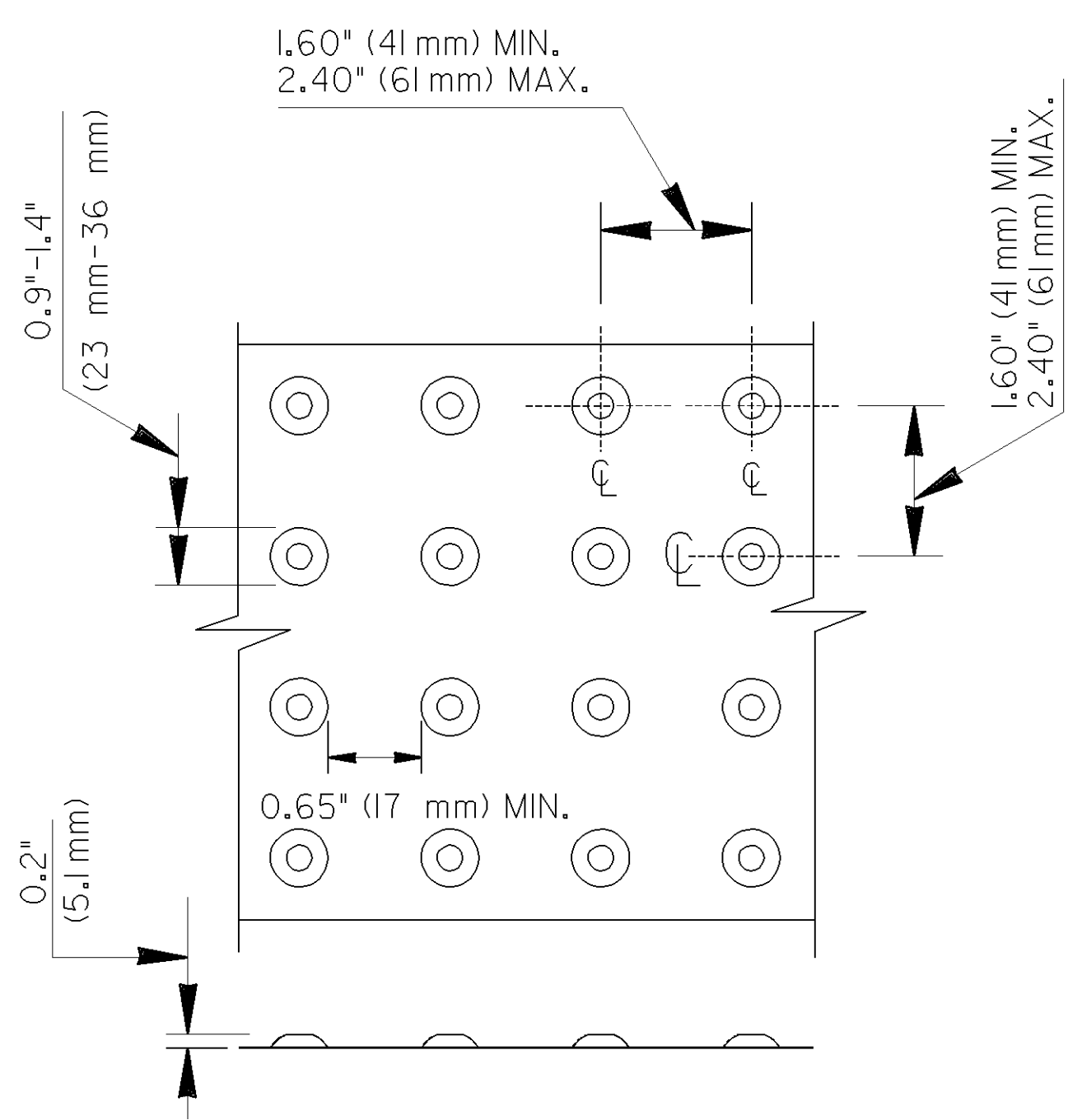
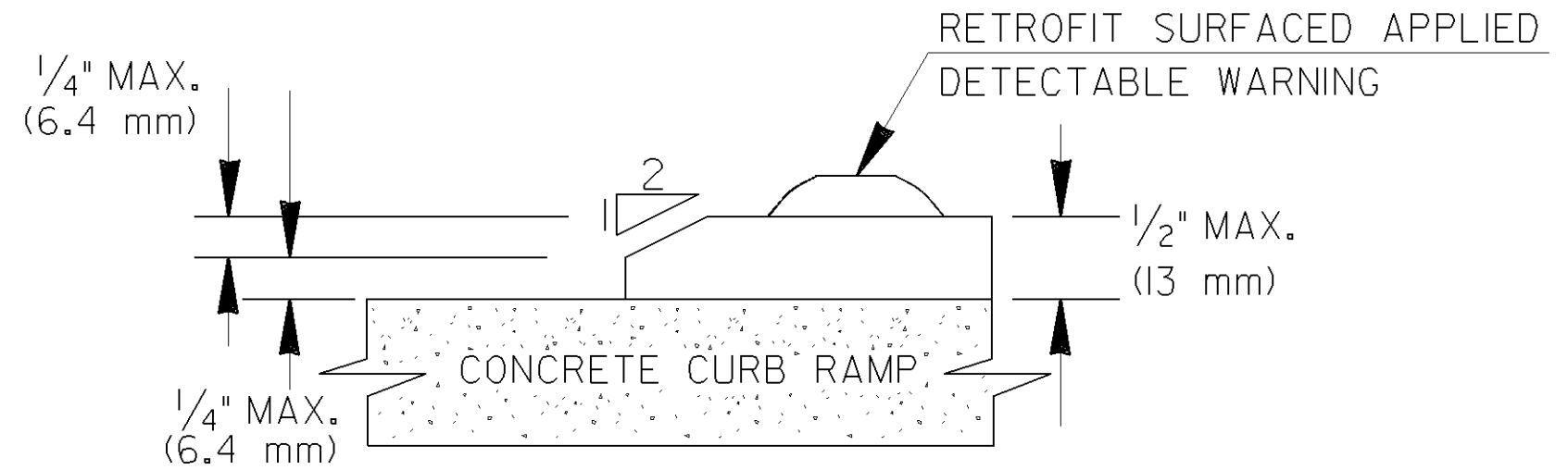
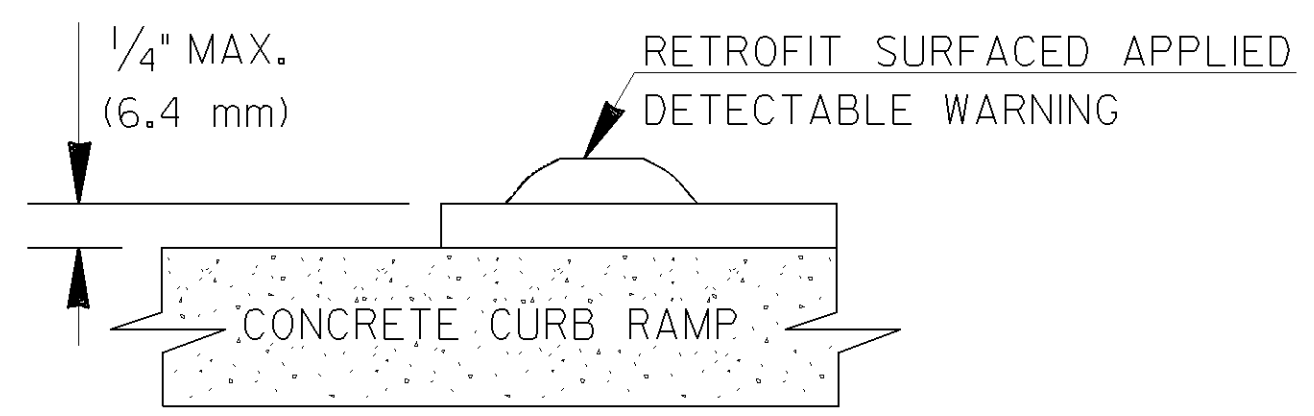
CERAMIC TILE SHALL BE EPOXY IN PLACE OR SET IN A WET MORTAR BED. MANUFACTURER RECOMMEND ADHESIVE OR FASTENER SHALL BE USED IN THE INSTALLATION.

ALL OTHER MATERIALS SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S DETAILS OR INSTRUCTION.

GENERAL NOTES:

RETROFIT SURFACED APPLIED MATERIALS ONLY:

- CHANGES IN LEVEL OF 1/4" (6.4 mm) HIGH MAXIMUM SHALL BE PERMITTED VERTICALLY ON SURFACED APPLIED MATERIALS.
- CHANGES IN LEVEL BETWEEN 1/4" (6.4 mm) HIGH MINIMUM AND 1/2" (13mm) HIGH MAXIMUM SHALL BE BEVELED WITH A SLOPE NOT STEEPER THAN 2:1.

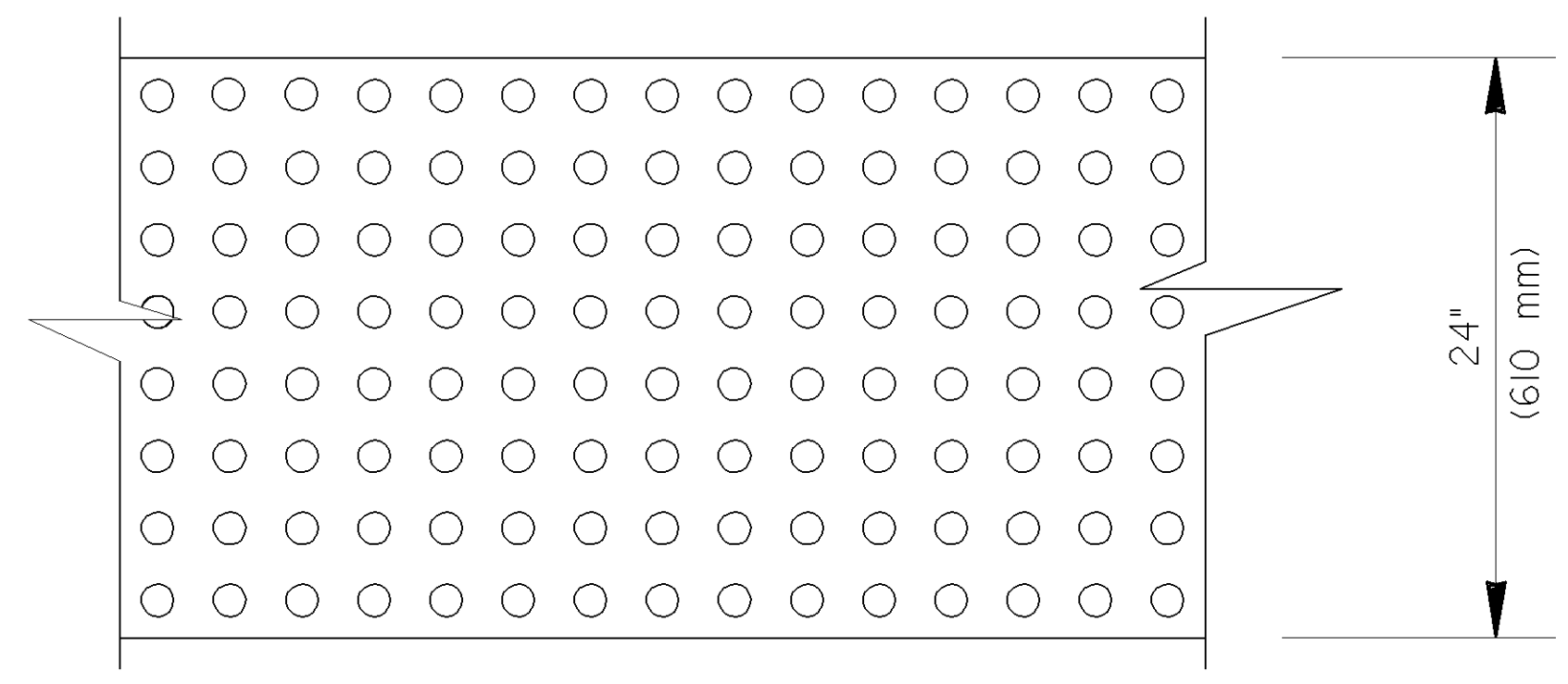


FOR TILE OR BRICK PAVERS NO VERTICAL LIP OVER 1/8" (3 mm) IS ALLOWED

NO SEPARATE PAYMENT WILL BE MADE FOR THE DETECTABLE WARNINGS. THE COST SHALL BE INCLUDED IN THE PRICE BID FOR SIDEWALK (OR CURB CUT RAMP IF THE ITEM IS INCLUDED IN THE PROPOSAL).

FOR CUT-THRU ISLANDS AND EXISTING RAMPS, WHERE NO SIDEWALK OR CURB CUT RAMPS ARE IN THE PROPOSAL, THE COST OF THE DETECTABLE WARNINGS SHALL BE INCLUDED IN THE OVERALL BID PRICE SUBMITTED.

DETAIL FOR DETECTABLE WARNING AT CUT-THRU CONCRETE ISLAND



6-18-09	ADDED RETROFIT DETAIL	6-18-09	DATE	DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA SPECIAL DETAIL DETECTABLE WARNING SURFACE TRUNCATED DOME SIZE, SPACING AND ALIGNMENT REQUIREMENTS NO SCALE MARCH 12, 2002
	AND ADDED ALT. RAMP DETAIL AND GEN. NOTES	10-2-06		
	ADDED TOLERANCE TO DTL.	5-10-06		
	REVISED TRUNCATED DOMES AND NOTES.	11-14-02		
	REVISED	7-29-02		
	BY			
GLO			NUMBER	A4

4G DRIVEWAY TIE-IN CONFIGURATIONS

4G-1 DRIVEWAY CONNECTIONS TO URBAN SECTIONS

This section describes the requirements for constructing driveway connections to State Highways with curb and gutter. Georgia DOT has two Standard Detail Drawings (A1 and A2) that describe the appropriate design and construction methods for these conditions. The basic layout of the configurations is schematically shown in Figure 4-3.

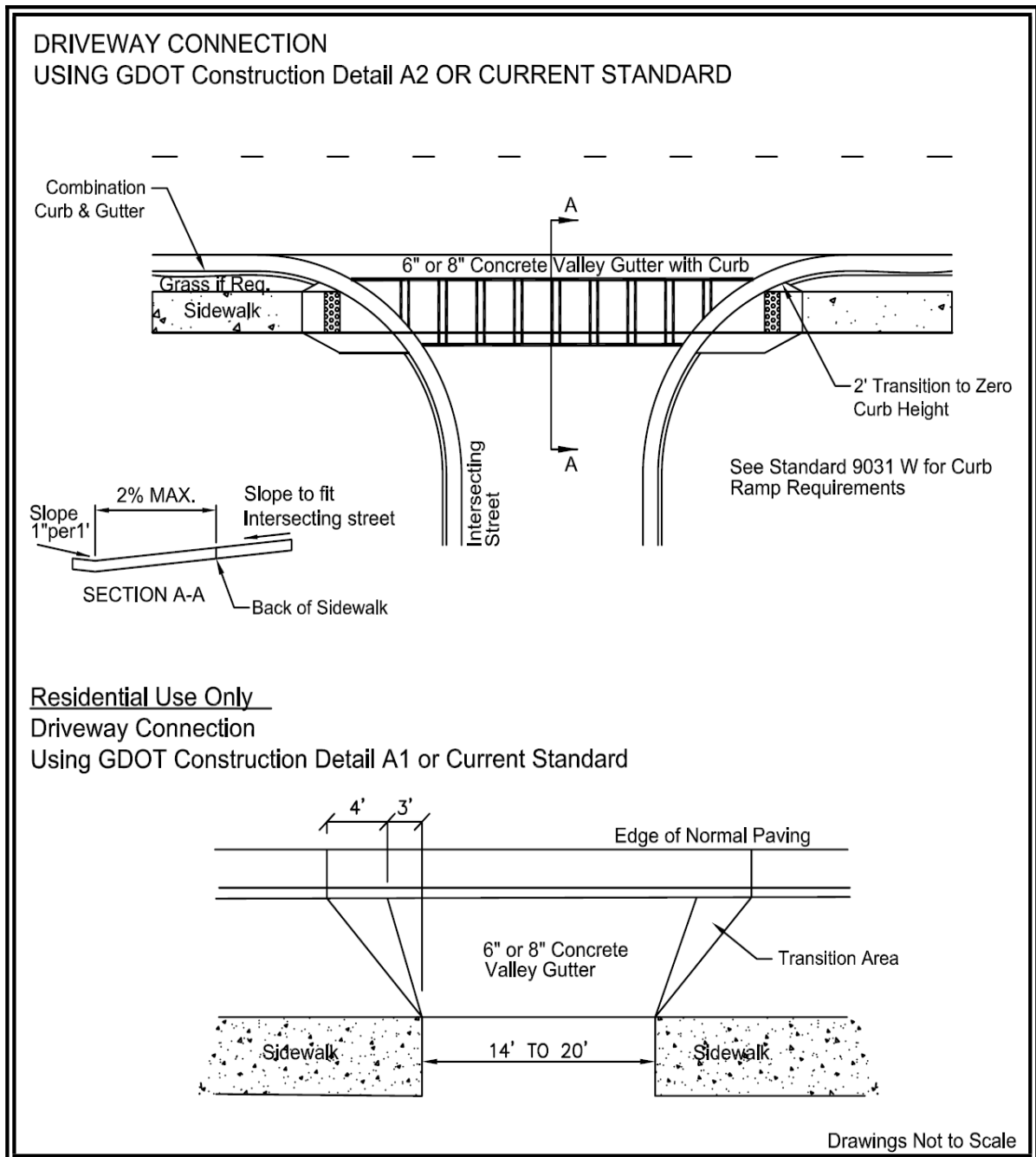
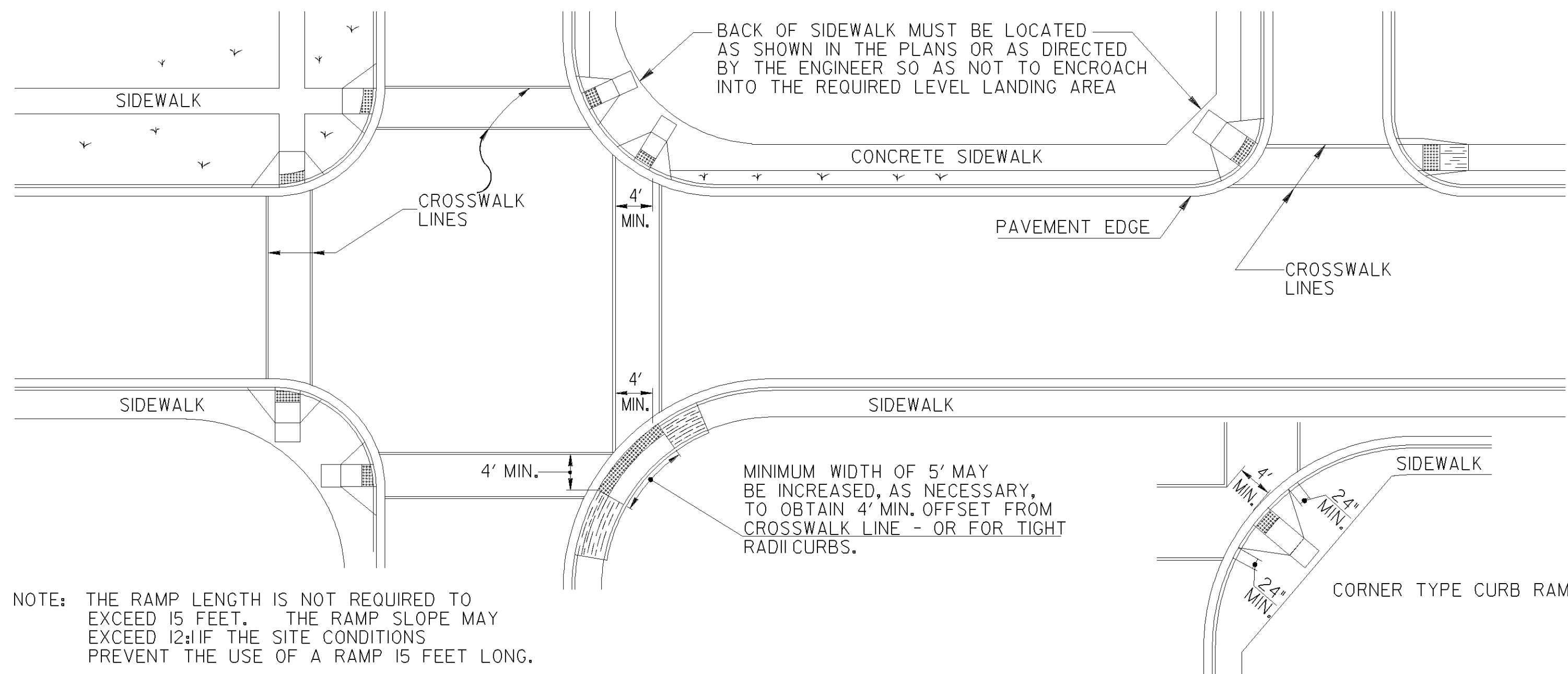


Figure 4-3 DRIVEWAY CONNECTIONS TO URBAN SECTIONS

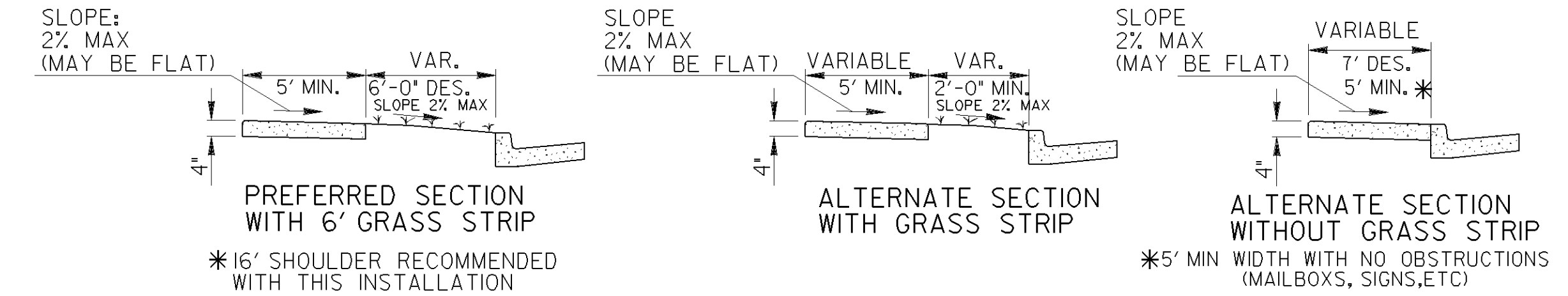
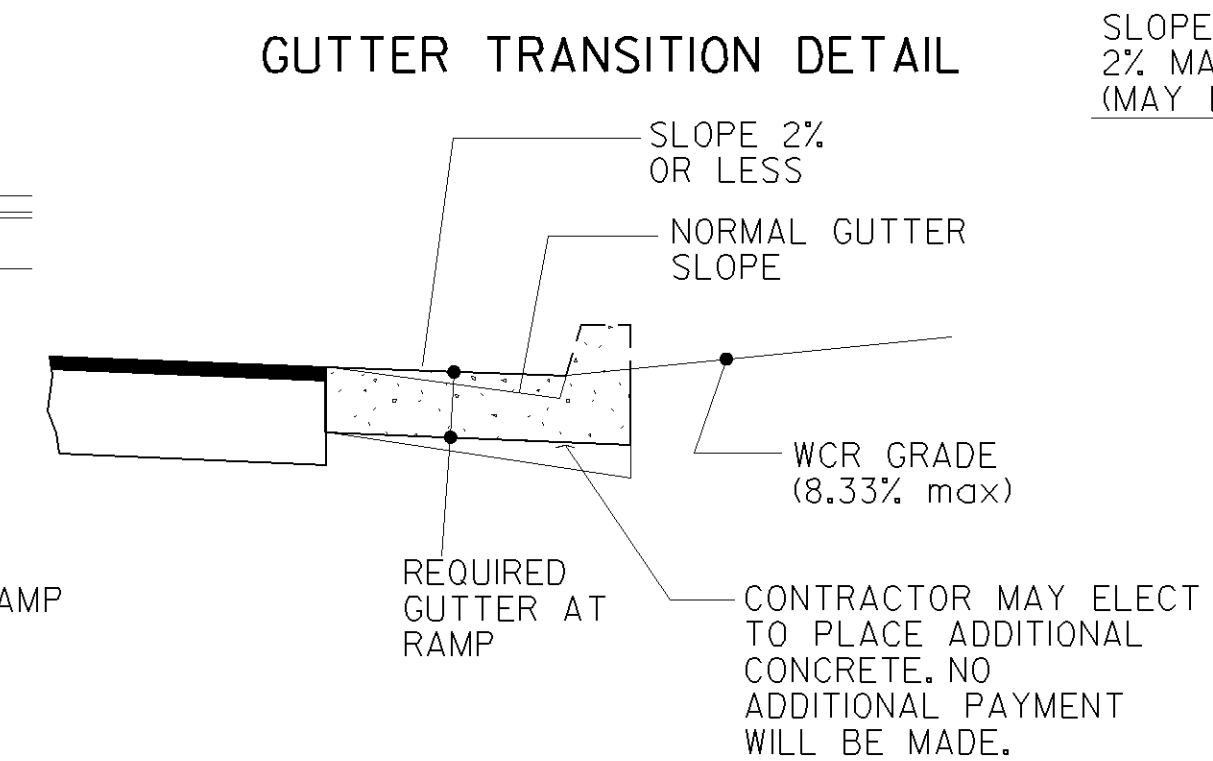
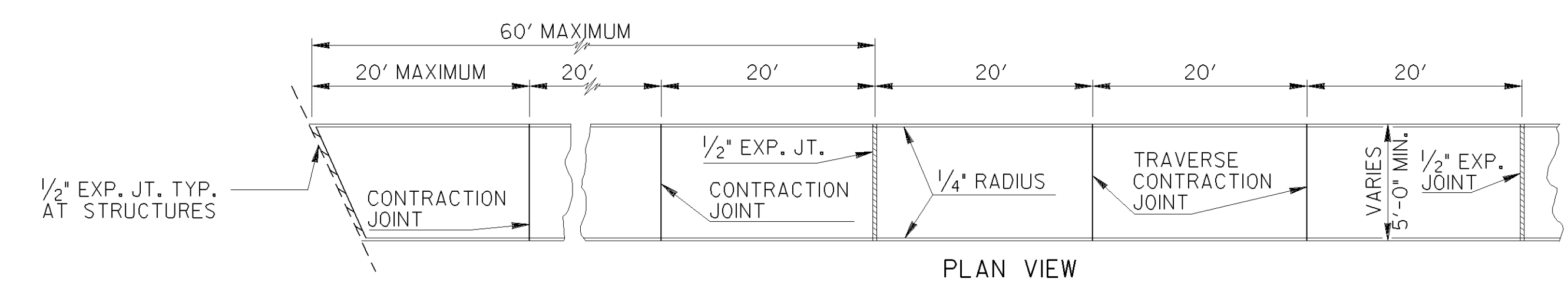
STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

TYPICAL LOCATIONS FOR CURB CUT RAMPS - PLAN VIEW



NOTE: THE RAMP LENGTH IS NOT REQUIRED TO EXCEED 15 FEET. THE RAMP SLOPE MAY EXCEED 12% IF THE SITE CONDITIONS PREVENT THE USE OF A RAMP 15 FEET LONG.

CONCRETE SIDEWALK DETAILS



- NOTES FOR CONCRETE SIDEWALK:
- CONCRETE TO BE PLACED 4" THICK AND FINISHED WITH TAMPS, WOOD FLOATS AND STIFF-BRISTLE BROOMS.
 - TRANSVERSE CONTRACTION JOINTS SHALL BE PLACED AT 20 FT. INTERVALS. ALL EDGES TO BE ROUNDED TO 1/4" RADIUS.
 - 1/2" EXPANSION JOINTS SHALL BE PLACED, WHERE SIDEWALK TIE INTO A STRUCTURE OR TERMINATE AT CURB, RAMPS OR DRIVEWAYS AND AT 60' INTERVALS.
- NOTES FOR CURB CUT RAMPS:
- CURB CUT RAMPS WILL BE LOCATED AS FOLLOWS UNLESS PLANS OR CONTRACT SPECIFY OTHERWISE.
 - AT ALL PEDESTRIAN CROSSWALKS WHERE CURB IS CONSTRUCTED OR REPLACED.
 - WHERE THE SIDEWALK, CONCRETE OR UNPAVED, IS INTERRUPTED BY THE CURB AT TURNOUTS OR AT INTERSECTIONS.
 - AT OTHER LOCATIONS SUCH AS HOSPITALS, NURSING HOMES, REST AREAS, ETC... WHERE THE CURB WOULD OTHERWISE BE AN OBSTRUCTION TO THE PHYSICALLY DISABLED.
 - RAMPS WILL BE CONSTRUCTED FROM CONCRETE. SPECIFICATIONS FOR RAMPS WILL BE THE SAME AS FOR CONCRETE SIDEWALK. RAMPS SHALL HAVE EITHER A ROUGH OR A TEXTURED FINISH.
 - DROP INLETS ARE NOT TO BE LOCATED DIRECTLY IN FRONT OF RAMPS. CATCH BASINS SHOULD BE LOCATED AT LEAST 10 FT. FROM RAMPS WHEN FEASIBLE.
 - WHERE RAMPS ARE LOCATED IN RADII, THE DIMENSIONS SHOWN FOR RAMP WIDTHS AND TAPERS ARE MEASURED PERPENDICULAR TO THE RAMP AND NOT ALONG THE CURVE.
 - WHERE UTILITY STRUCTURES CONFLICT, WHERE SIDEWALK GEOMETRY VARIES, AT SKEWED INTERSECTIONS, OR IN OTHER SPECIAL CASES, THE RAMP DESIGNS MAY BE MODIFIED BY THE DESIGNER OR ENGINEER, PROVIDED THAT THE WIDTH REMAINS A MINIMUM OF 48 INCHES, AND NO SLOPE ON THE ACCESSIBLE PART OF THE RAMP IS STEEPER THAN 12:1.
 - 1 IN. FT. OF CURB AND GUTTER WILL INCLUDE THE TRANSITIONED CURB IN FRONT OF RAMPS. SO, YDS. OF CONCRETE SIDEWALK AND CONCRETE MEDIAN PAVING WILL INCLUDE RAMPS. NO ADDITIONAL PAYMENT WILL BE MADE FOR CURB RAMPS. NO ADDITIONAL PAYMENT WILL BE MADE FOR SAWING AND REMOVING EXISTING SIDEWALK OR CURB WHERE NECESSARY FOR RAMP CONSTRUCTION.
 - WHEN A CURB RAMP IS PLACED ON EXISTING PAVEMENT, THE PAVEMENT SHALL BE REMOVED TO PROVIDE A MINIMUM THICKNESS OF 3 INCHES OF CONCRETE AT ALL LOCATIONS. NO SEPARATE PAYMENT WILL BE MADE FOR REMOVAL OF THE PAVEMENT.
 - DETECTABLE WARNING SURFACES ARE REQUIRED ON ALL INTERSECTIONS WITH PUBLIC STREETS, SIGNALIZED COMMERCIAL DRIVEWAYS, AND COMMERCIAL DRIVEWAYS WITH AN AADT OF 25 VPD.

Type A

(The Preferred Ramp)

LENGTH REQUIRED FOR A 1:10 SLOPE	
DIFFERENCE IN HEIGHT	LENGTH REQUIRED
1 inch	10 inches
2 inches	1'-8"
3 inches	2'-6"
4 inches	3'-4"
5 inches	4'-2"
6 inches	5 feet

Type B

(Normally used when space is not available for a landing at the top of a Type A Ramp)

3 ft. wide landing to be used only with a 5 ft wide sidewalk with no offset to the back of the curb.

Type D

(Normally used when the sidewalk ties directly into the crosswalk)

IN AREAS WHERE THE GUTTER HAS A SLOPE 1" IN 1' END NORMAL GUTTER SLOPE AT A DISTANCE OF 6 TO 10 FEET FROM THE RAMP AND BEGIN TRANSITION TO A FLAT GUTTER SLOPE, NORMAL GUTTER SLOPE SHALL BE RESUMED AT A SIMILAR DISTANCE BEYOND THE RAMP.

LENGTH REQUIRED FOR A 1:12 SLOPE	
DIFFERENCE IN HEIGHT	LENGTH REQUIRED
1 inch	1 foot
2 inches	2 feet
3 inches	3 feet
4 inches	4 feet
5 inches	5 feet
6 inches	6 feet

Type C

Skewed Ramp Details

(Applies to Type A & Type D Ramps Only)

WHEN THE RAMP CENTERLINE IS NOT PERPENDICULAR TO THE CURB A LEVEL LANDING AREA WITH SLOPES LESS THAN 2% MUST BE PROVIDED AT THE BOTTOM OF THE RAMP.

This Detail Replaces Ga Standard 9031W

Guidelines For Usage On Metric Projects

When these details are incorporated into plans and or projects that are being prepared or constructed in metric units, exact or precise conversion to metric units is not required. The dimensions shown that are in feet and inches may be converted to corresponding metric units using the following "Rounded-Off" conversion factors: 1" = 25mm, 4" = 100mm, and 12" or 1' = 300mm. All measurement notes that refer to linear feet and square yards shall be interpreted to mean linear meters and square meters.

REV. SLOPES TO PERCENT AND ADDED I24 & I01 CHART.		REV. TRUNCATED DOMES		DATE		DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA	
6-18-09		5-10-06					
		2-21-03					
		2-10-03					
		7-29-02					
		5-23-02					
		5-13-02					
		4-29-02					
		4-11-02					
		4-3-02					
		3-28-02					
						NO SCALE	MARCH 12, 2002
							NUMBER A3