



City of Stonecrest

INVITATION TO BID

ITB # 2021 - 002

CONCRETE PADS FOR MARTA SHELTERS



City of Stonecrest Invitation to Bid

INVITATION:

The City of Stonecrest, Georgia is seeking competitive bids for a sidewalk construction contract. Proposals will be accepted until **2:00 p.m. EST on April 20, 2021** complete scope and other relevant information for **ITB 2021-002, Concrete Pads for MARTA Shelters**, is available for download on the City of Stonecrest website at <https://www.stonecrestga.gov/> or send request via email to procurement@stonecrestga.gov.

SCOPE OF WORK: Refer to Exhibit A.

PROPOSED SCHEDULE	
Bid Release	March 17, 2021
Pre-Proposal Conference	N/A
Deadline for Questions	April 7, 2021
Responses to Questions Posted:	April 8, 2021
Bid Deadline	April 20, 2021 @ 2:00 p.m. EST
Award at Council Meeting	April 26, 2021
Anticipated Notice to Proceed	May 11, 2021
Completion Date	August 13 2021

QUESTIONS: Submit in writing to procurement@stonecrestga.gov reference ITB #2021-002

SUBMITTAL REQUIREMENTS:

Submit your **ITB Response and Disclosure Form** electronically to: procurement@stonecrestga.gov.

Your response must be received by the date and time specified. On the subject line of the email write "RFP #2021 - 002". Please include vendor contact information.



Alternately, you may submit three (3) hard copies and one (1) flash drive to Stonecrest City Hall located at 3120 Stonecrest Blvd #100, Stonecrest, GA 30038 Attn: Procurement, ITB #2021-002.

Your response must be received by the date and time specified. Late receipt of bids will not be considered. Proposals received after the due opening time will be filed unopened. The City of Stonecrest reserves the right to reject any and all qualifications or any part and to waive any formalities or informalities to make an award in the best interest of the City. No proposals will be received orally, via phone, or fax responses.



Exhibit A

Project Specifications / Scope of Work ITB #2021-002 Concrete Pads for MARTA Shelters

PURPOSE, INTENT AND PROJECT DESCRIPTION

The City of Stonecrest (City), requests that interested parties submit formal sealed bids/proposals to construct concrete pads in seven (7) locations at which MARTA shelters are to be installed by MARTA. Some pads may require the relocation of existing signs. The location of the concrete pads can be found on the location map provided in this bid package.

All concrete pads are to be constructed per the following specifications.

GENERAL CONDITIONS

The contractor shall execute the work according to and meet the requirements of the following:

Georgia Department of Transportation (GDOT) Specifications, Standards, and Details.

Metro Atlanta Rapid Transit Authority (MARTA) Specifications, Standards, and Details.

The Contract Documents including but not limited to the scope of work, details, and specifications. City of Stonecrest ordinances and regulations.

OSHA standards and guidelines;

Any other applicable codes, laws and regulations including but not limited to Section 45-10-20 through 45-10-28 of the Official Code of Georgia Annotated, Title VI of the Civil Rights Act, Drug-Free Workplace Act, and all applicable requirements of the Americans with Disabilities Act of 1990.

The contractor will be responsible for providing all labor, materials, and equipment necessary to perform the work. This is a unit price bid. Payment will be made based on actual work completed.

The contractor is responsible for inspecting the jobsite prior to submitting a bid. No change orders will be issued for differing site conditions.

Materials must come from GDOT approved sources. The contractor will be required to submit in writing a list of proposed sources of materials. When required, representative samples will be taken for examination and testing prior to approval. The materials used in the work shall meet all quality requirements of the contract. Materials will not be considered as finally accepted until all tests, including any to be taken from the finished work have been completed and evaluated. Standard Specification 106 – Control of Materials will be used as a guide. All materials will be tested according to the GDOT Sampling, Testing, and Inspection Manual by an approved consultant/lab hired by the City.

The successful bidder must have verifiable experience at construction of similar projects in accordance with these specifications.

Bidder shall provide references demonstrating experience completing projects of similar scope.



PROSECUTION AND PROGRESS

The Contractor will mobilize with sufficient forces such that all construction identified as part of this contract shall be substantially completed by **August 13, 2021**. The contractor will be considered substantially complete when all work required by this contract has been completed (excluding final striping and punch list work).

Upon Notice of Award, the Contractor will be required to submit a Progress Schedule.

Normal workday for this project shall be 9:00AM to 4:00PM and the normal workweek shall be Monday through Friday. The City will consider extended workdays or workweeks upon written request by the Contractor on a case-by-case basis. No work will be allowed on national holidays (i.e. Memorial Day, July 4th, Labor Day, etc.)

The work will require bidder to provide all labor, administrative forces, equipment, materials and other incidental items to complete all required work. The City shall perform a Final Inspection upon substantial completion of the work. The contractor will be allowed to participate in the Final Inspection. All repairs shall be completed by the contractor at his expense prior to issuance of Final Acceptance.

The contractor shall provide all material, labor, and equipment necessary to perform the work without delay unto completion.

The contractor shall provide a project progress schedule by subdivision prior to or at the preconstruction meeting. This schedule should accurately represent the intended work and cannot be vague or broad such as listing every road in the contract.

The contractor shall submit a two-week advance schedule every Friday by 2:00 PM, detailing scheduled activities for the following week.

BONDING AND INSURANCE REQUIREMENTS

For any bid equal to or greater than \$100,000 a performance and payment bond will be required by the successful contractor (see EXHIBIT D). Upon Notice of Award, the successful contractor shall submit a Performance Bond payable to the City of Stonecrest in the amount of 100% of the total contract price. The successful contractor shall submit a Payment Bond for work being done by a subcontractor pursuant to O.C.G.A. § 36-91-70 and 90.

Upon Notice of Award, the successful contractor shall procure and maintain a General Liability Insurance Policy with minimum limits of \$1,000,000 per person and \$1,000,000 per occurrence.



PERMITS AND LICENSES

The contractor shall procure all permits and licenses, pay all charges, taxes and fees, and give all notices necessary and incidental to the due and lawful prosecution of the work.

MATERIALS

The City will provide a Construction Engineering & Inspections (CEI) Consultant to inspect the work and provide materials testing. All materials will meet appropriate GDOT specifications. Materials quality control test types will meet GDOT specifications at a frequency equal to or exceeding that set by those specifications. Contractor will be responsible for replacing any work performed with material from rejected sample lot at no cost to the City.

EXISTING CONDITIONS / DEVIATION OF QUANTITIES

All information given in this ITB concerning quantities, scope of work, existing conditions, etc. is for information purposes only. It is the Contractors responsibility to inspect the project site to verify existing conditions and quantities prior to submitting their bid. This is a Unit Price bid and no payment will be made for additional work without prior written approval from the City. At no time will Contractor proceed with work outside the prescribed scope of services for which additional payment will be requested without the written authorization of the City.

The City reserves the right to add, modify, or delete quantities. The City may also elect to add or eliminate certain work locations at its discretion. The Contractor will not be entitled to any adjustment of unit prices or any other form of additional compensation because of adjustments made to quantities and/or work locations. Contractor will be paid for actual in-place quantities completed and accepted for pay items listed in the Bid Schedule. All other work required by this ITB, plans, specs, standards, etc. but not specifically listed in the Bid Schedule shall be considered “incidental work” and included in the bid prices for items on the Bid Schedule.

TRAFFIC CONTROL

The contractor shall, always, conduct his work so as to assure the least possible obstruction of traffic. The safety and convenience of the general public and the residents along the roadway and the protection of persons and property shall be provided for by the contractor as specified in the State of Georgia, Department of Transportation Standard Specifications Sections 104.05, 107.09 and 150.

Traffic whose origin and destination is within the limits of the project shall be provided ingress and egress at all times unless otherwise specified by the City. The ingress and egress include entrances and exits via driveways at various properties, and access to the intersecting roads and streets. The contractor shall maintain sufficient personnel and equipment (including flaggers and traffic control always signing) on the project, particularly during inclement weather, to ensure that ingress and egress are safely provided when and where needed.

Two-way traffic shall be always maintained, utilizing pilot vehicles, unless otherwise specified or approved by the City. In the event of an emergency, the Contractor shall provide access to emergency



vehicles and/or emergency personnel through or around the construction area. Any pavement damaged by such an occurrence will be repaired by the Contractor at no additional cost to the City.

The contractor shall furnish, install and maintain all necessary and required barricades, signs and other traffic control devices (including suitable lighting for night work) in accordance with the MUTCD and DOT specifications, and take all necessary precautions for the protection of the workers and safety of the public.

All existing signs, markers and other traffic control devices removed or damaged during construction operations will be reinstalled or replaced at the contractor's expense. At no time will contractor remove regulatory signing which may cause a hazard to the public. The Contractor shall, within 24 hours place temporary pavement markings (paint or removable tape) to match existing pavement markings. No additional payment will be made for this work.

PROTECTION AND RESTORATION OF PROPERTY AND LANDSCAPE

The contractor shall be responsible for the preservation of all public and private property, crops, fishponds, trees, monuments, highway signs and markers, fences, grassed and sodded areas, etc. along and adjacent to the highway, road or street, and shall use every precaution necessary to prevent damage or injury thereto, unless the removal, alteration, or destruction of such property is provided for under the contract.

When or where any direct or indirect damage or injury is done to public or private property by or on account of any act, omission, neglect or misconduct in the execution of the work, or in consequence of the non-execution thereof by the contractor, he shall restore, at his/her own expense, such property to a condition similar or equal to that existing before such damage or injury was done, by repairing, rebuilding or otherwise restoring as may be directed, or she/he shall make good such damage or injury in an acceptable manner. The contractor shall correct all disturbed areas before retainage will be released.

ADJUSTING UTILITY STRUCTURES TO GRADE

Sewer manholes and water valves, if required, are to be adjusted by the DeKalb County Department of Watershed Management. The contractor shall coordinate required utility adjustments with the City of Stonecrest.

CLEANUP

All restoration and clean-up work shall be performed daily. Operations shall be suspended if the contractor fails to accomplish restoration and clean-up within an acceptable period of time. Any existing or new debris shall be removed from gutters, sidewalks, yards, driveways, etc. within the project limits. Failure to perform clean-up activities may result in suspension of the work.

SAFETY

Beginning with mobilization and ending with acceptance of work, the contractor shall be responsible for providing a clean and safe work environment at the project site. The contractor shall comply with all OSHA regulations as they pertain to this project.



SPECIAL CONDITIONS

1. Use Dekalb County GIS as a reference to verify right-of-way lines.
<https://maps.dekalbcountyga.gov/parcel/>

2. Construct concrete pads to meet minimum design and material specifications outlined in MARTA Drawing No. CT100

MARTA Shelter Concrete Pads		
#	Stop ID Number	Stop Name
1	Stop 210161	PANOLA RD @ SNAPFINGER WOODS DR
2	Stop 212960	FAIRINGTON RD @ 5425
3	Stop 210322	HILLANDALE DR @ FAIRINGTON RD
4	Stop 133022	HILLANDALE DR @ SOMERSET PKWY
5	Stop 213339	MALL PKWY @ 8455
6	Stop 213603	MILLER RD @ 2910
7	Stop 133038	PANOLA RD @ HILLANDALE PARK

*Construction order is at the discretion of the contractor. No more than two (2) pads may be reconstructed simultaneously.

Exhibit B

Concrete Pads for MARTA Shelters Cost Estimate

LINE	ITEM	UNIT	DESCRIPTION	QUANTITY	UNIT PRICE	AMOUNT
1	150-1010	LS	TRAFFIC CONTROL	1		
2	210-0100	LS	GRADING COMPLETE	1		
3	310-1101	TN	GR AGGR BS, INCL MATL	24		
5	500-3200	CY	CLASS B CONCRETE	14		
6	511-1000	LB	BAR REINF STEEL	700		
7		EA	EX. SIGN RELOCATION	2		
8		LS	EROSION CONTROL INSTALLATION & MAINTENANCE	1		
9		LS	GRASSING COMPLETE	1		
10	441-0104	CY	CONC SIDEWALK, 4IN	350		
11	999-5200	EA	DETECTABLE WARNING SURFACE	3		
					Total	

Company Name: _____

Address: _____

Phone Number: _____

Email Address: _____

Contact Person: _____

Signature: _____

**In case of discrepancy between the unit price and the total price on the completed Bid Schedule, the unit price will prevail, and the total price will be corrected.



EXHIBIT C

CITY OF STONECREST DISCLOSURE FORM: ITB# 2021-002

BIDDERS MUST RETURN THIS FORM WHICH WILL BE ADDED TO SUBMITTED PROPOSAL

This form is for disclosure of campaign contributions and family member relations with City of Stonecrest officials/employees.

Please complete this form and return as part of your bid package when it is submitted.

Name of Bidder _____

Name and the official position of the Stonecrest Official to whom the campaign contribution was made. (Please use a separate form for each official to whom a contribution has been made in the past two (2) years.)

List the dollar amount/value and description of each campaign contribution made over the past two (2) years by the Applicant/Opponent to the named Stonecrest Official.

Amount/Value

Description

Please list any family member that is currently (or has been employed within the last 9 months) by the City of Stonecrest and your relation:

Signature

EXHIBIT D – BOND

KNOW ALL MEN BY THESE PRESENTS, THAT _____

(Name of Contractor) _____

(Address of Contractor) at _____

(Corporation, Partnership and or Individual) hereinafter called Principal, a n d

(Name of Surety)

(Address of Surety)

A corporation of the State of _____, and a surety authorized by law to do business in the State of Georgia, hereinafter called Surety, are held and firmly bound unto

City of Stonecrest Georgia

(Name of Oblige)

3120 Stonecrest Blvd #100, Stonecrest, GA 30038

(Address of Oblige)

Hereinafter referred to as Oblige, in the penal sum of _____

Dollars (\$_____) in lawful money of the United States, for the payment of which sum well and truly to be made, we bind ourselves, our heirs, executors, administrators and successors, jointly and severally, firmly by these presents.

WHEREAS, the Principal is about to submit, or has submitted, to the City of Stonecrest, Georgia, a proposal for furnishing materials, labor and equipment for:

Concrete Pads for MARTA Shelters

WHEREAS the Principal desires to file this Bond in accordance with law in lieu of a certified Bidder’s check otherwise required to accompany this Proposal.

NOW, THEREFORE, the conditions of this obligation are such that if the bid is accepted, the Principal shall within ten days after receipt of notification of the acceptance execute a Contract in accordance with the Bid and upon the terms, conditions, and prices set forth in the form and

manner required by the City of Stonecrest, Georgia, and execute a sufficient and satisfactory Performance Bond and Payment Bond payable to the City of Stonecrest, Georgia, each in an amount of 100% of the total Contract Price, in form and with security satisfactory to said the City of Stonecrest , Georgia, and otherwise, to be and remain in full force and virtue in law; and the Surety shall, upon failure of the Principal to comply with any or all of the foregoing requirements within the time specified above, immediately pay to the City of Stonecrest , Georgia, upon demand, the amount hereof in good and lawful money of the United States of America, not as a penalty, but as liquidated damages.



PROVIDED, FURTHER, that Principal and Surety agree and represent that this bond is executed pursuant, to and in accordance with the applicable provisions of the Official Code of Georgia Annotated, as Amended, including, but not limited to, O.C.G.A. SS 13-10-1, et. Seg. And SS 36- 86-101, et. Seg. And is intended to be and shall be constructed as a bond in compliance with the requirements thereof.

Signed, sealed, and dated this _____ day of _____ A.D., 20

ATTEST:

(Principal Secretary)
(SEAL)

(Principal)
BY: _____

(Witness to Principal)

(Address)

(Address)

(Surety)

ATTEST

BY: _____
(Attorney-in-Fact) and Resident Agent

(Attorney-in-Fact)
(Seal)
(Address)

(Witness as to Surety)

(Address)



**CITY OF STONECREST
PUBLIC WORKS**

CITY OF STONECREST BUS SHELTER PROJECT

POTENTIAL BUS PADS TO BE INSTALLED

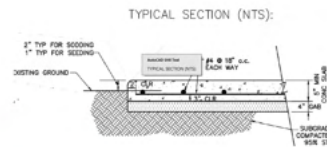
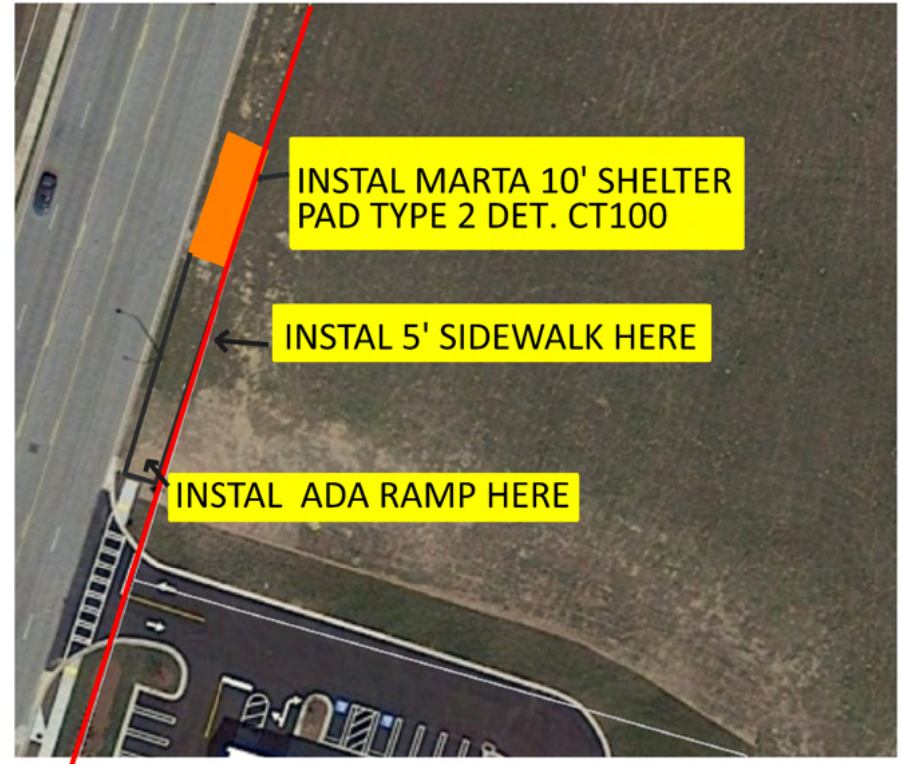
- Stop 212960 - FAIRINGTON RD @ 5425
- Stop 210161- PANOLA RD @ SNAPPINGER WOODS DR
- Stop 210322 - HILLANDALE DR @ FAIRINGTON RD
- Stop 133022 HILLANDALE DR @ SOMERSET PKWY
- Stop 213339 - MALL PKWY @ 8455
- Stop 213603 - MILLER RD @ 2910
- Stop 133038 PANOLA RD @ HILLANDALE PARK

MARTA STOP 213339
MALL PKWY @ 8455

LEGEND

-  PROPOSED BUS PAD
-  PROPERTY LINE

- NOTE
- (1) REFER TO MARTA DET. CT100 FOR CONSTRUCTION SPECIFICATION
 - (2) EXACT LOCATION OF CONCRETE PAD MAY VARY SLIGHTLY BASED ON EXISTING TERRAIN AND UTILITIES
 - (3) REPLACE EXISTING BENCH WITH NEW BUS SHELTER



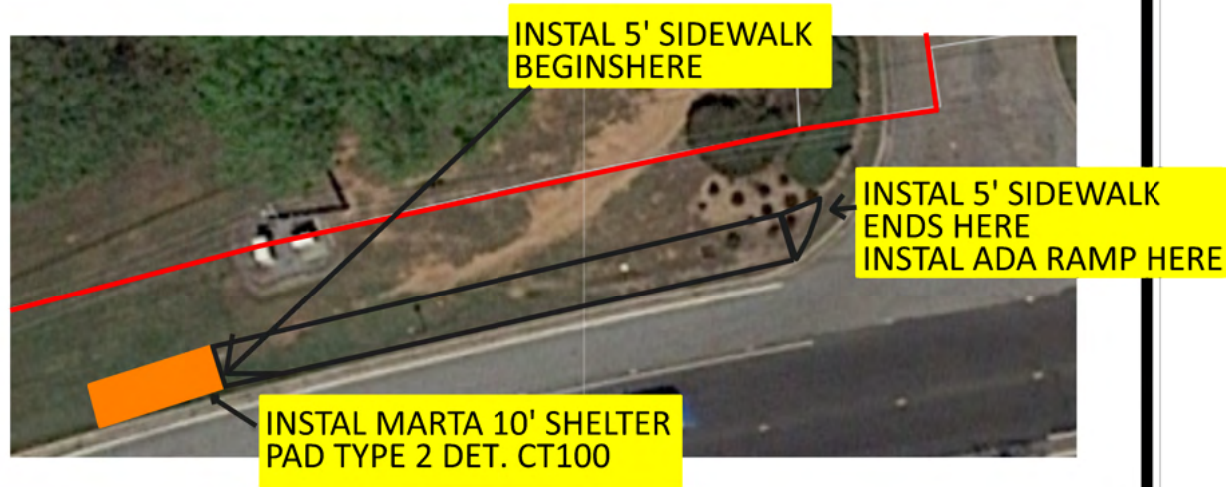
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MARTA STOP 133022
 HILLANDALE DR @ SOMERSET PKWY

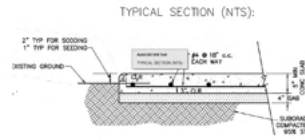
LEGEND

-  PROPOSED BUS PAD
-  PROPERTY LINE



NOTE

- (1) REFER TO MARTA DET. CT100 FOR CONSTRUCTION SPECIFICATION
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- (3) REPLACE EXISTING BENCH WITH NEW BUS SHELTER



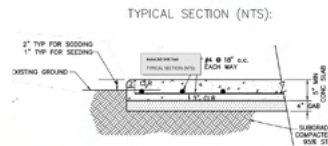
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MARTA STOP 210322
 HILLANDALE DR @ FAIRINGTON RD

LEGEND

-  PROPOSED BUS PAD
-  PROPERTY LINE

- NOTE
- (1) REFER TO MARTA DET. CT100 FOR CONSTRUCTION SPECIFICATION
 - (2) EXACT LOCATION OF CONCRETE PAD MAY VARY SLIGHTLY BASED ON EXISTING TERRAIN AND UTILITIES
 - (3) REPLACE EXISTING BENCH WITH NEW BUS SHELTER



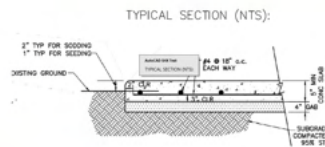
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MARTA BUSSTOP 212960
 FAIRINGTON RD @ 5425

LEGEND

-  PROPOSED BUS PAD
-  PROPERTY LINE

- NOTE
- (1) REFER TO MARTA DET. CT100 FOR CONSTRUCTION SPECIFICATION
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 - (3) REPLACE EXISTING BENCH WITH NEW BUS SHELTER




SCALE: 1"=5'

MARTA BUS STOP 210161
 PANOLA RD @ HILLANDALE DR

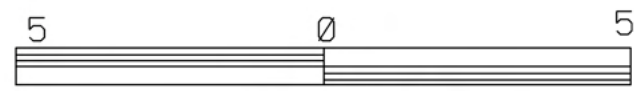
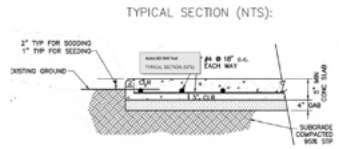


LEGEND

-  PROPOSED BUS PAD
-  PROPERTY LINE
-  EXISTING GUARDRAIL

NOTE

- (1) REFER TO MARTA DET. CT100 FOR CONSTRUCTION SPECIFICATION
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- (3) REPLACE EXISTING BENCH WITH NEW BUS SHELTER

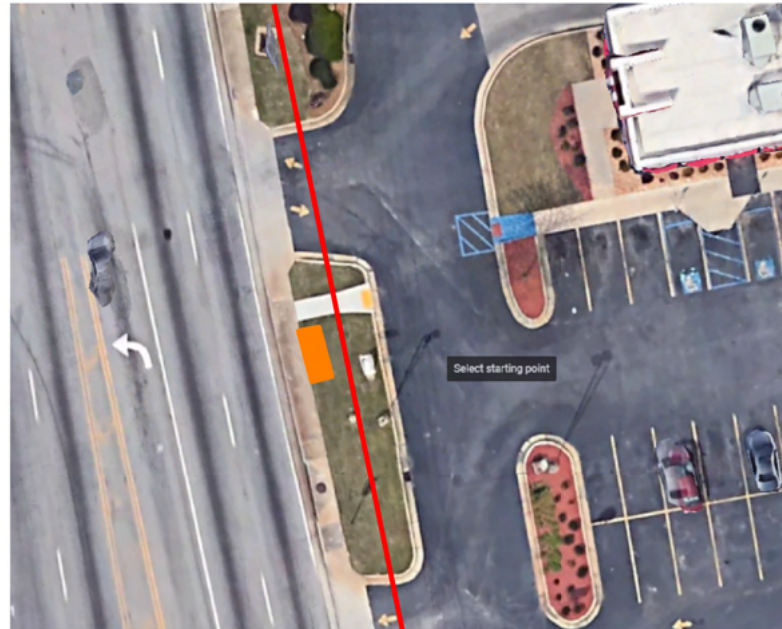


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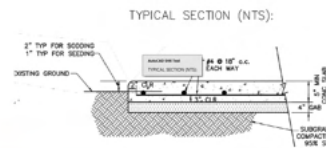
MARTA BUS STOP 133038
PANOLA RD @ HILLANDALE PARK

LEGEND

-  PROPOSED BUS PAD
-  PROPERTY LINE

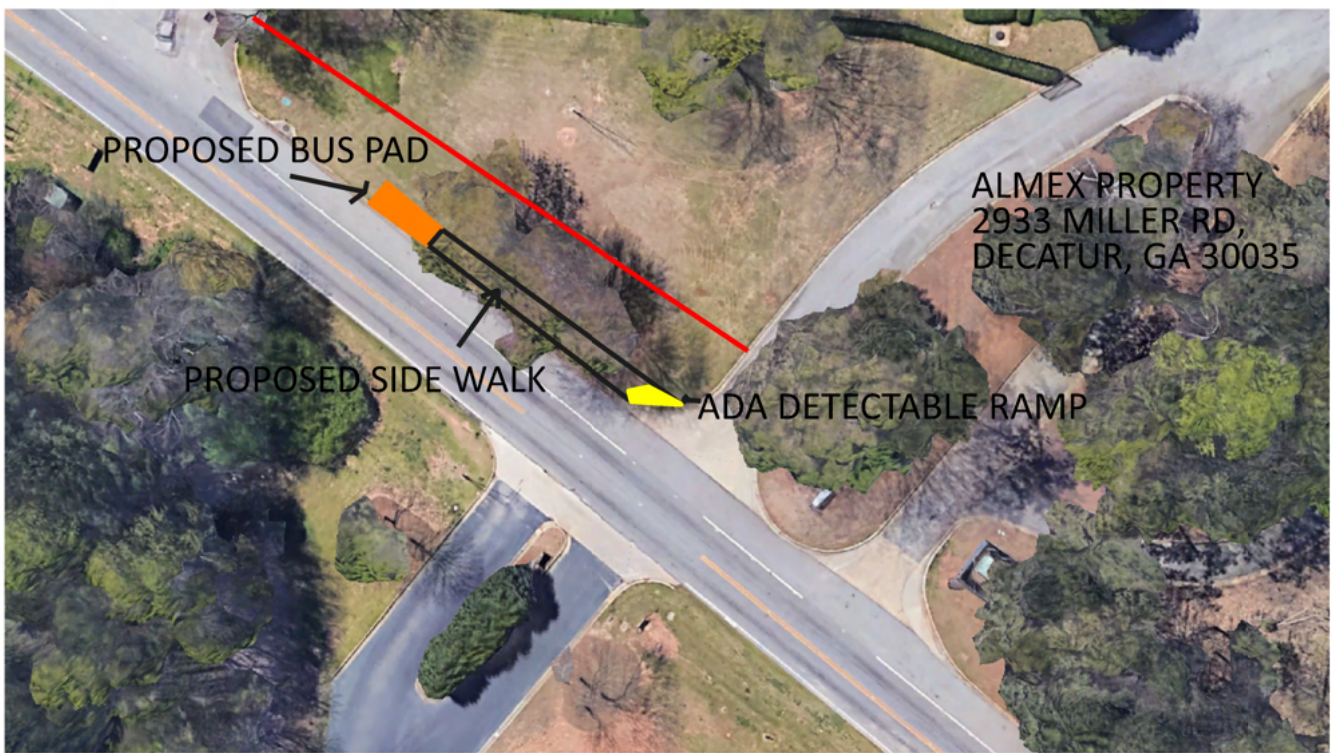


- NOTE
- (1) REFER TO MARTA DET. CT100 FOR CONSTRUCTION SPECIFICATION
 - (2) EXACT LOCATION OF CONCRETE PAD MAY VARY SLIGHTLY BASED ON EXISTING TERRAIN AND UTILITIES
 - (3) REPLACE EXISTING BENCH WITH NEW BUS SHELTER



SCALE: 1"=5'

MARTA BUS STOP 213603
MILLER RD @ 2910

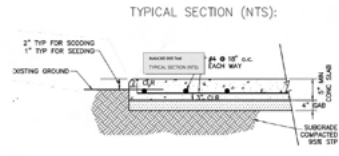


LEGEND

-  PROPOSED BUS PAD
-  PROPERTY LINE

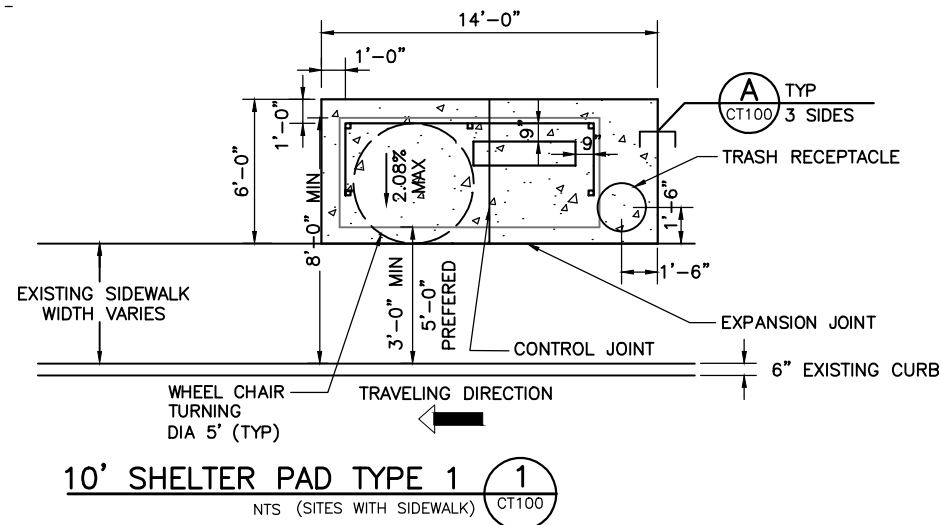
NOTE

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- (3) REPLACE EXISTING BENCH WITH NEW BUS SHELTER

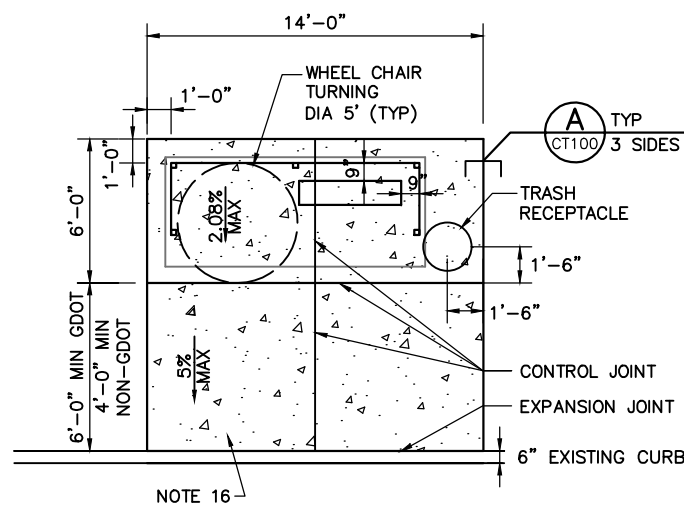


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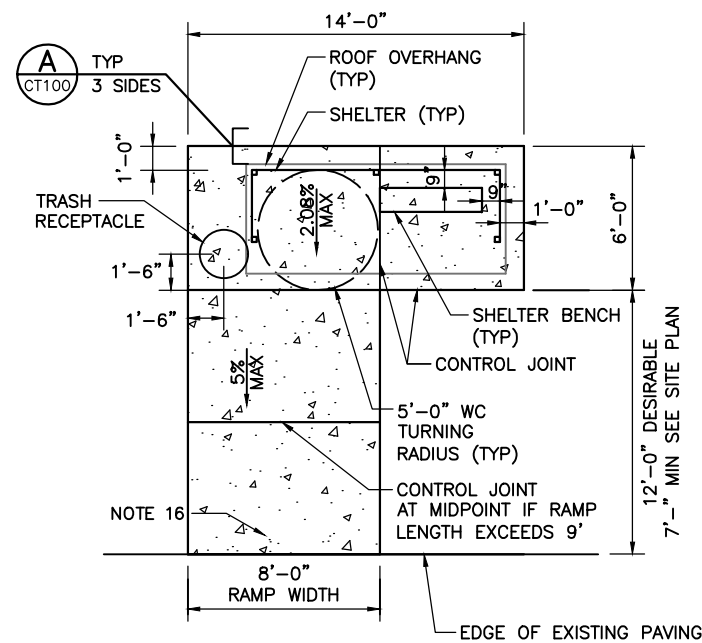




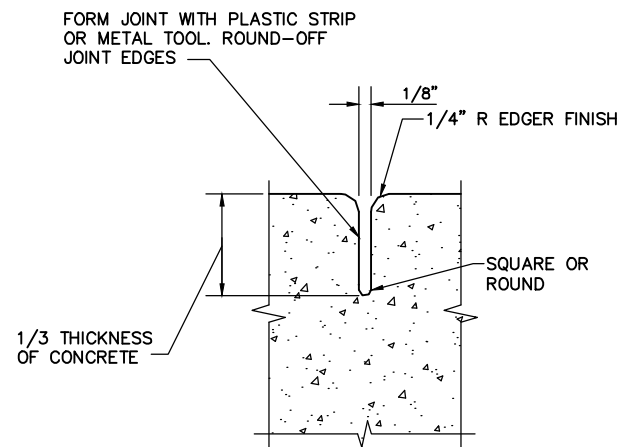
10' SHELTER PAD TYPE 1 (1)
NTS (SITES WITH SIDEWALK) CT100



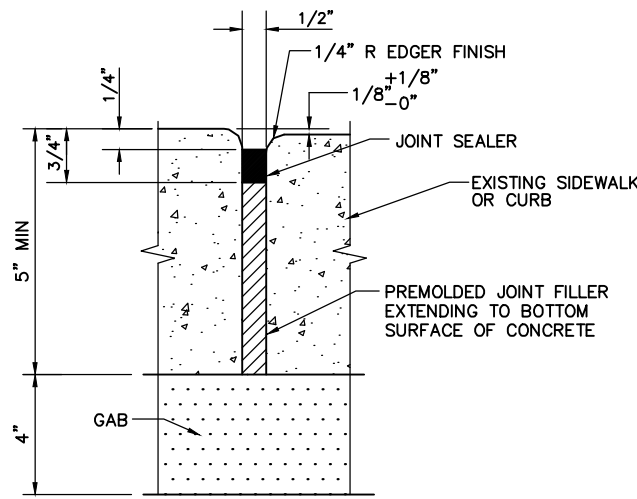
10' SHELTER PAD TYPE 2 (4)
NTS (SITES WITHOUT SIDEWALK) CT100



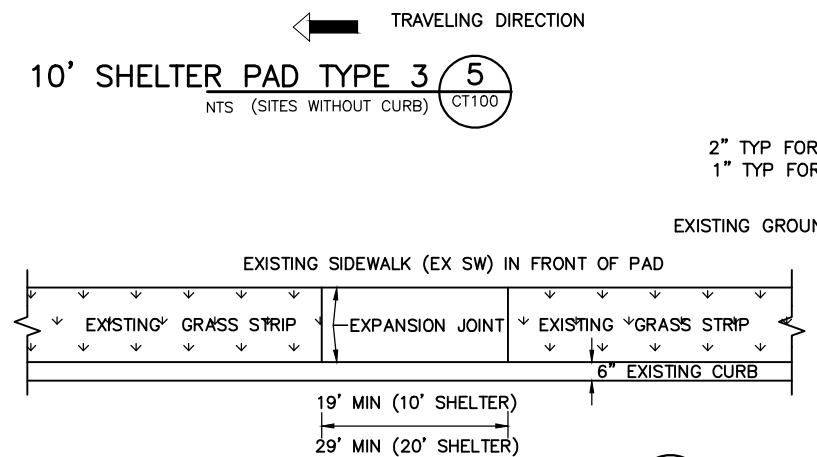
10' SHELTER PAD TYPE 3 (5)
NTS (SITES WITHOUT CURB) CT100



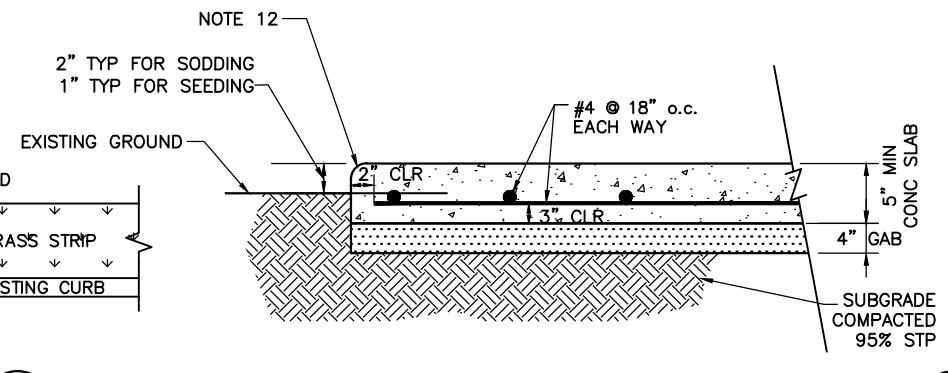
CONTROL JOINT (6)
NTS CT100



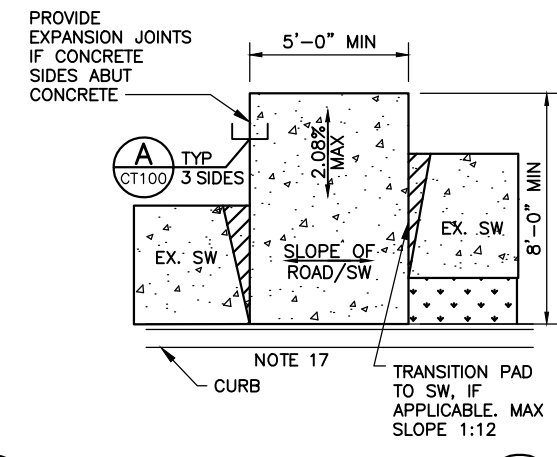
EXPANSION JOINT (7)
NTS CT100



CONCRETE PAD AT GRASS STRIP (2)
NTS CT100



TYPICAL PAD AND SIDEWALK SECTION (A)
NTS CT100



BUS STOP BOARDING (3)
NTS CT100

NOTES:

- CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL EXISTING UTILITIES WITHIN WORK AREA.
- NO WORK SHALL BE PERFORMED IN THE RIGHT-OF-WAY WITHOUT A PERMIT.
- INSTALLATION OF SHELTER, BENCH AND TRASH RECEPTACLE SHALL BE PER MANUFACTURER'S WRITTEN INSTRUCTIONS AND SHOP DRAWINGS.
- TRASH RECEPTACLE SHALL BE INSTALLED USING ANCHORS PROVIDED BY MANUFACTURER.
- ELECTRICAL CONNECTIONS SHOWN ARE THE ENGINEERS BEST ESTIMATE. CONTRACTOR SHALL COORDINATE WITH GEORGIA POWER FOR ACTUAL LOCATIONS AND TYPE OF CONNECTIONS (OVERHEAD OR UNDERGROUND). CONTRACTOR SHALL INSTALL UNDERGROUND CONDUITS AND CONDUCTORS AS REQUIRED TO CONNECT TO GEORGIA POWER. UNDERGROUND CONDUITS SHALL BE COORDINATED WITH THE AUTHORITY PRIOR TO WORK BEING PERFORMED. ELECTRICAL CONNECTIONS SHALL BE PER SHELTER MANUFACTURERS WRITTEN INSTRUCTIONS. SEE DRAWING EE100 FOR GROUNDING DETAILS.
- CONTRACTOR SHALL INSTALL EROSION CONTROL MEASURES THAT CONFORM TO THE GEORGIA SOIL AND WATER CONSERVATION COMMISSION MANUAL (GREEN BOOK) FOR SITES THAT ARE DISTURBED AND PADS NOT COMPLETED.
- WWF 4 X 4 - W2.9 / W2.9 MAY BE USED INSTEAD OF REBAR OVER ALL POURED CONCRETE. THE WWF SHALL BE PLACED THE MIDDLE OF THE SLAB USING SUPPORTS. THE SHELTER CAN BE INSTALLED WHEN THE CONCRETE ACHIEVES 60% DESIGN STRENGTH.
- SHELTER AND DISTURBED AREA SHALL BE WITHIN THE RIGHT-OF-WAY UNLESS AN EASEMENT IS OBTAINED.
- SHELTER SHALL BE LOCATED SO IT WILL NOT OBSTRUCT VEHICLE SIGHT DISTANCE.
- PAD SLOPE SHALL BE 2.08% MAXIMUM PERPENDICULAR TO THE ROADWAY.
- PLACE PREMOLDED EXPANSION JOINT MATERIAL BETWEEN BACK OF CURB OR SIDEWALK AND PAD, SEE EXPANSION JOINT DETAIL.
- FORM ALL EXPOSED EXTERNAL CORNERS OF CONCRETE WITH 3/4" ROUND.
- FOR EXISTING GRASS STRIP BETWEEN SIDEWALK & CURB PROVIDE CONCRETE PAD ACROSS GRASS STRIP. SEE DETAIL 2, THIS SHEET.
- GRADING OF SLOPES SHALL NOT EXCEED 2H:1V.
- THE PAD SHALL BE GRADED SO RUNOFF FLOWS AWAY FROM IT. RUNOFF SHALL NEVER POND ON OR NEAR THE PAD.
- SIDEWALKS SHALL HAVE A MAXIMUM OF 2.08% CROSS SLOPE.
- 2010 ADA GUIDELINES: PARALLEL TO THE ROADWAY, THE SLOPE OF THE BUS STOP BOARDING & ALIGHTING AREA SHALL BE THE SAME AS THE ROADWAY, TO THE MAXIMUM EXTENT PRACTICABLE. PERPENDICULAR TO THE ROADWAY, THE SLOPE OF THE BUS STOP BOARDING AND ALIGHTING AREA SHALL NOT BE STEEPER THAN 1:48.
- THE SHELTER SHALL BE TOLAR BUS SHELTER OR EQUIVALENT.

MATERIALS:

- CONCRETE: 4000E PSI PORTLAND CEMENT CONCRETE (F'C=4000 PSI)
- EXPANSION JOINT FILLERS: PREFORMED TYPE, NON-BITUMINOUS; CLOSED CELL PLASTIC FOAM STRIPS, FLEXIBLE, RESILIENT, HAVING LOW WATER ABSORPTION, RESISTANT TO SOLVENTS AND CHEMICALS, NON-STAINING, AND EFFECTIVE AS A BACK-UP FOR COLD APPLIED SEALANTS.
- GRADED AGGREGATE BASE: REFER TO GDOT SSCTS SECTION 815.
- STEEL BARS FOR CONCRETE REINFORCEMENT: REFER TO GDOT SSCTS SECTION 853.2.01

NOTE:

GDOT REQUIRES 6' OF DISTANCE BETWEEN SHELTER, BENCH, ETC TO BACK OF CURB. FOR NON-GDOT MUNICIPALITIES, AN ABSOLUTE MINIMUM OF 3' FROM BUS AMENITY TO BACK OF CURB CAN BE USED ONLY TO AVOID RIGHT-OF-WAY ENCROACHMENT AND ACCEPTABLE BY LOCAL MUNICIPALITY. BUS AMENITIES MAY ALSO BE PLACED ON EXISTING SIDEWALKS WITHOUT BUILDING A PAD IF APPLICABLE.

Drawing File: G:\EAC DOCUMENTS\A PROJECTS\BUS SHELTERS\10 FT TOLAR SHELTER DETAILS.DWG
Date: Tue, 28 Jun 2016 10:58:15 am
Image:

REV.	DATE	BY	SUB.	APP.	DESCRIPTION	REV.	DATE	BY	SUB.	APP.	DESCRIPTION

THE PREPARATION OF THIS DRAWING HAS BEEN FINANCED IN PART THROUGH A GRANT FROM THE U.S. DEPARTMENT OF TRANSPORTATION, FEDERAL TRANSIT ADMINISTRATION, UNDER THE FEDERAL TRANSIT ACT, AS AMENDED, AND IN PART BY THE TAXES OF THE CITIZENS OF FULTON, DEKALB AND CLAYTON COUNTIES OF THE STATE OF GEORGIA.

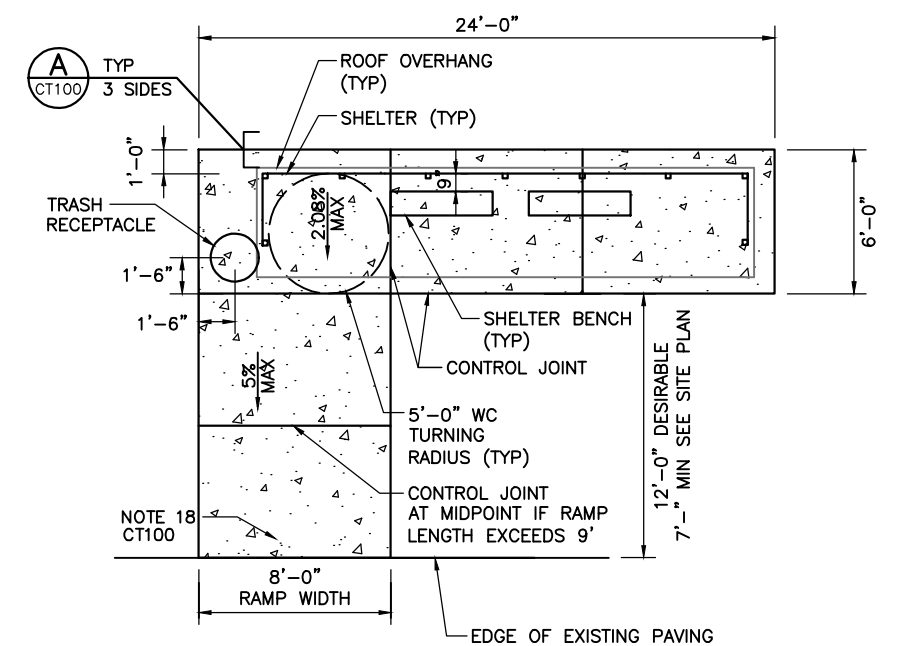
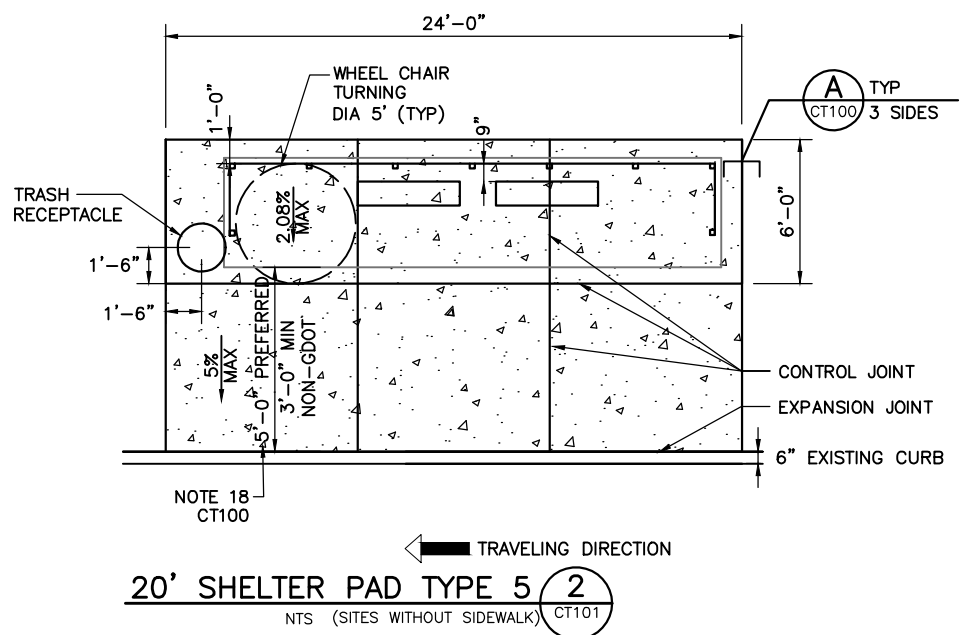
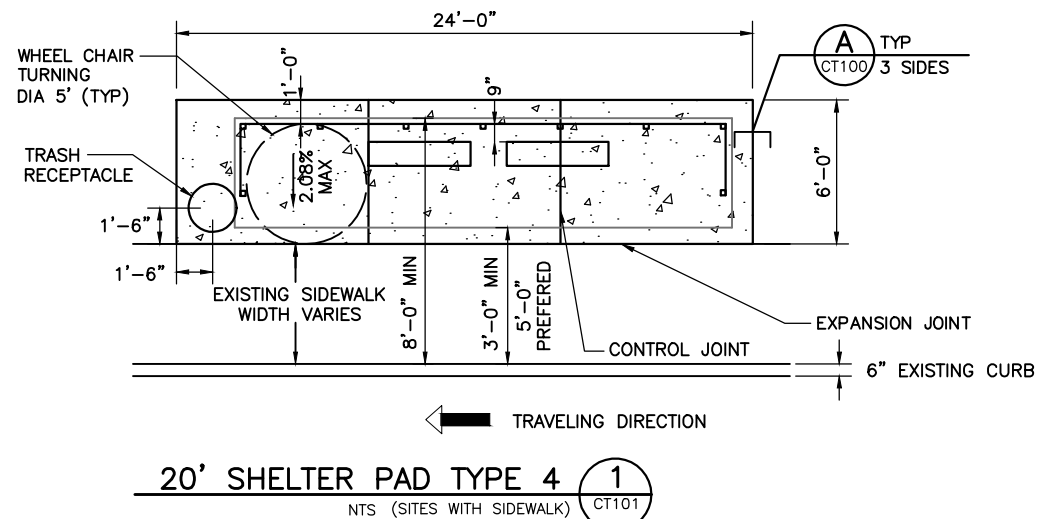
DESIGNED A. WHITLOCK
DRAWN D. MERCHANT
CHECKED A. MOHAJER
IN CHARGE A. MOHAJER
DATE

METROPOLITAN ATLANTA RAPID TRANSIT AUTHORITY

SUBMITTED _____ APPROVED _____

SCALE NTS		
CONTRACT PROPOSAL NUMBER		
DRAWING NO. CT100	REV. 0	PAGE NO. XX

MARTA 10 FT BUS SHELTER
PLANS AND PAD DETAILS



- NOTES:**
- CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL EXISTING UTILITIES WITHIN WORK AREA.
 - NO WORK SHALL BE PERFORMED IN THE RIGHT-OF-WAY WITHOUT A PERMIT.
 - INSTALLATION OF SHELTER, BENCH AND TRASH RECEPTACLE SHALL BE PER MANUFACTURER'S WRITTEN INSTRUCTIONS AND SHOP DRAWINGS.
 - TRASH RECEPTACLE SHALL BE INSTALLED USING ANCHORS PROVIDED BY MANUFACTURER.
 - ELECTRICAL CONNECTIONS SHOWN ARE THE ENGINEERS BEST ESTIMATE. CONTRACTOR SHALL COORDINATE WITH GEORGIA POWER FOR ACTUAL LOCATIONS AND TYPE OF CONNECTIONS (OVERHEAD OR UNDERGROUND). CONTRACTOR SHALL INSTALL UNDERGROUND CONDUITS AND CONDUCTORS AS REQUIRED TO CONNECT TO GEORGIA POWER. UNDERGROUND CONDUITS SHALL BE COORDINATED WITH THE AUTHORITY PRIOR TO WORK BEING PERFORMED. ELECTRICAL CONNECTIONS SHALL BE PER SHELTER MANUFACTURERS WRITTEN INSTRUCTIONS. SEE DRAWING EE100 FOR GROUNDING DETAILS.
 - CONTRACTOR SHALL INSTALL EROSION CONTROL MEASURES THAT CONFORM TO THE GEORGIA SOIL AND WATER CONSERVATION COMMISSION MANUAL (GREEN BOOK) FOR SITES THAT ARE DISTURBED AND PADS NOT COMPLETED.
 - WWF 4 X 4 - W2.9 / W2.9 MAY BE USED INSTEAD OF REBAR OVER ALL POURED CONCRETE. THE WWF SHALL BE PLACED THE MIDDLE OF THE SLAB USING SUPPORTS. THE SHELTER CAN BE INSTALLED WHEN THE CONCRETE ACHIEVES 60% DESIGN STRENGTH.
 - SHELTER AND DISTURBED AREA SHALL BE WITHIN THE RIGHT-OF-WAY UNLESS AN EASEMENT IS OBTAINED.
 - SHELTER SHALL BE LOCATED SO IT WILL NOT OBSTRUCT VEHICLE SIGHT DISTANCE.
 - PAD SLOPE SHALL BE 2.08% MAXIMUM PERPENDICULAR TO THE ROADWAY.
 - PLACE PREMOLDED EXPANSION JOINT MATERIAL BETWEEN BACK OF CURB OR SIDEWALK AND PAD, SEE EXPANSION JOINT DETAIL.
 - FORM ALL EXPOSED EXTERNAL CORNERS OF CONCRETE WITH 3/4" ROUND.
 - FOR EXISTING GRASS STRIP BETWEEN SIDEWALK & CURB PROVIDE CONCRETE PAD ACROSS GRASS STRIP. SEE DETAIL 2, THIS SHEET.
 - GRADING OF SLOPES SHALL NOT EXCEED 2H:1V.
 - THE PAD SHALL BE GRADED SO RUNOFF FLOWS AWAY FROM IT. RUNOFF SHALL NEVER POND ON OR NEAR THE PAD.
 - SIDEWALKS SHALL HAVE A MAXIMUM OF 2.08% CROSS SLOPE.
 - 2010 ADA GUIDELINES: PARALLEL TO THE ROADWAY, THE SLOPE OF THE BUS STOP BOARDING & ALIGHTING AREA SHALL BE THE SAME AS THE ROADWAY, TO THE MAXIMUM EXTENT PRACTICABLE. PERPENDICULAR TO THE ROADWAY, THE SLOPE OF THE BUS STOP BOARDING AND ALIGHTING AREA SHALL NOT BE STEEPER THAN 1:48.
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NOTE:
 GDOT REQUIRES 6' OF DISTANCE BETWEEN SHELTER, BENCH, ETC TO BACK OF CURB. FOR NON-GDOT MUNICIPALITIES, AN ABSOLUTE MINIMUM OF 3' FROM BUS AMENITY TO BACK OF CURB CAN BE USED ONLY TO AVOID RIGHT-OF-WAY ENCROACHMENT AND ACCEPTABLE BY LOCAL MUNICIPALITY. BUS AMENITIES MAY ALSO BE PLACED ON EXISTING SIDEWALKS WITHOUT BUILDING A PAD IF APPLICABLE.

- MATERIALS:**
- CONCRETE: 4000E PSI PORTLAND CEMENT CONCRETE (F'C=4000 PSI)
 - EXPANSION JOINT FILLERS: PREFORMED TYPE, NON-BITUMINOUS; CLOSED CELL PLASTIC FOAM STRIPS, FLEXIBLE, RESILIENT, HAVING LOW WATER ABSORPTION, RESISTANT TO SOLVENTS AND CHEMICALS, NON-STAINING, AND EFFECTIVE AS A BACK-UP FOR COLD APPLIED SEALANTS.
 - GRADED AGGREGATE BASE: REFER TO GDOT SSCTS SECTION 815.
 - STEEL BARS FOR CONCRETE REINFORCEMENT: REFER TO GDOT SSCTS SECTION 853.2.01

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 Date: Tue, 28 Jun 2019 11:52:52 am
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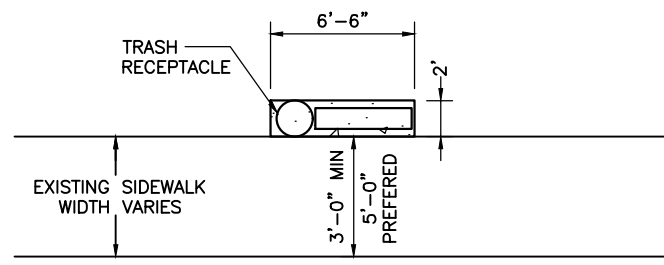
THE PREPARATION OF THIS DRAWING HAS BEEN FINANCED IN PART THROUGH A GRANT FROM THE U.S. DEPARTMENT OF TRANSPORTATION, FEDERAL TRANSIT ADMINISTRATION, UNDER THE FEDERAL TRANSIT ACT, AS AMENDED, AND IN PART BY THE TAXES OF THE CITIZENS OF FULTON, DEKALB AND CLAYTON COUNTIES OF THE STATE OF GEORGIA.										DESIGNED A. WHITLOCK DRAWN D. MERCHANT CHECKED A. MOHAJER IN CHARGE A. MOHAJER		METROPOLITAN ATLANTA RAPID TRANSIT AUTHORITY 		SCALE NTS CONTRACT PROPOSAL NUMBER			
REV.	DATE	BY	SUB.	APP.	DESCRIPTION	REV.	DATE	BY	SUB.	APP.	DESCRIPTION	DATE	SUBMITTED	APPROVED	DRAWING NO.	REV.	PAGE NO.
															CT101	0	XX

NOTES:

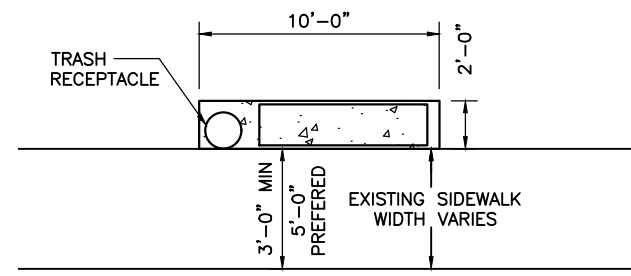
- CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL EXISTING UTILITIES WITHIN WORK AREA.
- NO WORK SHALL BE PERFORMED IN THE RIGHT-OF-WAY WITHOUT A PERMIT.
- INSTALLATION OF SHELTER, BENCH AND TRASH RECEPTACLE SHALL BE PER MANUFACTURER'S WRITTEN INSTRUCTIONS AND SHOP DRAWINGS.
- TRASH RECEPTACLE SHALL BE INSTALLED USING ANCHORS PROVIDED BY MANUFACTURER.
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- CONTRACTOR SHALL INSTALL EROSION CONTROL MEASURES THAT CONFORM TO THE GEORGIA SOIL AND WATER CONSERVATION COMMISSION MANUAL (GREEN BOOK) FOR SITES THAT ARE DISTURBED AND PADS NOT COMPLETED.
- WWF 4 X 4 - W2.9 / W2.9 MAY BE USED INSTEAD OF REBAR OVER ALL POURED CONCRETE. THE WWF SHALL BE PLACED THE MIDDLE OF THE SLAB USING SUPPORTS. THE SHELTER CAN BE INSTALLED WHEN THE CONCRETE ACHIEVES 60% DESIGN STRENGTH.
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- THE SHELTER SHALL BE TOLAR BUS SHELTER OR EQUIVALENT.

MATERIALS:

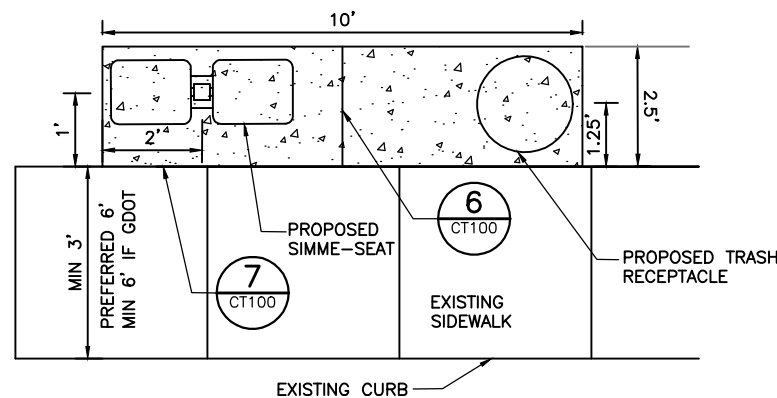
- CONCRETE: 4000E PSI PORTLAND CEMENT CONCRETE (F'C=4000 PSI)
- EXPANSION JOINT FILLERS: PREFORMED TYPE, NON-BITUMINOUS; CLOSED CELL PLASTIC FOAM STRIPS, FLEXIBLE, RESILIENT, HAVING LOW WATER ABSORPTION, RESISTANT TO SOLVENTS AND CHEMICALS, NON-STAINING, AND EFFECTIVE AS A BACK-UP FOR COLD APPLIED SEALANTS.
- GRADED AGGREGATE BASE: REFER TO GDOT SSCS SECTION 815.
- STEEL BARS FOR CONCRETE REINFORCEMENT: REFER TO GDOT SSCS SECTION 853.2.01



LEANING POST PAD TYPE 7 (1)
NTS (SITES WITH SIDEWALK) CT102



7' BENCH PAD TYPE 8 (2)
NTS (SITES WITH SIDEWALK) CT102

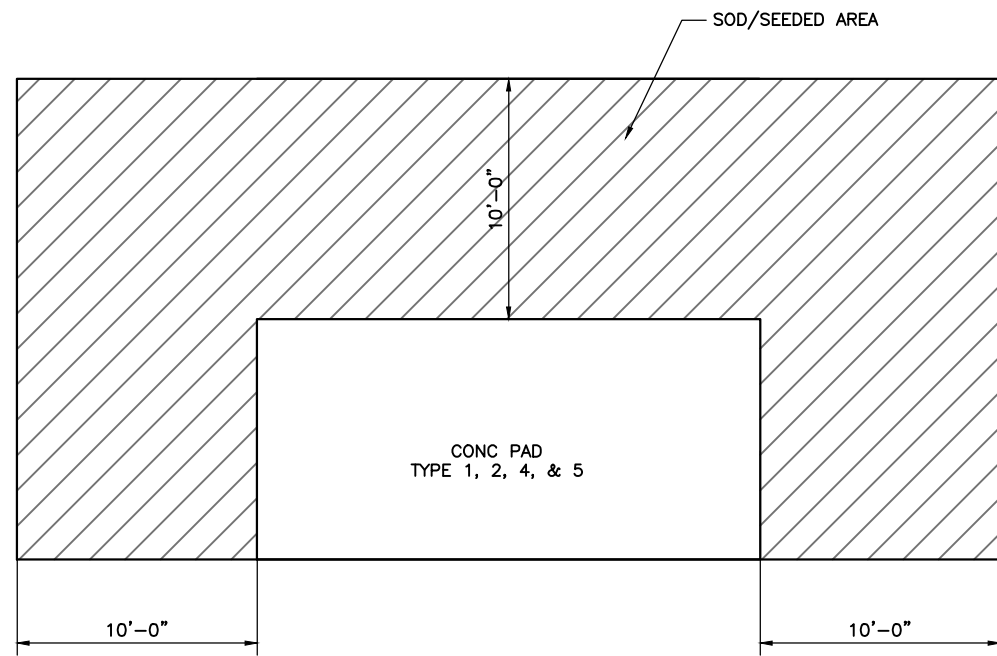
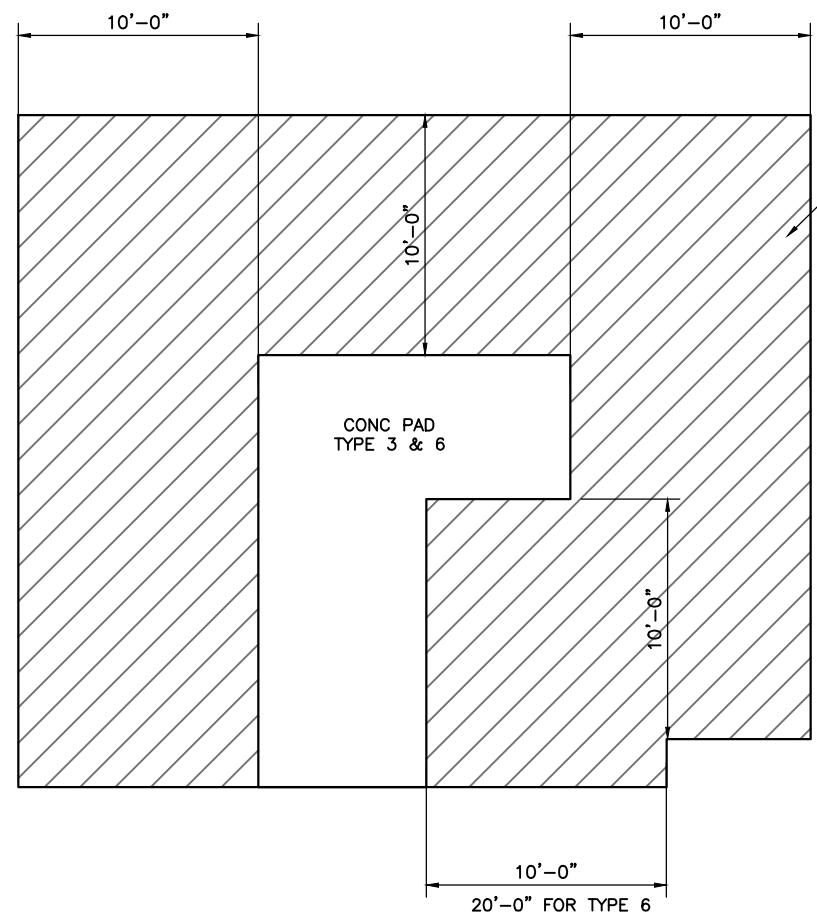


SIMME-SEAT DETAIL (3)
1" = 2'-0" CT102

NOTE:
GDOT REQUIRES 6' OF DISTANCE BETWEEN SHELTER, BENCH, ETC TO BACK OF CURB. FOR NON-GDOT MUNICIPALITIES, AN ABSOLUTE MINIMUM OF 3' FROM BUS AMENITY TO BACK OF CURB CAN BE USED ONLY TO AVOID RIGHT-OF-WAY ENCROACHMENT AND ACCEPTABLE BY LOCAL MUNICIPALITY. BUS AMENITIES MAY ALSO BE PLACED ON EXISTING SIDEWALKS WITHOUT BUILDING A PAD IF APPLICABLE.

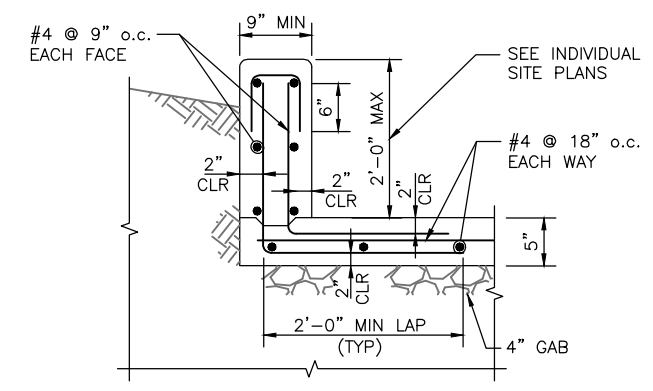
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Created by: AWHITLOCK Date: Tue, 28 Jun 2017 Time: 01:49:08 pm
Image:

THE PREPARATION OF THIS DRAWING HAS BEEN FINANCED IN PART THROUGH A GRANT FROM THE U.S. DEPARTMENT OF TRANSPORTATION, FEDERAL TRANSIT ADMINISTRATION, UNDER THE FEDERAL TRANSIT ACT, AS AMENDED, AND IN PART BY THE TAXES OF THE CITIZENS OF FULTON, DEKALB AND CLAYTON COUNTIES OF THE STATE OF GEORGIA.										DESIGNED A. WHITLOCK DRAWN D. MERCHANT CHECKED A. MOHAJER IN CHARGE A. MOHAJER		METROPOLITAN ATLANTA RAPID TRANSIT AUTHORITY 		SCALE NTS CONTRACT PROPOSAL NUMBER 7FT BENCH, SIMME SEAT, AND 4FT LEANING POST PLANS AND PAD DETAILS		DRAWING NO. CT102		REV. 0		PAGE NO. XX	
REV.	DATE	BY	SUB.	APP.	DESCRIPTION	REV.	DATE	BY	SUB.	APP.	DESCRIPTION					DATE	SUBMITTED	APPROVED			

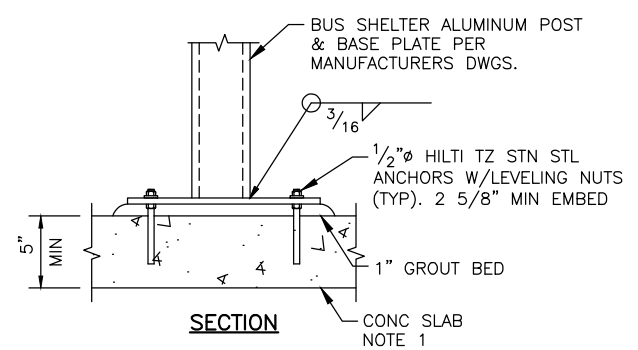


- NOTES:**
- 5" CONCRETE SLAB REINF W/#4@18" o.c. EACH WAY ON 4" GAB (MIN).
 - SAWCUT EXISTING SLAB AND CAST 4,000 PSI CONCRETE FOOTING.

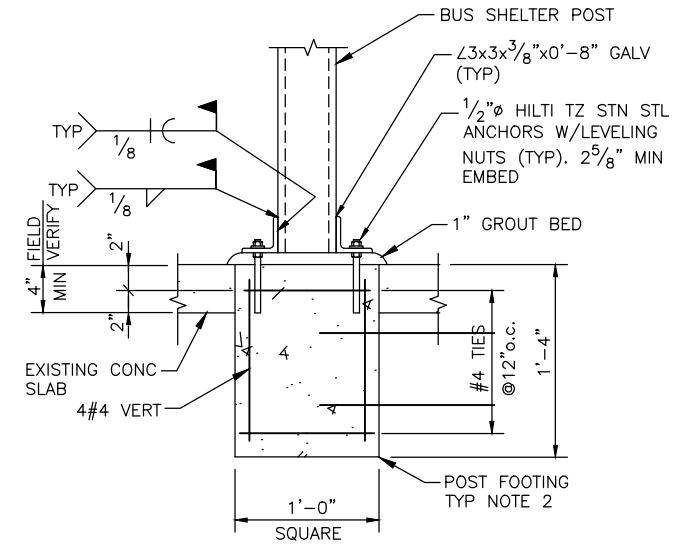
SEEDING AND SODDING PAY LIMITS 1
NTS CT101



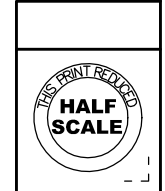
TYPICAL SECTION FOR RAISED CURB A
NTS CT101



TYPICAL BUS SHELTER POST CONNECTION TO SLAB 2
NTS CT101



TYPICAL DETAIL FOR EXISTING PAVING MODIFICATION FOR BUS SHELTER CONNECTION 3
NTS CT101



Project: RTA Bus Documents - Buses, Bus Substitution, Buses & Leasing, Rolling
 Drawn by: A. MOHAJER Date: 12/20/18
 Checked by: A. MOHAJER Date: 01/18/19
 In Charge: A. MOHAJER
 Date: 23 JAN 19

REV.	DATE	BY	SUB.	APP.	DESCRIPTION

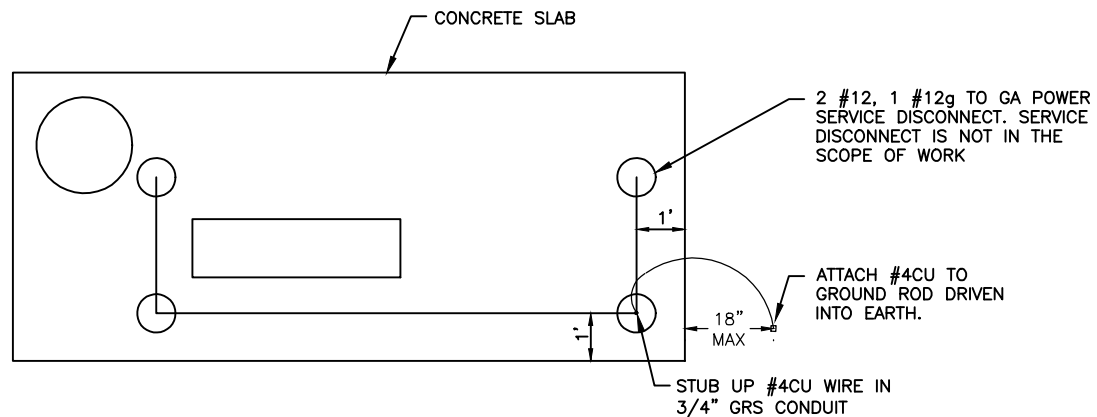
DESIGNED: A. WHITLOCK
 DRAWN: D. MERCHANT
 CHECKED: A. MOHAJER
 IN CHARGE: A. MOHAJER
 DATE: 23 JAN 19

METROPOLITAN ATLANTA RAPID TRANSIT AUTHORITY

marta

SUBMITTED: _____ APPROVED: _____

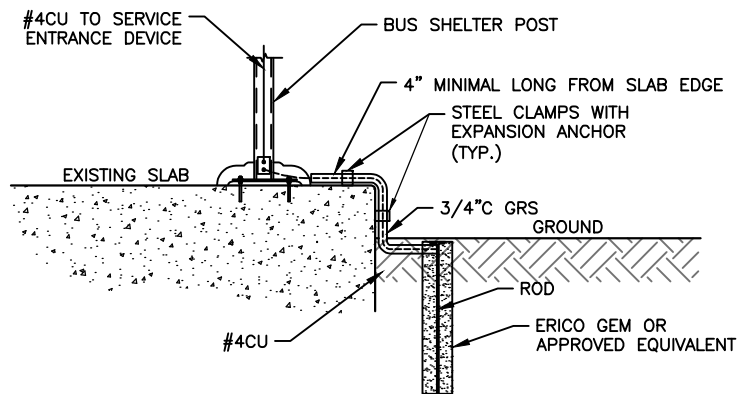
SCALE NTS		
CONTRACT PROPOSAL NUMBER		
DRAWING NO. CT103	REV. 0	PAGE NO. XX



NEW SLAB GROUNDING DETAIL

1/2" = 1'-0"

1
EE100 CT100



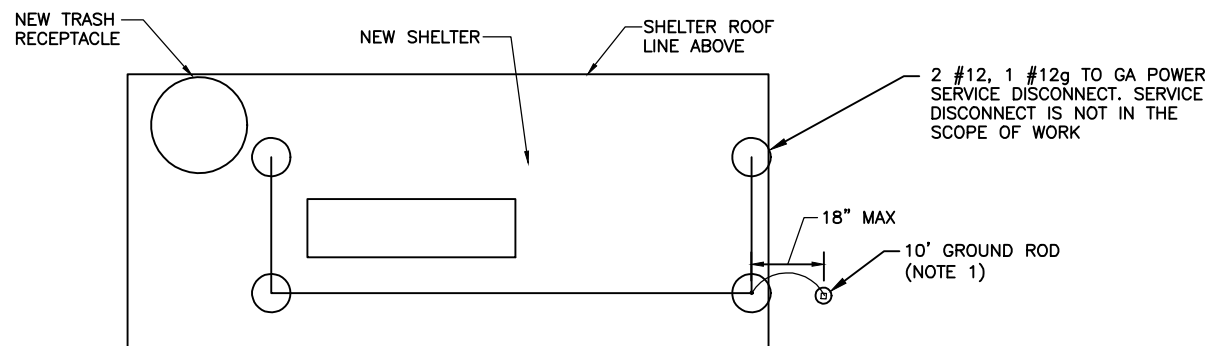
EXISTING SLAB GROUNDING DETAIL (ELEV)

NTS

4
EE100 CT100

NOTES:

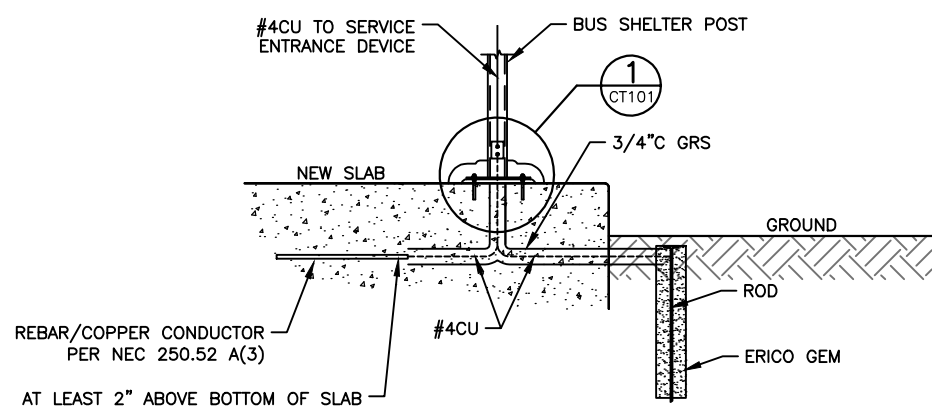
1. GROUND ROD SHALL BE "COPPER-BONDED GROUND ROD" MINIMUM 5/8" IN DIAMETER, 10- FEET LONG.
 - a. CORE A HOLE MINIMUM 3-INCHES IN DIAMETER AND 9- FEET DEEP. DRIVE THE ROD MINIMUM 12-INCHES IN THE CENTER OF THE CORING SO CONDUCTOR FROM ROD WILL RUN UNDER THE SURFACE TO THE BASE OF THE LEFT REAR POST .
 - i. IF CONCRETE PAD IS EXISTING, DEPENDING ON THE SITE SITUATION, EITHER INSTALL CONDUCTOR AND CONDUIT AT THE CORNER POST FOR THE SHELTER AS SHOWN IN 4/EE100 OR CORE DRILL FIRST THEN INSTALL CONDUCTORS AND CONDUIT AT THE CORNER POST. INSTALL PER "B. & C." BELOW GROUND SURFACE TO RUN THE GEC (GROUND ELECTRICAL CONDUCTOR #4CU) FROM THE GROUND ROD IN 3/4" GRS CONDUIT TO THE REAR POST. AVOID SHARP BENDS OF THE GEC / CONDUIT. CONTINUE GEC RUN THE UN-SPLICED UP THE POST TO THE GROUND IN THE SERVICE ENTRANCE RATED DEVICE AT THE TOP CORNER.
 - ii. IF A CONCRETE PAD IS NEW, CORE HOLE THROUGH THE EARTH NEAR REAR CORNER POST FOR THE SHELTER AND PLACE A PIECE OF 3/4" GRS FROM THE HOLE TO PROTECT AND DIRECT THE GEC TO THE BASE OF THE REAR POST. DETAILS AS SHOWN IN 3/EE101. RUN THE GEC #4CU THROUGH THE POST TO THE TOP CORNER SERVICE ENTRANCE RATED DEVICE OF THE SHELTER AND BOND. PROVIDE JUNCTION BOX IF NEEDED.
 - b. THE GROUND ROD CORING SHALL BE FILLED WITH ERICO [(800) 677-9089] "GROUND ENHANCEMENT MATERIAL (GEM)" OR APPROVED EQUIVALENT TO ANCHOR THE ROD INTO THE GROUND AND REDUCE THE GROUND RESISTANCE FOR THE ROD.
 - c. CADWELD® #4 AWG COPPER WIRE TO GROUND ROD. THE GEC WIRE SHOULD BE CONTINUOUS RUN TO TERMINATE IN THE CORNER. USE A 3/4" GRS CONDUIT AS THE RACEWAY TO THE BOTTOM REAR POST.
2. GEC USED AS "GROUND CONCRETE-ENCASED ELECTRODE" IN SLAB FOR THE SHELTER.
 - a. CONNECT THE GEC OF #4 AWG COPPER STRANDED WIRE WITH HEAVY DUTY REBAR CLAMPS [ERICO PART NO RC70 (OR APPROVED EQUAL.)] OR WITH CADWELD® TO THE REBAR NEAR WHERE THE, REAR POST IS TO BE LOCATED. AVOID SHARP BENDS OF THE GEC.
 - b. THE GEC FROM THE GRID SHOULD PASS THROUGH A 3/4" GRS FROM THE CEMENT INTO REAR POST FOR THE SHELTER FOR TERMINATING THE GEC WITH THE GROUND TERMINAL IN THE ELECTRICAL BOX LOCATED THE TOP REAR CORNER ABOVE THE REAR POST OF THE SHELTER.



EXISTING SLAB GROUNDING DETAIL

1/2" = 1'-0"

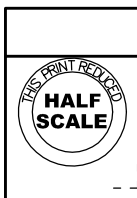
2
EE100 CT100



NEW SLAB GROUNDING DETAIL (ELEV)

NTS

3
EE100 CT100



Date: 09/21/18
 Project: MARTA BUS STATION ELECTRICAL
 Drawing: BUS STATION ELECTRICAL
 Title: ELECTRICAL DETAILS
 Scale: 1/2" = 1'-0"
 Author: R. GOODFELLOW
 Checker: R. GOODFELLOW
 Designer: C. ORTEGA

REV.	DATE	BY	SUB.	APP.	DESCRIPTION

DESIGNED	X. WU
DRAWN	X. WU
CHECKED	R. GOODFELLOW
IN CHARGE	C. ORTEGA
DATE	21 SEP 18

METROPOLITAN ATLANTA RAPID TRANSIT AUTHORITY

marta

SUBMITTED _____ APPROVED _____

BUS SHELTER INSTALLATIONS

ELECTRICAL DETAILS

SCALE NTS		
CONTRACT PROPOSAL NUMBER		
DRAWING NO.	REV.	PAGE NO.
EE100	0	XX