Mayor & City Council
Special Called Meeting Agenda

Monday, November 22, 2021, 8:00 PM
Tucker City Hall
1975 Lakeside Pkwy, Ste 350B, Tucker, GA 30084

Members:

Frank Auman, Mayor
Pat Soltys, Council Member District 1, Post 1
Matt Robbins, Council Member District 2, Post 1
Michelle Penkava, Council Member District 3, Post 1
Virginia Rece, Council Member District 1, Post 2
Noelle Monferdini, Council Member District 2, Post 2
Anne Lerner, Council Member District 3, Post 2

Zoom Link: https://us02web.zoom.us/j/88371115390 or Phone 888 788 0099 (Toll Free) ID: 883 7111 5390

Pages

A. CALL TO ORDER

B. ROLL CALL

C. MAYOR'S OPENING REMARKS

D. OLD BUSINESS

D.1. Contract C2021-017-SP2112 (Carlton.Robertson) — 3

Award of Contract for bid 2021-017 Cofer Park Pool Plastering

E. NEW BUSINESS

E.1. Resolution R2021-11-23 (Ken.Hildebrandt) — 12

A Resolution of Support for an Application for Transportation Improvement Program Funding

E.2. Resolution R2021-11-24 (Ken Hildebrandt) — 28

A Resolution of Support for Old Norcross Road Sidewalk

E.3. Contract C2021-018-CE2201 (Ken.Hildebrandt) — 70

Award of Contract for bid 2021-018 for Chamblee Tucker Road Lane Diet

F. EXECUTIVE SESSION

G. ACTION AFTER EXECUTIVE SESSION

H. ADJOURNMENT

MEMO

To: Honorable Mayor and City Council Members

From: **Rip Robertson, Director, Parks and Recreation**

CC: Tami Hanlin, City Manager

Date: **November 8, 2021**

RE: Consideration for approval of a Cofer Pool Repairs contract

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Issue:
The City of Tucker acquired Cofer Park and Pool in 2018 and added the Splash Pad in 2019. For the 2021 swim season, the city added an aqua swing. To continue with the many improvements made since acquiring the Cofer Pool, the city needs to remove the existing plaster and tiles and replaster and replace the tiles along the rim of the pool.

Recommendation:
Staff recommends awarding this contract to Aquatic Consulting & Equipment, Inc in the amount of $76,815.00. The work will take place during the winter months and be completed prior to the 2022 swim season.

Background:
This scope contained details for the removal of the tiles and 5 layers of paint and plaster. New plaster will be installed with new water line tile not later than May 1, 2022. This is needed repairs to improve the surface and operation of the pool. This has not been completed in numerous years and is overdue. Pools should be replastered every 10 – 12 years.

The city received 4 bids for this project:

- United Pool Management
- Poolside, Inc.
- Sear's Pool Management
- Aquatic Consulting & Equipment, Inc.

Summary: We analyzed the current bids and Aquatic Consulting is well known in the industry and has performed work in Tucker previously. The bids were higher than normal due to the amount of paint that needed to be removed and the repairs to the water line tiles. Based on submitted bids, we are confident in our recommendation.

Rosenfeld Pool was replastered within the last 5 years, prior to our acquisition.

Financial Impact: This item was included as part of the Parks and Recreation FY2022 SPLOST CIP budget – 320-6212-54-12000 (SP2011).

ITB# 2021-017

EXHIBIT B

LUMP SUM BID PROPOSAL FORM

This Bid Proposal is respectfully submitted by:

Aquatic Consulting & Equipment, Inc

BIDDER (Company Name)

Lump Sum $ 76815.00 in words Seventy six thousand eight hundred fifteen dollars & no/x

Company Physical Address:

905 Nightingale Walk
Suite B
Alpharetta GA 30022

Company Mailing Address:

SAME

Point(s) of Contact: Brad Bachman

Point of Contact's Phone Number: 770 346 9643

Point of Contact's E-Mail Address: acepools@bellsouth.net

Signed and sealed this 18th day of October, 2021

By: [signature]
Signature

Brad Bachman
Printed Name

Owner (Seal)

Title

City of Tucker
ITB # 2021-017

2. **SUBCONTRACTORS**
   Suave Pools- Luis Osorio

3. **PROJECT SCHEDULE**
   - Work will commence within 1 week of approval from City of Tucker
   - Removal of approximately 5 layers of paint and plaster down to the original gunite- 7-10 days
   - Remove existing water line tile- 1 day
   - "Brown out" and prepare water line tile area for new tile- 2 days
   - Apply new water line tile will take- 2 days
   - Apply bond coat- 1 day
   - Resurface will take- 1 day
   - Final cleanup- 1 day

   TOTAL PROJECT WILL TAKE 15-20 days.

4. **REFERENCES ATTACHED**

5. **DISCLOSURE FORM ATTACHED**

6. **BID BOND NOT NEEDED**

7. **ADDENDUMS ATTACHED**

AQUATIC CONSULTING & EQUIPMENT, INC.

FIRM DESCRIPTION

Aquatic Consulting and Equipment, Inc
905 Nightingale Walk
Suite B
Alpharetta, GA 30022

(770) 346-9643
E-Mail- acepools@bellsouth.net
Website- acepools.net
Year Established- 2002
Primary Contact- Brad Bachman- Owner

REFERENCES

Job Name: Gwinnett County Recreation/ Collins Hill Aquatic Center
Date: January 2020
Contact: Jim Cyrus
Address: 2200 Collins Hill Road
Lawrenceville GA 30043
Phone: 770-639-4674

Work Performed: Resurface multiple pools, includes complete demolition, water line tile and lane line tiles

Job Name: Atlanta Athletic Club
Date: January 2021 and January 2020
Contact: Neil Doldo
Address: 1930 Bobby Jones Drive
Johns Creek, GA 30097
Phone: 770-448-2166

Work Performed: 50M lap pool- complete resurface pool and lane lines
Slide pool- completely remove 2 layers of plaster and install new Diamond Brite surface

Job Name: Metro Atlanta YMCA
Date: September 2020
Contact: Tomeca Johnson- Johns Lang LaSalle

AQUATIC CONSULTING & EQUIPMENT, INC.

Address: **3010 Johnson Ferry Road**
Mareitta, GA 30062

Phone:

Work Performed: **Remove 4 layers of plaster down to the gunite shell, resurface with blue quartz and install new lane lines and targets.**

ITB# 2021-017
EXHIBIT C

CITY OF TUCKER DISCLOSURE FORM

BIDDERS MUST RETURN THIS FORM WITH THE SUBMITTED PROPOSAL

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

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

Name of Bidder Aquatic Consulting & Equipment, Inc

Name and the official position of the Tucker Official/Employee 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.)

N/A

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 Tucker 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 Tucker and your relation:

Name:	Relation:

Brad Bachman 10-16-21 Brad Bachman

Signature Date Print Name

CITY OF TUCKER

ACKNOWLEDGE RECEIPT OF ADDENDUM #1 FORM

ITB #2021-017

COFER PARK: Pool Plastering and Improvements

Upon receipt, please print and add to your proposal

I hereby acknowledge receipt of the supplement pertaining to the above referenced bid.

COMPANY NAME: Aquatic Consulting & Equipment Inc

CONTACT PERSON: Brad Bachman

ADDRESS: 905 Nightingale Walk Suite B

CITY: Alpharetta **STATE:** GA **ZIP:** 30022

PHONE: 770 346 9643 **FAX:**

EMAIL ADDRESS: acepools@bellsouth.net

10/20/21

SIGNATURE **DATE**

ADDENDUM #1

1. Q: Will the City of Tucker request a warranty for the project? if so, What is the term?

   A: Yes. A minimum of a 1 year all-inclusive warranty is required.

2. Q: Does the project contain liquidated damages? if so what is the monetary amount per day?

   A: There will be a 60 day start to finish timeline from the notice to proceed. Liquidated damages will commence on April 16th in the amount of 1% per day.

3. Q: Is the project prevailing wage?

   A: There are no federal funds used for this project, so there are no wage requirements.

4. Q: Is this project Tax-exempt?

   A: The City of Tucker is tax exempt.

5. Q: Do you still not release estimated construction budget for the projects?

   A: No estimated budget will be released.

COFER POOL FINISHING PROJECT

REF: PLASTER VS PEBBLE TEC

1. Price – cost would exceed our projected budget total for this project.
2. Cost is approximately $40K additional for an additional lifespan of 5-6 years. (Pebble Tec approximately 10 – 15 years versus plaster approximately 6 – 8 years, if both are maintained properly)
3. DeKalb Health has specific requirements that would make it difficult to ensure passage during annual inspections. (consistent, light coloring, small pebble shapes, etc.) The concern is that if we install Pebble Tec, the inspections would be difficult and possible delays in opening or increased cost for changes.
4. Of most concern, currently the small pebble pattern is approximately 6 – 8 month delays. We delayed the new plaster during the COVID period and would not recommend another season without making the repairs.
5. We have reached out to several pool contractors and have had nearly the same response: why? Although Pebble Tec is better, it is not necessarily better based on price, lifespan and use. There were several that did not like it's texture in a commercial/municipal use.
6. With the current age and condition of the existing pool, there may be need to make changes and repairs in the not-too-distant future. There are not any specific plans but the pool is over 50 – 60 years old and will need further upgrades.

MEMO

To: Honorable Mayor and City Council Members

From: Ken Hildebrandt

CC: Tami Hanlin, City Manager

Date: November 22, 2021

RE: Resolution of Support for an Application for Transportation Improvement Program Funding

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Issue: A resolution from the City of Tucker showing support for the TIP application to seek federal transportation funds.

Recommendation:
Staff recommends adopting this resolution and authorizing staff to submit this application to the Atlanta Regional Commission.

Background:
The Tucker Summit Community Improvement District Freight Cluster Plan, adopted by Council earlier this year, identified six intersection improvements along the Mountain Industrial Boulevard corridor. The recommendation is to seek federal funding in the amount of $3M to assist with the cost of construction at the following locations:

1.N Royal Atlanta Drive
2. S Royal Atlanta Drive
3. Elmdale Drive / Roger Marten Way
4. Hammermill Road (south)
5. Lewis Road
6. Greer Circle

Summary:
Proposed operational and safety improvements include additional right turn lanes and improving left turn lanes to improve traffic flow, improving curb radii to accommodate truck turning movements, installing reflective delineator for better visibility, installing signal activated flashing yellow beacons, adding supplemental signal heads and roadside signal faces to address sight distance concerns, and installing pedestrian crossing enhancements including near MARTA bus stops.

Financial Impact:
No financial impact at this time. If the funding is awarded the City, in partnership with the Tucker Summit CID, would be responsible for engineering design and 20% of the construction costs.

STATE OF GEORGIA
COUNTY OF DEKALB
CITY OF TUCKER **RESOLUTION R2021-11-23**

A RESOLUTION OF THE CITY OF TUCKER RELATED TO APPLICATION FOR TRANSPORTATION IMPROVEMENT PROGRAM FUNDING

WHEREAS, the City of Tucker is supportive of opportunities for trail connectivity throughout the city to provide alternative transportation and recreational needs; and,

WHEREAS, intersection improvements along Mountain Industrial Boulevard would provide critical operational and safety improvements including additional right turn lanes and improving left turn lanes to improve traffic flow, improving curb radii to accommodate truck turning movements, installing reflective delineator for better visibility, installing signal activated flashing yellow beacons, adding supplemental signal heads and roadside signal faces to address sight distance concerns, and installing pedestrian crossing enhancements including near MARTA bus stops and,

WHEREAS, the Mayor & Council of the City of Tucker has adopted the Tucker Summit Community Improvement District Freight Cluster Plan that was supported by the citizens and business owners of the City of Tucker and,

WHEREAS, the Tucker Summit Freight Cluster Plan has identified intersection improvements at the following intersections on Mountain Industrial Boulevard improvements as priority projects:
1.N Royal Atlanta Drive
2. S Royal Atlanta Drive
3. Elmdale Drive / Roger Marten Way
4. Hammermill Road (south)
5. Lewis Road
6. Greer Circle
and,

WHEREAS, the Tucker Summit Community Improvement District is committed to contribute financially toward this project and,

WHEREAS, there is an opportunity to apply for Transportation Improvement Program (TIP) funds through the Atlanta Regional Commission (ARC),

NOW, THEREFORE BE IT RESOLVED, by the Mayor and Council of the City of Tucker, and it is hereby resolved:

1) The Mayor and Council of the City of Tucker supports intersection improvements along the Mountain Industrial Boulevard corridor; and,
2) The Mayor and Council of the City of Tucker authorizes staff to submit an application to request $3,000,000 in TIP funds to provide planning, engineering, environmental analysis,

and design of this project; and,

3) The Mayor and Council of the City of Tucker, in partnership with the Tucker Summit Community Improvement District, is committed to providing a minimum of twenty percent (20%) local matching funds for construction as well as the funding for engineering design.

SO ADOPTED this 22nd day of November, 2021.

_____

Frank Auman, Mayor

ATTEST:

_____

Bonnie Warne, City Clerk

Table 12: Short-Term Work Program – Roadway Projects

Combined Project ID	Project Title	Project ID	Project Name	Sponsoring Agencies	Estimated Total Project Cost	Federal/ State	Potential Federal Funding Sources	Total Local Match
FCP-1.1	NA – Component of FCP-1	I5	Mountain Industrial Boulevard at Elmdale Drive/Roger Marten Way Intersection Improvement	TSCID, City of Tucker	$530,000	$424,000	Surface Transportation Block Grant (STBG) Program (ARC	$106,000
FCP-1.2	NA – Component of FCP-1	I1	Mountain Industrial Boulevard at N. Royal Atlanta Drive Intersection Improvement	City of Tucker	$720,000	$576,000	Surface Transportation Block Grant (STBG) Program (ARC)	$144,000
FCP-1.3	NA – Component of FCP-1	I3	Mountain Industrial Boulevard at S. Royal Atlanta Drive Intersection Improvement	City of Tucker	$200,000	$160,000	Surface Transportation Block Grant (STBG) Program (ARC)	$40,000
FCP-1.4	NA – Component of FCP-1	I9	Mountain Industrial Boulevard at Lewis Road Intersection Improvement	City of Tucker	$400,000	$320,000	Surface Transportation Block Grant (STBG) Program (ARC)	$80,000
FCP-1.5	NA – Component of FCP-1	I8	Mountain Industrial Boulevard at Greer Circle Intersection Improvement	City of Tucker	$380,000	$304,000	Surface Transportation Block Grant (STBG) Program (ARC)	$76,000
FCP-1.6	NA – Component of FCP-1	I7	Mountain Industrial Boulevard at Hammermill Road (South) Intersection Improvement	City of Tucker	$280,000	$224,000	Surface Transportation Block Grant (STBG) Program (ARC)	$56,000
FCP-1	**Freight Cluster Plan Improvements along Mountain Industrial Boulevard**	**I5, I1, I3, I9, I7, I8**	**Mountain Industrial Boulevard - Multiple Locations (Individual Project Details Above)**	**City of Tucker**	**$2,510,000**	**$2,008,000**	**Surface Transportation Block Grant**	**$502,000**

Freight Cluster Plan Improvements along Mountain Industrial Boulevard

Improvements at Six Locations

- N. Royal Atlanta Drive
- S. Royal Atlanta Drive
- Elmdale Drive/Roger Marten Way
- Hammermill Road (South)
- Lewis Road
- Greer Circle

- Total Cost - **$2,508,000**
- Proposed Year – 2022
- Federal Share – $2,008,000
  Surface Transportation Block Grant (STBG) Program (ARC)
- Local Share - **$502,000**
  - Split between City and TSCID

8.2 FCP Improvements along Mountain Industrial Boulevard

The following section details the individual improvements that comprise the FCP-1 project, FCP Improvements along Mountain Industrial Boulevard, within the fiscally constrained project list. These improvements comprise the project that should be considered the highest priority based on the results of the prioritization process and stakeholder input. More detailed improvement descriptions can be found in Chapter 5 of this report. As part of the overall project to improve Mountain Industrial Boulevard, the TSCID will seek STBG monies from the ARC to provide 80 percent of the required funding with the local match being provided by the TSCID and/or the City of Tucker. Please note the potential funding sources within each of the improvement descriptions.

8.2.1 Mountain Industrial Boulevard at N. Royal Atlanta Drive Intersection Improvements

Shown in Figure 14, the proposed improvements at this intersection includes:

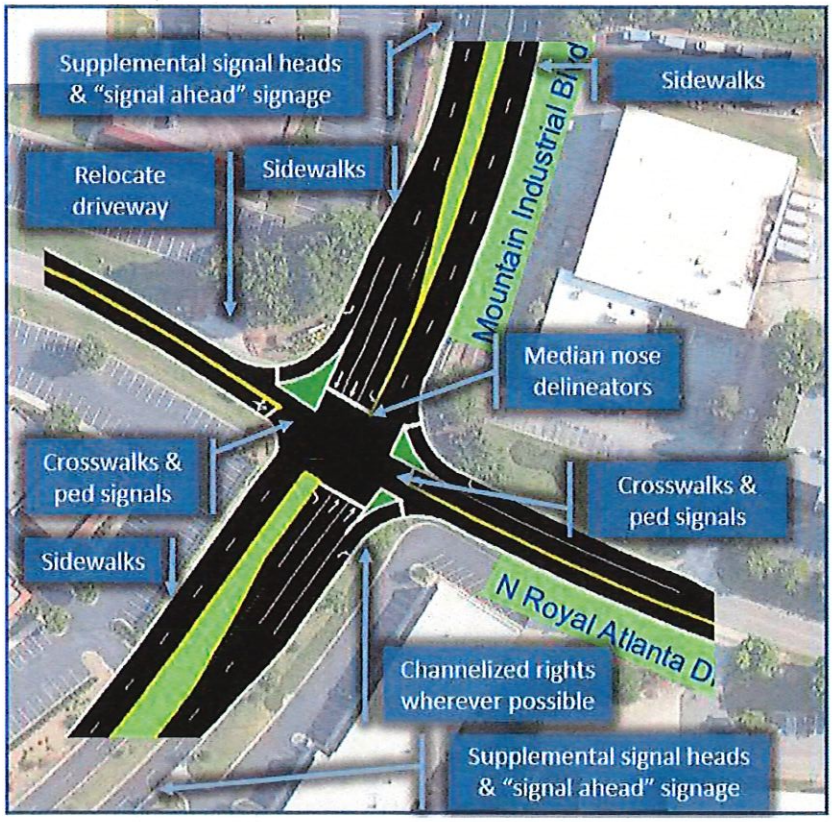
- Repave and restripe N. Royal Atlanta Dr. at the intersection and install raised pavement markers. Raised pavement markers improve the intersection safety by enhancing delineation and driver awareness and by providing positive guidance for motorists, especially in low visibility conditions.
- Install median nose delineators at the median along Mountain Industrial Blvd.
- Install backplates with retroreflective borders to all traffic signal head indications.
- Install flashing yellow arrow signal head indications for the southbound Mountain Industrial Blvd. and eastbound and westbound N. Royal Atlanta Dr. left-turns.
- Convert northbound Mountain Industrial Blvd. left-turn to a protected-only movement. A protected-only movement provides an exclusive phase for the left-turn maneuvers in the form of a left-turn arrow indication such that the left-turn movement can be made only under the green left-turn indication. This will make this northbound Mountain Industrial Blvd. left-turn movement safer by allowing the movement to be made without any conflicting traffic maneuvers. Currently this left-turn movement is allowed during the permissive phase (circular green indication) where the sight distance for this maneuver to yield to the southbound through movement appears to be restricted due to the horizontal curve along the north leg of Mountain Industrial Blvd.
- Install supplemental signal heads and "traffic signal ahead" signage along the northbound and southbound Mountain Industrial Blvd. approaches.
- Install single right-turn lanes with channelization and wide curb radii accommodating truck turning movements along the northbound and southbound Mountain Industrial Blvd. approaches and along the westbound N. Royal Atlanta Dr. approach.
- Install pedestrian crosswalks and pedestrian signals along the northbound and southbound Mountain Industrial Blvd. approaches.
- Install sidewalks along Mountain Industrial Blvd. and N. Royal Atlanta Dr. at the intersection. The sidewalks along Mountain Industrial Blvd. should be extended to the Gwinnett County line. The

sidewalks, specifically on the west side of Mountain Industrial Blvd. from N. Royal Atlanta Dr. to the Gwinnett County line, will serve those that live in Gwinnett County and yet use the MARTA system for work in DeKalb County.

- Install ADA curb ramps at all four corners of the intersection.
- Relocate the driveway along N. Royal Atlanta Dr. west of the intersection further away from the intersection.

- **Estimated Cost:** $720,000Construction: $486,098.30
    - Preliminary Engineering: $45,271
    - Right of Way: $56,589
    - Utilities : $37,726
    - Engineering Inspection: $18,863
    - Contingency: $75,453
- **Federal Share:** $576,000
- **Local Share:** $144,000 (to be split between TSCID and City of Tucker)

Figure 14: Proposed Improvements at Mountain Industrial Boulevard and N. Royal Atlanta Drive



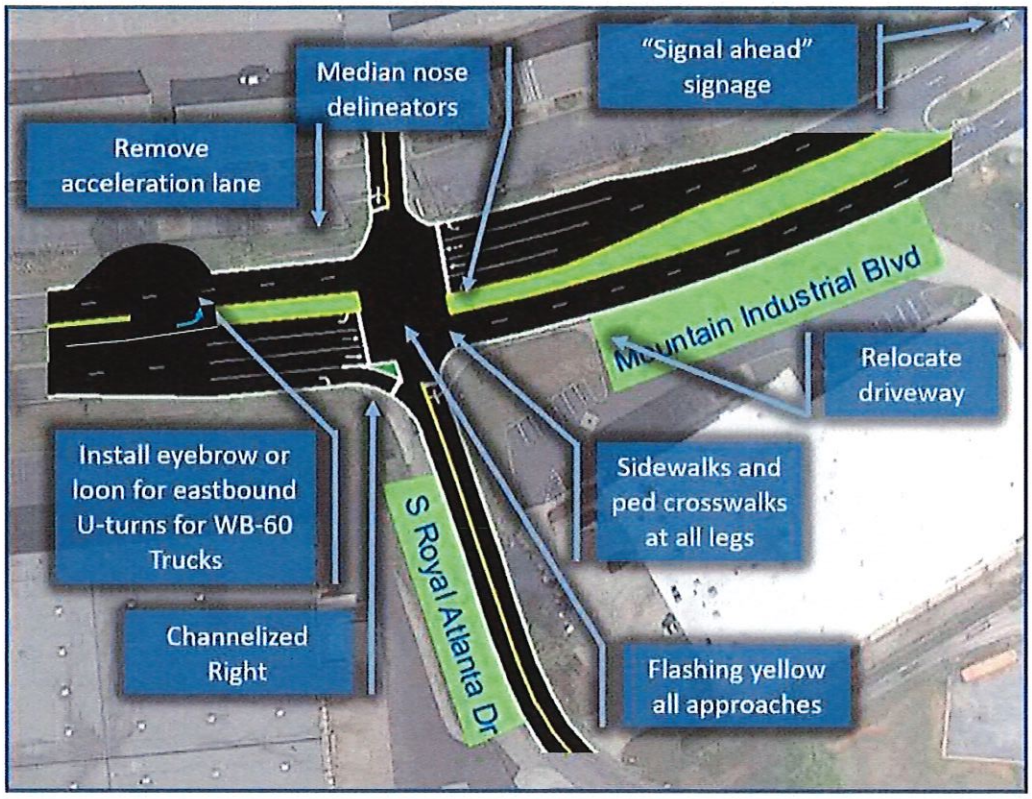
8.2.2 Mountain Industrial Boulevard at S. Royal Atlanta Drive Intersection Improvements

As shown in Figure 15, the proposed improvements at this intersection includes:

- Install median nose delineators at the median along Mountain Industrial Blvd.
- Install backplates with retroreflective borders to all traffic signal head indications.
- Install flashing yellow arrow signal head indications for the left-turns on all four approaches.
- Install "traffic signal ahead" signage along the westbound Mountain Industrial Blvd. approach.
- Install a single right-turn lane with channelization and wide curb radius accommodating truck turning movements along the eastbound Mountain Industrial Blvd. approach.
- Remove the acceleration lane on the west leg of the intersection and install an eyebrow or loon to accommodate eastbound U-turns along Mountain Industrial Blvd.
- Install pedestrian crosswalks across all four legs of the intersection with ADA curb ramps and pedestrian signals.
- Install sidewalks along Mountain Industrial Blvd. and S. Royal Atlanta Dr. at the intersection.
- Install ADA curb ramps at all four corners of the intersection.
- Relocate the driveway along Mountain Industrial Blvd. east of the intersection further away from the intersection.

- **Estimated Cost:** $200,000
    - Construction: $143,687
    - Preliminary Engineering: $10,899
    - Right of Way: $13,624
    - Utilities: $9,083
    - Engineering Inspection: $4,542
    - Contingency: $18,165
- **Federal Share:** $160,000
- **Local Share:** $40,000 (to be split between TSCID and City of Tucker)

Figure 15: Proposed Improvements at Mountain Industrial Boulevard and S. Royal Atlanta Drive



8.2.3 Mountain Industrial Boulevard at Elmdale Drive/Roger Marten Way Intersection Improvements

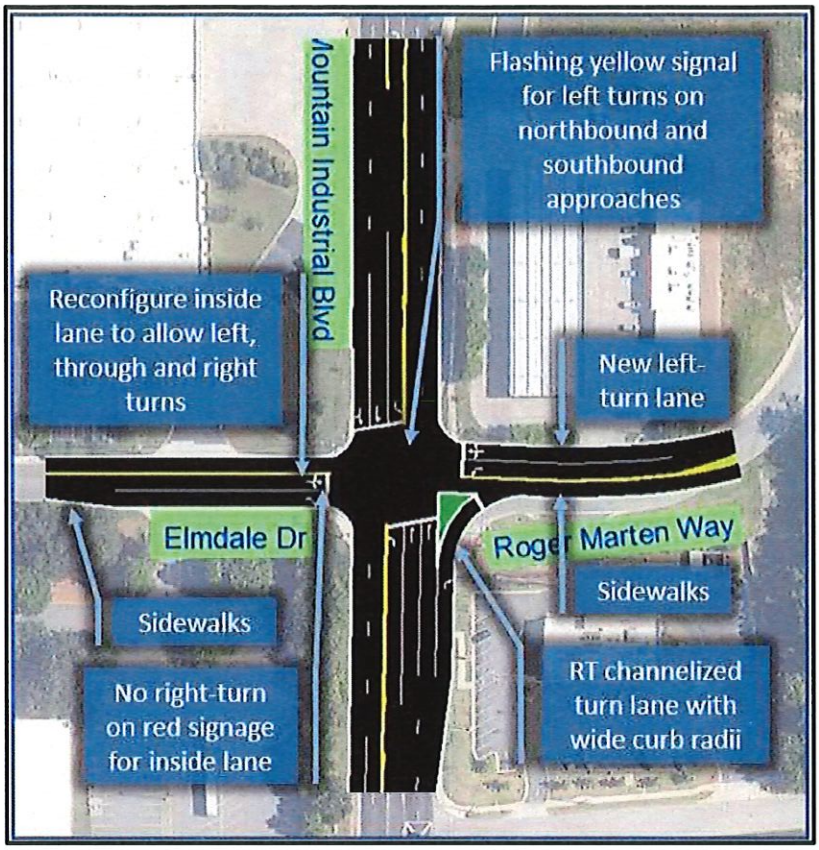
As shown in Figure 16, the proposed improvements at Mountain Industrial Boulevard and Elmdale Drive/Roger Martin Way consist of:

- Install backplates with retroreflective borders to all traffic signal head indications.
- Install flashing yellow arrow signal head indications for the left-turns on the northbound and southbound approaches of Mountain Industrial Blvd.
- Install a single right-turn lane with channelization and wide curb radius accommodating truck turning movements along the northbound Mountain Industrial Blvd. approach. (This is in addition to the improvements recommended by the TSCID's December 2019 traffic engineering study.)
- Repave and restripe Elmdale Dr. and Roger Marten Way at the intersection and install raised pavement markers. Raised pavement markers improve the intersection safety by enhancing delineation and driver awareness and by providing positive guidance for motorists, especially in low visibility conditions.

- Reconstruct the southwest quadrant of the intersection to widen the curb radius in order to accommodate wider right-turn movements by trucks (TSCID's December 2019 traffic engineering study stops short of the Mountain Industrial Blvd. @ Elmdale Dr./Roger Marten Way intersection and does not recommend any improvements to the Elmdale Dr. approach). Install a Permissive-Plus-Overlap phase for the right-turn movement along the Elmdale Dr. approach.
- Reconfigure the westbound Roger Marten Way at the intersection to add a separate left-turn lane, in addition to the existing left-through-right lane. (TSCID's December 2019 traffic engineering study stops short of the Mountain Industrial Blvd. @ Elmdale Dr./Roger Marten Way intersection and does not recommend any improvements to the Roger Marten Way approach)
- Install sidewalks along the west side of Mountain Industrial Blvd. and along Roger Marten Way at the intersection.

- **Estimated Cost:** $530,000
    - Construction: $330,374
    - Preliminary Engineering: $38,637
    - Right of Way: $48,297
    - Utilities : $32,198
    - Engineering Inspection: $16,099
- Contingency: $64,395 **Federal Share:** $424,000
- **Local Share:** $106,000 (to be split between TSCID and City of Tucker)

Figure 16: Proposed Improvements at Mountain Industrial Boulevard and Elmdale Drive/Roger Martin Way



8.2.4 Mountain Industrial Boulevard at Hammermill Road (South) Intersection Improvements

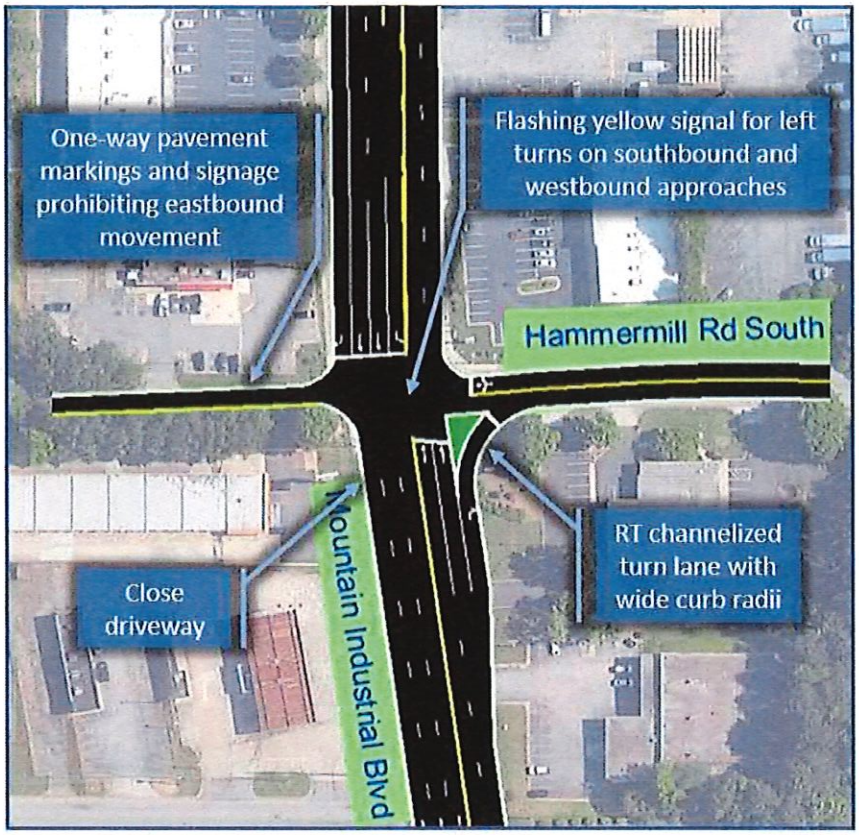
As shown in Figure 17, the proposed improvements at this intersection include:

- Install backplates with retroreflective borders to all traffic signal head indications.
- Install flashing yellow arrow signal head indications for the left-turns on the southbound Mountain Industrial Blvd. approach and the westbound Hammermill Rd. (South) approach.
- Install a single right-turn lane with channelization and wide curb radius accommodating truck turning movements along the northbound Mountain Industrial Blvd. approach. (This is in addition to the improvements recommended by the TSCID's December 2019 traffic engineering study.)
- Install one-way pavement markings along the west leg of the intersection. Install signage at the Waffle House driveway on the west leg of the intersection prohibit vehicles entering the west leg of the intersection from Waffle House to get to Mountain Industrial Blvd.

- Remove "DO NOT ENTER" sign at the southwest corner of the intersection to allow westbound through-traffic at the intersection to access the Waffle House lot.
- Install a "NO LEFT TURN" sign to prohibit left-turns along the northbound Mountain Industrial Blvd. approach.
- As a long-term measure, consider converting the west leg of this intersection into a bidirectional street to connect Mountain Industrial Blvd. to Tucker Industrial Rd. With this improvement, also consider a left-turn lane along the northbound Mountain Industrial Blvd. approach and allow northbound left-turn traffic from Mountain Industrial Blvd.
- Close driveway to "Public Storage" parcel along the west side of Mountain Industrial Blvd. south of the intersection. Provide access to the "Public Storage" parcel via inter-parcel access from the Valero gas station parcel.
- Install sidewalks along the west side of Mountain Industrial Blvd. south of the intersection. Extend the sidewalks to the US 78 interchange.

- **Estimated Cost:** $280,000
    - Construction: $175,439
    - Preliminary Engineering: $20,238
    - Right of Way: $25,297
    - Utilities: $16,865
    - Engineering Inspection: $8,432
    - Contingency: $33,729
- **Federal Share:** $224,000
- **Local Share:** $56,000 (to be split between TSCID and City of Tucker)

Figure 17: Proposed Improvements at Mountain Industrial Boulevard and Hammermill Road (South)



8.2.5 Mountain Industrial Boulevard at Greer Circle Intersection Improvements

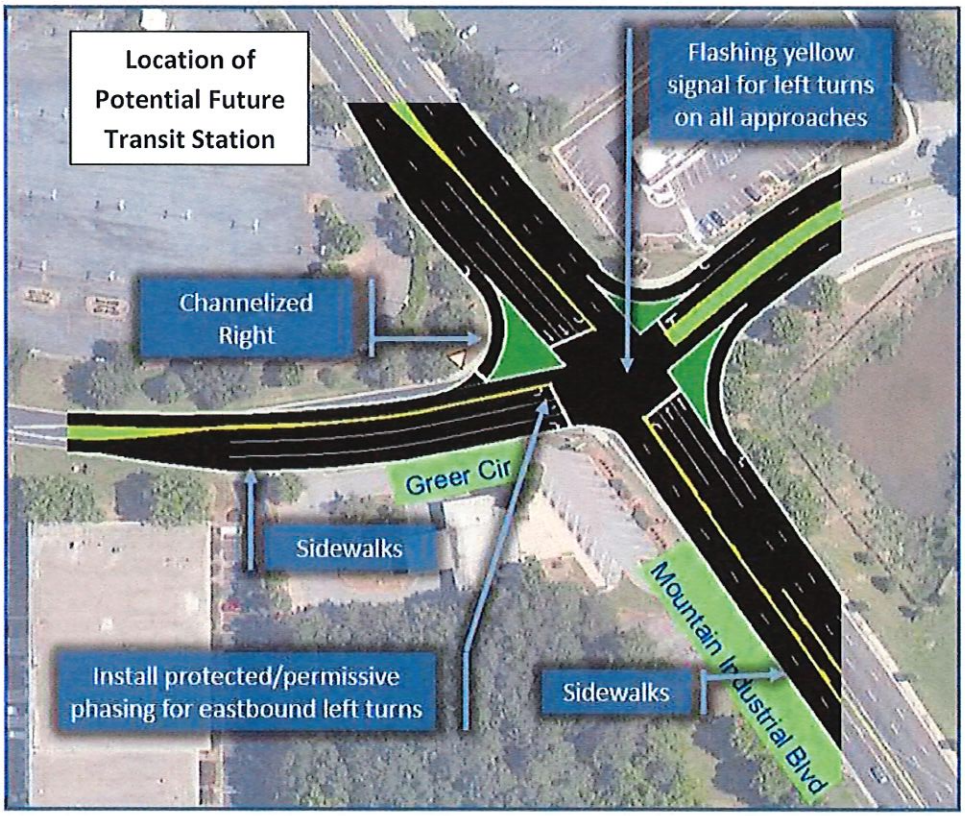
As shown below in Figure 18, the proposed improvements at Mountain Industrial Boulevard and Greer Circle include:

- Repave and restripe Greer Cir. east of the intersection and install raised pavement markers. Raised pavement markers improve the intersection safety by enhancing delineation and driver awareness and by providing positive guidance for motorists, especially in low visibility conditions.
- Install protected/permissive phasing for the eastbound Greer Cir. left-turn movement.
- Install backplates with retroreflective borders to all traffic signal head indications.
- Install flashing yellow arrow signal head indications for the left-turns on all four approaches.
- Install a single right-turn lane with channelization and wide curb radius to accommodate truck turning movements along the southbound Mountain Industrial Blvd. approach. (This is in addition to the improvements recommended by the TSCID's December 2019 traffic engineering study.)
- Install sidewalks along the west side of Mountain Industrial Blvd. and along Greer Cir. west of the intersection.

It should be noted that operational improvements at this location could be included under the current Mountain Industrial Boulevard/US 78 Interchange Project (PI #0017399).

- **Estimated Cost:** $380,000
  - Construction: $235,413
  - Preliminary Engineering: $27,985
  - Right of Way: $34,981
  - Utilities : $23,320
  - Engineering Inspection: $11,660
  - Contingency: $46,641
- **Federal Share:** $304,000
- **Local Share:** $76,000 (to be split between TSCID and City of Tucker)

Figure 18: Proposed Improvements at Mountain Industrial Boulevard and Greer Circle



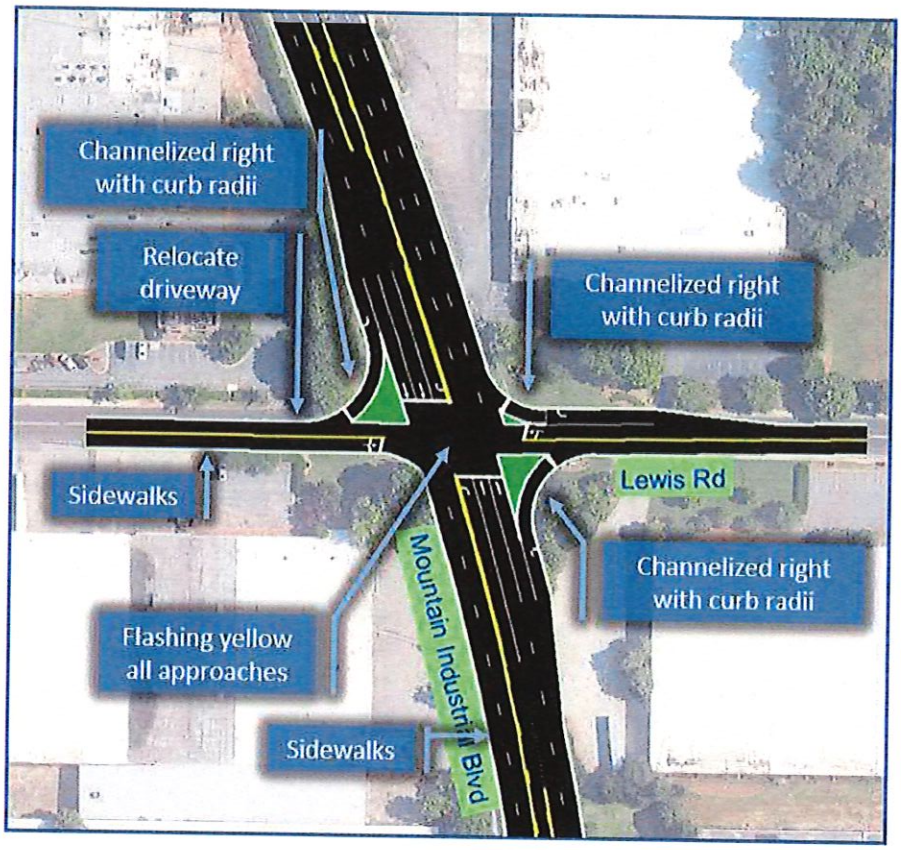
8.2.6 Mountain Industrial Boulevard at Lewis Road Intersection Improvements

As shown below in Figure 19, the proposed improvements for this project include:

- Install backplates with retroreflective borders to all traffic signal head indications.
- Install flashing yellow arrow signal head indications for the left-turns on all four approaches.
- Install single right-turn lanes with channelization and wide curb radii accommodating truck turning movements along the northbound and southbound Mountain Industrial Blvd. approaches and along the westbound Lewis Rd. approach.
- Install sidewalks along the west side of Mountain Industrial Blvd. and along Lewis Rd. west of the intersection.
- Relocate the driveway along Lewis Rd. west of the intersection further away from the intersection.

- **Estimated Cost:** $400,000
    - Construction: $249,692
    - Preliminary Engineering: $29,092
    - Right of Way: $36,365
    - Utilities : $24,243
    - Engineering Inspection: $12,122
    - Contingency: $48,486
- **Federal Share:** $320,000
- **Local Share:** $80,000 (to be split between TSCID and City of Tucker)

Figure 19: Proposed Improvements at Mountain Industrial Boulevard and Lewis Road



8.3 FCP Improvements Mountain Industrial Boulevard and Tuckerstone Parkway

8.3.1 Mountain Industrial Boulevard at Tuckerstone Parkway Intersection Improvements

As shown in Figure 20, the proposed improvements at Mountain Industrial Boulevard and Tuckerstone Parkway includes:

- Clear cutting trees just south of the intersection to improve sight distance
- Install a signal activated warning signal on the westbound approach to warn motorists of southbound right-turns from Tuckerstone Parkway
- Install signal activated warning signal in the northbound approach along Mountain Industrial Boulevard to warn motorists of approaching Tuckerstone Parkway intersection per MUTCD guidelines.

MEMO

To: Honorable Mayor and City Council Members

From: **Ken Hildebrandt**

CC: Tami Hanlin, City Manager

Date: **November 22, 2021**

RE: **Approval of Resolution – Old Norcross Road Sidewalk**

Issue:
Approval of Resolution #2021-11-24 for the Old Norcross Road Sidewalk project.

Recommendation:
Staff recommends approval of the resolution to show support for the project.

Background:
AT&T requires a commitment from the city before they will relocate the utility poles.

Summary:
The design has been completed for the construction of sidewalk along the west side of Old Norcross Road from Lawrenceville Highway to Spring Glen Drive. Atlas has been contracted to acquire the required construction and drainage easements. In order to construct the curb & gutter, sidewalk, and drainage improvements it is necessary to relocate the utility poles.

Financial Impact:
No direct financial impact from the approval of this resolution. There will be future expenses for the acquisition of easements and the construction. Construction is estimated at $600,000.

OLD NORCROSS ROAD

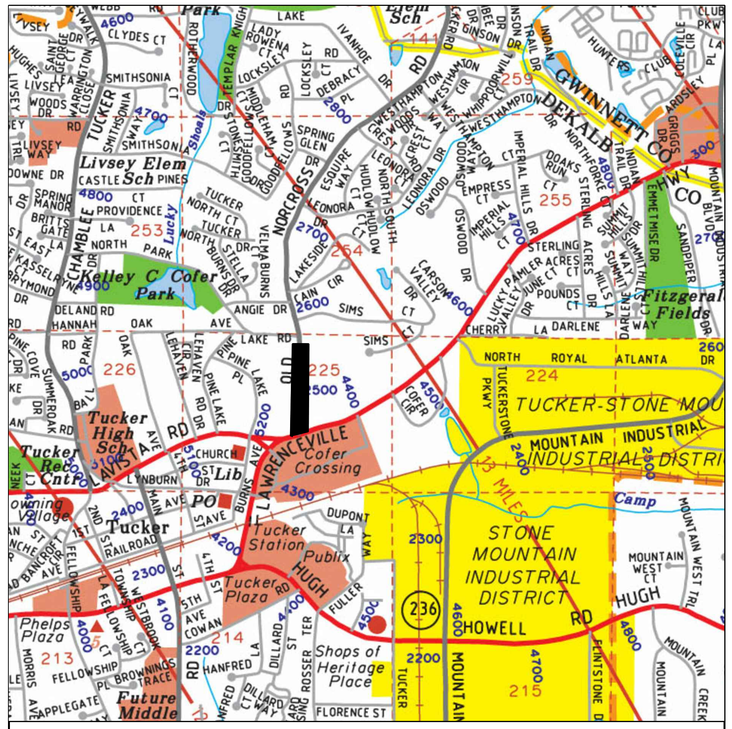
SIDEWALK IMPROVEMENTS

LAND LOTS 225 AND 254, 18TH DISTRICT,
CITY OF TUCKER, DEKALB COUNTY, GEORGIA

CONSTRUCTION EXIT
COORDINATES:
33.8578° N, 84.2078° W

SUBMITTAL LOG			
NO.	DATE	SUBMITTED TO	SHEETS

REVISIONS			
NO.	DATE	REFERENCE	SHEETS



LOCATION MAP - 1" = 1000'

Sheet List Table	
Sheet Number	Sheet Title
1	COVER
2	EXISTING CONDITIONS AND DEMO PLAN (1 OF 8)
3	EXISTING CONDITIONS AND DEMO PLAN (2 OF 8)
4	EXISTING CONDITIONS AND DEMO PLAN (3 OF 8)
5	EXISTING CONDITIONS AND DEMO PLAN (4 OF 8)
6	EXISTING CONDITIONS AND DEMO PLAN (5 OF 8)
7	EXISTING CONDITIONS AND DEMO PLAN (6 OF 8)
8	EXISTING CONDITIONS AND DEMO PLAN (7 OF 8)
9	EXISTING CONDITIONS AND DEMO PLAN (8 OF 8)
10	SITE PLAN (1 OF 8)
11	SITE PLAN (2 OF 8)
12	SITE PLAN (3 OF 8)
13	SITE PLAN (4 OF 8)
14	SITE PLAN (5 OF 8)
15	SITE PLAN (6 OF 8)
16	SITE PLAN (7 OF 8)
17	SITE PLAN (8 OF 8)
18	GRADING AND DRAINAGE PLAN (1 OF 8)
19	GRADING AND DRAINAGE PLAN (2 OF 8)
20	GRADING AND DRAINAGE PLAN (3 OF 8)
21	GRADING AND DRAINAGE PLAN (4 OF 8)
22	GRADING AND DRAINAGE PLAN (5 OF 8)
23	GRADING AND DRAINAGE PLAN (6 OF 8)
24	GRADING AND DRAINAGE PLAN (7 OF 8)
25	GRADING AND DRAINAGE PLAN (8 OF 8)
26	STORM PROFILES
27	EROSION CONTROL PLAN (1 OF 8)
28	EROSION CONTROL PLAN (2 OF 8)
29	EROSION CONTROL PLAN (3 OF 8)
30	EROSION CONTROL PLAN (4 OF 8)
31	EROSION CONTROL PLAN (5 OF 8)
32	EROSION CONTROL PLAN (6 OF 8)
33	EROSION CONTROL PLAN (7 OF 8)
34	EROSION CONTROL PLAN (8 OF 8)
CN1	GENERAL NOTES
CD1	GASWCC EROSION & SEDIMENT CONTROL DETAILS
CD2	GASWCC EROSION & SEDIMENT CONTROL DETAILS (2)
CD3	GASWCC EROSION & SEDIMENT CONTROL DETAILS (3)
CD4	STD DETAIL (1 OF 3)
CD5	STD DETAIL (2 OF 3)
CD6	STD DETAIL (3 OF 3)

OWNER:
THE CITY OF TUCKER
1975 LAKESIDE PARKWAY
TUCKER, GA 30084

24-HOUR CONTACT:
KEN HILDEBRANDT
770-865-5645

TOTAL SITE AREA = 1.88 ACRES
DISTURBED AREA = 1.88 ACRES

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OLD NORCROSS ROAD
SIDEWALK IMPROVEMENTS
LAND LOTS 225 AND 254, 18TH DISTRICT,
CITY OF TUCKER, DEKALB COUNTY, GEORGIA
ZONED R3

REVISIONS		
REV.	DATE	REVISION REFERENCE:

SHEET TITLE
COVER

SEAL
GEORGIA PROFESSIONAL ENGINEER 23346 DAVID F. MASSEY

PROJECT I.D.	FIELD BOOK

DRAWN BY: DAW	CHECKED BY: DFM
SCALE: NTS	ISSUE DATE: 05.05.2021

SHEET NUMBER
1

Plotted By: dwilburn Drawing name: P:\City of Tucker\Old Norcross Road Sidewalk Improvement\ENGINEERING\Submit\OLD NORCROSS - COVER.dwg Plotted on: May 13, 2021 - 3:45pm

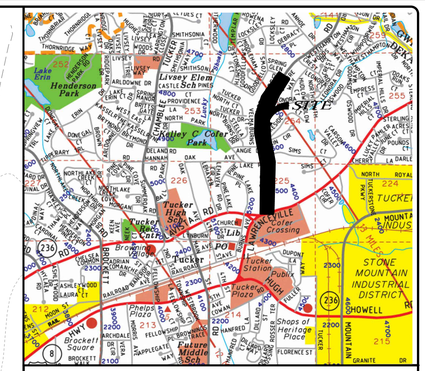
STORM DRAIN LEGEND	
HEADWALL	
FLARED END SECTION	
DROP INLET	
SINGLE WING CATCH BASIN	
DOUBLE WING CATCH BASIN	
JUNCTION BOX	
WEIR-SQUARE STRUCTURE	
WEIR-CIRCULAR STRUCTURE	

PROPOSED STRUCTURES ARE BOLD.
EXISTING STRUCTURES ARE LIGHT.

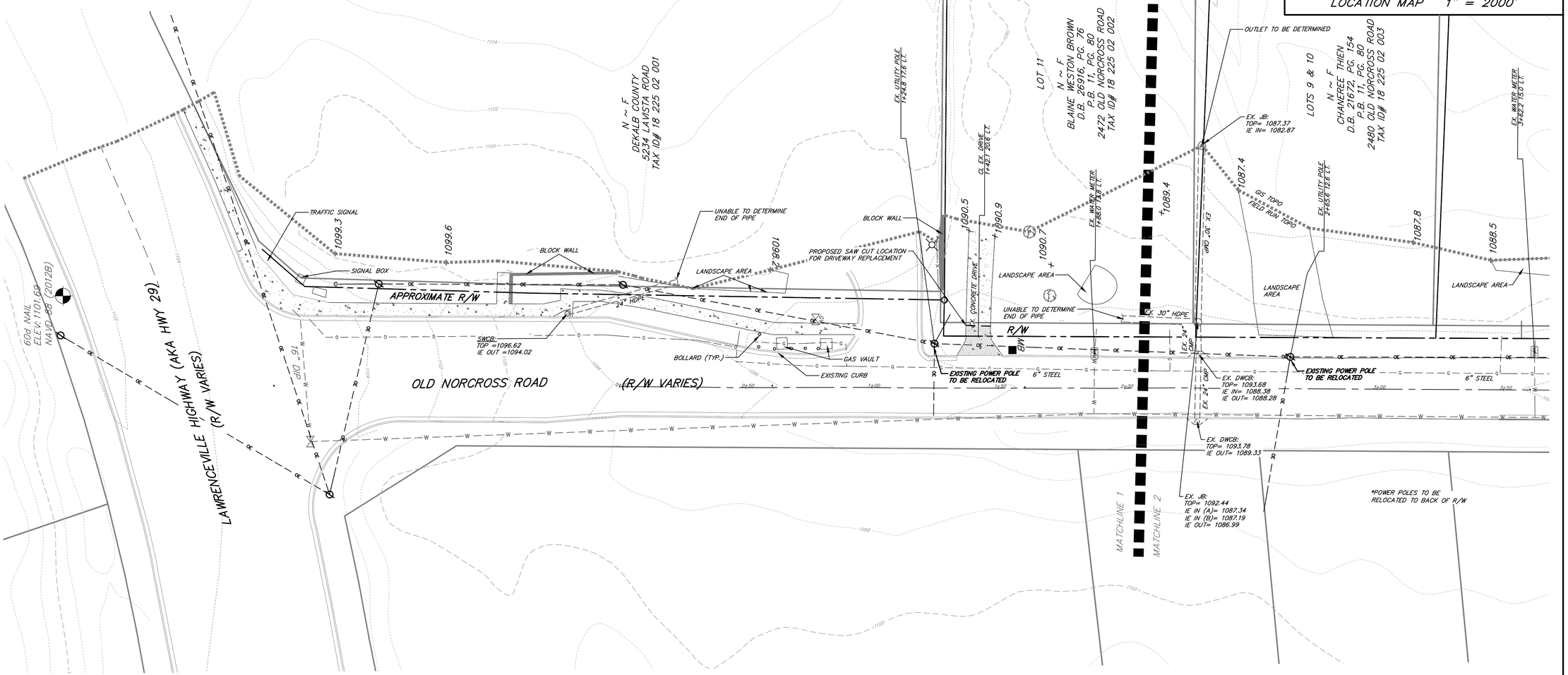
GENERAL NOTES

1. CONTRACTOR TO COORDINATE WITH UTILITY PROVIDERS FOR RELOCATION OF METERS AND APPURTENANCES IN CONFLICT
2. CONTRACTOR TO COORDINATE WITH UTILITY COMPANY TO RELOCATE EXISTING POWER POLES. POLES TO BE RELOCATED TO BACK OF R/W.
3. DISTURBED MAILBOXES TO BE REINSTALLED WITH USPS COMPLIANT MAILBOXES AGREEABLE TO PROPERTY OWNER.

OWNER/DEVELOPER:
THE CITY OF TUCKER
1975 LAKESIDE PARKWAY
TUCKER, GA 30084



LOCATION MAP 1" = 2000'



24 HR. PHONE & EMERGENCY CONTACT:
KEN HILDEBRANDT
770-865-5645

20 0 20 40
SCALE IN FEET

GRID NORTH
GA. WEST ZONE

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BENCHMARK: 60D NAIL
ELEV.= 1099.16
NAVD 88 (2012B)
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OLD NORCROSS ROAD
SIDEWALK IMPROVEMENTS

LAND LOTS 225 AND 254, 18TH DISTRICT,
CITY OF TUCKER, DEKALB COUNTY, GEORGIA
ZONED R3

REVISIONS

REV.	DATE	REVISION REFERENCE:

SHEET TITLE
EXISTING CONDITIONS AND DEMO PLAN (1 OF 8)

SEAL
GEORGIA PROFESSIONAL ENGINEER 23346 DAVID F. MASSEY

PROJECT I.D.	FIELD BOOK

DRAWN BY DAW	CHECKED BY DFM
SCALE 1"=20'	ISSUE DATE 05.05.2021

SHEET NUMBER
2

Plotted By: swilburn Drawing name: P:\City of Tucker\Old Norcross Road Sidewalk Improvement\ENGINEERING\Submit\OLD NORCROSS - PRELIM.dwg Plotted on: May 07, 2021 - 7:24pm

STORM DRAIN LEGEND	
HEADWALL	
FLARED END SECTION	
DROP INLET	
SINGLE WING CATCH BASIN	
DOUBLE WING CATCH BASIN	
JUNCTION BOX	
WEIR-SQUARE STRUCTURE	
WEIR-CIRCULAR STRUCTURE	

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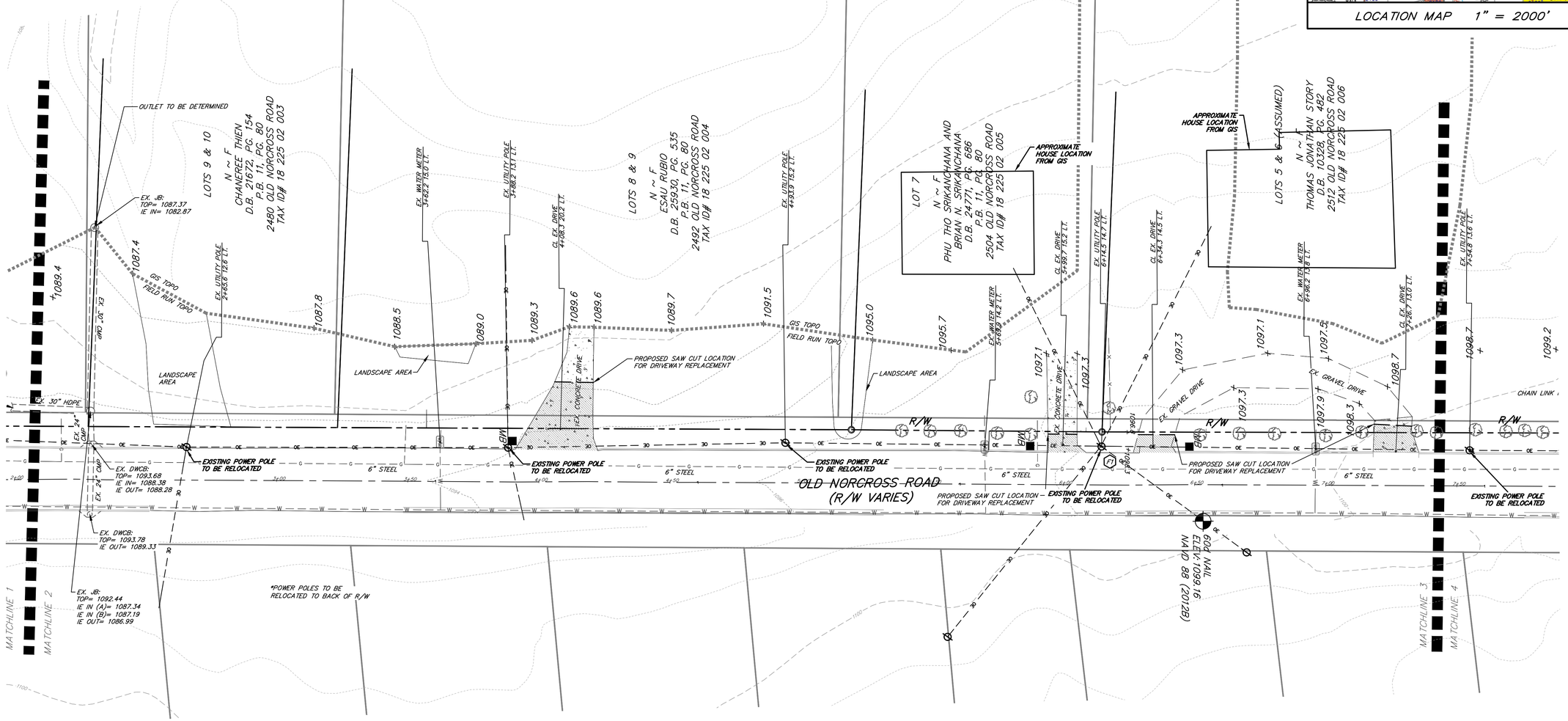

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770-865-5645

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GRID NORTH
GA. WEST ZONE

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OLD NORCROSS ROAD
SIDEWALK IMPROVEMENTS
LAND LOTS 225 AND 254, 18TH DISTRICT,
CITY OF TUCKER, DEKALB COUNTY, GEORGIA
ZONED R3

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REVISIONS

REV.	DATE	REVISION REFERENCE:

SHEET TITLE
EXISTING CONDITIONS AND DEMO PLAN (2 OF 8)

SEAL
GEORGIA PROFESSIONAL ENGINEER 23346 DAVID F. MASSEY

PROJECT I.D.	FIELD BOOK

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SCALE 1"=20'	ISSUE DATE 05.05.2021

SHEET NUMBER
3

Plotted By:dwilburn Drawing name: P:\City of Tucker\Old Norcross Road Sidewalk Improvement\ENGINEERING\Submit\OLD NORCROSS - PRELIM.dwg Plotted on: May 07, 2021 - 7:29pm

STORM DRAIN LEGEND	
HEADWALL	
FLARED END SECTION	
DROP INLET	
SINGLE WING CATCH BASIN	
DOUBLE WING CATCH BASIN	
JUNCTION BOX	
WEIR-SQUARE STRUCTURE	
WEIR-CIRCULAR STRUCTURE	

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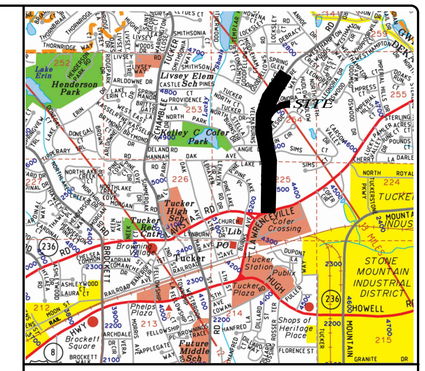
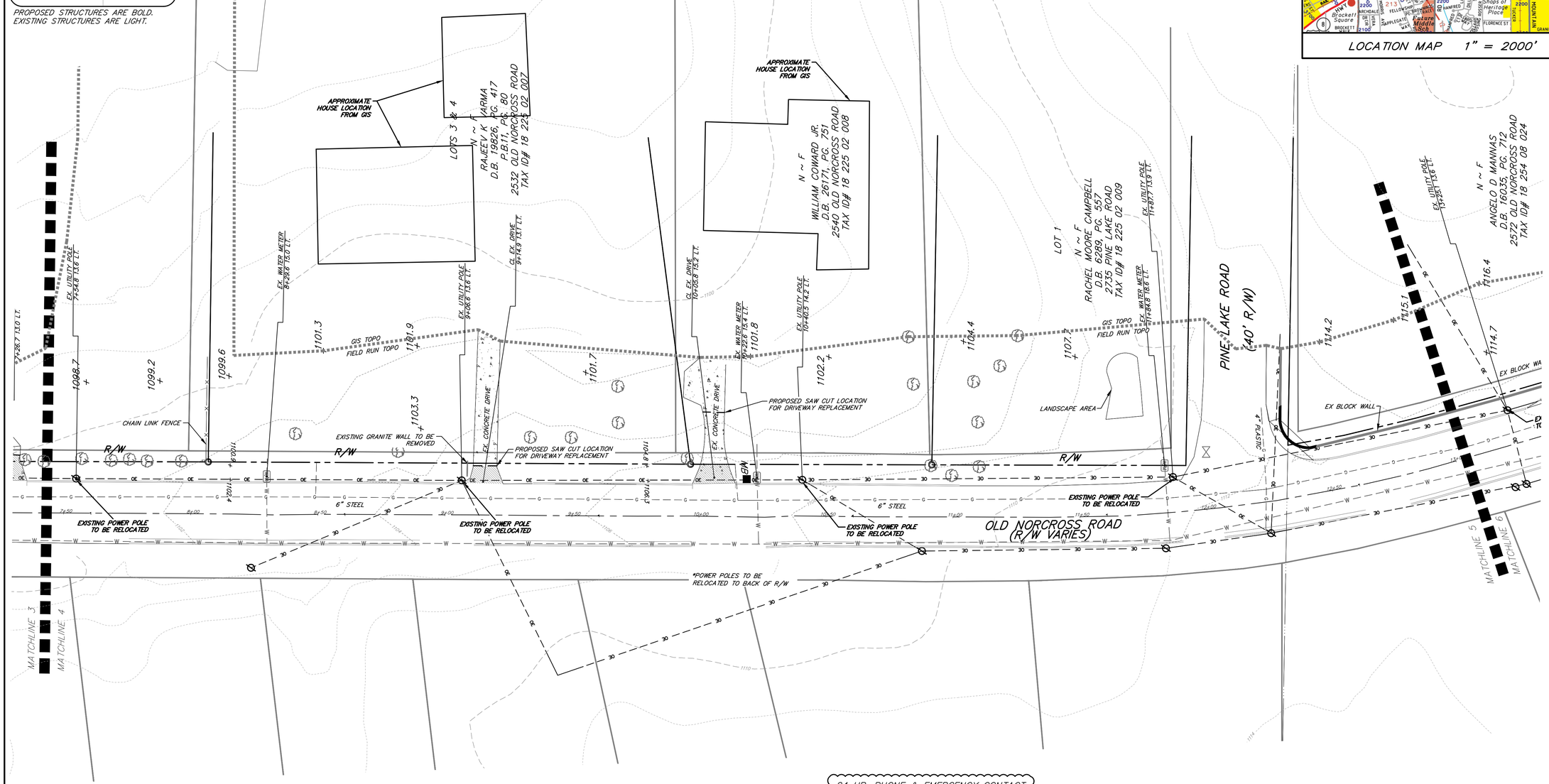


LOCATION MAP 1" = 2000'



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SCALE IN FEET

GRID NORTH
GA. WEST ZONE

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OLD NORCROSS ROAD
SIDEWALK IMPROVEMENTS

LAND LOTS 225 AND 254, 18TH DISTRICT,
CITY OF TUCKER, DEKALB COUNTY, GEORGIA
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EXISTING CONDITIONS AND DEMO PLAN (3 OF 8)

SEAL
GEORGIA PROFESSIONAL ENGINEER 23346 DAVID F. MASSEY

PROJECT I.D.	FIELD BOOK

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SCALE: 1"=20'	ISSUE DATE: 05.05.2021

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Plotted By: swilburn Drawing name: P:\City of Tucker\Old Norcross Road Sidewalk Improvement\ENGINEERING\Submit\OLD NORCROSS - PRELIM.dwg Plotted on: May 07, 2021 - 7:29pm

STORM DRAIN LEGEND	
HEADWALL	
FLARED END SECTION	
DROP INLET	
SINGLE WING CATCH BASIN	
DOUBLE WING CATCH BASIN	
JUNCTION BOX	
WEIR-SQUARE STRUCTURE	
WEIR-CIRCULAR STRUCTURE	

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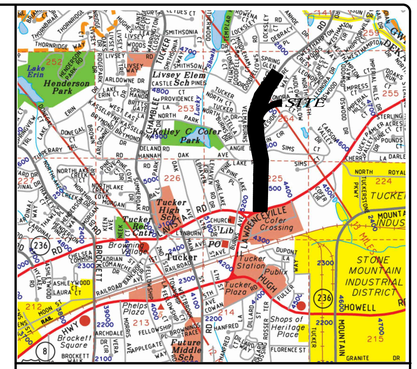
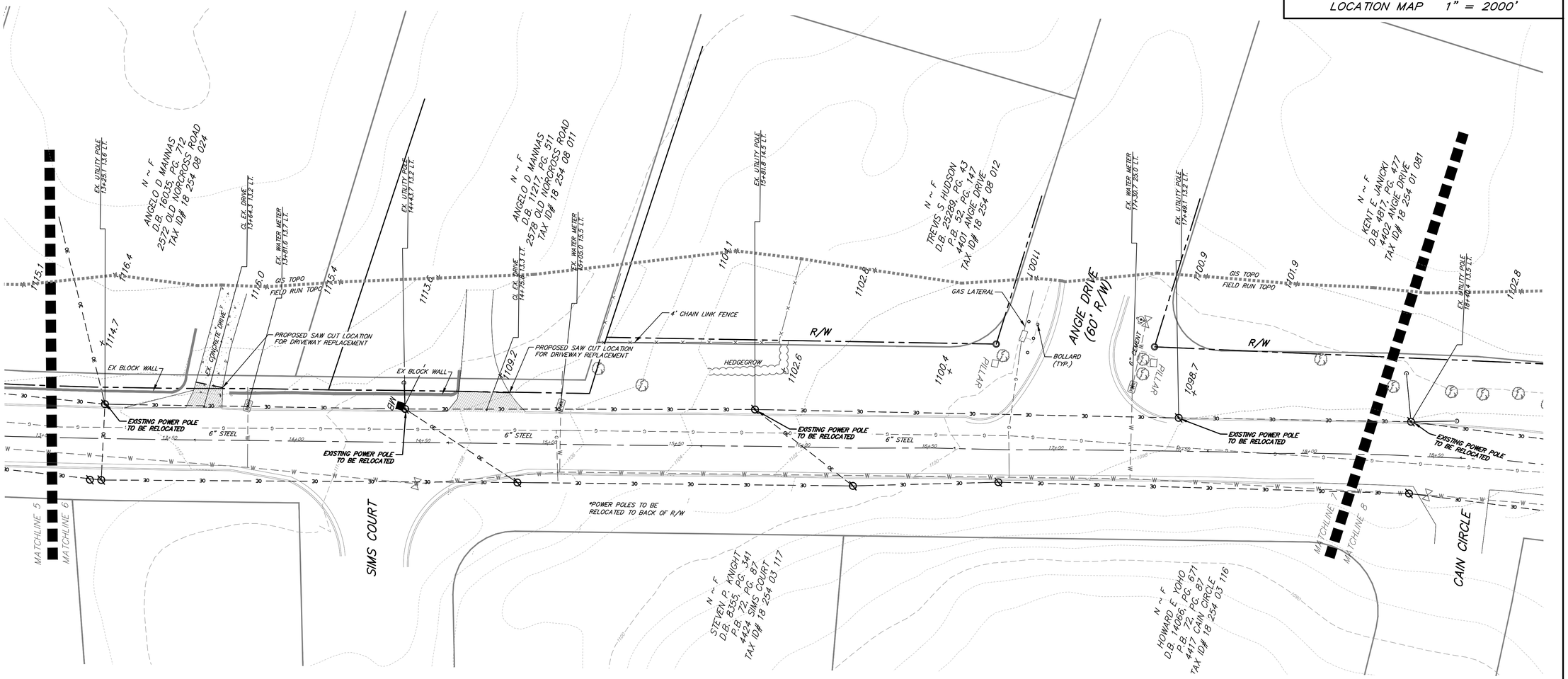
TUCKER, GA 30084



LOCATION MAP 1" = 2000'



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SCALE IN FEET

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OLD NORCROSS ROAD
SIDEWALK IMPROVEMENTS
LAND LOTS 225 AND 254, 18TH DISTRICT,
CITY OF TUCKER, DEKALB COUNTY, GEORGIA
ZONED R3

NOT ISSUED FOR CONSTRUCTION

REVISIONS

REV.	DATE	REVISION REFERENCE:

SHEET TITLE
EXISTING CONDITIONS AND DEMO PLAN (4 OF 8)

SEAL
GEORGIA PROFESSIONAL ENGINEER 23346 DAVID F. MASSEY

PROJECT I.D.	FIELD BOOK

DRAWN BY DAW	CHECKED BY DFM
SCALE 1"=20'	ISSUE DATE 05.05.2021

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Plotted By: dwilburn Drawing name: P:\City of Tucker\Old Norcross Road Sidewalk Improvement\ENGINEERING\Submit\OLD NORCROSS - PRELIM.dwg Plotted on: May 07, 2021 - 7:25am

STORM DRAIN LEGEND	
HEADWALL	
FLARED END SECTION	
DROP INLET	
SINGLE WING CATCH BASIN	
DOUBLE WING CATCH BASIN	
JUNCTION BOX	
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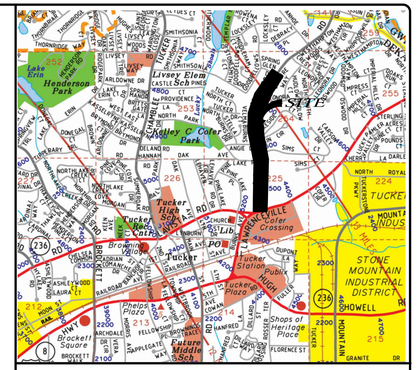
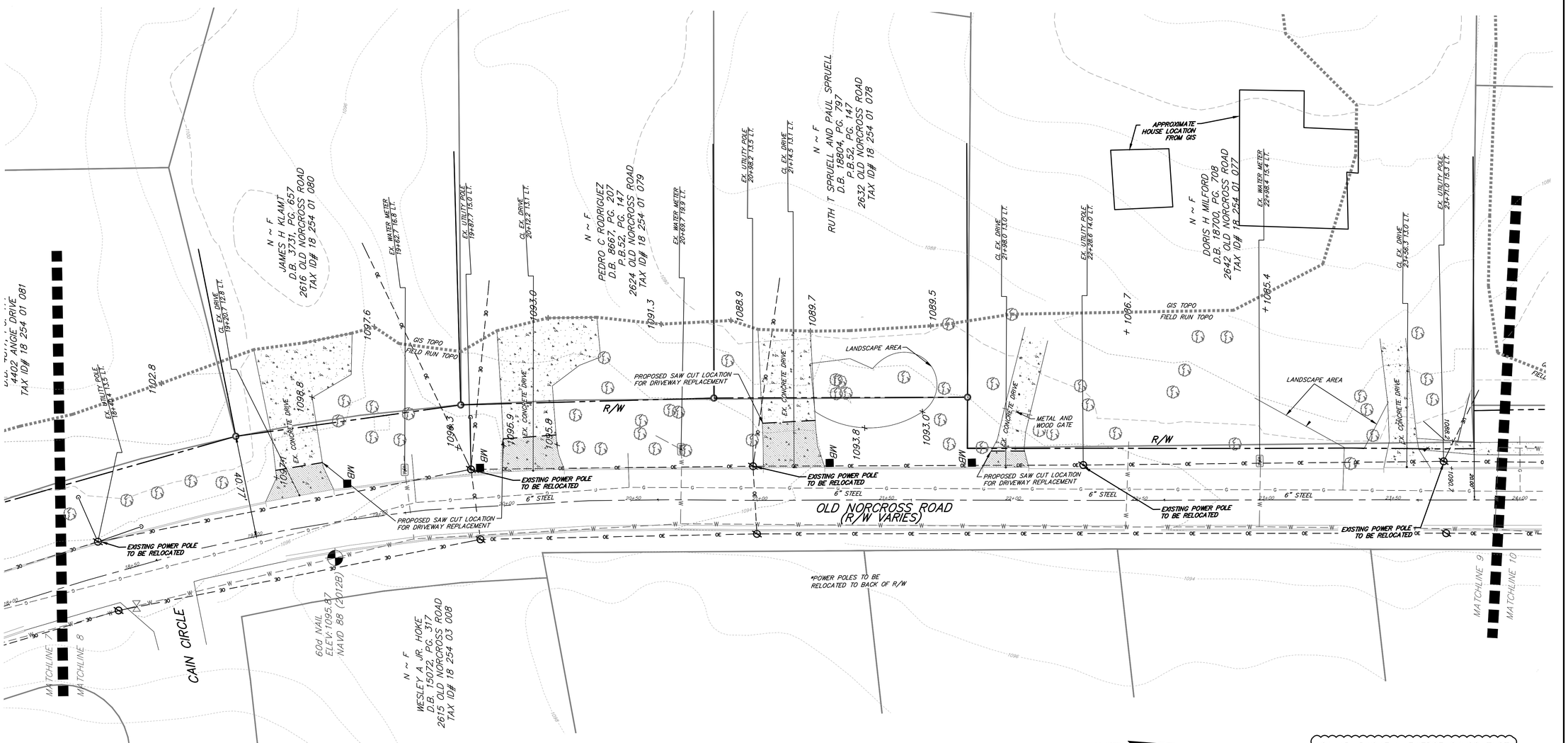
TUCKER, GA 30084



LOCATION MAP 1" = 2000'



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NAVD 88 (2012B)
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ACROSS FROM 2512 OLD NORCROSS ROAD

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OLD NORCROSS ROAD
SIDEWALK IMPROVEMENTS

LAND LOTS 225 AND 254, 18TH DISTRICT,
CITY OF TUCKER, DEKALB COUNTY, GEORGIA
ZONED R3

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REVISIONS

REV.	DATE	REVISION REFERENCE:

SHEET TITLE
EXISTING CONDITIONS AND DEMO PLAN (5 OF 8)

SEAL
GEORGIA PROFESSIONAL ENGINEER 23346 DAVID F. MASSEY

PROJECT I.D.	FIELD BOOK

DRAWN BY DAW	CHECKED BY DFM
SCALE 1"=20'	ISSUE DATE 05.05.2021

SHEET NUMBER
6

Plotted By: dwilburn Drawing name: P:\City of Tucker\Old Norcross Road Sidewalk Improvement\ENGINEERING\Submit\OLD NORCROSS - PRELM.dwg Plotted on: May 07, 2021 - 7:25pm

STORM DRAIN LEGEND	
HEADWALL	
FLARED END SECTION	
DROP INLET	
SINGLE WING CATCH BASIN	
DOUBLE WING CATCH BASIN	
JUNCTION BOX	
WEIR-SQUARE STRUCTURE	
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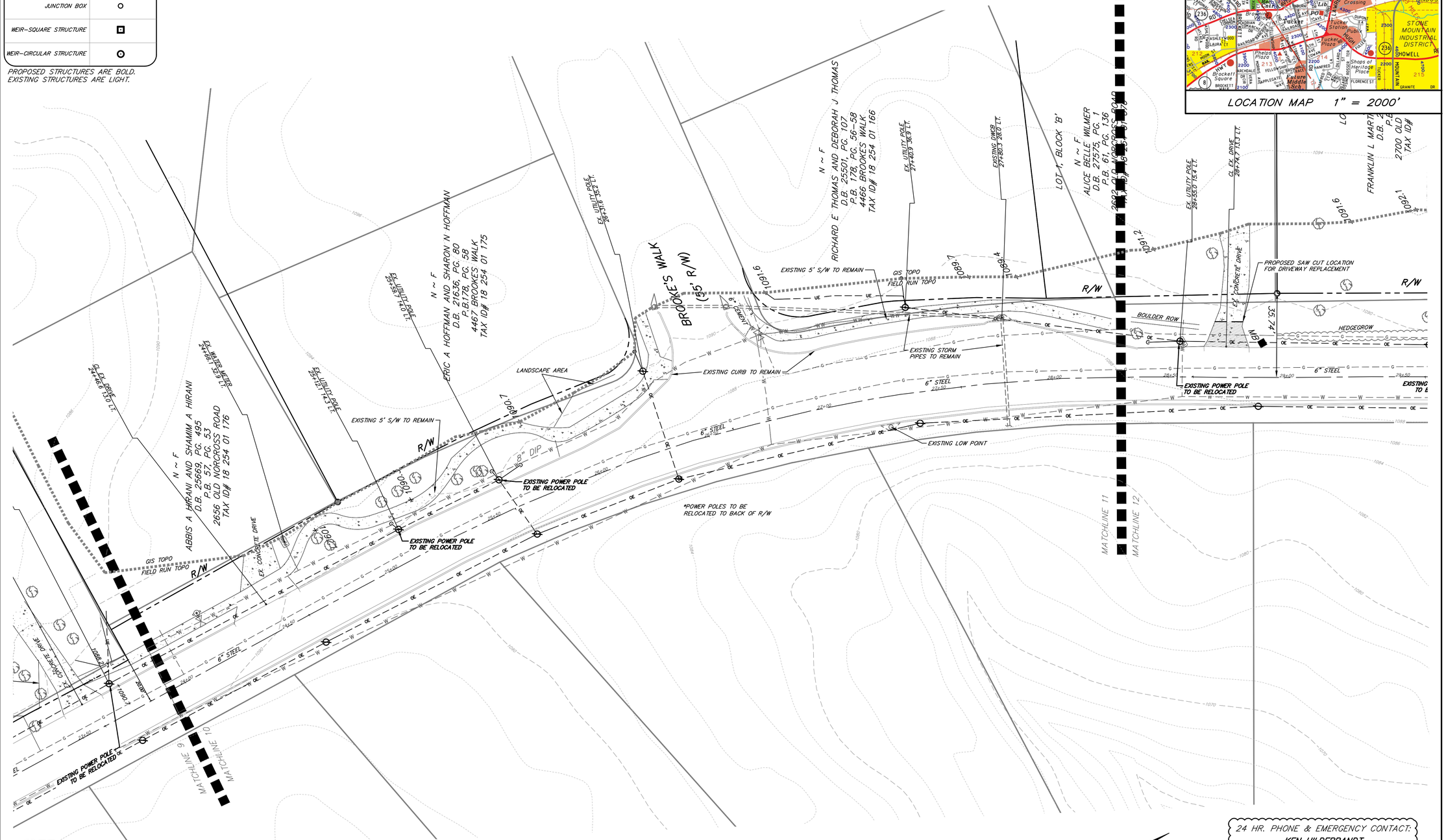
3. DISTURBED MAILBOXES TO BE REINSTALLED WITH USPS COMPLIANT MAILBOXES AGREEABLE TO PROPERTY OWNER.

OWNER/DEVELOPER:
THE CITY OF TUCKER
1975 LAKESIDE PARKWAY
TUCKER, GA 30084



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BENCHMARK: 60D NAIL
ELEV.= 1099.16
NAVD 88 (2012B)
SOUTH SIDE OF OLD NORCROSS ROAD
ACROSS FROM 2512 OLD NORCROSS ROAD

20 0 20 40
SCALE IN FEET

GRID NORTH
GA. WEST ZONE

24 HR. PHONE & EMERGENCY CONTACT:
KEN HILDEBRANDT
770-865-5645

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OLD NORCROSS ROAD
SIDEWALK IMPROVEMENTS
LAND LOTS 225 AND 254, 18TH DISTRICT,
CITY OF TUCKER, DEKALB COUNTY, GEORGIA
ZONED R3

NOT ISSUED FOR CONSTRUCTION

REVISIONS

REV.	DATE	REVISION REFERENCE:

SHEET TITLE
EXISTING CONDITIONS AND DEMO PLAN (6 OF 8)

SEAL
GEORGIA PROFESSIONAL ENGINEER 23346 DAVID F. MASSEY

PROJECT I.D.	FIELD BOOK

DRAWN BY	CHECKED BY
DAW	DFM
SCALE	ISSUE DATE
1"=20'	05.05.2021

SHEET NUMBER
7

Plotted By: dwilburn Drawing name: P:\City of Tucker\Old Norcross Road Sidewalk improvement\ENGINEERING\Submit\OLD NORCROSS - PRELIM.dwg Plotted on: May 07, 2021 - 7:29pm

STORM DRAIN LEGEND	
HEADWALL	
FLARED END SECTION	
DROP INLET	
SINGLE WING CATCH BASIN	
DOUBLE WING CATCH BASIN	
JUNCTION BOX	
WEIR-SQUARE STRUCTURE	
WEIR-CIRCULAR STRUCTURE	

PROPOSED STRUCTURES ARE BOLD.
EXISTING STRUCTURES ARE LIGHT.

GENERAL NOTES

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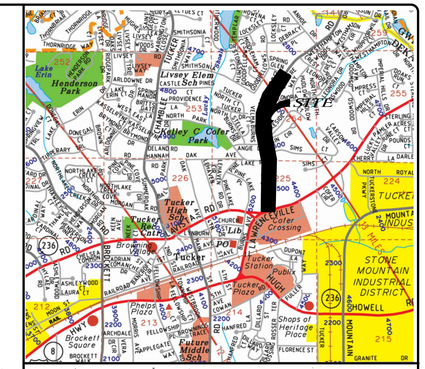
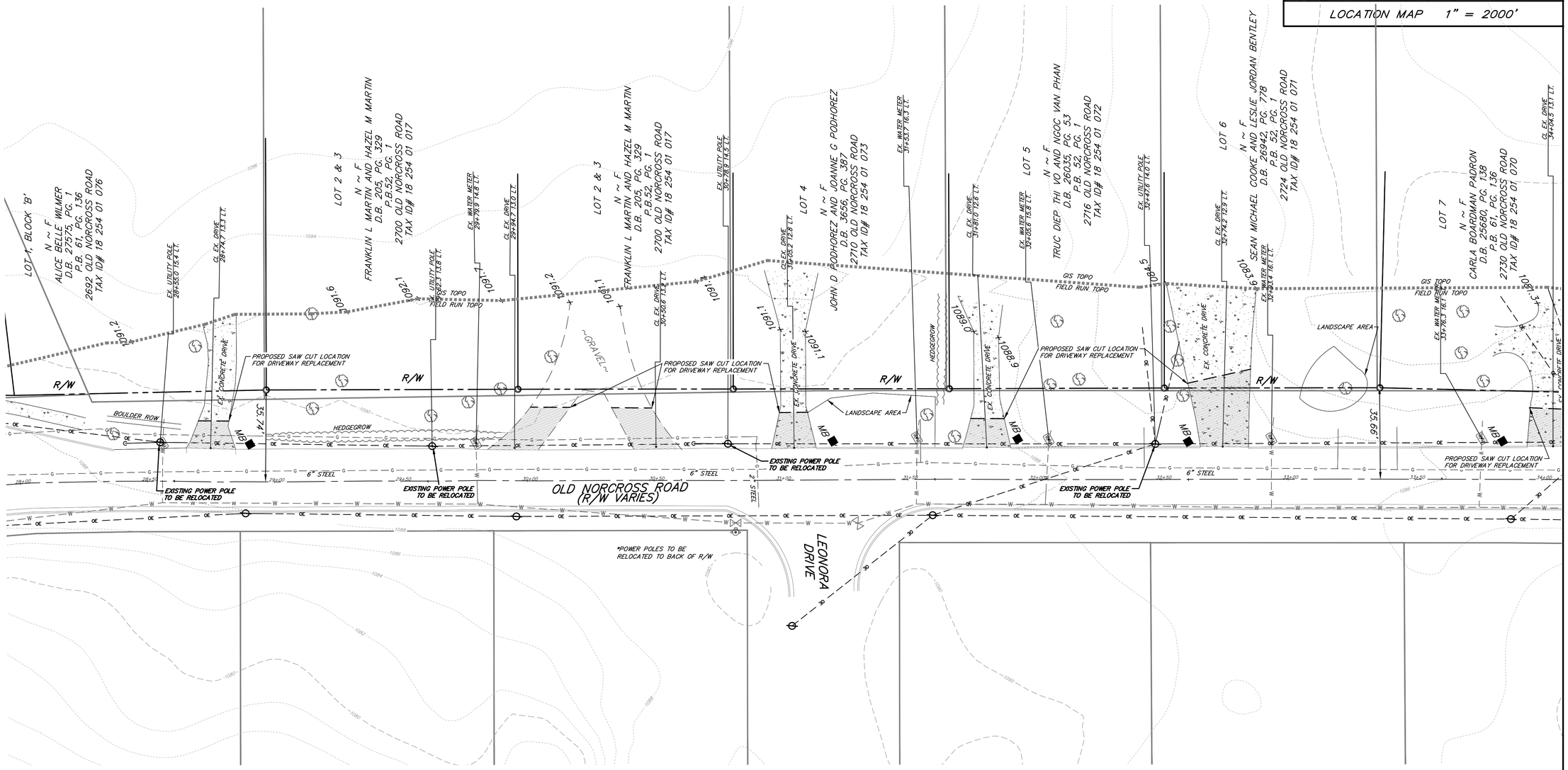
OWNER/DEVELOPER:
THE CITY OF TUCKER
1975 LAKESIDE PARKWAY
TUCKER, GA 30084



LOCATION MAP 1" = 2000'



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BENCHMARK: 60D NAIL
ELEV.= 1099.16
NAVD 88 (2012B)
SOUTH SIDE OF OLD NORCROSS ROAD
ACROSS FROM 2512 OLD NORCROSS ROAD

20 0 20 40
SCALE IN FEET

GRID NORTH
GA. WEST ZONE

24 HR. PHONE & EMERGENCY CONTACT:
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OLD NORCROSS ROAD
SIDEWALK IMPROVEMENTS
LAND LOTS 225 AND 254, 18TH DISTRICT,
CITY OF TUCKER, DEKALB COUNTY, GEORGIA
ZONED R3

REVISIONS

REV.	DATE	REVISION REFERENCE:

SHEET TITLE
EXISTING CONDITIONS AND DEMO PLAN (7 OF 8)

SEAL
GEORGIA PROFESSIONAL ENGINEER 23346 DAVID F. MASSEY

PROJECT I.D.	FIELD BOOK

DRAWN BY DAW	CHECKED BY DFM
SCALE 1"=20'	ISSUE DATE 05.05.2021

SHEET NUMBER
8

Plotted By: swilburn Drawing name: P:\City of Tucker\Old Norcross Road Sidewalk Improvement\ENGINEERING\Submit\OLD NORCROSS - PRELIM.dwg Plotted on: May 07, 2021 - 7:25pm

STORM DRAIN LEGEND	
HEADWALL	
FLARED END SECTION	
DROP INLET	
SINGLE WING CATCH BASIN	
DOUBLE WING CATCH BASIN	
JUNCTION BOX	
WEIR-SQUARE STRUCTURE	
WEIR-CIRCULAR STRUCTURE	

PROPOSED STRUCTURES ARE BOLD.
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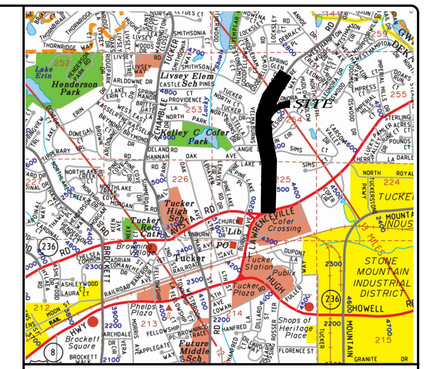
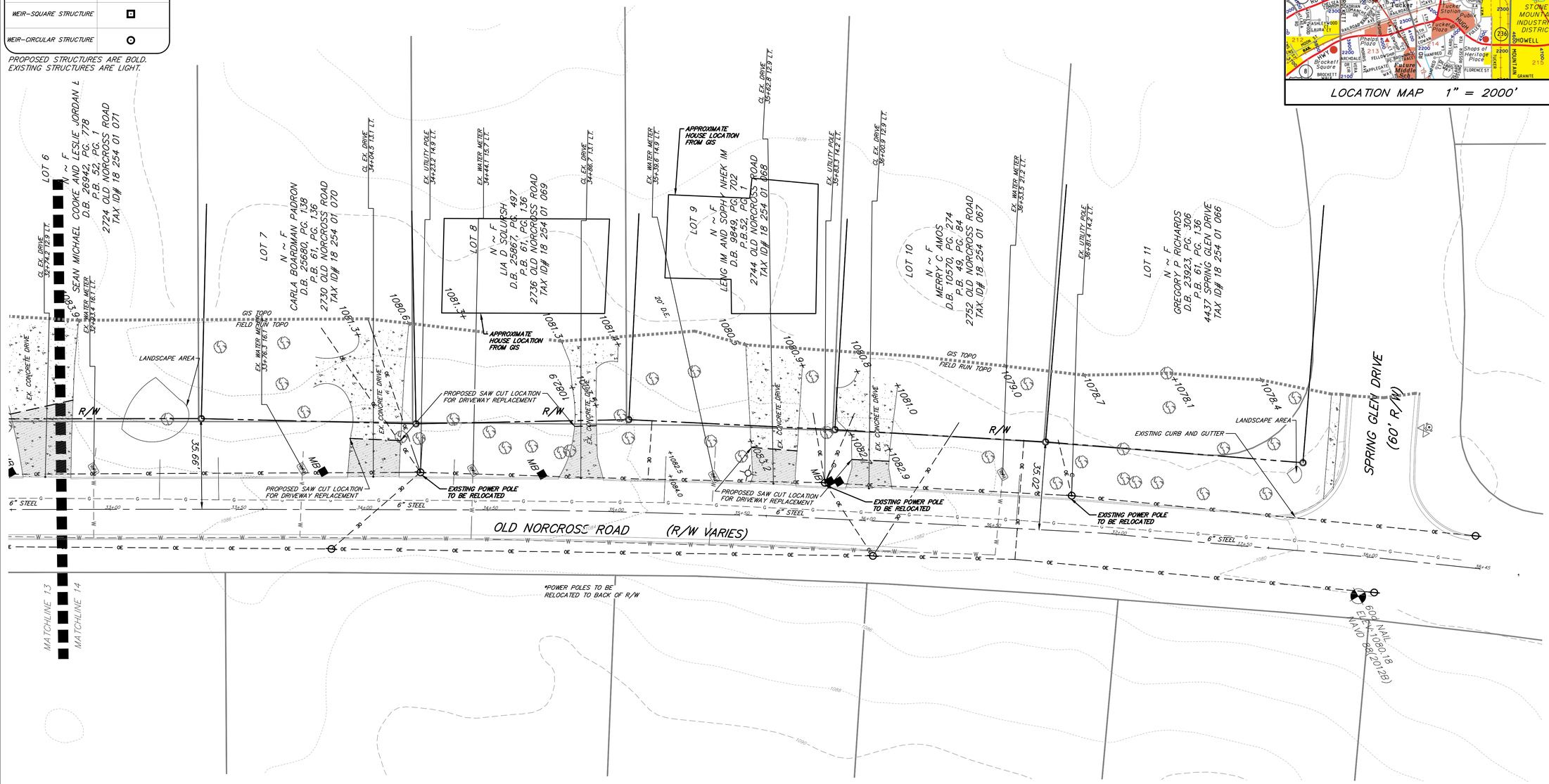
THE CITY OF TUCKER
1975 LAKESIDE PARKWAY
TUCKER, GA 30084



LOCATION MAP 1" = 2000'



20 0 20 40
SCALE IN FEET

GRID NORTH
GA WEST ZONE

24 HR. PHONE & EMERGENCY CONTACT:
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770-865-5645

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BENCHMARK: 60D NAIL
ELEV.= 1099.16
NAVD 88 (2012B)
SOUTH SIDE OF OLD NORCROSS ROAD
ACROSS FROM 2512 OLD NORCROSS ROAD

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OLD NORCROSS ROAD
SIDEWALK IMPROVEMENTS

LAND LOTS 225 AND 254, 18TH DISTRICT,
CITY OF TUCKER, DEKALB COUNTY, GEORGIA
ZONED R3

REVISIONS

REV.	DATE	REVISION REFERENCE:

SHEET TITLE
EXISTING CONDITIONS AND DEMO PLAN (8 OF 8)

SEAL
GEORGIA PROFESSIONAL ENGINEER 23346 DAVID F. MASSEY

PROJECT I.D.	FIELD BOOK

DRAWN BY DAW	CHECKED BY DFM
SCALE 1"=20'	ISSUE DATE 05.05.2021

SHEET NUMBER
9

Plotted By: dwilburn Drawing name: P:\City of Tucker\Old Norcross Road Sidewalk Improvement\ENGINEERING\Submit\OLD NORCROSS - PRELM.dwg Plotted on: May 03, 2021 - 7:26pm

STORM DRAIN LEGEND	
HEADWALL	
FLARED END SECTION	
DROP INLET	
SINGLE WING CATCH BASIN	
DOUBLE WING CATCH BASIN	
JUNCTION BOX	
WEIR-SQUARE STRUCTURE	
WEIR-CIRCULAR STRUCTURE	

PROPOSED STRUCTURES ARE BOLD.
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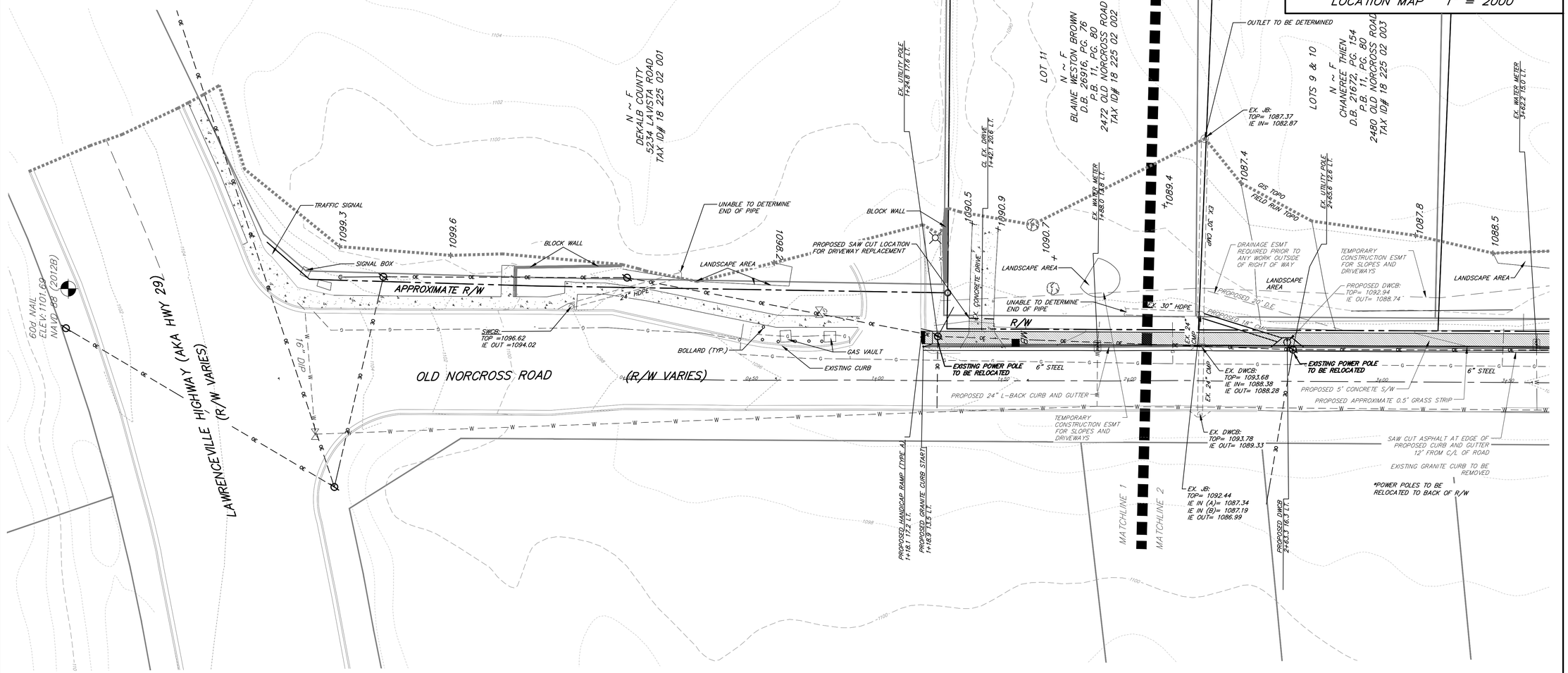
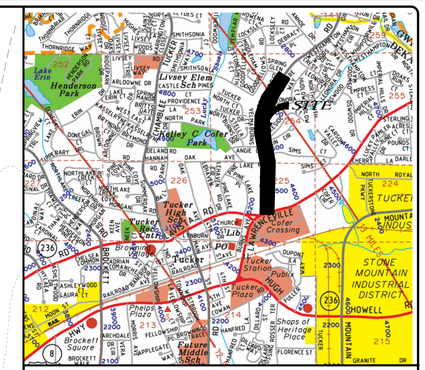
OWNER/DEVELOPER:
THE CITY OF TUCKER
1975 LAKESIDE PARKWAY
TUCKER, GA 30084





LOCATION MAP 1" = 2000'

24 HR. PHONE & EMERGENCY CONTACT:
KEN HILDEBRANDT
770-865-5645

20 0 20 40
SCALE IN FEET

GRID NORTH
GA. WEST ZONE

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BENCHMARK: 60D NAIL
ELEV.= 1099.16
NAVD 88 (2012B)
SOUTH SIDE OF OLD NORCROSS ROAD
ACROSS FROM 2512 OLD NORCROSS ROAD

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OLD NORCROSS ROAD
SIDEWALK IMPROVEMENTS

LAND LOTS 225 AND 254, 18TH DISTRICT,
CITY OF TUCKER, DEKALB COUNTY, GEORGIA
ZONED R3

NOT ISSUED FOR CONSTRUCTION

REVISIONS

REV.	DATE	REVISION REFERENCE:

SHEET TITLE
SITE PLAN (1 OF 8)

SEAL
GEORGIA PROFESSIONAL ENGINEER 23346 DAVID F. MASSEY

PROJECT I.D.	FIELD BOOK

DRAWN BY	CHECKED BY
DAW	DFM
SCALE	ISSUE DATE
1"=20'	05.05.2021

SHEET NUMBER
10

Plotted By: dwilburn Drawing name: P:\City of Tucker\Old Norcross Road Sidewalk Improvement\ENGINEERING\Submit\OLD NORCROSS - PRELM.dwg Plotted on: May 07, 2021 - 7:26pm

STORM DRAIN LEGEND	
HEADWALL	
FLARED END SECTION	
DROP INLET	
SINGLE WING CATCH BASIN	
DOUBLE WING CATCH BASIN	
JUNCTION BOX	
WEIR-SQUARE STRUCTURE	
WEIR-CIRCULAR STRUCTURE	

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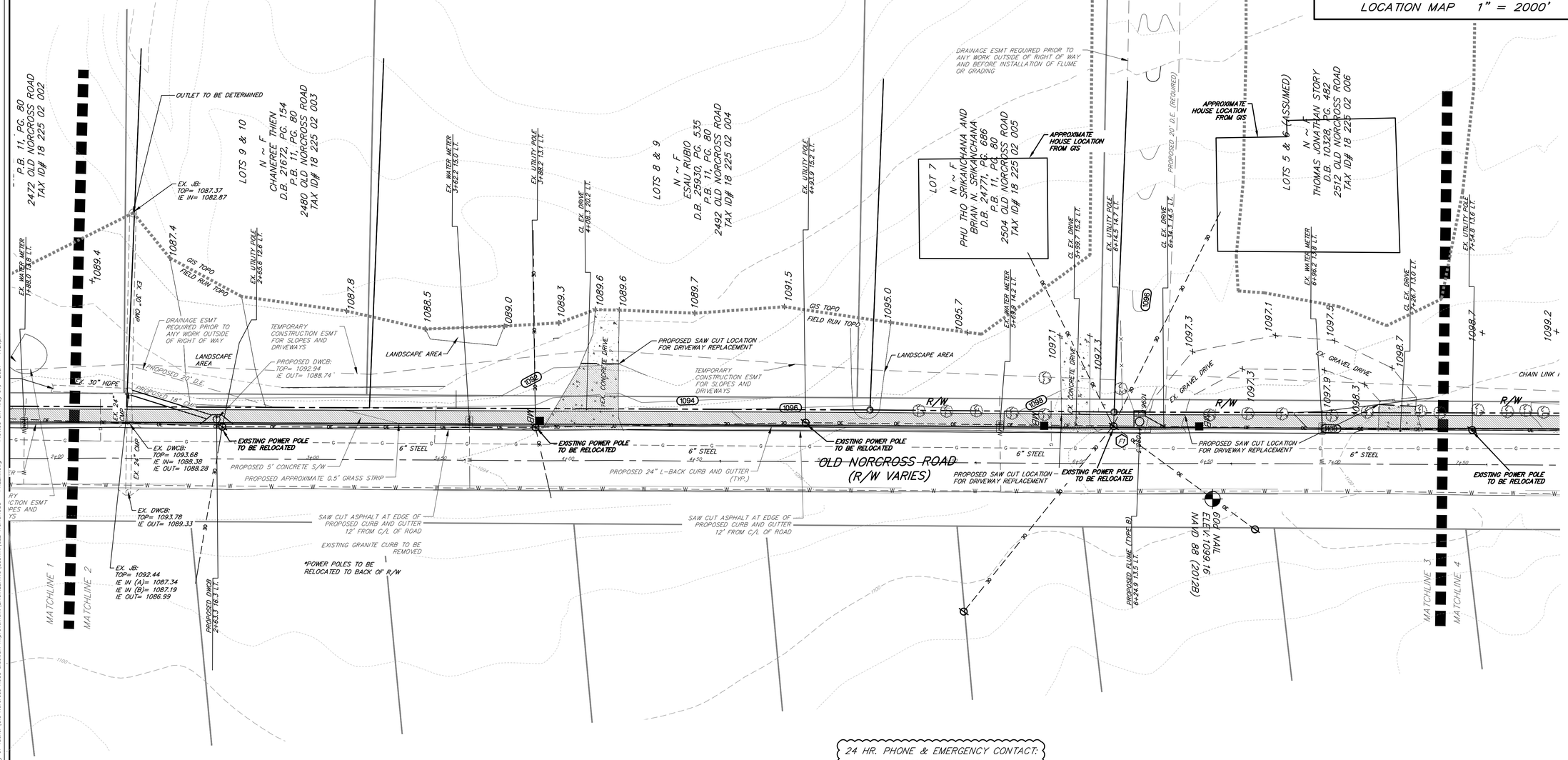
OWNER/DEVELOPER:
THE CITY OF TUCKER
1975 LAKESIDE PARKWAY
TUCKER, GA 30084



24 HR. PHONE & EMERGENCY CONTACT:
KEN HILDEBRANDT
770-865-5645

20 0 20 40
SCALE IN FEET

GRID NORTH
GA. WEST ZONE

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BENCHMARK: 60D NAIL
ELEV.= 1099.16
NAVD 88 (2012B)
SOUTH SIDE OF OLD NORCROSS ROAD ACROSS FROM 2512 OLD NORCROSS ROAD

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OLD NORCROSS ROAD
SIDEWALK IMPROVEMENTS

LAND LOTS 225 AND 254, 18TH DISTRICT,
CITY OF TUCKER, DEKALB COUNTY, GEORGIA
ZONED R3

NOT ISSUED FOR CONSTRUCTION

REVISIONS

REV.	DATE	REVISION REFERENCE:

SHEET TITLE
SITE PLAN (2 OF 8)

SEAL
GEORGIA PROFESSIONAL ENGINEER 23346 DAVID F. MASSEY

PROJECT I.D.	FIELD BOOK

DRAWN BY: DAW	CHECKED BY: DFM
SCALE: 1"=20'	ISSUE DATE: 05.05.2021

SHEET NUMBER
11

Plotted By: swilburn Drawing name: P:\City of Tucker\Old Norcross Road Sidewalk Improvement\ENGINEERING\Submit\OLD NORCROSS - PRELIM.dwg Plotted on May 07, 2021 - 7:26pm

STORM DRAIN LEGEND	
HEADWALL	
FLARED END SECTION	
DROP INLET	
SINGLE WING CATCH BASIN	
DOUBLE WING CATCH BASIN	
JUNCTION BOX	
WEIR-SQUARE STRUCTURE	
WEIR-CIRCULAR STRUCTURE	

PROPOSED STRUCTURES ARE BOLD.
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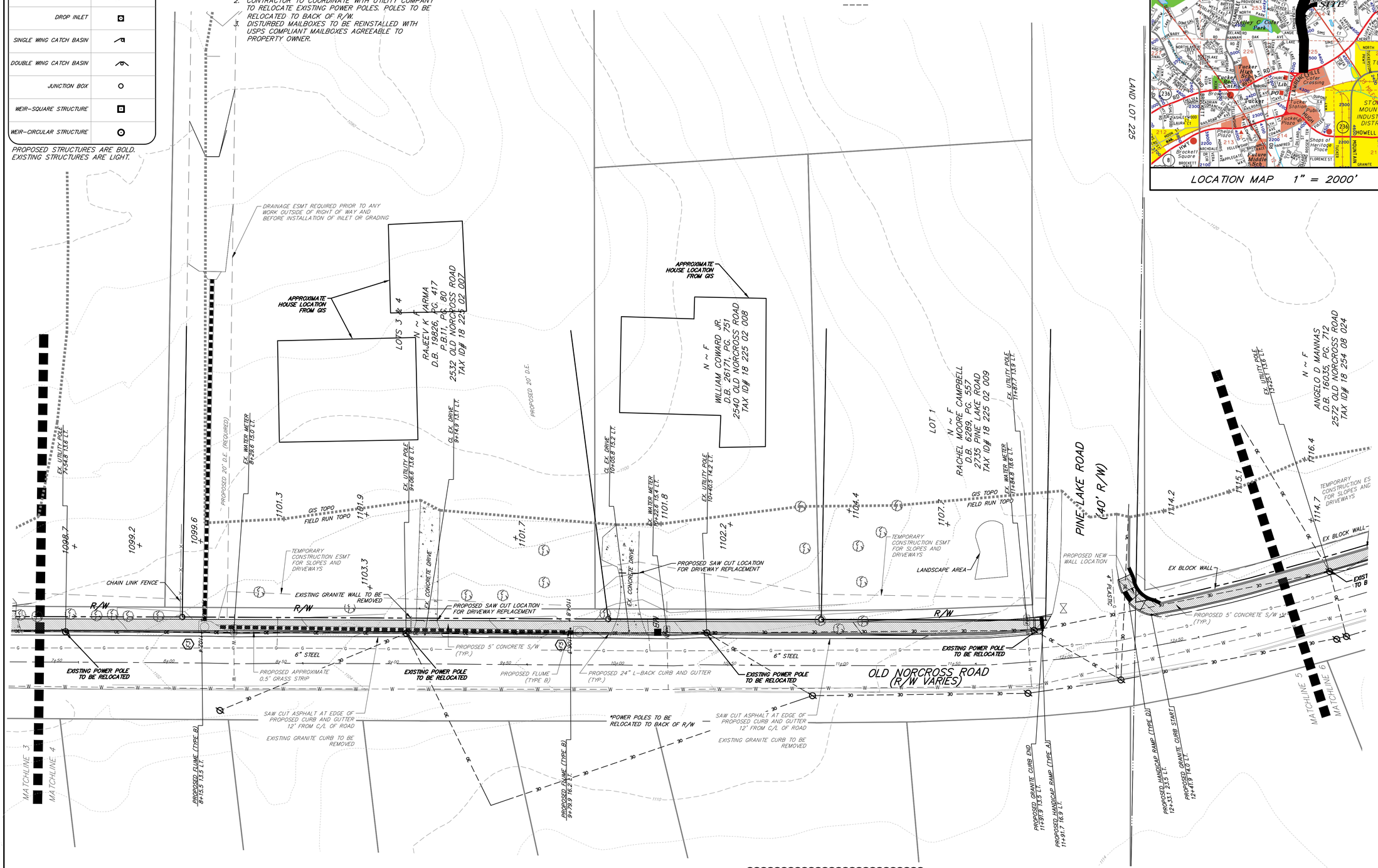
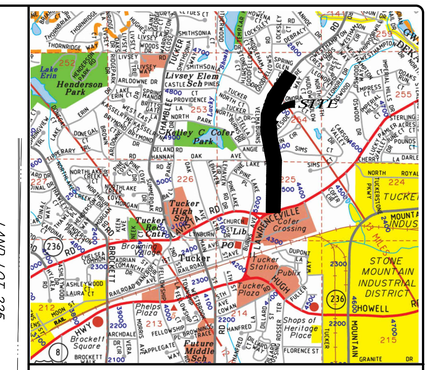
THE CITY OF TUCKER
1975 LAKESIDE PARKWAY
TUCKER, GA 30084





LOCATION MAP 1" = 2000'

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OLD NORCROSS ROAD
SIDEWALK IMPROVEMENTS
LAND LOTS 225 AND 254, 18TH DISTRICT,
CITY OF TUCKER, DEKALB COUNTY, GEORGIA
ZONED R3

REVISIONS		
REV.	DATE	REVISION REFERENCE:

SHEET TITLE
SITE PLAN (3 OF 8)

SEAL
GEORGIA PROFESSIONAL ENGINEER 23346 DAVID F. MASSEY

PROJECT I.D.	FIELD BOOK

DRAWN BY DAW	CHECKED BY DFM
SCALE 1"=20'	ISSUE DATE 05.05.2021

SHEET NUMBER
12

NOT ISSUED FOR CONSTRUCTION

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BENCHMARK: 60D NAIL
ELEV.= 1099.16
NAVD 88 (2012B)
SOUTH SIDE OF OLD NORCROSS ROAD ACROSS FROM 2512 OLD NORCROSS ROAD

24 HR. PHONE & EMERGENCY CONTACT:
KEN HILDEBRANDT
770-865-5645

20 0 20 40
SCALE IN FEET

Plotted By:dwilburn Drawing name: R:\City of Tucker\Old Norcross Road Sidewalk Improvement\ENGINEERING\Submit\OLD NORCROSS - PRELM.dwg Plotted on: May 07, 2021 - 7:26pm

STORM DRAIN LEGEND	
HEADWALL	
FLARED END SECTION	
DROP INLET	
SINGLE WING CATCH BASIN	
DOUBLE WING CATCH BASIN	
JUNCTION BOX	
WEIR-SQUARE STRUCTURE	
WEIR-CIRCULAR STRUCTURE	

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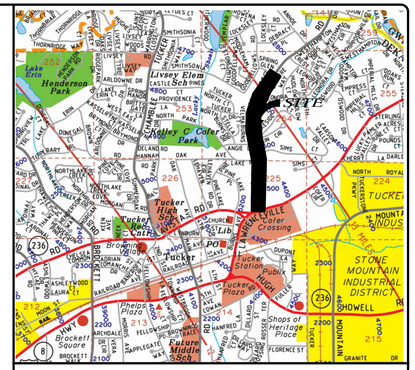
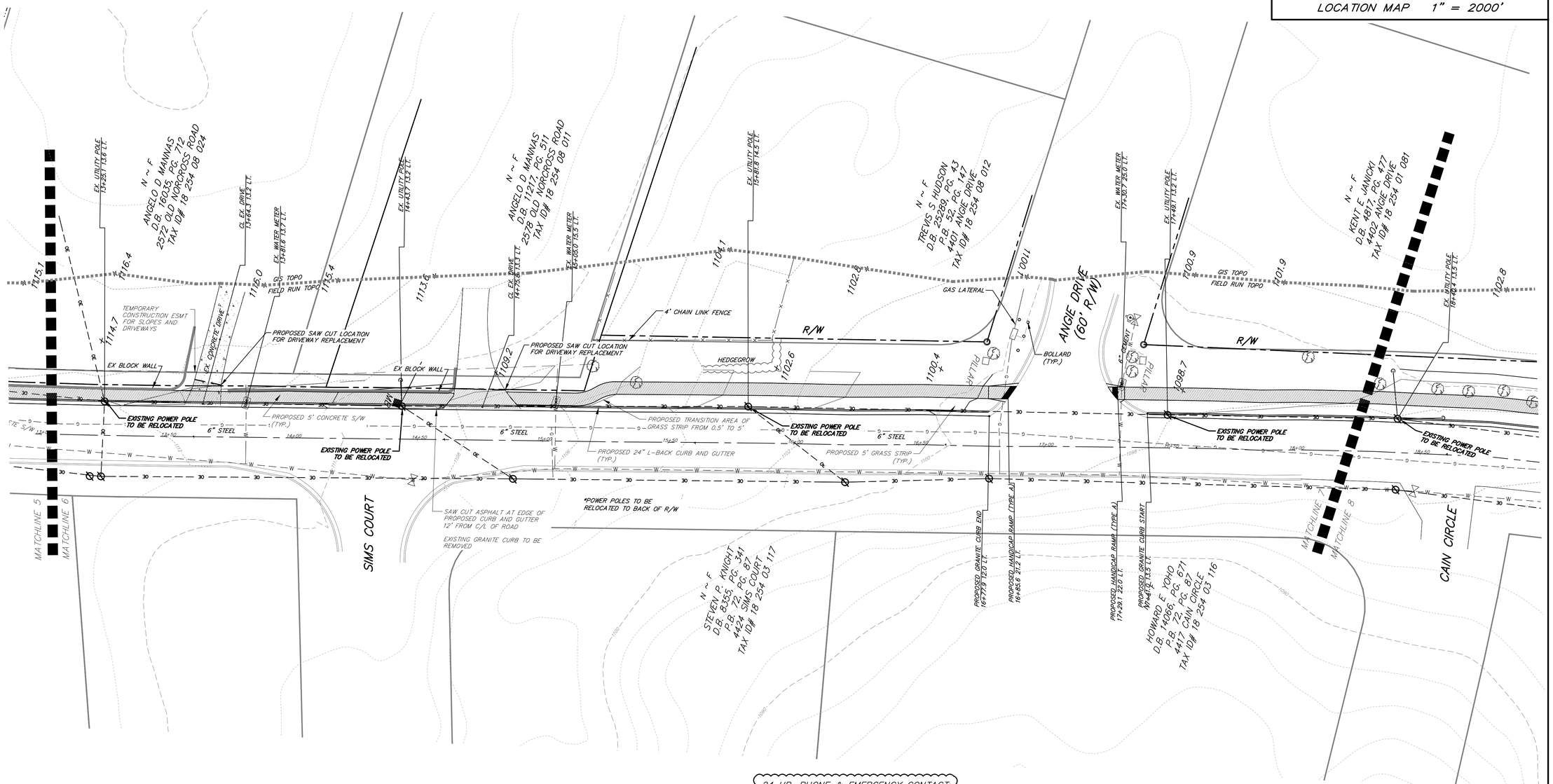
TUCKER, GA 30084



LOCATION MAP 1" = 2000'



24 HR. PHONE & EMERGENCY CONTACT:
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770-865-5645

BENCHMARK: 60D NAIL
ELEV.= 1099.16
NAVD 88 (2012B)
SOUTH SIDE OF OLD NORCROSS ROAD
ACROSS FROM 2512 OLD NORCROSS ROAD

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GRID NORTH
GA. WEST ZONE

20 0 20 40
SCALE IN FEET

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OLD NORCROSS ROAD
SIDEWALK IMPROVEMENTS
LAND LOTS 225 AND 254, 18TH DISTRICT,
CITY OF TUCKER, DEKALB COUNTY, GEORGIA
ZONED R3

NOT ISSUED FOR CONSTRUCTION

REVISIONS

REV.	DATE	REVISION REFERENCE:

SHEET TITLE
SITE PLAN (4 OF 8)

SEAL
GEORGIA PROFESSIONAL ENGINEER 23346 DAVID F. MASSEY

PROJECT I.D.	FIELD BOOK

DRAWN BY DAW	CHECKED BY DFM
SCALE 1"=20'	ISSUE DATE 05.05.2021

SHEET NUMBER
13

Plotted By: dwilburn Drawing name: P:\City of Tucker\Old Norcross Road Sidewalk Improvement\ENGINEERING\Submit\OLD NORCROSS - PRELM.dwg Plotted on: May 07, 2021 - 7:26pm

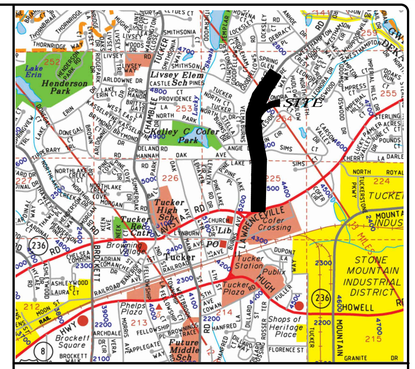
STORM DRAIN LEGEND	
HEADWALL	
FLARED END SECTION	
DROP INLET	
SINGLE WING CATCH BASIN	
DOUBLE WING CATCH BASIN	
JUNCTION BOX	
WEIR-SQUARE STRUCTURE	
WEIR-CIRCULAR STRUCTURE	

PROPOSED STRUCTURES ARE BOLD.
EXISTING STRUCTURES ARE LIGHT.

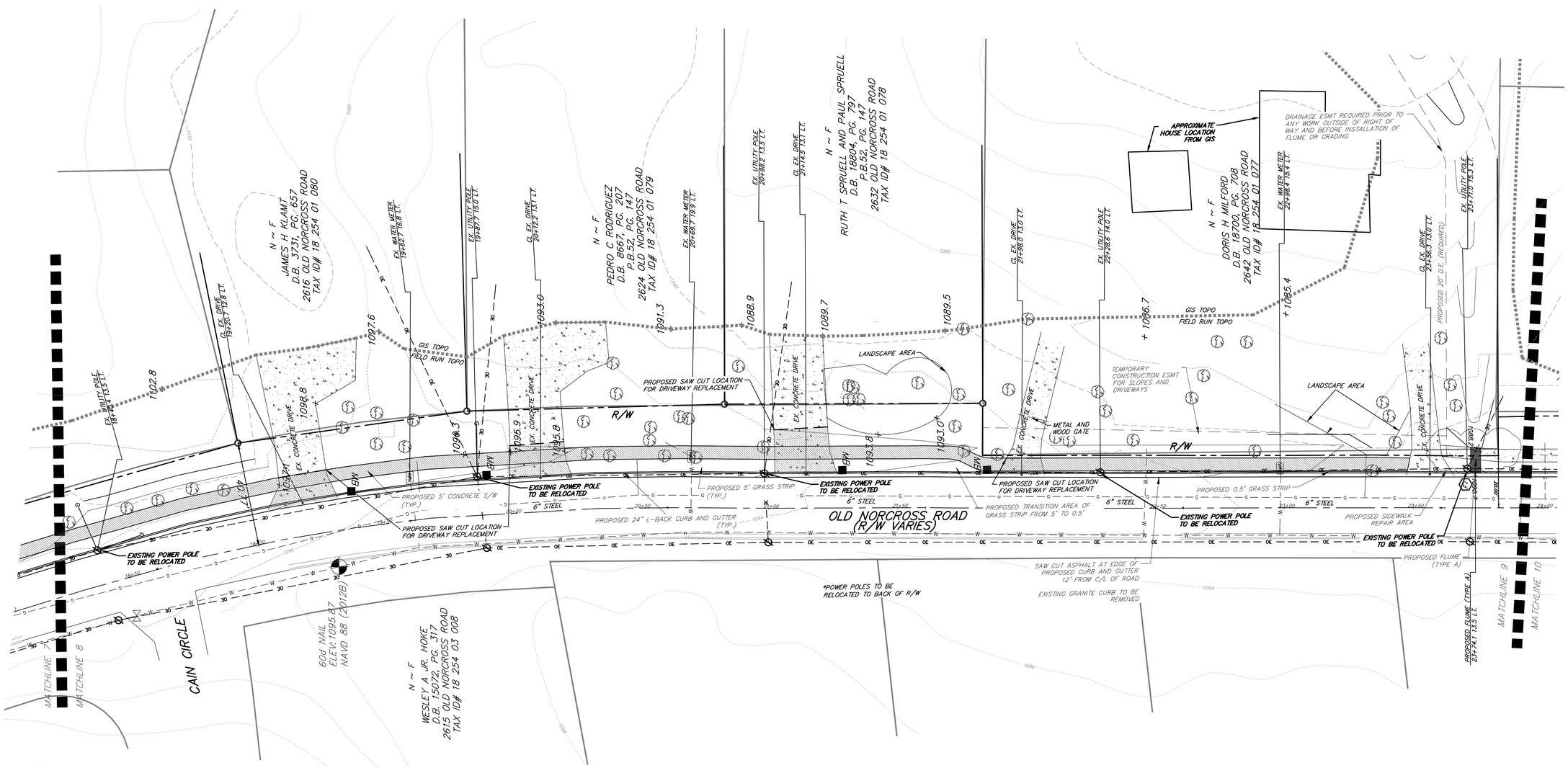
GENERAL NOTES

1. CONTRACTOR TO COORDINATE WITH UTILITY PROVIDERS FOR RELOCATION OF METERS AND APPURTENANCES IN CONFLICT
2. CONTRACTOR TO COORDINATE WITH UTILITY COMPANY TO RELOCATE EXISTING POWER POLES. POLES TO BE RELOCATED TO BACK OF R/W.
3. DISTURBED MAILBOXES TO BE REINSTALLED WITH USPS COMPLIANT MAILBOXES AGREEABLE TO PROPERTY OWNER.

OWNER/DEVELOPER:
THE CITY OF TUCKER
1975 LAKESIDE PARKWAY
TUCKER, GA 30084



LOCATION MAP 1" = 2000'



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BENCHMARK: 60D NAIL
ELEV.= 1099.16
NAVD 88 (2012B)
SOUTH SIDE OF OLD NORCROSS ROAD
ACROSS FROM 2512 OLD NORCROSS ROAD

20 0 20 40
SCALE IN FEET

GRID NORTH
GA. WEST ZONE

24 HR. PHONE & EMERGENCY CONTACT:
KEN HILDEBRANDT
770-865-5645

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OLD NORCROSS ROAD
SIDEWALK IMPROVEMENTS

LAND LOTS 225 AND 254, 18TH DISTRICT,
CITY OF TUCKER, DEKALB COUNTY, GEORGIA
ZONED R3

NOT ISSUED FOR CONSTRUCTION

REVISIONS

REV.	DATE	REVISION REFERENCE:

SHEET TITLE
SITE PLAN (5 OF 8)

SEAL
GEORGIA PROFESSIONAL ENGINEER 23346 DAVID F. MASSEY

PROJECT I.D.	FIELD BOOK

DRAWN BY DAW	CHECKED BY DFM
SCALE 1"=20'	ISSUE DATE 05.05.2021

SHEET NUMBER
14

Plotted By: dwilburn Drawing name: P:\City of Tucker\Old Norcross Road Sidewalk Improvement\ENGINEERING\Submit\OLD NORCROSS - PRELIM.dwg Plotted on: May 07, 2021 - 7:26pm

STORM DRAIN LEGEND	
HEADWALL	
FLARED END SECTION	
DROP INLET	
SINGLE WING CATCH BASIN	
DOUBLE WING CATCH BASIN	
JUNCTION BOX	
WEIR-SQUARE STRUCTURE	
WEIR-CIRCULAR STRUCTURE	

PROPOSED STRUCTURES ARE BOLD.
EXISTING STRUCTURES ARE LIGHT.

GENERAL NOTES

1. CONTRACTOR TO COORDINATE WITH UTILITY PROVIDERS FOR RELOCATION OF METERS AND APPURTENANCES IN CONFLICT
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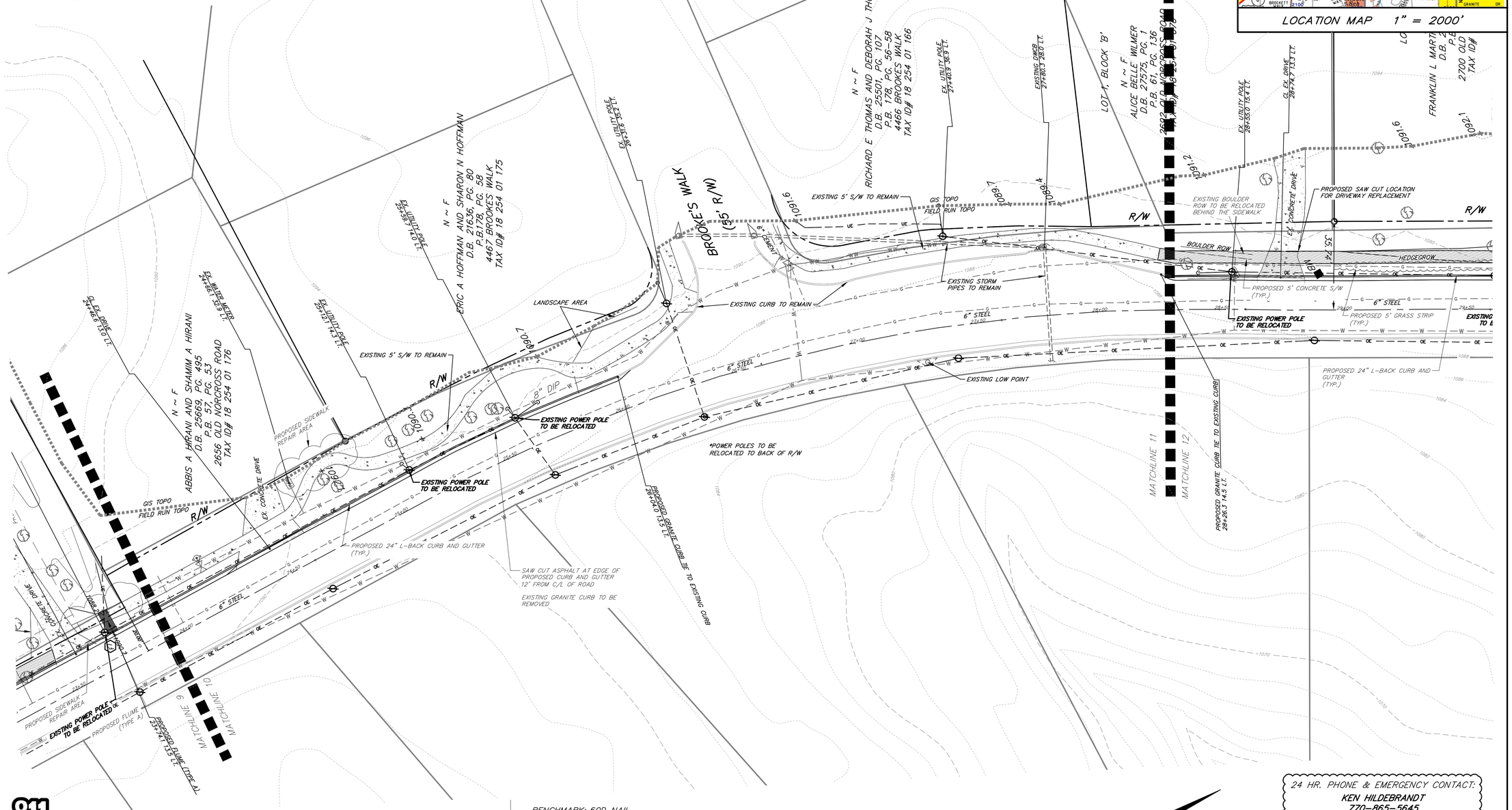
3. DISTURBED MAILBOXES TO BE REINSTALLED WITH USPS COMPLIANT MAILBOXES AGREEABLE TO PROPERTY OWNER.

OWNER/DEVELOPER:
THE CITY OF TUCKER
1975 LAKESIDE PARKWAY
TUCKER, GA 30084



Know what's below. Call before you dig.

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BENCHMARK: 60D NAIL
ELEV.= 1099.16
NAVD 88 (2012B)
SOUTH SIDE OF OLD NORCROSS ROAD
ACROSS FROM 2512 OLD NORCROSS ROAD

24 HR. PHONE & EMERGENCY CONTACT:
KEN HILDEBRANDT
770-865-5645

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OLD NORCROSS ROAD
SIDEWALK IMPROVEMENTS
LAND LOTS 225 AND 254, 18TH DISTRICT,
CITY OF TUCKER, DEKALB COUNTY, GEORGIA
ZONED R3

NOT ISSUED FOR CONSTRUCTION

REVISIONS		
REV.	DATE	REVISION REFERENCE:

SHEET TITLE
SITE PLAN (6 OF 8)

SEAL
GEORGIA PROFESSIONAL ENGINEER 23346 DAVID F. MASSEY

PROJECT I.D.	FIELD BOOK

DRAWN BY: DAW	CHECKED BY: DFM
SCALE: 1"=20'	ISSUE DATE: 05.05.2021

SHEET NUMBER
15

Plotted By:dwilburn Drawing name: P:\City of Tucker\Old Norcross Road Sidewalk Improvement\ENGINEERING\Submit\OLD NORCROSS - PRELM.dwg Plotted on: May 07, 2021 - 7:27pm

STORM DRAIN LEGEND	
HEADWALL	
FLARED END SECTION	
DROP INLET	
SINGLE WING CATCH BASIN	
DOUBLE WING CATCH BASIN	
JUNCTION BOX	
WEIR-SQUARE STRUCTURE	
WEIR-CIRCULAR STRUCTURE	

PROPOSED STRUCTURES ARE BOLD.
EXISTING STRUCTURES ARE LIGHT.

GENERAL NOTES

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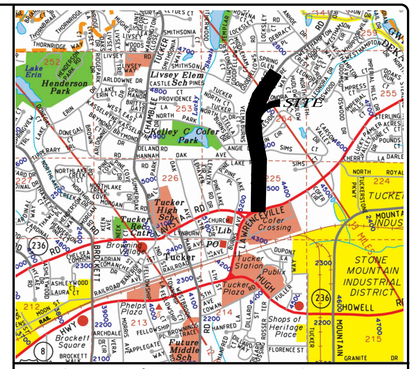
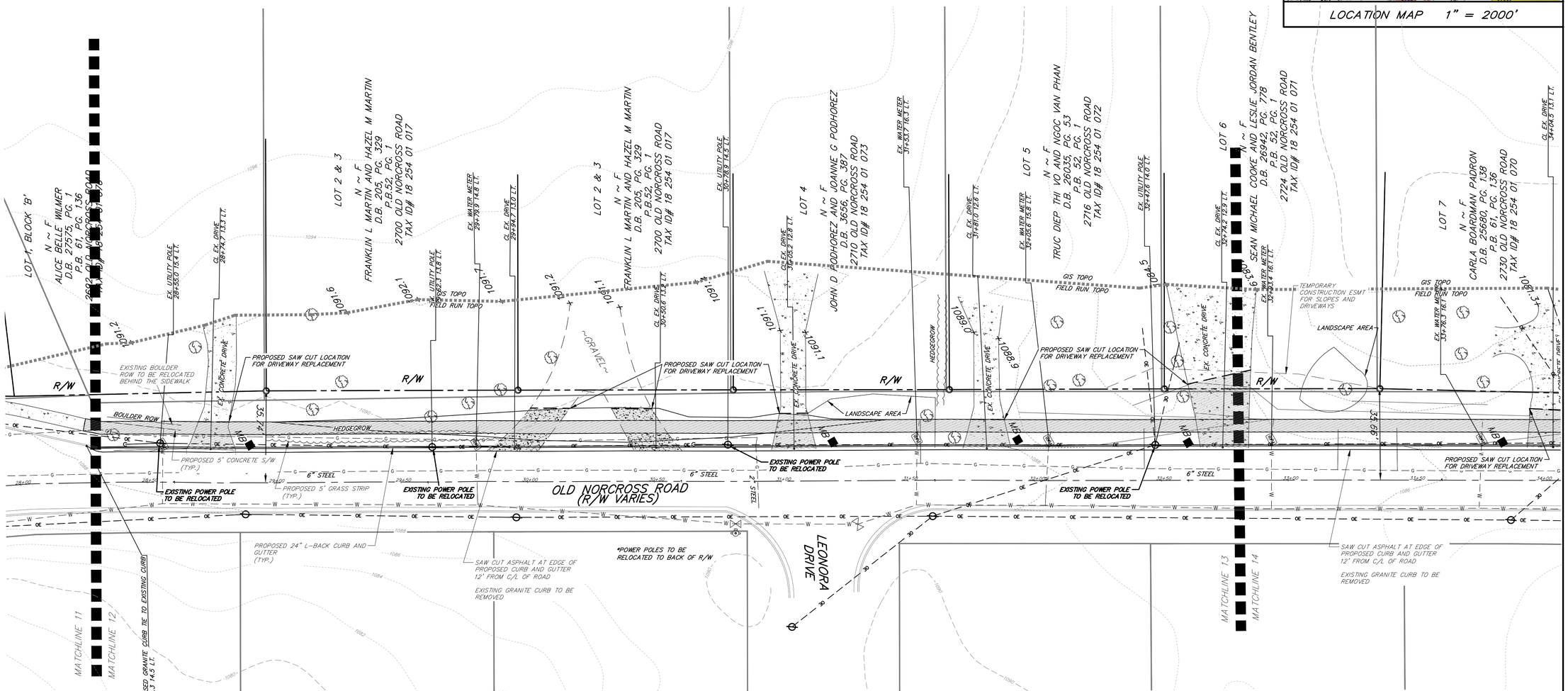
2. CONTRACTOR TO COORDINATE WITH UTILITY COMPANY TO RELOCATE EXISTING POWER POLES. POLES TO BE RELOCATED TO BACK OF R/W.
3. DISTURBED MAILBOXES TO BE REINSTALLED WITH USPS COMPLIANT MAILBOXES AGREEABLE TO PROPERTY OWNER.

OWNER/DEVELOPER:
THE CITY OF TUCKER
1975 LAKESIDE PARKWAY
TUCKER, GA 30084



LOCATION MAP 1" = 2000'



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BENCHMARK: 60D NAIL
ELEV.= 1099.16
NAVD 88 (2012B)
SOUTH SIDE OF OLD NORCROSS ROAD
ACROSS FROM 2512 OLD NORCROSS ROAD

SCALE IN FEET: 20 0 20 40

GRID NORTH GA. WEST ZONE

24 HR. PHONE & EMERGENCY CONTACT:
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OLD NORCROSS ROAD
SIDEWALK IMPROVEMENTS

LAND LOTS 225 AND 254, 18TH DISTRICT,
CITY OF TUCKER, DEKALB COUNTY, GEORGIA
ZONED R3

NOT ISSUED FOR CONSTRUCTION

REVISIONS

REV.	DATE	REVISION REFERENCE:

SHEET TITLE
SITE PLAN (7 OF 8)

SEAL
GEORGIA PROFESSIONAL ENGINEER 23346 DAVID F. MASSEY

PROJECT I.D.	FIELD BOOK

DRAWN BY DAW	CHECKED BY DFM
SCALE 1"=20'	ISSUE DATE 05.05.2021

SHEET NUMBER
16

Plotted By: davidburn Drawing name: P:\City of Tucker\Old Norcross Road Sidewalk Improvement\ENGINEERING\Submit\OLD NORCROSS - PRELM.dwg Plotted on: May 07, 2021 - 7:27pm

STORM DRAIN LEGEND	
HEADWALL	
FLARED END SECTION	
DROP INLET	
SINGLE WING CATCH BASIN	
DOUBLE WING CATCH BASIN	
JUNCTION BOX	
WEIR-SQUARE STRUCTURE	
WEIR-CIRCULAR STRUCTURE	

PROPOSED STRUCTURES ARE BOLD.
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GENERAL NOTES

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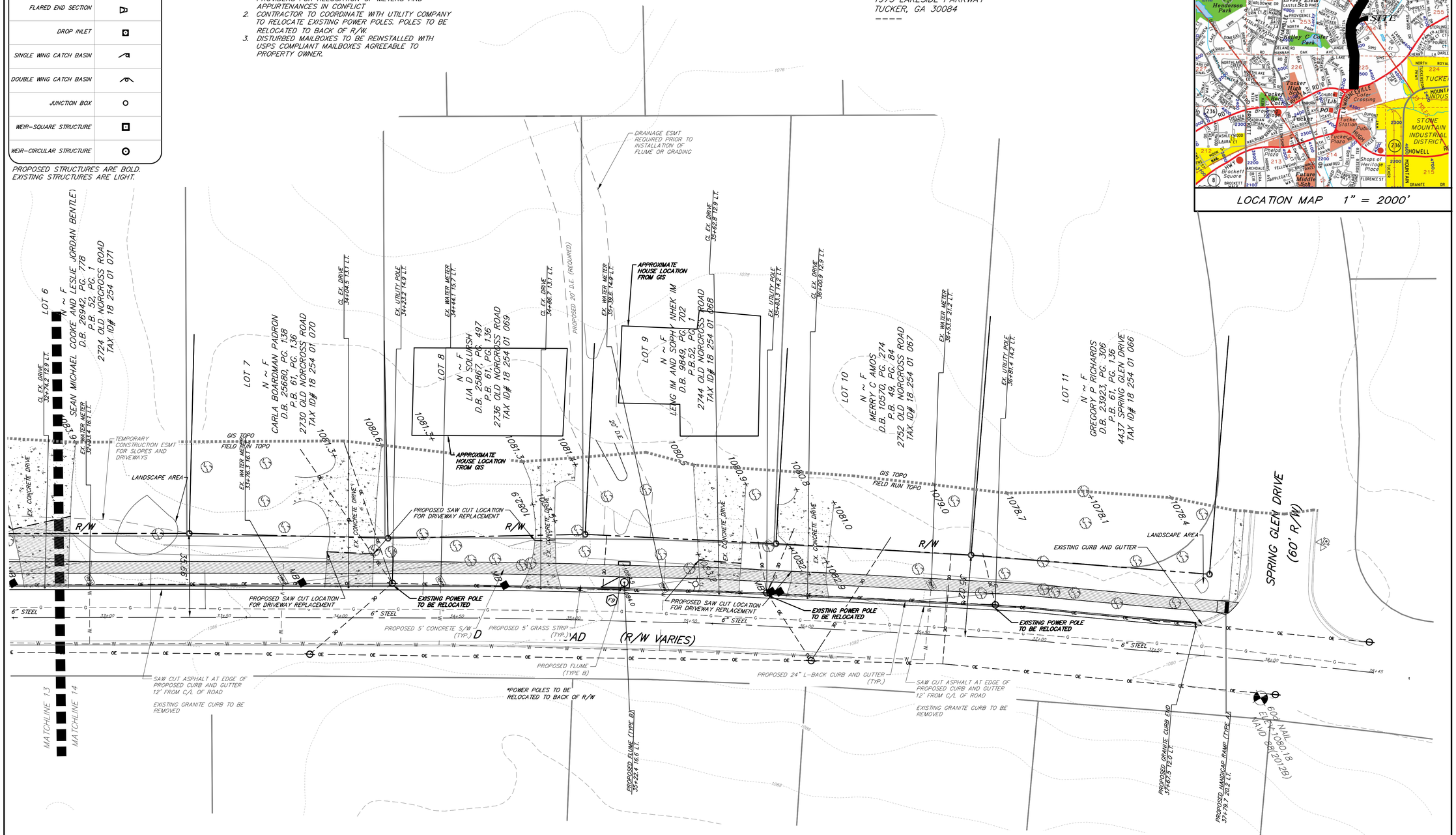
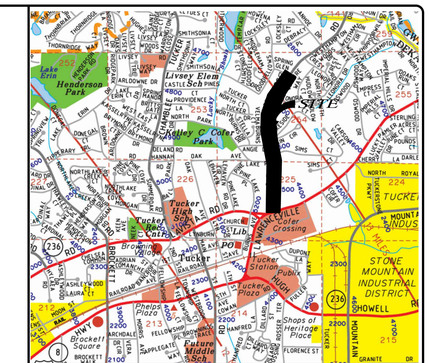
OWNER/DEVELOPER:
THE CITY OF TUCKER
1975 LAKESIDE PARKWAY
TUCKER, GA 30084





LOCATION MAP 1" = 2000'

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OLD NORCROSS ROAD
SIDEWALK IMPROVEMENTS
LAND LOTS 225 AND 254, 18TH DISTRICT,
CITY OF TUCKER, DEKALB COUNTY, GEORGIA
ZONED R3

NOT ISSUED FOR CONSTRUCTION

REVISIONS

REV.	DATE	REVISION REFERENCE:

SHEET TITLE
SITE PLAN (8 OF 8)

SEAL
GEORGIA PROFESSIONAL ENGINEER 23346 DAVID F. MASSEY

PROJECT I.D.	FIELD BOOK

DRAWN BY DAW	CHECKED BY DFM
SCALE 1"=20'	ISSUE DATE 05.05.2021

SHEET NUMBER
17

24 HR. PHONE & EMERGENCY CONTACT:
KEN HILDEBRANDT
770-865-5645

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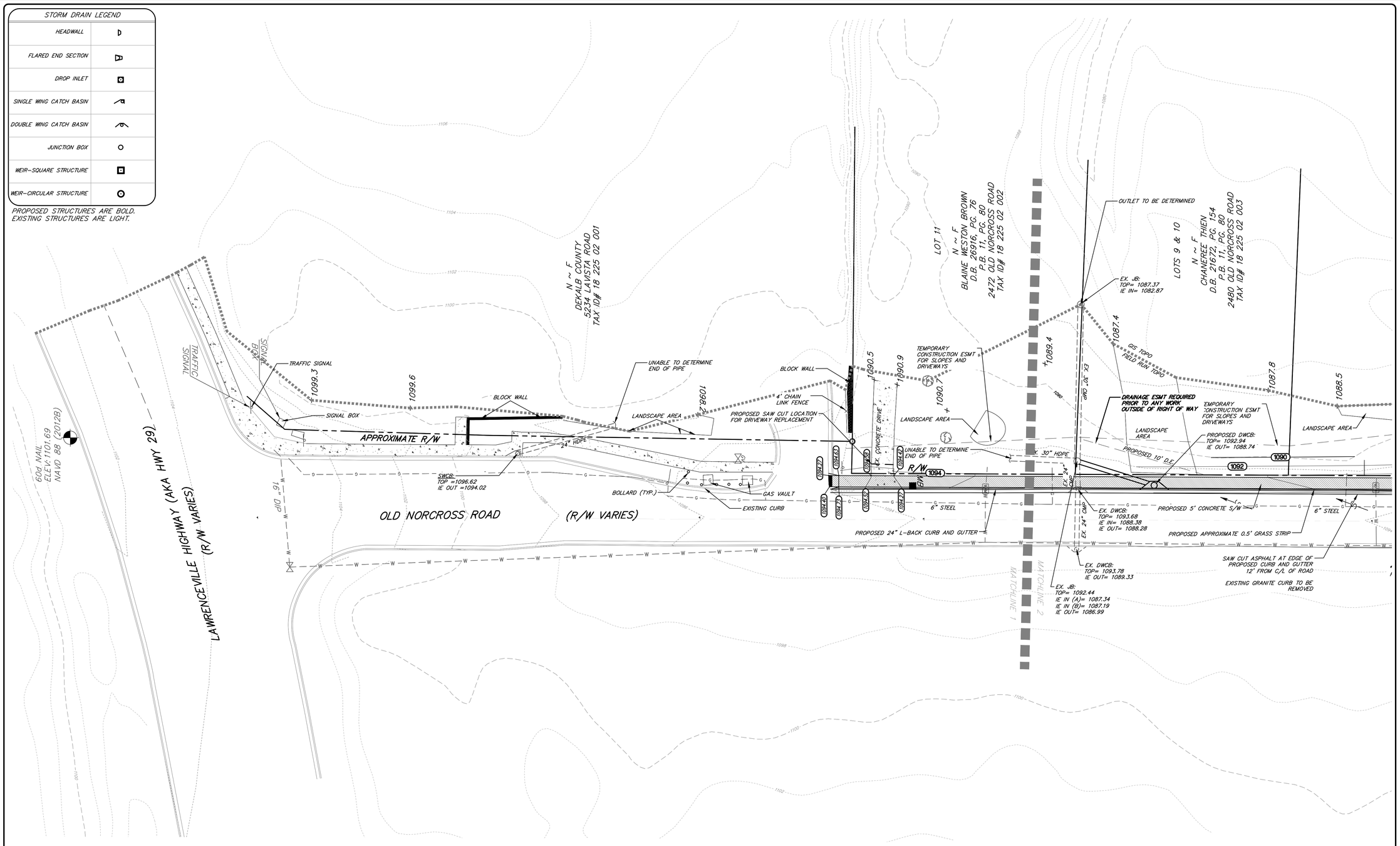
BENCHMARK: 60D NAIL
ELEV.= 1099.16
NAVD 88 (2012B)
SOUTH SIDE OF OLD NORCROSS ROAD
ACROSS FROM 2512 OLD NORCROSS ROAD

Plotted By: dwilburn Drawing name: P:\City of Tucker\Old Norcross Road Sidewalk Improvement\ENGINEERING\Submit\OLD NORCROSS - PRELM.dwg Plotted on: May 03, 2021 - 7:23am

STORM DRAIN LEGEND	
HEADWALL	
FLARED END SECTION	
DROP INLET	
SINGLE WING CATCH BASIN	
DOUBLE WING CATCH BASIN	
JUNCTION BOX	
WEIR-SQUARE STRUCTURE	
WEIR-CIRCULAR STRUCTURE	

PROPOSED STRUCTURES ARE BOLD.
EXISTING STRUCTURES ARE LIGHT.



24 HR. PHONE & EMERGENCY CONTACT:
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770-865-5645

20 0 20 40
SCALE IN FEET

GRID NORTH
GA. WEST ZONE

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BENCHMARK: 60D NAIL
ELEV.= 1099.16
NAVD 88 (2012B)
SOUTH SIDE OF OLD NORCROSS ROAD
ACROSS FROM 2512 OLD NORCROSS ROAD

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OLD NORCROSS ROAD
SIDEWALK IMPROVEMENTS
LAND LOTS 225 AND 254, 18TH DISTRICT,
CITY OF TUCKER, DEKALB COUNTY, GEORGIA
ZONED R3

NOT ISSUED FOR CONSTRUCTION

REVISIONS

REV.	DATE	REVISION REFERENCE:

SHEET TITLE
GRADING AND DRAINAGE PLAN (1 OF 8)

SEAL

PROJECT I.D.	FIELD BOOK

DRAWN BY	CHECKED BY
DAW	DFM
SCALE	ISSUE DATE
1"=20'	05.05.2021

SHEET NUMBER
18

Plotted By: cwilburn Drawing name: P:\City of Tucker\Old Norcross Road Sidewalk Improvement\ENGINEERING\Submit\OLD NORCROSS - UTILITY.dwg Plotted on: May 10, 2021 - 3:45pm

STORM DRAIN LEGEND	
HEADWALL	
FLARED END SECTION	
DROP INLET	
SINGLE WING CATCH BASIN	
DOUBLE WING CATCH BASIN	
JUNCTION BOX	
WEIR-SQUARE STRUCTURE	
WEIR-CIRCULAR STRUCTURE	

PROPOSED STRUCTURES ARE BOLD.
EXISTING STRUCTURES ARE LIGHT.

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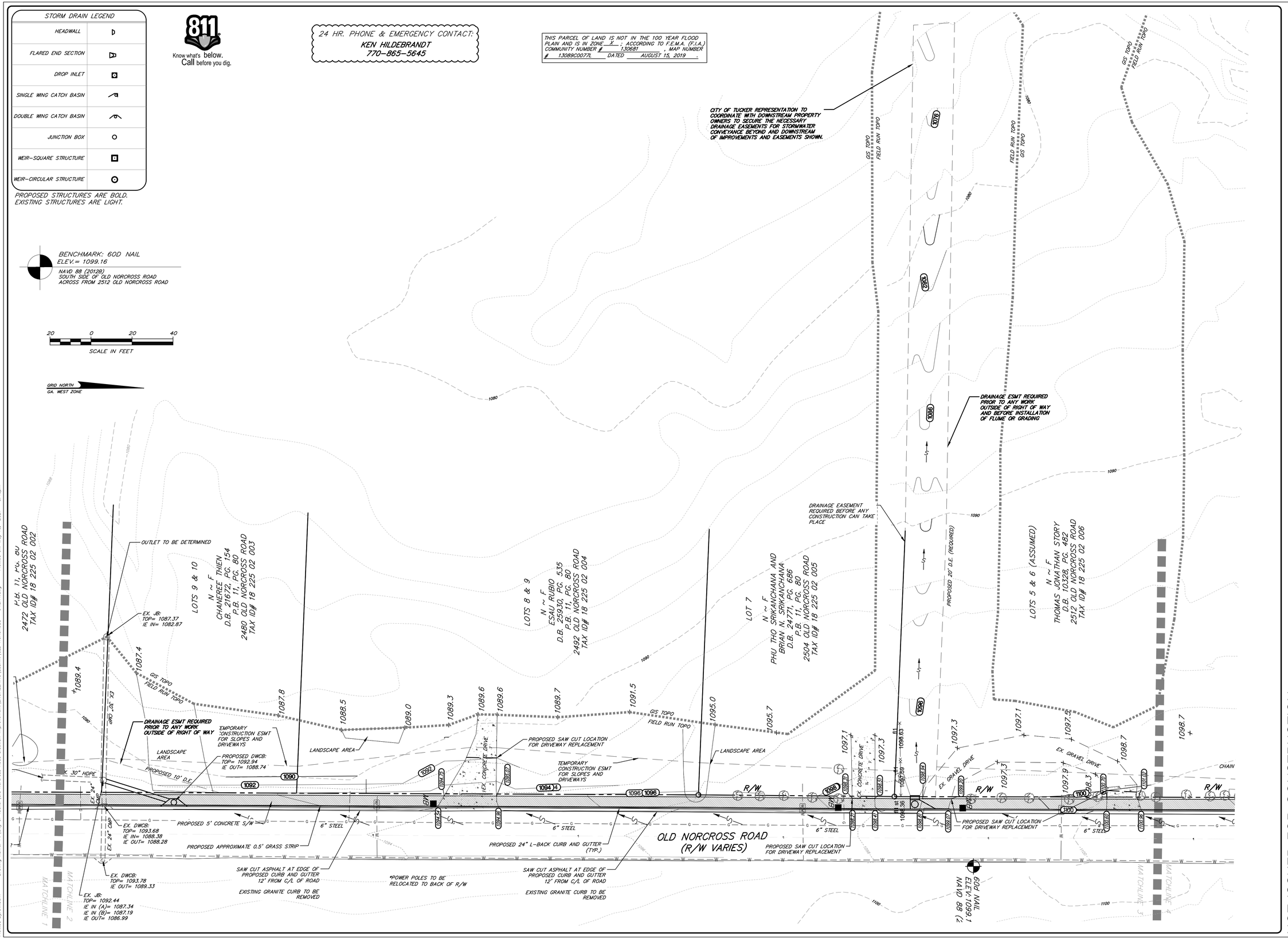
BENCHMARK: 60D NAIL
ELEV.= 1099.16
NAVD 88 (2012B)
SOUTH SIDE OF OLD NORCROSS ROAD
ACROSS FROM 2512 OLD NORCROSS ROAD

20 0 20 40
SCALE IN FEET

GRID NORTH
GA. WEST ZONE



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OLD NORCROSS ROAD
SIDEWALK IMPROVEMENTS
LAND LOTS 225 AND 254, 18TH DISTRICT,
CITY OF TUCKER, DEKALB COUNTY, GEORGIA
ZONED R3

NOT ISSUED FOR CONSTRUCTION

REVISIONS		
REV.	DATE	REVISION REFERENCE:

SHEET TITLE
GRADING AND DRAINAGE PLAN (2 OF 8)

SEAL

PROJECT I.D.	FIELD BOOK

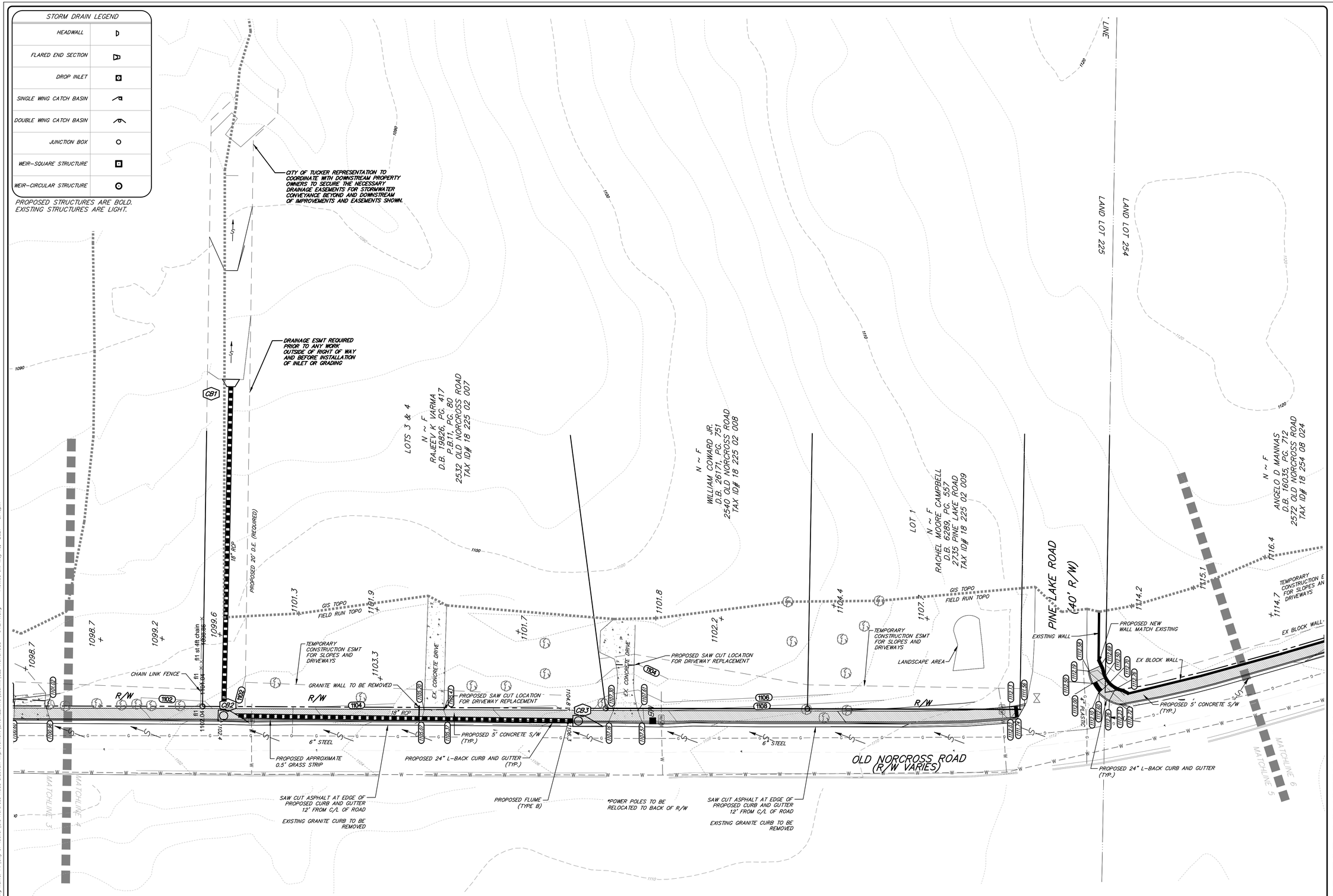
DRAWN BY DAW	CHECKED BY DFM
SCALE 1"=20'	ISSUE DATE 05.05.2021

SHEET NUMBER
19

Plotted By: daWburn Drawing name: P:\City of Tucker\Old Norcross Road Sidewalk Improvement\ENGINEERING\Submit\OLD NORCROSS - UTILITY.dwg Plotted on: May 10, 2021 - 3:45pm

STORM DRAIN LEGEND	
HEADWALL	
FLARED END SECTION	
DROP INLET	
SINGLE WING CATCH BASIN	
DOUBLE WING CATCH BASIN	
JUNCTION BOX	
WEIR-SQUARE STRUCTURE	
WEIR-CIRCULAR STRUCTURE	

PROPOSED STRUCTURES ARE BOLD.
EXISTING STRUCTURES ARE LIGHT.



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BENCHMARK: 60D NAIL
ELEV.= 1099.16
NAVD 88 (2012B)
SOUTH SIDE OF OLD NORCROSS ROAD ACROSS FROM 2512 OLD NORCROSS ROAD

24 HR. PHONE & EMERGENCY CONTACT:
KEN HILDEBRANDT
770-865-5645

20 0 20 40
SCALE IN FEET

GRID NORTH
GA. WEST ZONE

NOT ISSUED FOR CONSTRUCTION

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OLD NORCROSS ROAD
SIDEWALK IMPROVEMENTS

LAND LOTS 225 AND 254, 18TH DISTRICT,
CITY OF TUCKER, DEKALB COUNTY, GEORGIA
ZONED R3

REVISIONS

REV.	DATE	REVISION REFERENCE:

SHEET TITLE
GRADING AND DRAINAGE PLAN (3 OF 8)

SEAL

PROJECT I.D.	FIELD BOOK

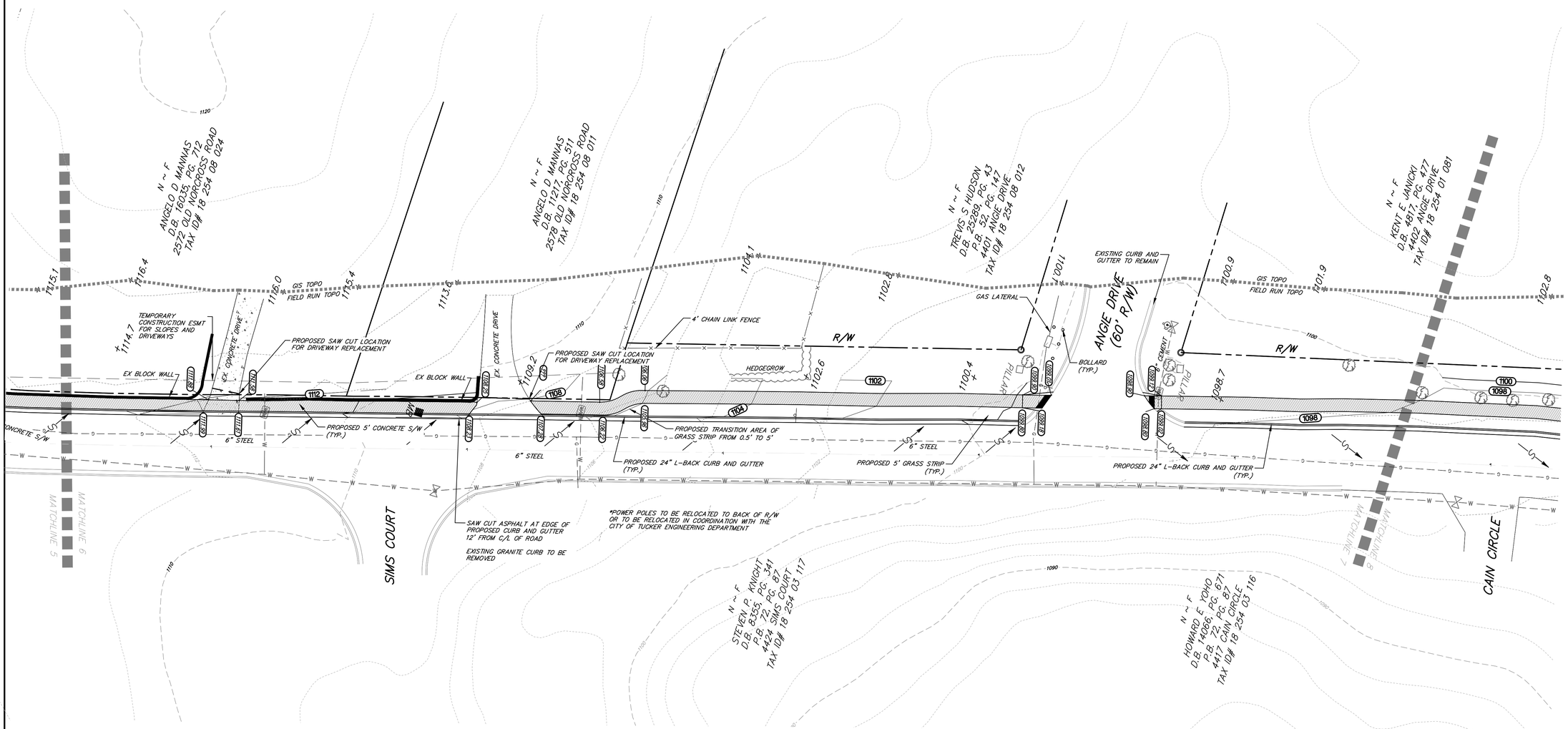
DRAWN BY	CHECKED BY
DAW	DFM
SCALE	ISSUE DATE
1"=20'	05.05.2021

SHEET NUMBER
20

Plotted By: dwilburn Drawing name: P:\City of Tucker\Old Norcross Road Sidewalk Improvement\ENGINEERING\Submit\OLD NORCROSS - UTILITY.dwg Plotted on: May 10, 2021 - 3:45pm

STORM DRAIN LEGEND	
HEADWALL	
FLARED END SECTION	
DROP INLET	
SINGLE WING CATCH BASIN	
DOUBLE WING CATCH BASIN	
JUNCTION BOX	
WEIR-SQUARE STRUCTURE	
WEIR-CIRCULAR STRUCTURE	

PROPOSED STRUCTURES ARE BOLD.
EXISTING STRUCTURES ARE LIGHT.



24 HR. PHONE & EMERGENCY CONTACT:
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770-865-5645

20 0 20 40
SCALE IN FEET

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BENCHMARK: 60D NAIL
ELEV.= 1099.16
NAVD 88 (2012B)
SOUTH SIDE OF OLD NORCROSS ROAD
ACROSS FROM 2312 OLD NORCROSS ROAD

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OLD NORCROSS ROAD
SIDEWALK IMPROVEMENTS
LAND LOTS 225 AND 254, 18TH DISTRICT,
CITY OF TUCKER, DEKALB COUNTY, GEORGIA
ZONED R3

NOT ISSUED FOR CONSTRUCTION

REVISIONS

REV.	DATE	REVISION REFERENCE:

SHEET TITLE
GRADING AND DRAINAGE PLAN (4 OF 8)

SEAL

PROJECT I.D.	FIELD BOOK

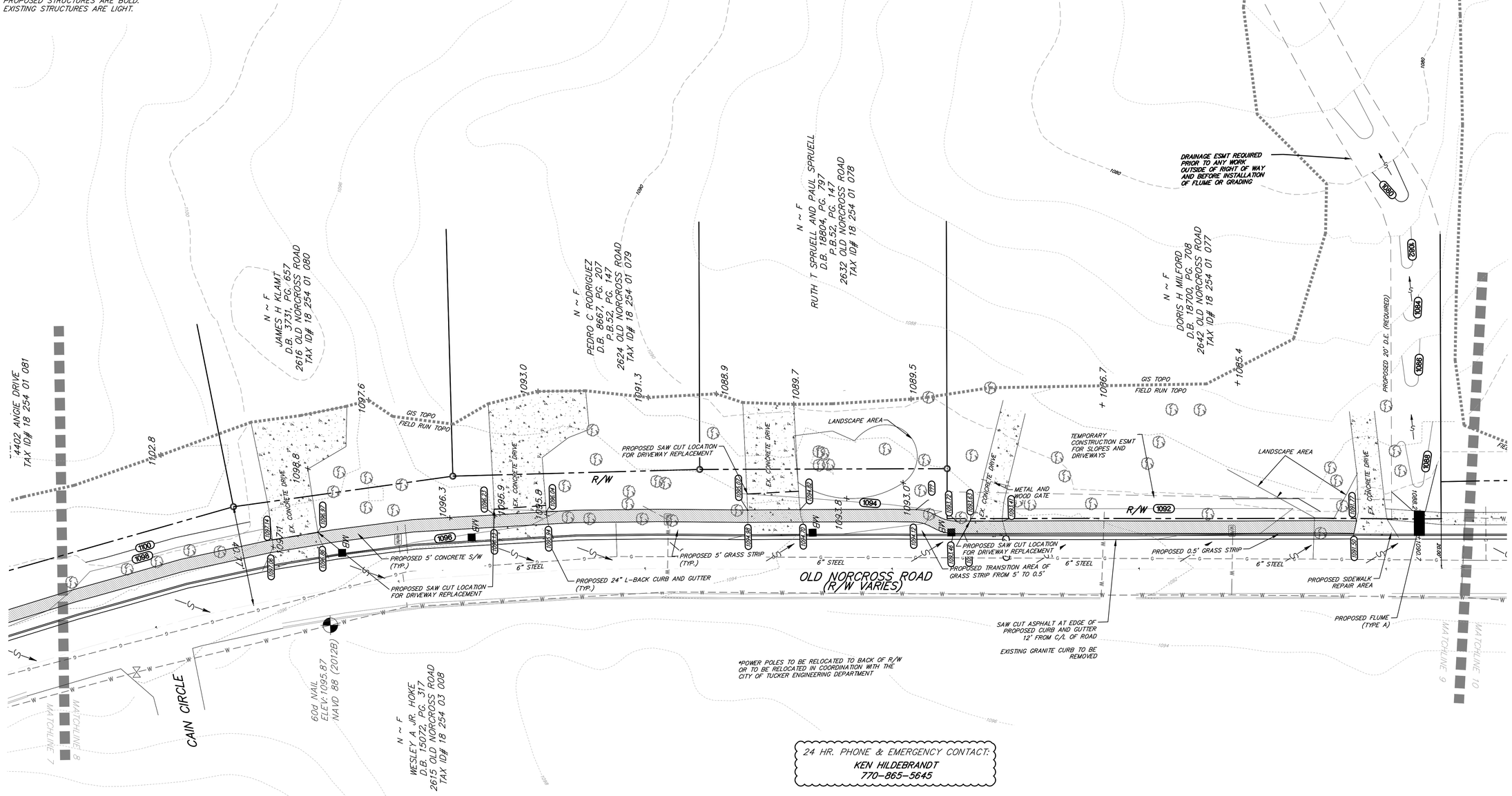
DRAWN BY DAW	CHECKED BY DFM
SCALE 1"=20'	ISSUE DATE 05.05.2021

SHEET NUMBER
21

Plotted By: dwilburn Drawing name: P:\City of Tucker\Old Norcross Road Sidewalk Improvement\ENGINEERING\Submit\OLD NORCROSS - UTILITY.dwg Plotted on: May 13, 2021 - 3:45pm

STORM DRAIN LEGEND	
HEADWALL	
FLARED END SECTION	
DROP INLET	
SINGLE WING CATCH BASIN	
DOUBLE WING CATCH BASIN	
JUNCTION BOX	
WEIR-SQUARE STRUCTURE	
WEIR-CIRCULAR STRUCTURE	

PROPOSED STRUCTURES ARE BOLD.
EXISTING STRUCTURES ARE LIGHT.



24 HR. PHONE & EMERGENCY CONTACT:
KEN HILDEBRANDT
770-865-5645

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BENCHMARK: 60D NAIL
ELEV.= 1099.16
NAVD 88 (2012B)
SOUTH SIDE OF OLD NORCROSS ROAD
ACROSS FROM 2512 OLD NORCROSS ROAD

20 0 20 40
SCALE IN FEET

GRID NORTH
GA. WEST ZONE

NOT ISSUED FOR CONSTRUCTION

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OLD NORCROSS ROAD
SIDEWALK IMPROVEMENTS

LAND LOTS 225 AND 254, 18TH DISTRICT,
CITY OF TUCKER, DEKALB COUNTY, GEORGIA
ZONED R3

REVISIONS

REV.	DATE	REVISION REFERENCE:

SHEET TITLE
GRADING AND DRAINAGE PLAN (5 OF 8)

SEAL

PROJECT I.D.	FIELD BOOK

DRAWN BY DAW	CHECKED BY DFM
SCALE 1"=20'	ISSUE DATE 05.05.2021

SHEET NUMBER
22

Plotted By: dwilburn Drawing name: P:\City of Tucker\Old Norcross Road Sidewalk Improvement\ENGINEERING\Submit\OLD NORCROSS - UTILITY.dwg Plotted on: May 13, 2021 - 3:46pm

STORM DRAIN LEGEND	
HEADWALL	
FLARED END SECTION	
DROP INLET	
SINGLE WING CATCH BASIN	
DOUBLE WING CATCH BASIN	
JUNCTION BOX	
WEIR-SQUARE STRUCTURE	
WEIR-CIRCULAR STRUCTURE	

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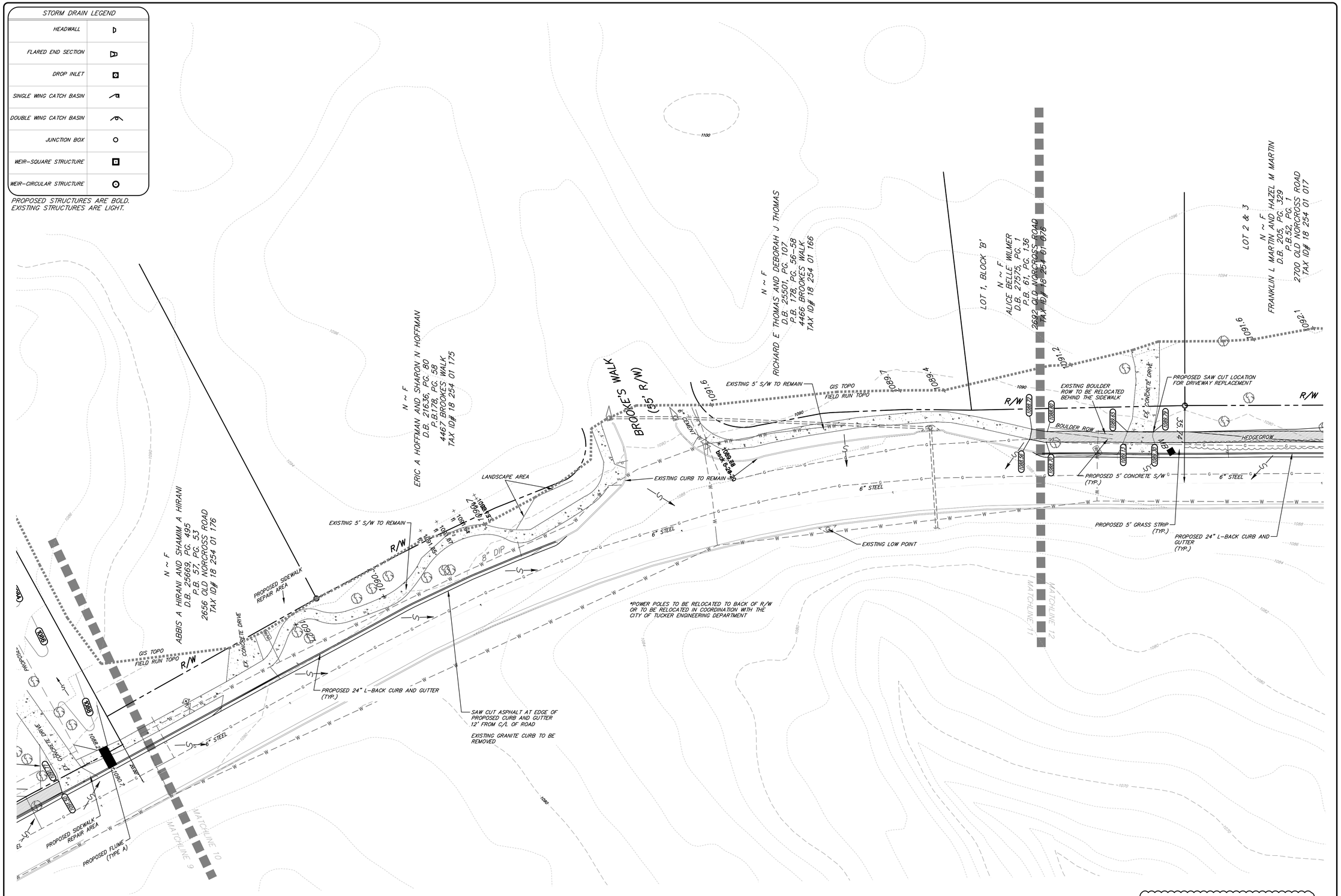

Know what's below. Call before you dig.

THIS PARCEL OF LAND IS NOT IN THE 100 YEAR FLOOD PLAIN AND IS IN ZONE X ; ACCORDING TO F.E.M.A. (F.I.A.) COMMUNITY NUMBER # 130681 , MAP NUMBER # 13089C0077L DATED AUGUST 15, 2019 .

BENCHMARK: 60D NAIL
ELEV.= 1099.16
NAVD 88 (2012B)
SOUTH SIDE OF OLD NORCROSS ROAD
ACROSS FROM 2512 OLD NORCROSS ROAD

20 0 20 40
SCALE IN FEET

GRID NORTH
GA. WEST ZONE

24 HR. PHONE & EMERGENCY CONTACT:
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770-865-5645

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OLD NORCROSS ROAD
SIDEWALK IMPROVEMENTS

LAND LOTS 225 AND 254, 18TH DISTRICT,
CITY OF TUCKER, DEKALB COUNTY, GEORGIA
ZONED R3

NOT ISSUED FOR CONSTRUCTION

REVISIONS

REV.	DATE	REVISION REFERENCE:

SHEET TITLE
GRADING AND DRAINAGE PLAN (6 OF 8)

SEAL

PROJECT I.D.	FIELD BOOK

DRAWN BY: DAW	CHECKED BY: DFM
SCALE: 1"=20'	ISSUE DATE: 05.05.2021

SHEET NUMBER
23

Plotted By:cwilburn Drawing name: P:\City of Tucker\Old Norcross Road Sidewalk Improvement\ENGINEERING\Submit\OLD NORCROSS - UTILITY.dwg Plotted on: May 10, 2021 - 3:46pm

STORM DRAIN LEGEND	
HEADWALL	
FLARED END SECTION	
DROP INLET	
SINGLE WING CATCH BASIN	
DOUBLE WING CATCH BASIN	
JUNCTION BOX	
WEIR-SQUARE STRUCTURE	
WEIR-CIRCULAR STRUCTURE	

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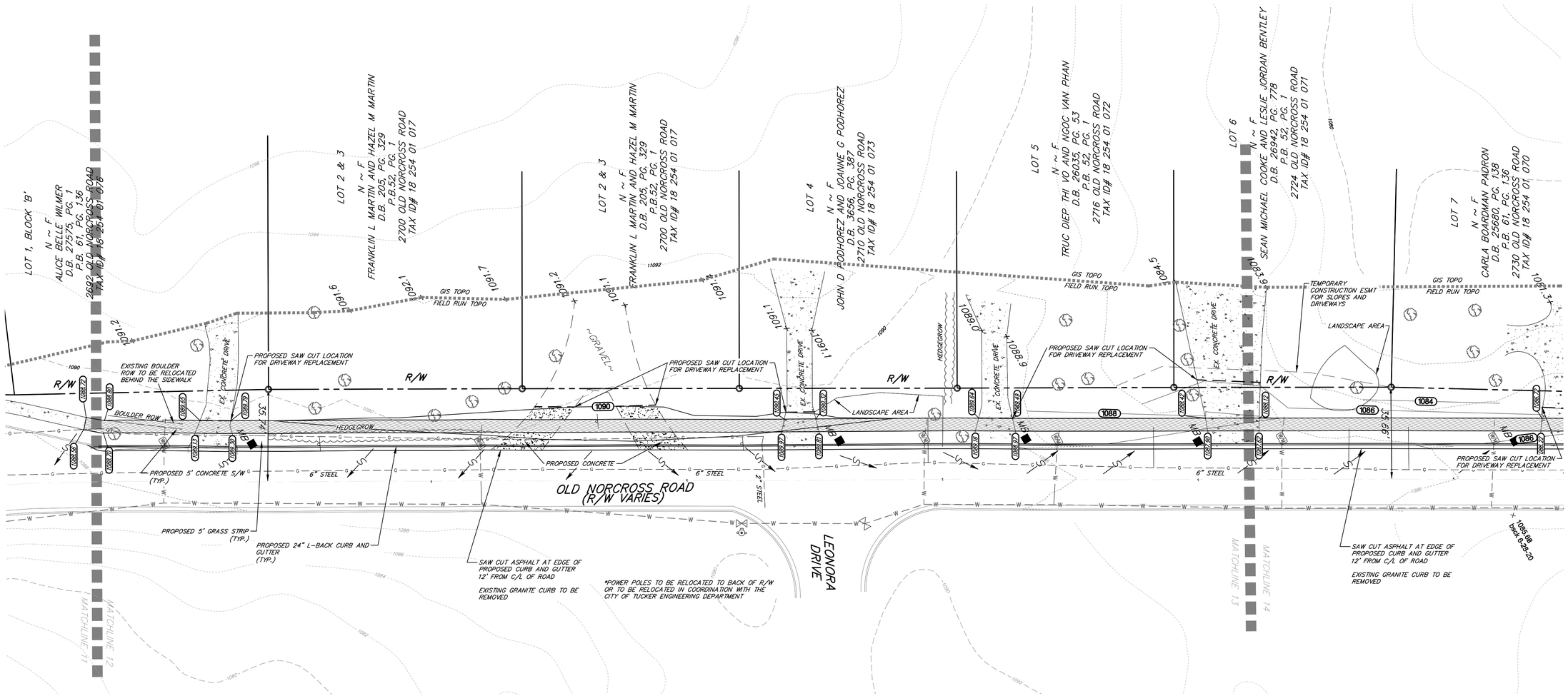
EXISTING STRUCTURES ARE LIGHT.



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BENCHMARK: 60D NAIL
ELEV.= 1099.16
NAVD 88 (2012B)
SOUTH SIDE OF OLD NORCROSS ROAD
ACROSS FROM 2912 OLD NORCROSS ROAD

20 0 20 40
SCALE IN FEET

GRID NORTH
GA. WEST ZONE

24 HR. PHONE & EMERGENCY CONTACT:
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OLD NORCROSS ROAD
SIDEWALK IMPROVEMENTS

LAND LOTS 225 AND 254, 18TH DISTRICT,
CITY OF TUCKER, DEKALB COUNTY, GEORGIA
ZONED R3

NOT ISSUED FOR CONSTRUCTION

REVISIONS

REV.	DATE	REVISION REFERENCE:

SHEET TITLE
GRADING AND DRAINAGE PLAN (7 OF 8)

SEAL

PROJECT I.D.	FIELD BOOK

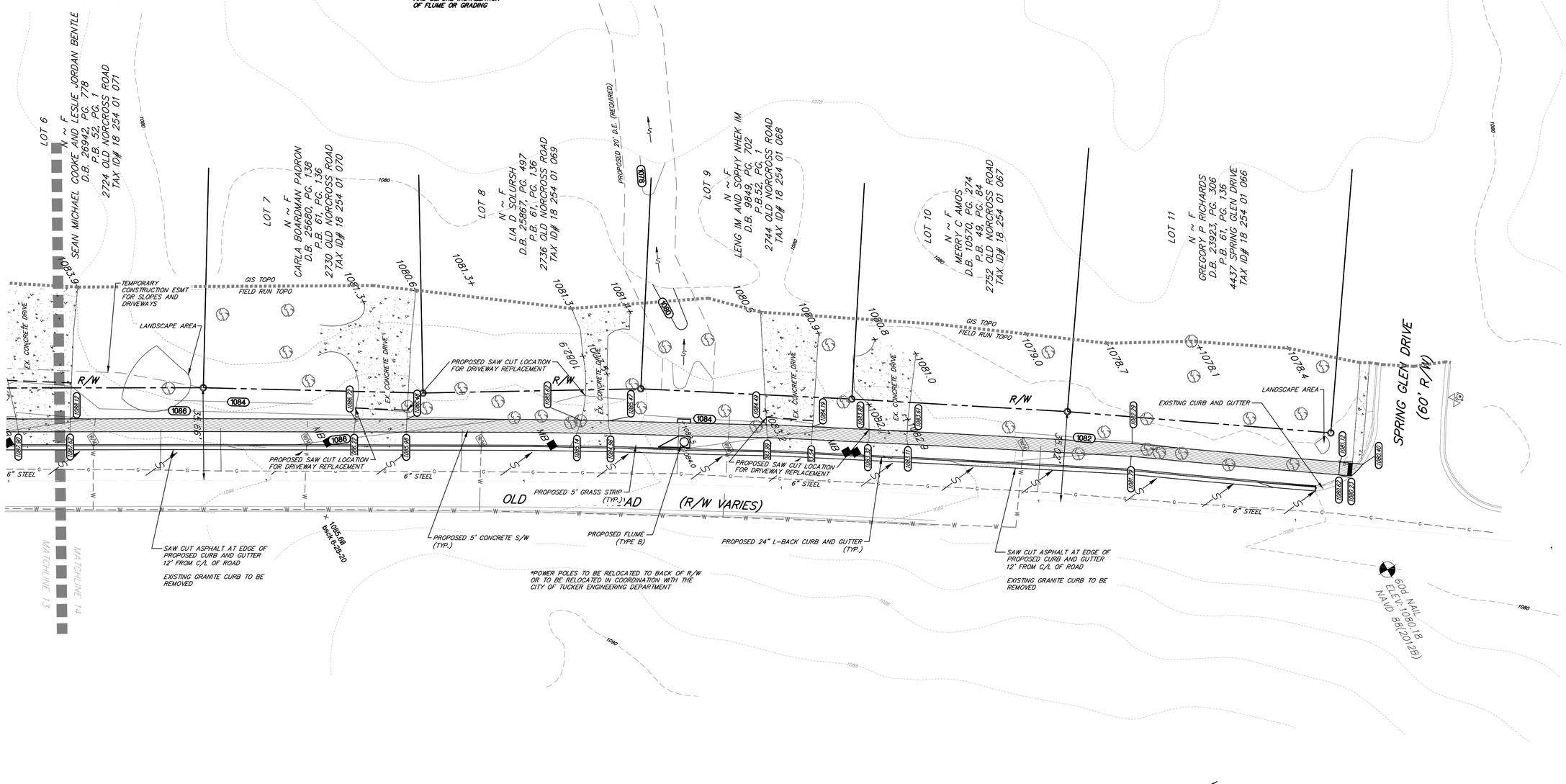
DRAWN BY DAW	CHECKED BY DFM
SCALE 1"=20'	ISSUE DATE 05.05.2021

SHEET NUMBER
24

Plotted By: dwilburn Drawing name: P:\City of Tucker\Old Norcross Road Sidewalk Improvement\ENGINEERING\Submit\OLD NORCROSS - UTILITY.dwg Plotted on: May 10, 2021 - 3:46pm

STORM DRAIN LEGEND	
HEADWALL	
FLARED END SECTION	
DROP INLET	
SINGLE WING CATCH BASIN	
DOUBLE WING CATCH BASIN	
JUNCTION BOX	
WEIR-SQUARE STRUCTURE	
WEIR-CIRCULAR STRUCTURE	

PROPOSED STRUCTURES ARE BOLD.
EXISTING STRUCTURES ARE LIGHT.



20 0 20 40
SCALE IN FEET

GRID NORTH GA. WEST ZONE

24 HR. PHONE & EMERGENCY CONTACT:
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770-865-5645

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BENCHMARK: 60D NAIL
ELEV.= 1099.16
NAVD 88 (2012B)
SOUTH SIDE OF OLD NORCROSS ROAD
ACROSS FROM 2512 OLD NORCROSS ROAD

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OLD NORCROSS ROAD
SIDEWALK IMPROVEMENTS
LAND LOTS 225 AND 254, 18TH DISTRICT,
CITY OF TUCKER, DEKALB COUNTY, GEORGIA
ZONED R3

REVISIONS

REV.	DATE	REVISION REFERENCE:

SHEET TITLE
GRADING AND DRAINAGE PLAN (8 OF 8)

SEAL

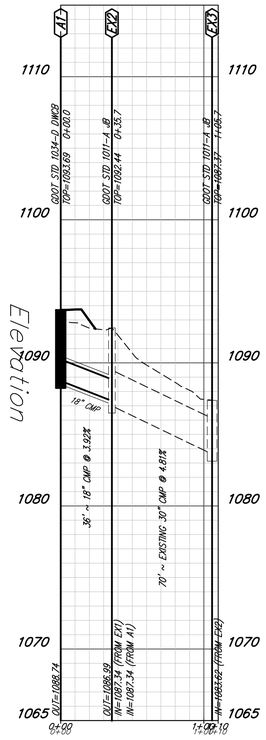
PROJECT I.D.	FIELD BOOK

DRAWN BY: DAW	CHECKED BY: DFM
SCALE: 1"=20'	ISSUE DATE: 05.05.2021

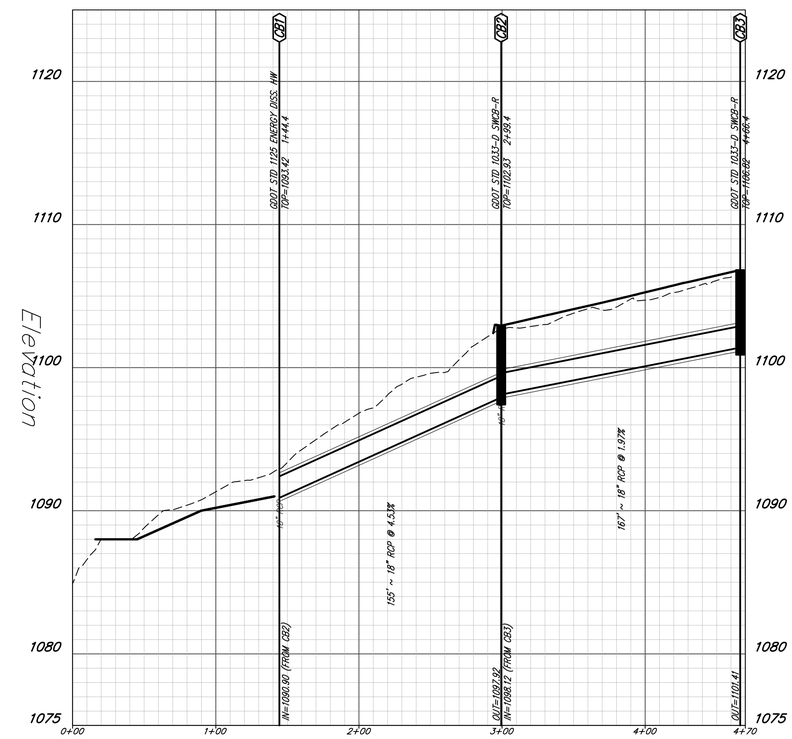
SHEET NUMBER
25

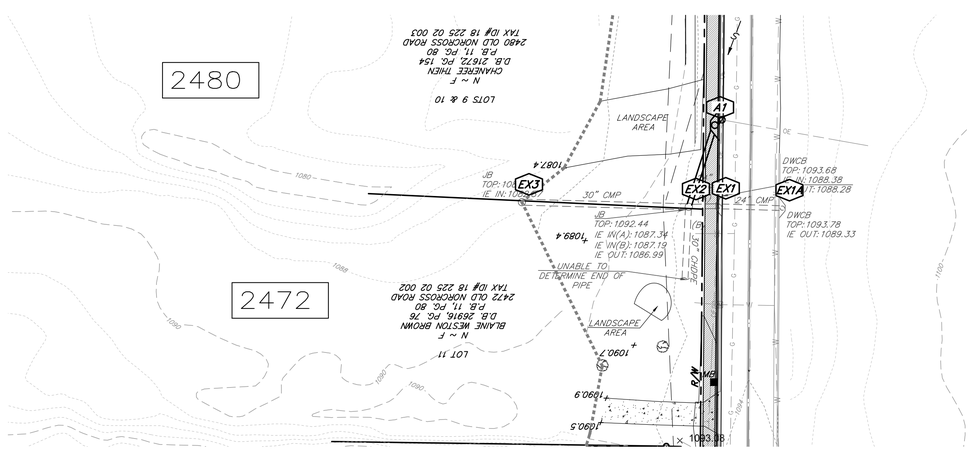
Plotted By: dwilburn Drawing name: P:\City of Tucker\Old Norcross Road Sidewalk improvement\ENGINEERING\Submit\OLD NORCROSS - UTILITY.dwg Plotted on: May 10, 2021 - 3:46pm

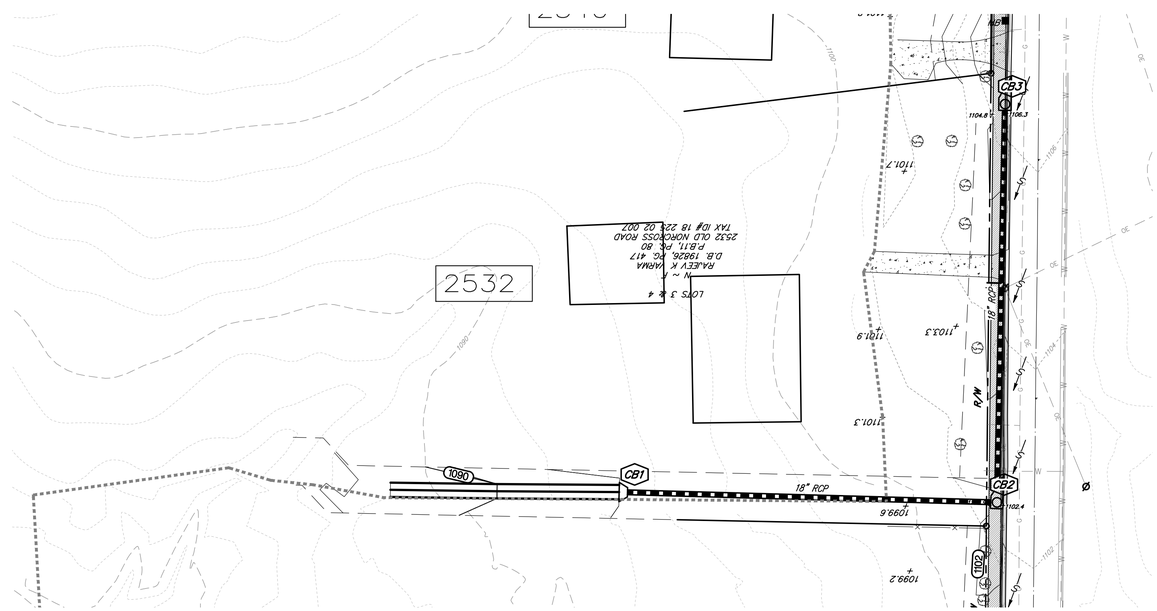
A1



STORM B







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OLD NORCROSS ROAD
SIDEWALK IMPROVEMENTS

LAND LOTS 225 AND 254, 18TH DISTRICT,
CITY OF TUCKER, DEKALB COUNTY, GEORGIA
ZONED R3

NOT ISSUED FOR CONSTRUCTION

REVISIONS

REV.	DATE	REVISION REFERENCE:

SHEET TITLE
STORM PROFILES

SEAL

PROJECT I.D.	FIELD BOOK

DRAWN BY DAW	CHECKED BY DFM
SCALE 1"=30'	ISSUE DATE 05.05.2021

SHEET NUMBER
26

Plotted By: dwilburn Drawing name: P:\City of Tucker\Old Norcross Road Sidewalk Improvement\ENGINEERING\Submit\OLD NORCROSS - PNP.dwg Plotted on: May 13, 2021 - 4:23pm

STORM DRAIN LEGEND

HEADWALL	
FLARED END SECTION	
DROP INLET	
SINGLE WING CATCH BASIN	
DOUBLE WING CATCH BASIN	
JUNCTION BOX	
WEIR-SQUARE STRUCTURE	
WEIR-CIRCULAR STRUCTURE	

PROPOSED STRUCTURES ARE BOLD.
EXISTING STRUCTURES ARE LIGHT.

GENERAL NOTES

1. CONTRACTOR TO COORDINATE WITH UTILITY PROVIDERS FOR RELOCATION OF METERS AND APPURTENANCES IN CONFLICT
2. CONTRACTOR TO COORDINATE WITH UTILITY COMPANY TO RELOCATE EXISTING POWER POLES. POLES TO BE RELOCATED TO BACK OF R/W.

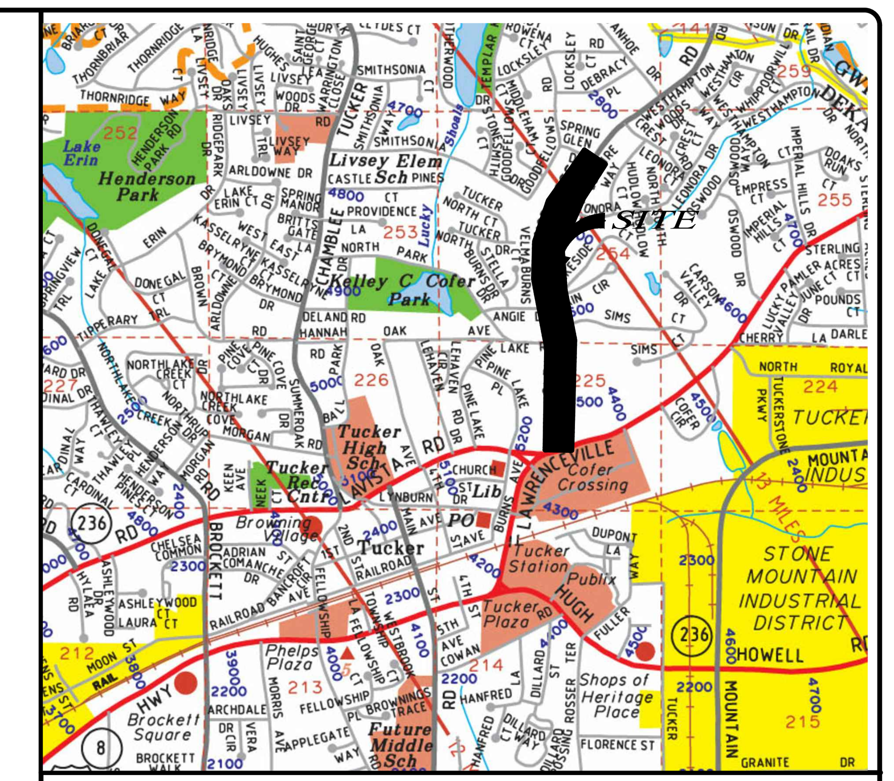
OWNER/DEVELOPER:
THE CITY OF TUCKER
1975 LAKESIDE PARKWAY
TUCKER, GA 30084

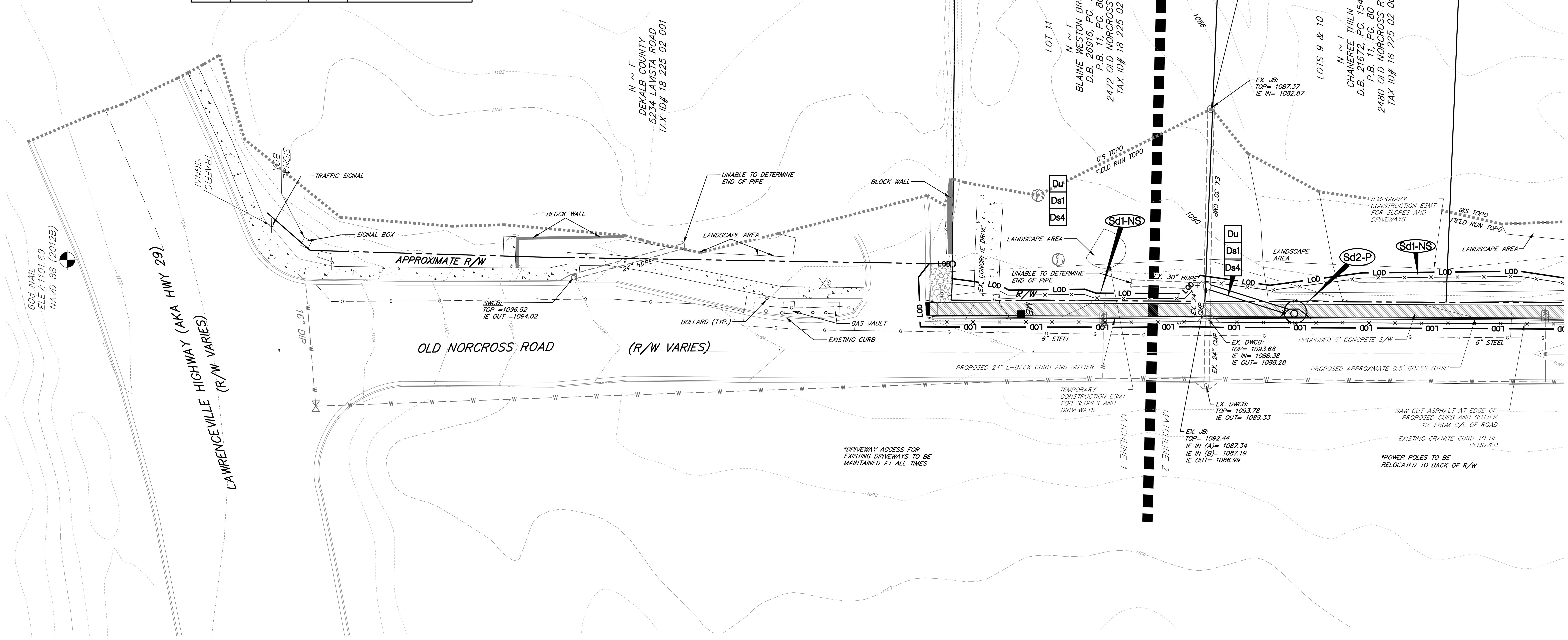
STRUCTURAL PRACTICES

CODE	DETAIL	MAP SYMBOL	DESCRIPTION
Co CONSTRUCTION EXIT		Co	A crushed stone pad located at the construction site exit to provide a place for removing mud from tires thereby protecting public streets.
Di DIVERSION			An earth channel or dike located above, below, or across a slope to divert runoff. This may be a temporary or permanent structure.
Sd1-NS SEDIMENT BARRIER		S OR NS (INDICATE TYPE)	A barrier to prevent sediment from leaving the construction site. It may be sandbags, bales of straw or hay, brush, logs and poles, gravel, or a silt fence.
Sd2 INLET SEDIMENT TRAP			An impounding area created by excavating around a storm drain drop inlet. The excavated area will be filled and stabilized on completion of construction activities.
Sd4 TEMPORARY SEDIMENT TRAP			A small temporary pond that drainss a disturbed area so that sediment can settle out. The principle feature distinguishing a temporary sediment trap from a temporary sediment basin is the lack of a pipe or riser.
Su SURFACE ROUGHENING		Su	A rough soil surface with horizontal depressions on a contour or slopes left in a roughened condition after grading.

VEGETATIVE PRACTICES

CODE	DETAIL	MAP SYMBOL	DESCRIPTION
Ds1 DISTURBED AREA STABILIZATION (WITH MULCHING ONLY)		Ds1	Establishing a temporary protection for disturbed areas where seedings may not have a suitable growing season to produce an erosion retarding cover.
Ds2 DISTURBED AREA STABILIZATION (WITH TEMPORARY SEEDING)		Ds2	Establishing a temporary vegetative cover with fast growing seedings on disturbed areas.
Ds3 DISTURBED AREA STABILIZATION (WITH PERMANENT VEGETATION)		Ds3	Establishing a permanent vegetative cover sush as trees, shrubs, vines, grasses, sod, or legumes on disturbed areas.
Ds4 DISTURBED AREA STABILIZATION (WITH SODDING)		Ds4	A permanent vegetative cover using sod on highly erodible or critically eroded lands.
Du DUST CONTROL ON DISTURBED AREAS		Du	Controlling surface and air movement of dust on construction site, roadways and similar sites.
Ss EROSION CONTROL MATTING AND BLANKETS		Ss	The installation of a protective covering (blanket) or soil stabilization mat on a prepared planting area of a steep slope, channel, or shoreline.





24 HR. PHONE & EMERGENCY CONTACT:
KEN HILDEBRANDT
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SCALE IN FEET: 20 0 20 40

GRID NORTH
GA. WEST ZONE

BENCHMARK: 60D NAIL
ELEV.= 1099.16
NAVD 88 (2012B)
SOUTH SIDE OF OLD NORCROSS ROAD
ACROSS FROM 2512 OLD NORCROSS ROAD

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OLD NORCROSS ROAD
SIDEWALK IMPROVEMENTS
LAND LOTS 225 AND 254, 18TH DISTRICT, CITY OF TUCKER, DEKALB COUNTY, GEORGIA
ZONED R3

REVISIONS

REV.	DATE	REVISION REFERENCE:

SHEET TITLE
EROSION CONTROL PLAN (1 OF 8)

SEAL
GEORGIA PROFESSIONAL ENGINEER 23346 DAVID F. MASSEY

PROJECT I.D.	FIELD BOOK

DRAWN BY	CHECKED BY
DAW	DFM
SCALE	ISSUE DATE
1"=20'	05.05.2021

SHEET NUMBER
27

NOT ISSUED FOR CONSTRUCTION

Plotted by: dwilburn   Drawing name: P:\City of Tucker\Old Norcross Road Sidewalk Improvement\ENGINEERING\Submit\OLD NORCROSS - EROSE.dwg   Plotted on: May 10, 2021 - 3:47pm

STORM DRAIN LEGEND	
HEADWALL	
FLARED END SECTION	
DROP INLET	
SINGLE WING CATCH BASIN	
DOUBLE WING CATCH BASIN	
JUNCTION BOX	
WEIR-SQUARE STRUCTURE	
WEIR-CIRCULAR STRUCTURE	

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Ds3 DISTURBED AREA STABILIZATION (WITH PERMANENT VEGETATION)		Ds3	Establishing a permanent vegetative cover sush as trees, shrubs, vines, grasses, sod, or legumes on disturbed areas.
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OWNER/DEVELOPER:
THE CITY OF TUCKER
1975 LAKESIDE PARKWAY
TUCKER, GA 30084
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BENCHMARK: 60D NAIL
ELEV.= 1099.16
NAVD 88 (2012B)
SOUTH SIDE OF OLD NORCROSS ROAD
ACROSS FROM 2512 OLD NORCROSS ROAD

20 0 20 40
SCALE IN FEET

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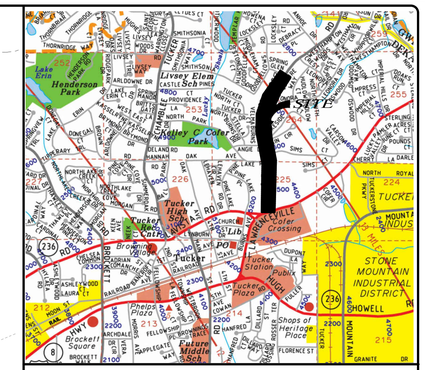
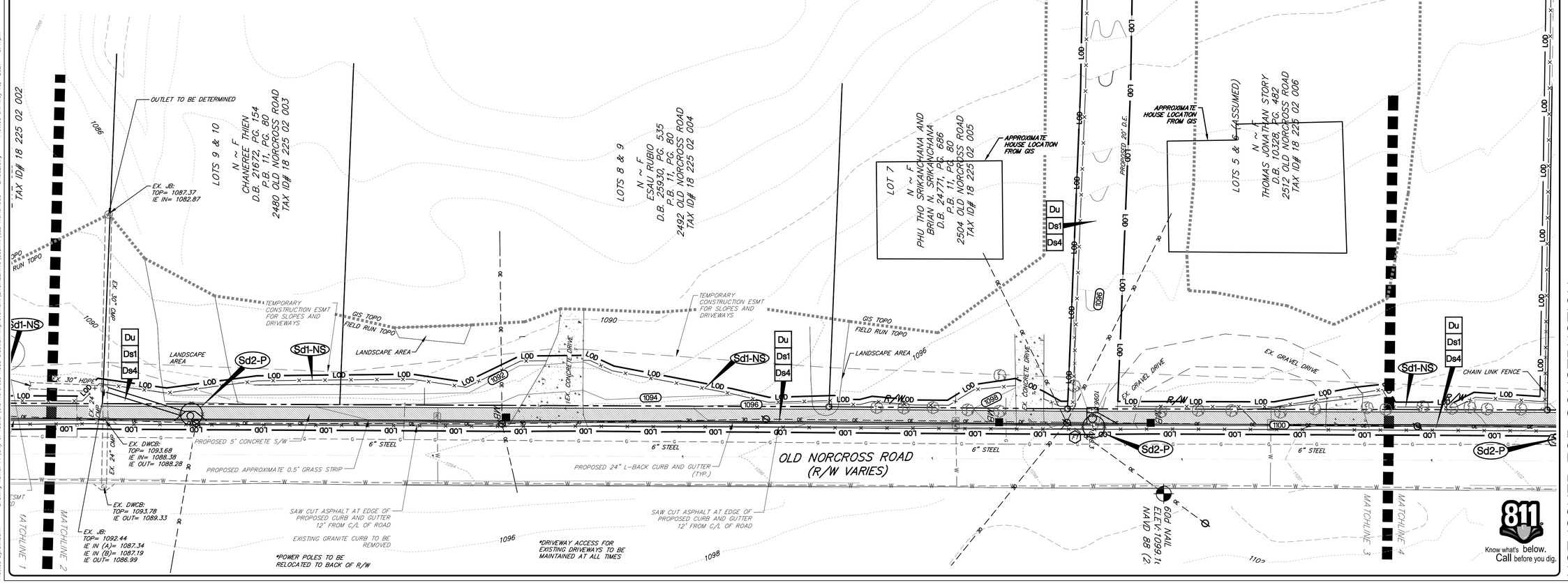
24 HR. PHONE & EMERGENCY CONTACT:
KEN HILDEBRANDT
770-865-5645

GRID NORTH
GA. WEST ZONE



LOCATION MAP 1" = 2000'



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OLD NORCROSS ROAD
SIDEWALK IMPROVEMENTS
LAND LOTS 225 AND 254, 18TH DISTRICT,
CITY OF TUCKER, DEKALB COUNTY, GEORGIA
ZONED R3

REVISIONS

REV.	DATE	REVISION REFERENCE:

SHEET TITLE
EROSION CONTROL PLAN (2 OF 8)

SEAL
GEORGIA PROFESSIONAL ENGINEER 23346 DAVID F. MASSEY

PROJECT I.D.	FIELD BOOK

DRAWN BY DAW	CHECKED BY DFM
SCALE 1"=20'	ISSUE DATE 05.05.2021

SHEET NUMBER
28

Plotted By: dwilburn Drawing name: P:\City of Tucker\Old Norcross Road Sidewalk Improvement\ENGINEERING\Submit1\OLD NORCROSS - EROSE.dwg Plotted on: May 10, 2021 - 3:47pm

STORM DRAIN LEGEND	
HEADWALL	
FLARED END SECTION	
DROP INLET	
SINGLE WING CATCH BASIN	
DOUBLE WING CATCH BASIN	
JUNCTION BOX	
WEIR-SQUARE STRUCTURE	
WEIR-CIRCULAR STRUCTURE	

PROPOSED STRUCTURES ARE BOLD.
EXISTING STRUCTURES ARE LIGHT.

GENERAL NOTES

1. CONTRACTOR TO COORDINATE WITH UTILITY PROVIDERS FOR RELOCATION OF METERS AND APPURTENANCES IN CONFLICT
2. CONTRACTOR TO COORDINATE WITH UTILITY COMPANY TO RELOCATE EXISTING POWER POLES. POLES TO BE RELOCATED TO BACK OF R/W.

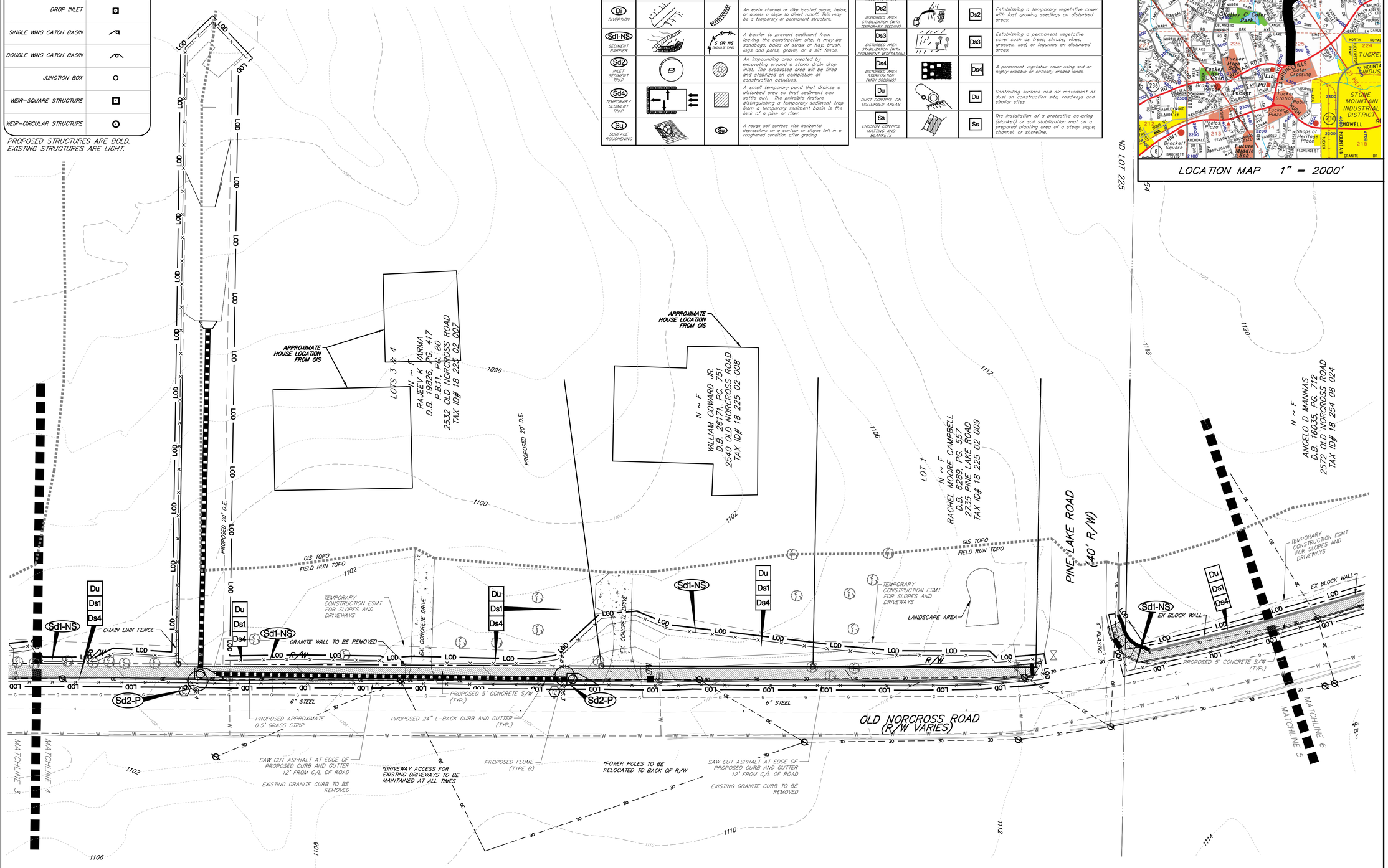
OWNER/DEVELOPER:
THE CITY OF TUCKER
1975 LAKESIDE PARKWAY
TUCKER, GA 30084

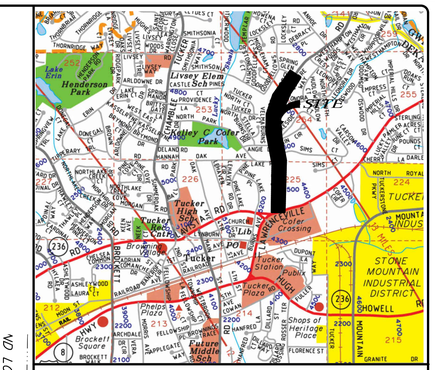
STRUCTURAL PRACTICES

CODE	DETAIL	MAP SYMBOL	DESCRIPTION
Co CONSTRUCTION EXIT		Co	A crushed stone pad located at the construction site exit to provide a place for removing mud from tires thereby protecting public streets.
Di DIVERSION			An earth channel or dike located above, below, or across a slope to divert runoff. This may be a temporary or permanent structure.
Sd1-NS SEDIMENT BARRIER		S OR NS (INSIDE TIPS)	A barrier to prevent sediment from leaving the construction site. It may be sandbags, bales of straw or hay, brush, logs and poles, gravel, or a silt fence.
Sd2 INLET SEDIMENT TRAP		B	An impounding area created by excavating around a storm drain drop inlet. The excavated area will be filled and stabilized on completion of construction activities.
Sd4 TEMPORARY SEDIMENT TRAP			A small temporary pond that drainss a disturbed area so that sediment can settle out. The principle feature distinguishing a temporary sediment trap from a temporary sediment basin is the lack of a pipe or riser.
Su SURFACE ROUGHENING		Su	A rough soil surface with horizontal depressions on a contour or slopes left in a roughened condition after grading.

VEGETATIVE PRACTICES

CODE	DETAIL	MAP SYMBOL	DESCRIPTION
Ds1 DISTURBED AREA STABILIZATION (WITH MULCHING ONLY)		Ds1	Establishing a temporary protection for disturbed areas where seedings may not have a suitable growing season to produce an erosion retarding cover.
Ds2 DISTURBED AREA STABILIZATION (WITH TEMPORARY SEEDING)		Ds2	Establishing a temporary vegetative cover with fast growing seedings on disturbed areas.
Ds3 DISTURBED AREA STABILIZATION (WITH PERMANENT VEGETATION)		Ds3	Establishing a permanent vegetative cover such as trees, shrubs, vines, grasses, sod, or legumes on disturbed areas.
Ds4 DISTURBED AREA STABILIZATION (WITH SODDING)		Ds4	A permanent vegetative cover using sod on highly erodible or critically eroded lands.
Du DUST CONTROL ON DISTURBED AREAS		Du	Controlling surface and air movement of dust on construction site, roadways and similar sites.
Ss EROSION CONTROL MATTING AND BLANKETS		Ss	The installation of a protective covering (blanket) or soil stabilization mat on a prepared planting area of a steep slope, channel, or shoreline.





LOCATION MAP 1" = 2000'

811 Know what's below. Call before you dig.

THIS PARCEL OF LAND IS NOT IN THE 100 YEAR FLOOD PLAIN AND IS IN ZONE X ; ACCORDING TO F.E.M.A. (F.I.A.) COMMUNITY NUMBER # 130681 , MAP NUMBER # 13089C0077L DATED AUGUST 15, 2019 .

BENCHMARK: 60D NAIL
ELEV.= 1099.16
NAVD 88 (2012B)
SOUTH SIDE OF OLD NORCROSS ROAD
ACROSS FROM 2512 OLD NORCROSS ROAD

24 HR. PHONE & EMERGENCY CONTACT:
KEN HILDEBRANDT
770-865-5645

20 0 20 40
SCALE IN FEET

GRID NORTH
GA. WEST ZONE

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OLD NORCROSS ROAD
SIDEWALK IMPROVEMENTS

LAND LOTS 225 AND 254, 18TH DISTRICT,
CITY OF TUCKER, DEKALB COUNTY, GEORGIA
ZONED R3

NOT ISSUED FOR CONSTRUCTION

REVISIONS

REV.	DATE	REVISION REFERENCE:

SHEET TITLE
EROSION CONTROL PLAN (3 OF 8)

SEAL
GEORGIA PROFESSIONAL ENGINEER 23346 DAVID F. MASSEY

PROJECT I.D.	FIELD BOOK

DRAWN BY DAW	CHECKED BY DFM
SCALE 1"=20'	ISSUE DATE 05.05.2021

SHEET NUMBER
29

Plotted By: dwilburn Drawing name: P:\City of Tucker\Old Norcross Road Sidewalk Improvement\ENGINEERING\Submit\OLD NORCROSS - EROSE.dwg Plotted on: May 10, 2021 - 3:47pm

STORM DRAIN LEGEND	
HEADWALL	
FLARED END SECTION	
DROP INLET	
SINGLE WING CATCH BASIN	
DOUBLE WING CATCH BASIN	
JUNCTION BOX	
WEIR-SQUARE STRUCTURE	
WEIR-CIRCULAR STRUCTURE	

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EXISTING STRUCTURES ARE LIGHT.

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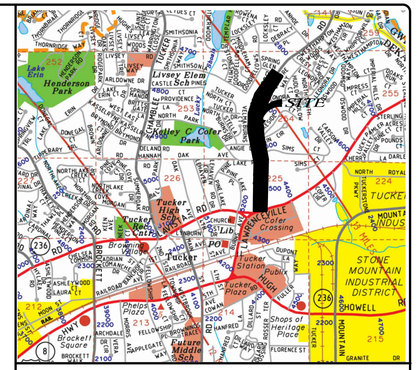
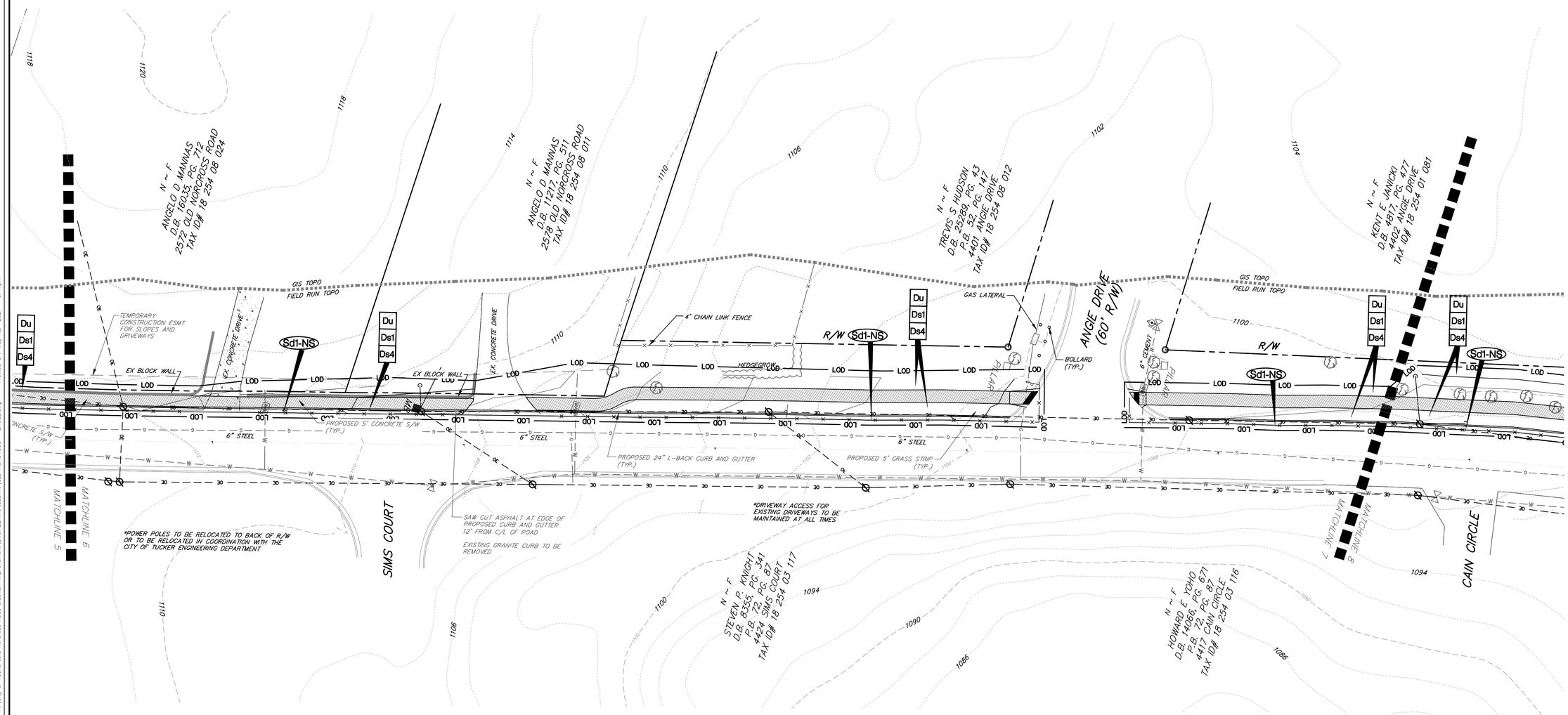
Ds4 DISTURBED AREA STABILIZATION (WITH SODDING)		Ds4	A permanent vegetative cover using sod on highly erodible or critically eroded lands.
Du DUST CONTROL ON DISTURBED AREAS		Du	Controlling surface and air movement of dust on construction site, roadways and similar sites.
Ss EROSION CONTROL MATTING AND BLANKETS		Ss	The installation of a protective covering (blanket) or soil stabilization mat on a prepared planting area of a steep slope, channel, or shoreline.

OWNER/DEVELOPER:
THE CITY OF TUCKER
1975 LAKESIDE PARKWAY
TUCKER, GA 30084



LOCATION MAP 1" = 2000'



24 HR. PHONE & EMERGENCY CONTACT:
KEN HILDEBRANDT
770-865-5645

20 0 20 40
SCALE IN FEET

GRID NORTH
GA. WEST ZONE

811 Know what's below. Call before you dig.

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BENCHMARK: 60D NAIL
ELEV.= 1099.16
NAVD 88 (2012B)
SOUTH SIDE OF OLD NORCROSS ROAD
ACROSS FROM 2512 OLD NORCROSS ROAD

NOT ISSUED FOR CONSTRUCTION

OLD NORCROSS ROAD
SIDEWALK IMPROVEMENTS
LAND LOTS 225 AND 254, 18TH DISTRICT,
CITY OF TUCKER, DEKALB COUNTY, GEORGIA
ZONED R3

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REVISIONS

REV.	DATE	REVISION REFERENCE:

SHEET TITLE
EROSION CONTROL PLAN (4 OF 8)

SEAL
GEORGIA PROFESSIONAL ENGINEER 23346 DAVID F. MASSEY

PROJECT I.D.	FIELD BOOK

DRAWN BY DAW	CHECKED BY DFM
SCALE 1"=20'	ISSUE DATE 05.05.2021

SHEET NUMBER
30

Plotted By: swilburn Drawing name: P:\City of Tucker\Old Norcross Road Sidewalk improvement\ENGINEERING\Submit\OLD NORCROSS - EROSE.dwg Plotted on: May 10, 2021 - 3:47pm

STORM DRAIN LEGEND	
HEADWALL	
FLARED END SECTION	
DROP INLET	
SINGLE WING CATCH BASIN	
DOUBLE WING CATCH BASIN	
JUNCTION BOX	
WEIR-SQUARE STRUCTURE	
WEIR-CIRCULAR STRUCTURE	

PROPOSED STRUCTURES ARE BOLD.
EXISTING STRUCTURES ARE LIGHT.

GENERAL NOTES

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Sd2 INLET SEDIMENT TRAP			An impounding area created by excavating around a storm drain drop inlet. The excavated area will be filled and stabilized on completion of construction activities.
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Ds3 DISTURBED AREA STABILIZATION (WITH PERMANDNT VEGETATION)		Ds3	Establishing a permanent vegetative cover such as trees, shrubs, vines, grasses, sod, or legumes on disturbed areas.
Ds4 DISTURBED AREA STABILIZATION (WITH SODDING)		Ds4	A permanent vegetative cover using sod on highly erodible or critically eroded lands.
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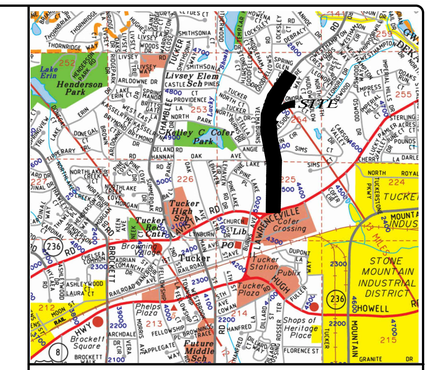
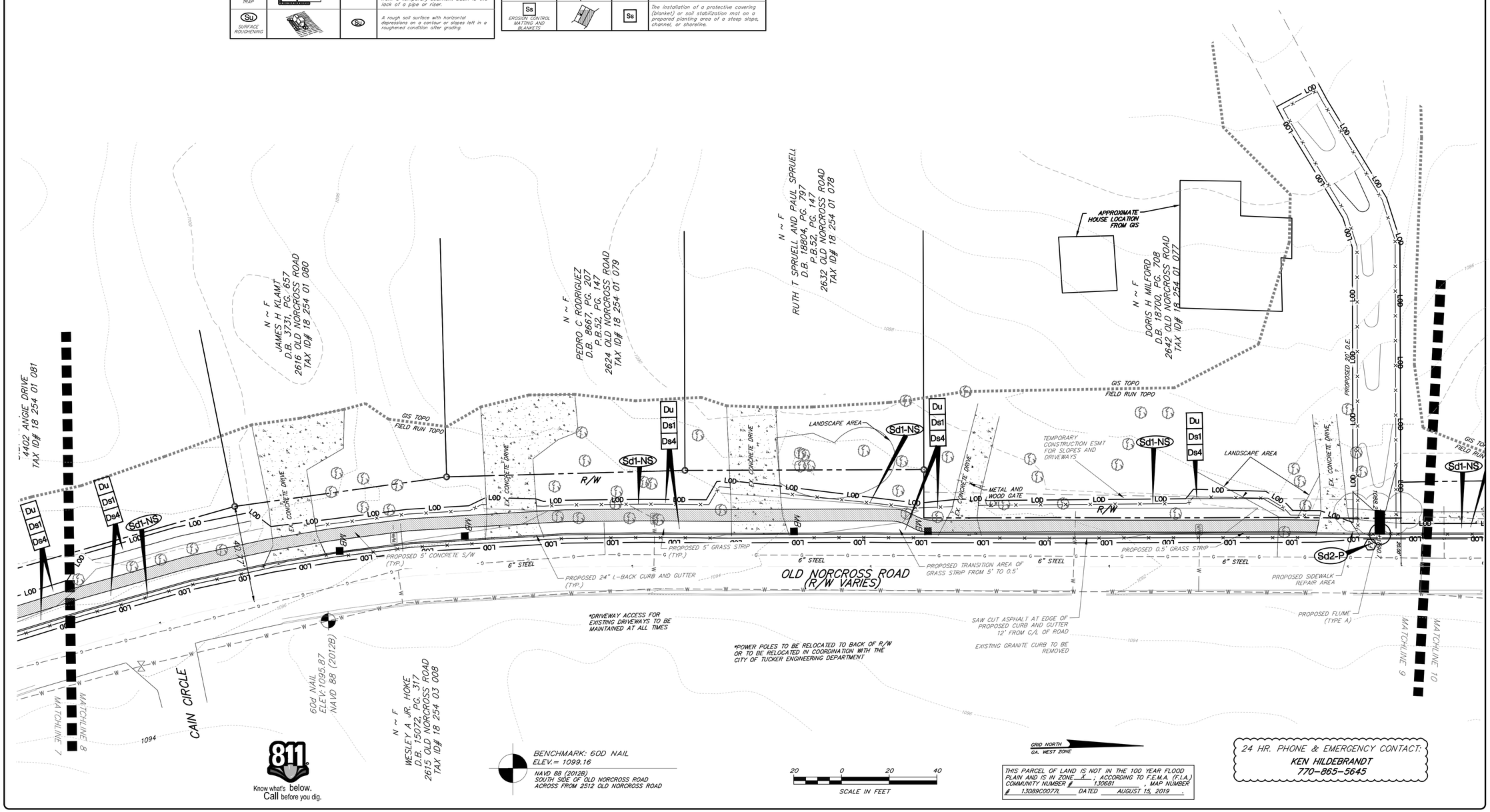
Ss EROSION CONTROL MATTING AND BLANKETS		Ss	The installation of a protective covering (blanket) or soil stabilization mat on a prepared planting area of a steep slope, channel, or shoreline.

OWNER/DEVELOPER:
THE CITY OF TUCKER
1975 LAKESIDE PARKWAY
TUCKER, GA 30084



LOCATION MAP 1" = 2000'



811 Know what's below. Call before you dig.

BENCHMARK: 60D NAIL
ELEV.= 1099.16
NAVD 88 (2012B)
SOUTH SIDE OF OLD NORCROSS ROAD
ACROSS FROM 2512 OLD NORCROSS ROAD

20 0 20 40
SCALE IN FEET

GRID NORTH
GA. WEST ZONE

THIS PARCEL OF LAND IS NOT IN THE 100 YEAR FLOOD PLAIN AND IS IN ZONE X ; ACCORDING TO F.E.M.A. (F.I.A.) COMMUNITY NUMBER # 130681 , MAP NUMBER # 13089C0077L DATED AUGUST 15, 2019 .

24 HR. PHONE & EMERGENCY CONTACT:
KEN HILDEBRANDT
770-865-5645

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OLD NORCROSS ROAD
SIDEWALK IMPROVEMENTS
LAND LOTS 225 AND 254, 18TH DISTRICT,
CITY OF TUCKER, DEKALB COUNTY, GEORGIA
ZONED R3

REVISIONS

REV.	DATE	REVISION REFERENCE:

SHEET TITLE
EROSION CONTROL PLAN (5 OF 8)

SEAL
GEORGIA PROFESSIONAL ENGINEER 23346 DAVID F. MASSEY

PROJECT I.D.	FIELD BOOK

DRAWN BY DAW	CHECKED BY DFM
SCALE 1"=20'	ISSUE DATE 05.05.2021

SHEET NUMBER
31

Plotted By:dwilburn Drawing name: R:\City of Tucker\Old Norcross Road Sidewalk Improvement\ENGINEERING\Submit\OLD NORCROSS - EROSE.dwg Plotted on: May 10, 2021 - 3:49pm

STORM DRAIN LEGEND	
HEADWALL	
FLARED END SECTION	
DROP INLET	
SINGLE WING CATCH BASIN	
DOUBLE WING CATCH BASIN	
JUNCTION BOX	
WEIR-SQUARE STRUCTURE	
WEIR-CIRCULAR STRUCTURE	

PROPOSED STRUCTURES ARE BOLD.
EXISTING STRUCTURES ARE LIGHT.

GENERAL NOTES

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OWNER/DEVELOPER:
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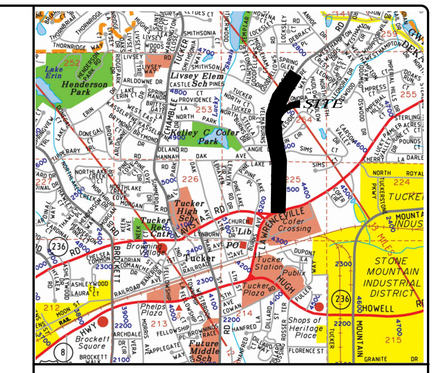
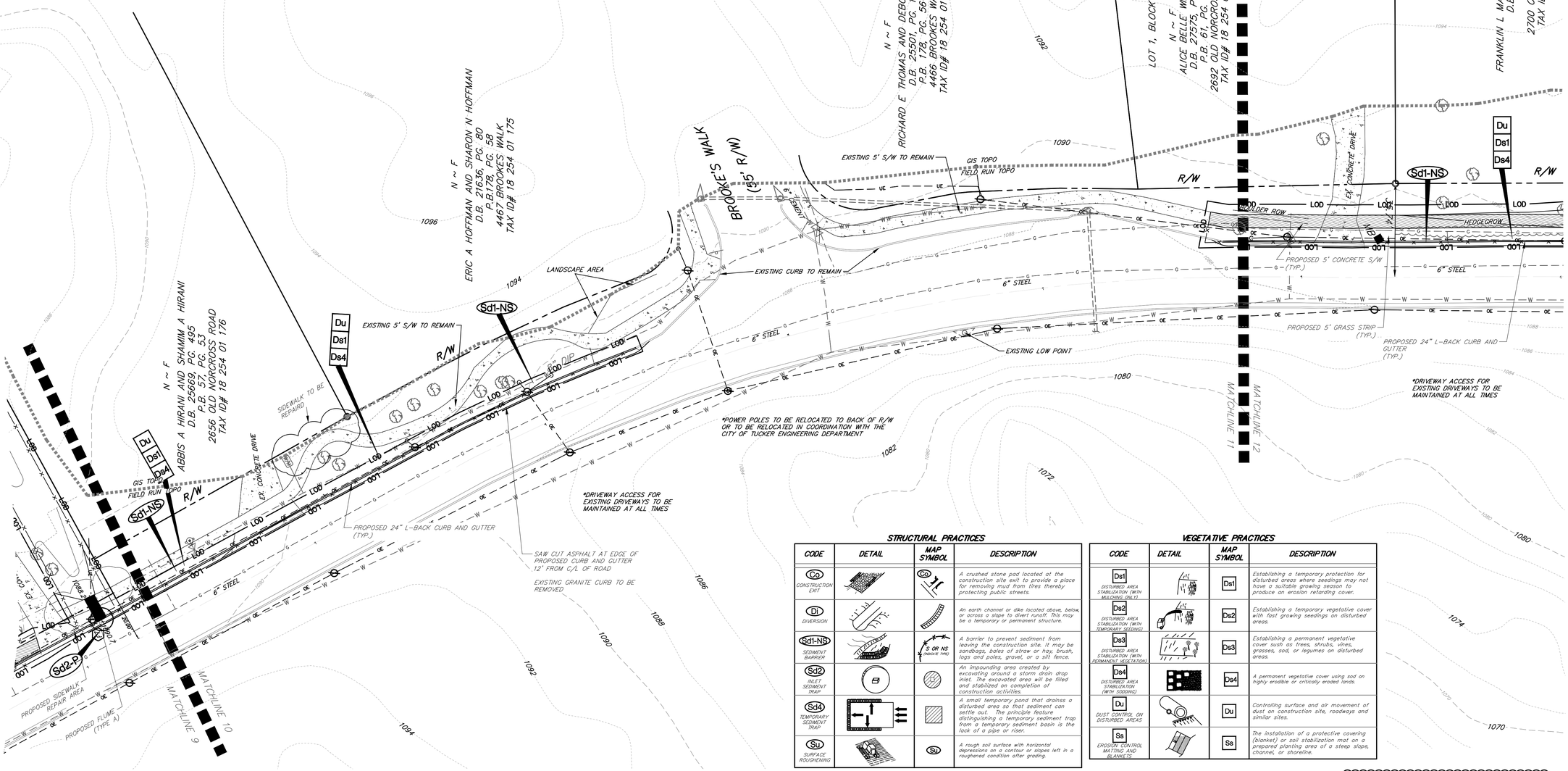
1975 LAKESIDE PARKWAY
TUCKER, GA 30084



LOCATION MAP 1" = 2000'



STRUCTURAL PRACTICES

CODE	DETAIL	MAP SYMBOL	DESCRIPTION
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Sd1-NS SEDIMENT BARRIER	SILT FENCE	S OR NS (SHOULD BE 1 HAS)	A barrier to prevent sediment from leaving the construction site. It may be sandbags, bales of straw or hay, brush, logs and poles, gravel, or a silt fence.
Sd2 INLET SEDIMENT TRAP			An impounding area created by excavating around a storm drain drop inlet. The excavated area will be filled and stabilized on completion of construction activities.
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20 0 20 40
SCALE IN FEET

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GA. WEST ZONE

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OLD NORCROSS ROAD
SIDEWALK IMPROVEMENTS
LAND LOTS 225 AND 254, 18TH DISTRICT,
CITY OF TUCKER, DEKALB COUNTY, GEORGIA
ZONED R3

NOT ISSUED FOR CONSTRUCTION

REVISIONS

REV.	DATE	REVISION REFERENCE:

SHEET TITLE
EROSION CONTROL PLAN (6 OF 8)

SEAL
GEORGIA PROFESSIONAL ENGINEER 23346 DAVID F. MASSEY

PROJECT I.D.	FIELD BOOK

DRAWN BY DAW	CHECKED BY DFM
SCALE 1"=20'	ISSUE DATE 05.05.2021

SHEET NUMBER
32

Plotted By: swilburn Drawing name: P:\City of Tucker\Old Norcross Road Sidewalk Improvement\ENGINEERING\Submit\OLD NORCROSS - EROSE.dwg Plotted on: May 10, 2021 - 3:48pm

STORM DRAIN LEGEND	
HEADWALL	
FLARED END SECTION	
DROP INLET	
SINGLE WING CATCH BASIN	
DOUBLE WING CATCH BASIN	
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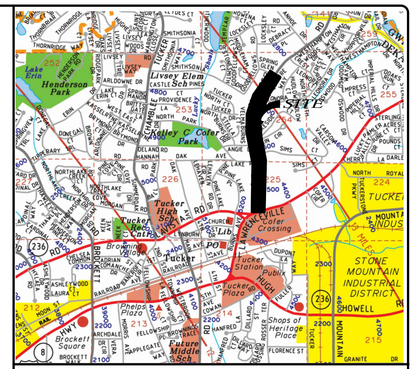
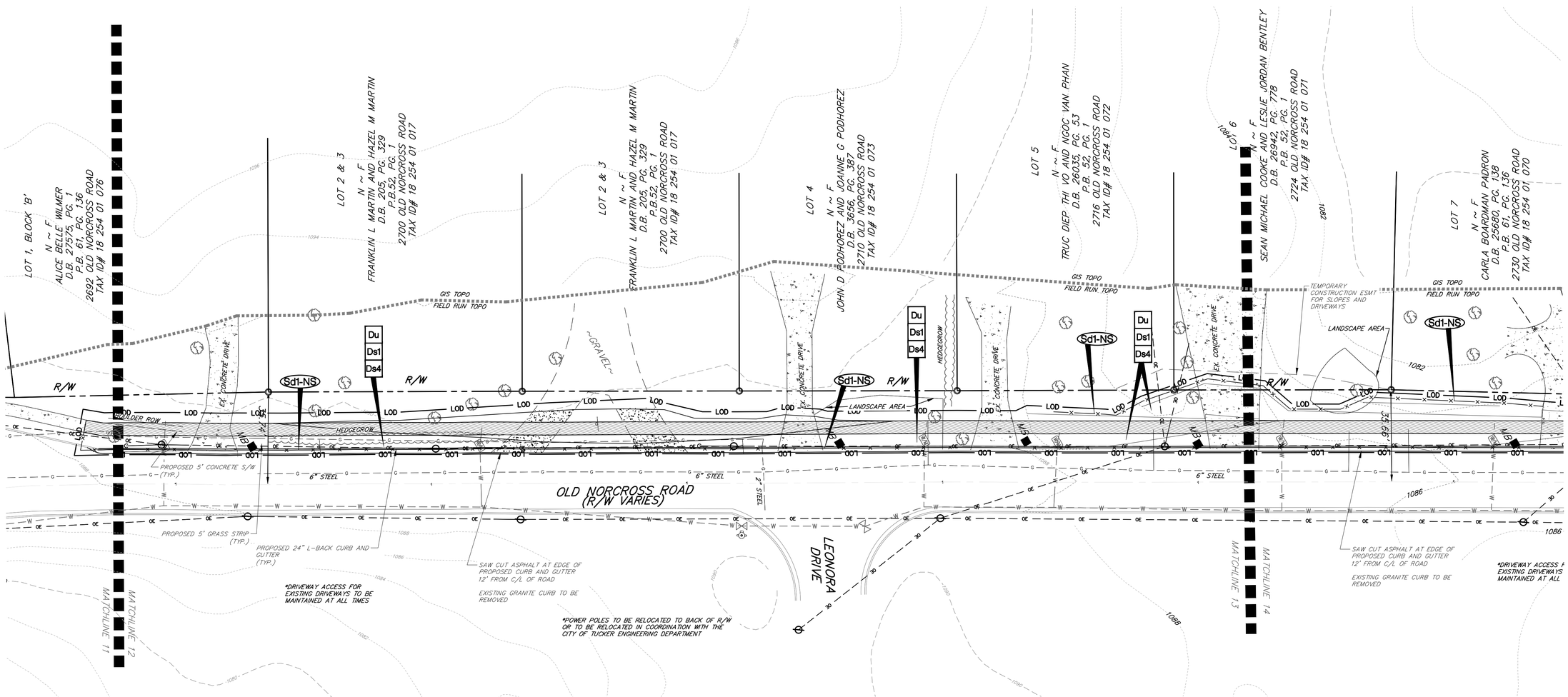


LOCATION MAP 1" = 2000'



Know what's below. Call before you dig.

THIS PARCEL OF LAND IS NOT IN THE 100 YEAR FLOOD PLAIN AND IS IN ZONE X ; ACCORDING TO F.E.M.A. (F.I.A.) COMMUNITY NUMBER # 130681 , MAP NUMBER # 13089C0077L DATED AUGUST 15, 2019 .

BENCHMARK: 60D NAIL
ELEV.= 1099.16
NAVD 88 (2012B)
SOUTH SIDE OF OLD NORCROSS ROAD
ACROSS FROM 2512 OLD NORCROSS ROAD

20 0 20 40
SCALE IN FEET

GRID NORTH
GA. WEST ZONE

24 HR. PHONE & EMERGENCY CONTACT:
KEN HILDEBRANDT
770-865-5645

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OLD NORCROSS ROAD
SIDEWALK IMPROVEMENTS

LAND LOTS 225 AND 254, 18TH DISTRICT,
CITY OF TUCKER, DEKALB COUNTY, GEORGIA
ZONED R3

NOT ISSUED FOR CONSTRUCTION

REVISIONS

REV.	DATE	REVISION REFERENCE:

SHEET TITLE
EROSION CONTROL PLAN (7 OF 8)

SEAL
GEORGIA PROFESSIONAL ENGINEER 23346 DAVID F. MASSEY

PROJECT I.D.	FIELD BOOK

DRAWN BY DAW	CHECKED BY DFM
SCALE 1"=20'	ISSUE DATE 05.05.2021

SHEET NUMBER
33

Plotted By: daWum Drawing name: P:\City of Tucker\Old Norcross Road Sidewalk improvement\ENGINEERING\Submit\OLD NORCROSS - EROSE.dwg Plotted on: May 10, 2021 - 3:48pm

SOILS AND GEOTECHNICAL NOTES

GENERAL REQUIREMENTS

1. ALL EARTHWORK OPERATIONS SHALL COMPLY WITH ALL REQUIREMENTS OF OSHA CONSTRUCTION STANDARDS, PARTICULARLY PART 1926, SUBPART P, EXCAVATIONS, TRENCHING, AND SHORING, AND SUBPART O, MOTOR VEHICLES, MECHANIZED EQUIPMENT, AND MARINE OPERATIONS, AND SHALL BE CONDUCTED IN A MANNER ACCEPTABLE TO THE ON SITE INSPECTOR.
2. THE DEVELOPER AND/OR CONTRACTOR IS TO INFORM THE LOCAL ISSUING AUTHORITY OF ANY UNSUITABLE OR POTENTIAL UNSUITABLE SOIL CONDITION FOUND ON SITE.
3. ALL TREES, STUMPS, ROOTS, DEBRIS, JUNK AND OTHER DELETERIOUS MAY NOT BE BURIED ON SITE.

SUBGRADE PREPARATION REQUIREMENTS

4. REMOVE VEGETATION, TREES, STUMPS, ROOTS, DEBRIS, JUNK OR OTHER DELETERIOUS MATERIALS FROM THE GROUND SURFACE PRIOR TO PLACEMENT OF FILLS. STUMP HOLES TO BE FILLED WITH COMPACTED CLEAN SOIL.
5. PROOFROLL SUBGRADES PRIOR TO PLACING FILL AND ALL AREAS PRIOR TO RECEIVING GRADED AGGREGATE BASE STONE (GAB) USING A LOADED, TANDEM-AXLE DUMP TRUCK OR SIMILAR CONSTRUCTION EQUIPMENT OF LIKE WEIGHT (AT LEAST 15 TONS).
6. ALL UNSTABLE AREAS REVEALED BY PROOFROLLING SHALL BE UNDERCUT, STABILIZED AND FILLED AS RECOMMENDED BY THE TESTING AGENCY OR BY THE CITY INSPECTOR.

PLACEMENT AND COMPACTION OF STRUCTURAL FILL

7. FILL MATERIALS SHALL CONSIST OF CLEAN SOIL, FREE OF ORGANIC OR DELETERIOUS MATERIALS, ROCKS, OR BROKEN PIECES OF CONCRETE LARGER THAN 3 INCHES IN SIZE, OR ANY OTHER FOREIGN OBJECTS THAT COULD IMPEDE THE COMPACTION RESULTS.
8. FILL MATERIALS SHALL BE SPREAD EVENLY IN LAYERS OF NOT MORE THAN 8 INCHES THICK (LOOSE MEASUREMENT). PLACE NO ROCKS EXCEEDING 3 INCHES IN DIAMETER IN THE TOP ONE FOOT OF FILL. BEFORE COMPACTION, MOISTEN OR AERATE EACH LAYER TO WITHIN 3% OF THE OPTIMUM MOISTURE CONTENT. SOILS CHOSEN FOR USE AS STRUCTURAL FILL SHALL NOT CONTAIN TOPSOIL OR OTHER DELETERIOUS MATERIAL. STRUCTURAL FILL SHALL NOT BE PLACED ON SURFACES THAT ARE MUDDY, FROZEN, OR THAT CONTAIN FROST OR ICE.
9. UNDERCUTTING IS REQUIRED IN ALL AREAS WHERE MATERIALS ARE DETERMINED TO BE UNSUITABLE FOR STRUCTURAL BACKFILL MATERIAL. FILL AREAS SHALL BE SCARIFIED TO A DEPTH OF 6 INCHES PRIOR TO PLACING FILL MATERIAL.

DEGREE OF COMPACTION REQUIREMENTS

10. FOR PAVEMENTS (ROADWAYS, PARKING LOTS, ETC.), COMPACT THE TOP 12 INCHES OF SUBGRADE TO 100% OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY (ASTM D698) AND EACH UNDERLYING LAYER OF BACKFILL OR FILL MATERIAL TO AT LEAST 95% OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY (ASTM D 698).
11. FOR LANDSCAPE AREAS AND UNDER SIDEWALKS, COMPACT EACH LAYER OF BACKFILL OR FILL MATERIAL TO AT LEAST 95% OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY (ASTM D 698).
12. WHERE THE SUBGRADE OR LAYER OF SOIL MATERIAL MUST BE MOISTENED BEFORE COMPACTION, UNIFORMLY APPLY WATER TO THE SURFACE TO PREVENT FREE WATER FROM APPEARING DURING OR SUBSEQUENT TO COMPACTION OPERATIONS. THOROUGHLY MIX ADDED WATER WITH THE SOIL BY DISKING OR HARROWING UNTIL THE MOISTURE CONTENT IS WITHIN 3% OF THE OPTIMUM MOISTURE. REMOVE AND REPLACE, OR SCARIFY AND AIR DRY SOIL MATERIAL THAT IS TOO WET TO PERMIT COMPACTION TO THE SPECIFIED DENSITY. SOIL MATERIAL THAT HAS BEEN REMOVED BECAUSE IT IS TOO WET TO PERMIT COMPACTION MAY BE STOCKPILED OR SPREAD AND ALLOWED TO DRY. ASSIST DRYING BY DISKING, HARROWING OR PULVERIZING UNTIL THE MOISTURE CONTENT IS REDUCED TO WITHIN 3% OF THE OPTIMUM MOISTURE.

GRADED AGGREGATE BASE (GAB) REQUIREMENTS

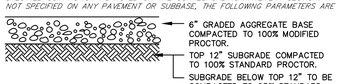
13. THE SOIL SUBGRADE MUST BE IN ACCORDANCE WITH THIS SPECIFICATION PRIOR TO GRADED AGGREGATE BASE (GAB) PLACEMENT.

GAB COMPACTION AND THICKNESS REQUIREMENTS

14. GAB SHALL BE OBTAINED FROM A GDOT APPROVED SOURCE. GAB SHALL BE COMPACTED TO 100% OF THE MODIFIED PROCTOR MAXIMUM DRY DENSITY (GDT-49). THE MAXIMUM THICKNESS TO BE LAID IN ONE COURSE SHALL BE EIGHT (8) INCHES. THE MOISTURE CONTENT AT THE TIME OF COMPACTION SHALL BE UNIFORMLY DISTRIBUTED AND SHALL BE ADEQUATE TO ALLOW COMPACTION TO THE SPECIFIED DENSITY. GAB THICKNESS SHALL BE WITHIN 1/2 INCH OF VALUES SPECIFIED.

SOILS AND PAVEMENT COMPACTION NOTES:

1. ALL PAVEMENT INSTALLATION (PARKING LOTS, CONCRETE OR PAVED PATHS, ETC.) TO BE BROUGHT TO SPECIFIED COMPACTION AS NOTED ON THE CORRESPONDING PAVEMENT SECTION. IF COMPACTION IS NOT SPECIFIED ON ANY PAVEMENT OR SUBBASE, THE FOLLOWING PARAMETERS ARE TO APPLY:



2. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE APPROPRIATE TESTING TO VERIFY COMPACTION.

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OLD NORCROSS ROAD
SIDEWALK IMPROVEMENTS

LAND LOTS 225 AND 254, 18TH DISTRICT,
CITY OF TUCKER, DEKALB COUNTY, GEORGIA
ZONED R3

REVISIONS

REV.	DATE	REVISION REFERENCE:

SHEET TITLE
GENERAL NOTES

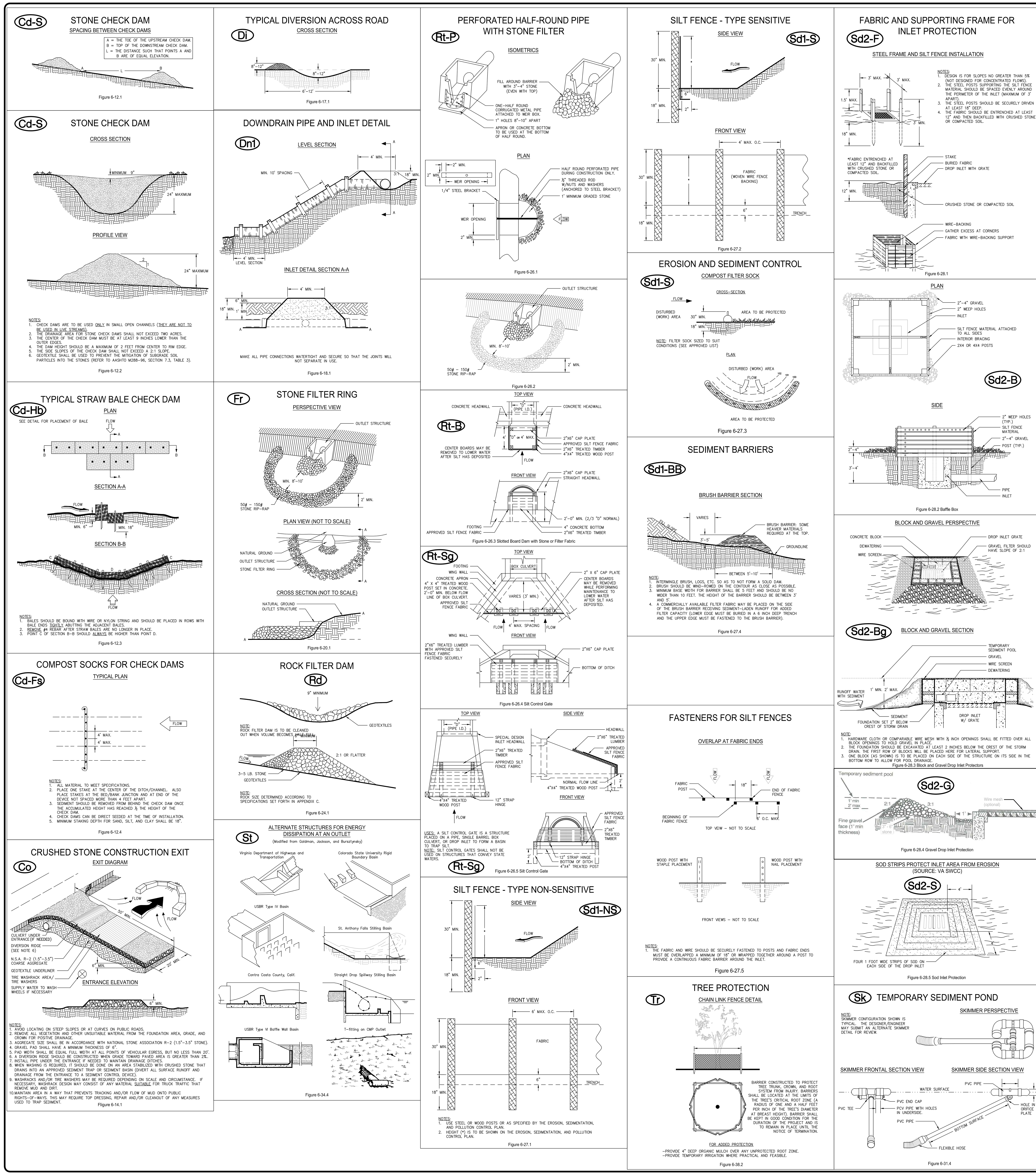
SEAL
GEORGIA PROFESSIONAL ENGINEER 23346 DAVID F. MASSEY

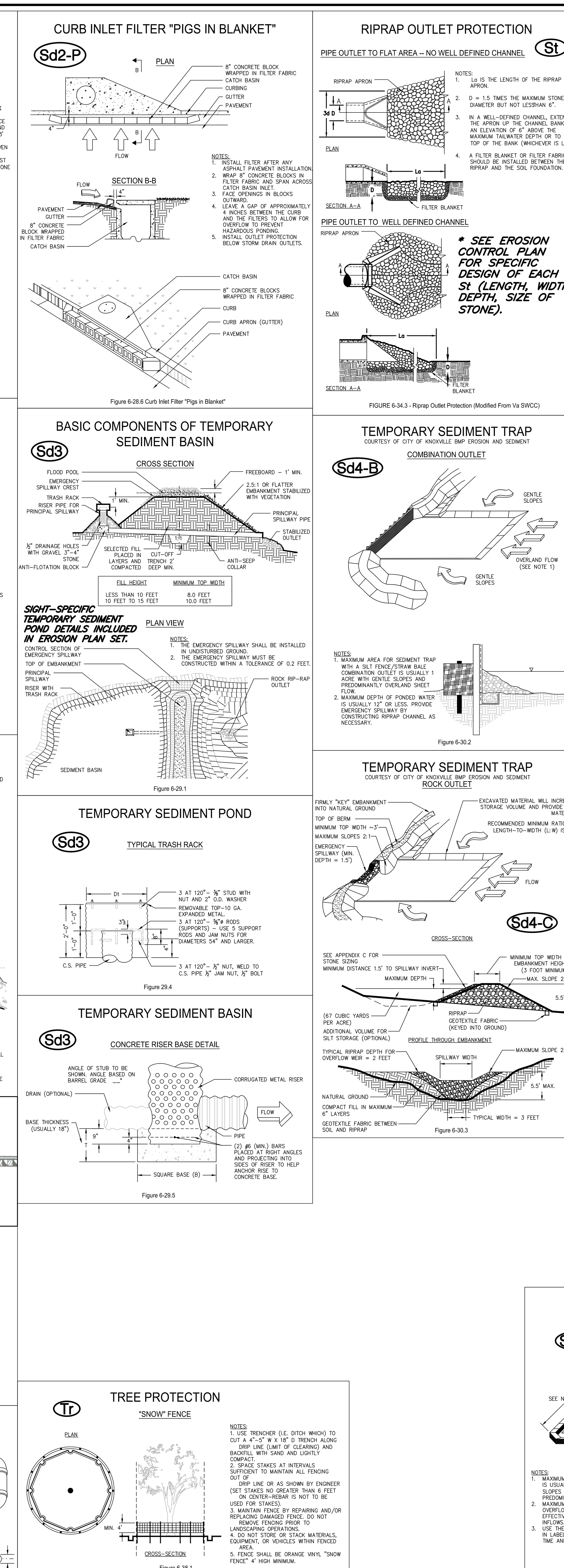
PROJECT I.D.	FIELD BOOK

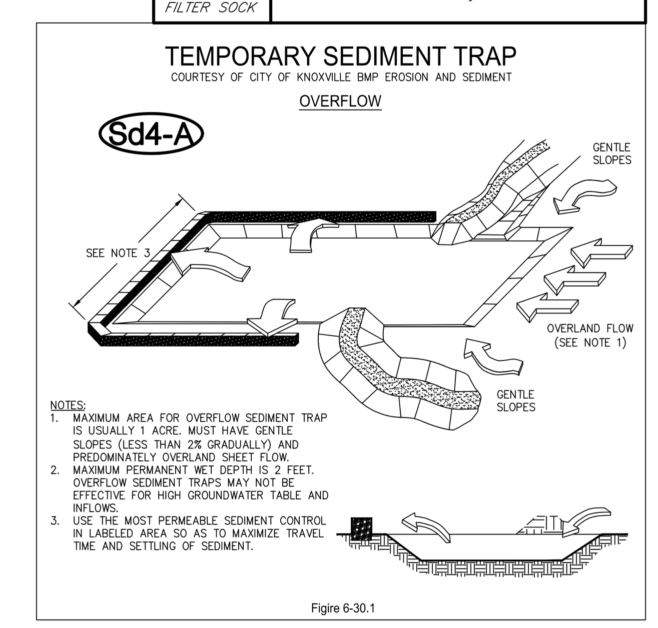
DRAWN BY: DAW	CHECKED BY: DFM
SCALE: NTS	ISSUE DATE: 05.05.2021

SHEET NUMBER
CN1

Plotted By: dwilburn Drawing name: P:\City of Tucker\Old Norcross Road Sidewalk Improvement\ENGINEERING\Submit\OLD NORCROSS - COVER.dwg Plotted on: May 03, 2021 - 2:31pm







STRUCTURAL PRACTICES

CODE	DESCRIPTION
Cd-S STONE CHECKDAM	A temp. grade control structure, or dam constructed across a swale, drainage ditch or area of concentrated flow. Constructed out of stone.
Cd-Hb HAYBALE CHECKDAM	A temp. grade control structure, or dam constructed across a swale, drainage ditch or area of concentrated flow. Constructed out of haybales.
Co CONSTRUCTION EXIT	A crushed stone pad located at the construction site exit to provide a place for removing mud from tires thereby protecting public streets.
Di DIVERSION	An earth channel or dike located above, below, or across a slope to divert runoff. This may be a temporary or permanent structure.
Dn1 TEMPORARY DOWNDRAIN STRUCTURE	A flexible conduit of heavy—duty fabric or other material designed to safely conduct surface runoff down a slope. This is temporary and inexpensive.
Fr FILTER RING	A temporary stone barrier constructed at storm drain inlets and pond outlets.
Rd ROCK FILTER DAM	A permanent or temporary stone filter dam installed across small streams or drainages.
Rt-B RETROFITTING – SLOTTED BOARD DAM	Slotted board dam with stone filter of filter fabric. A device or structure placed in front of a permanent stormwater detention pond outlet structure to serve as a temporary sediment filter.
Rt-P RETROFITTING – HALF—ROUND PIPE	Perforated half—round pipe with stone filter. A device or structure placed in front of a permanent stormwater detention pond outlet structure to serve as a temporary sediment filter.
Rt-Sg RETROFITTING – SILT CONTROL GATE	Silt control gate. A device or structure placed in front of a permanent stormwater detention pond outlet structure to serve as a temporary sediment filter.
Sd1-BB BUSH BARRIER	A barrier to prevent sediment from leaving the construction site. It may be sandbags, bales of straw or hay, brush, logs and poles, gravel, or a silt fence.
Sd1-NS TYPE NS SEDIMENT BARRIER	A barrier to prevent sediment from leaving the construction site. It may be sandbags, bales of straw or hay, brush, logs and poles, gravel, or a silt fence.
Sd1-S TYPE S SEDIMENT BARRIER	A barrier to prevent sediment from leaving the construction site. It may be sandbags, bales of straw or hay, brush, logs and poles, gravel, or a silt fence.
Sd2-B BAFFLE—BOX	An impounding area created by excavating around a storm drain drop inlet. The excavated area will be filled and stabilized on completion of construction activities.
Sd2-Bg BLOCK AND GRAVEL INLET PROTECTION	An impounding area created by excavating around a storm drain drop inlet. The excavated area will be filled and stabilized on completion of construction activities.
Sd2-F FILTER FABRIC W/ SUPPORTING FRAME	An impounding area created by excavating around a storm drain drop inlet. The excavated area will be filled and stabilized on completion of construction activities.
Sd2-G GRAVEL DROP INLET PROTECTION	An impounding area created by excavating around a storm drain drop inlet. The excavated area will be filled and stabilized on completion of construction activities.
Sd2-P CURB INLET PROTECTION	An impounding area created by excavating around a storm drain drop inlet. The excavated area will be filled and stabilized on completion of construction activities.
Sd2-S SOD INLET PROTECTION	An impounding area created by excavating around a storm drain drop inlet. The excavated area will be filled and stabilized on completion of construction activities.
Sd3 TEMPORARY SEDIMENT BASIN	A basin created by excavation or a dam across a waterway. The surface water runoff is temporarily stored allowing the bulk fo the sediment to drop out.
Sd4-A OVERFLOW TEMP. SED. TRAP	A small temporary pond that drains a disturbed area so that sediment can settle out
Sd4-B STRAW BALE/ SILT FENCE TEMP. SED. TRAP	A small temporary pond that drains a disturbed area so that sediment can settle out
Sd4-C ROCK OUTLET TEMP. SED. TRAP	A small temporary pond that drains a disturbed area so that sediment can settle out
Sk FLOATING SURFACE SKIMMER	A buoyant device that releases/drains water from the surface of sediment ponds.
St STORM DRAIN OUTLET PROTECTION	A paved or short section of riprap channel at the outlet of a storm drain system preventing erosion from the concentrated runoff.
Tr TREE PROTECTION	A devise installed to delineate the protection area for desirable trees, protecting them from injury during construction activity.
Cd-Fs COMPOST FILTER SOCK	A temp. grade control structure, or dam constructed across a swale, drainage ditch or area of concentrated flow. Constructed out of haybales.

ALL EROSION CONTROL MEASURES SHALL BE IN ACCORDANCE WITH CURRENT "BEST MANAGEMENT PRACTICES" (BMP'S) AND SHALL CONFORM TO THE STANDARDS AND SPEC'S CONTAINED IN THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA", LATEST EDITION. THE MAINTENANCE OF CONTROL MEASURES AND THE INSTALLATION OF ADDITIONAL DEVICES SHALL BE COMPLETED AS NEEDED OR AS REQUIRED BY LOCAL AUTHORITIES.

NOTE: THIS DETAIL SHEET IS FOR REFERENCE ONLY. FOR ANY DISCREPENCIES BETWEEN THIS DETAIL SHEET AND THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" (MANUAL), THE MANUAL SHALL CONTROL.

STATE SOIL AND WATER CONSERVATION COMMISSION OF GEORGIA UNIFORM CODING SYSTEM

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OLD NORCROSS ROAD
SIDEWALK IMPROVEMENTS

LAND LOTS 225 AND 254, 18TH DISTRICT,
CITY OF TUCKER, DEKALB COUNTY, GEORGIA
ZONED R3

REVISIONS

REV.	DATE	REVISION REFERENCE:

SHEET TITLE
GASWCC EROSION & SEDIMENT CONTROL DETAILS

SEAL
GEORGIA PROFESSIONAL ENGINEER 23346 DAVID F. MASSEY

PROJECT I.D.	FIELD BOOK

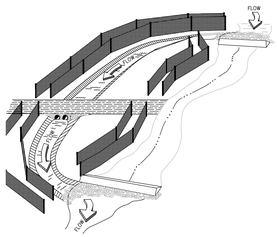
DRAWN BY DAW	CHECKED BY DFM
SCALE NTS	ISSUE DATE 05.05.2021

SHEET NUMBER
CD1

Drawing name: P:\City of Tucker\Old Norcross Road Sidewalk Improvements\ENGINEERING\Submit\OLD NORCROSS - COVER.dwg Plotted on: May 07, 2021 - 7:31pm Plotted By:dwilburn

STREAM DIVERSION CHANNEL

Dc

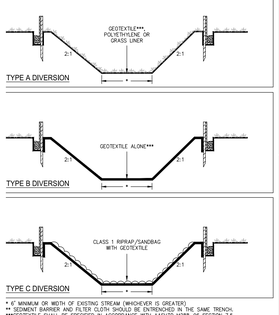


NOTE:
THE BOTTOM WIDTH OF THE STREAM DIVERSION SHALL BE A MINIMUM OF SIX FEET OR EQUAL TO THE BOTTOM WIDTH OF THE EXISTING STREAMBED (WHICHEVER IS GREATER).
THE SIDE SLOPES OF THE CHANNEL SHALL BE 2:1 OR FLATTER. IF SOIL IS NOT STIFFER THAN 2:1, THE CHANNEL SHALL BE EXCAVATED. CONSTRUCTING PLUGS AT BOTH ENDS.
TWO ROWS OF TYPE G SEDIMENT BARRIERS SHALL BE PLACED ALONG THE SIDES OF THE CHANNEL TO PREVENT UNFILTERED RUNOFF FROM ENTERING THE STREAM.
THE CHANNEL SURFACE SHALL BE SMOOTH (TO PREVENT TEARING OF THE LINER) AND LINED WITH THE MATERIAL SPECIFIED IN THE PLANS.
THE PLUGS ARE REMOVED WHEN THE LINER INSTALLATION IS COMPLETE (REMOVING THE DOWNSTREAM PLUG FIRST).

Figure 6-16.1 Stream Diversion Channel (perspective view)

TO BE SHOWN ON EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN

Dc



* 6" MINIMUM OR WIDTH OF EXISTING STREAM (WHICHEVER IS GREATER)
** SEDIMENT BARRIER AND FILTER CLOTH SHOULD BE ENTRENCHED IN THE SAME TRENCH.
***GEOTEXTILE SHALL BE SPECIFIED IN ACCORDANCE WITH AASHTO M288-96 SECTION 7.5

Figure 6-16.2 Stream Diversion Channel Linings

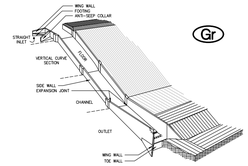
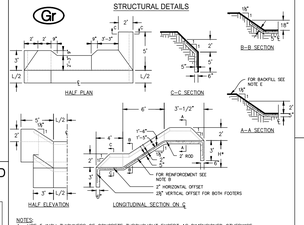


Figure 6-22.7 Chute Spillway

TYPICAL PLAN - FORMLESS CONCRETE CHUTE

Gr

STRUCTURAL DETAILS



NOTES:
A. USE 5 INCH THICKNESS OF CONCRETE THROUGHOUT EXCEPT AS DIMENSIONED OTHERWISE.
B. REINFORCING AS INDICATED SHALL BE (1) ¾" ⌀ REINFORCING STEEL 12" O.C. BOTH WAYS. (2) NO. 2 GAUGE WELDED WIRE FABRIC 6" O.C. BOTH WAYS (COMMON DESIGNATION 6X6 2/2). REINFORCING BARS OR MESH SHOULD BE LAPPED ONE FOOT AT ALL JOINTS.
C. THE CHUTE SHALL BE KEYED INTO THE UNDISTURBED GROUND. SEEP AREAS SHOULD BE AVOIDED OR PROPERLY DRAINED WITH A CAREFULLY CONSTRUCTED TOE DRAINAGE SYSTEM.
D. THIS SPILLWAY SHALL NOT BE USED AS A PART OF A WATER IMPOUNDING STRUCTURE.
E. THE DISTURBED AREA ADJACENT TO THE SPILLWAY SHALL BE BACKFILLED, COMPACTED, AND SODDED.
F. THE LENGTH (L) OF THE SPILLWAY SHALL BE LIMITED BY THE AMOUNT OF CONCRETE THAT CAN BE ADEQUATELY MIXED, PLACED, AND FINISHED IN ONE DAY'S TIME WITH THE LABOR AND EQUIPMENT AVAILABLE OR A MAX. L=8'-0".
G. THE MAXIMUM "H" FOR THIS SPILLWAY IS 5'-0".

DISCHARGE CAPACITY OF SPILLWAY IN C.F.S.						CONCRETE VOLUMES IN CUBIC YARDS				
LENGTH OF CREST (L) IN FEET	2	4	6	8		HEAD "H"	LENGTH OF CREST (L) IN FEET			
(L) WITH NO FREEBOARD	30	45	60	75		IN FEET	2' – 0"	4' – 0"	6' – 0"	8' – 0"
(L) WITH 6" FREEBOARD	18	28	38	48		4' – 0"	3.5	4.2	4.9	5.6
						5' – 0"	3.7	4.4	5.2	6.0

Figure 6-22.8 Typical Plan - Formless Concrete Chute

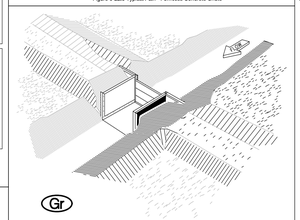


Figure 6-22.9 Prefabricated Metal Structure

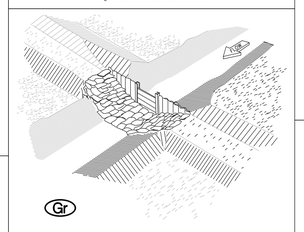


Figure 6-22.10 Sheet Piling Headwall with Sand - Cement Bag Sidewalls and Apron

SMALL, LOW COST WATER CONTROL STRUCTURES

LEVEL SPREADER

Lv

PLAN

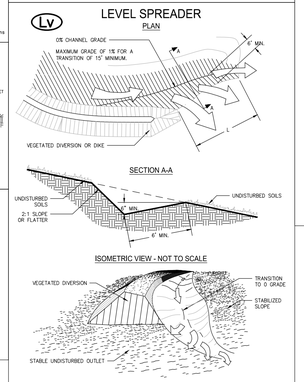
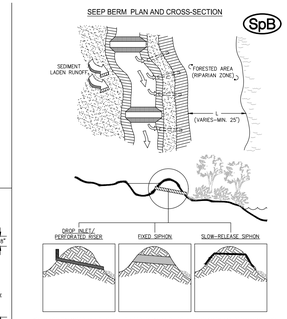


Figure 6-23.1

SEEP BERM PLAN AND CROSS-SECTION

SpB



*DESIGNER/ENGINEER MUST DEFINE IF SEEP BERM IS TO BE A TEMPORARY OR PERMANENT BMP.

Figure 6-32.1 Integrated Seep Berm Erosion Control System

TEMPORARY BRIDGE CROSSING

Sr-B

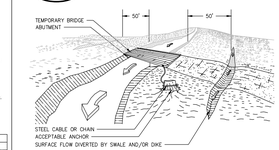
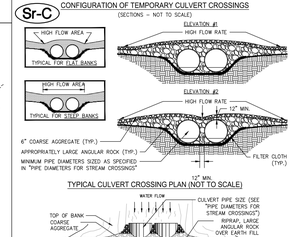


Figure 6-33.1 Temporary Stream Crossing

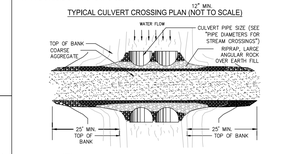
CONFIGURATION OF TEMPORARY CULVERT CROSSINGS

(SECTIONS – NOT TO SCALE)

Sr-C



TYPICAL CULVERT CROSSING PLAN (NOT TO SCALE)



NOTES:
1. THIS TYPE OF CROSSING CAN BE INSTALLED IN BOTH A WET OR DRY WEATHER STREAM CONDITION WHERE THE DRAINAGE AREA EXCEEDS 10 ACRES.
2. REMOVE DURING CLEANUP.

Figure 6-33.2

STAIR STEPPING CUT SLOPES

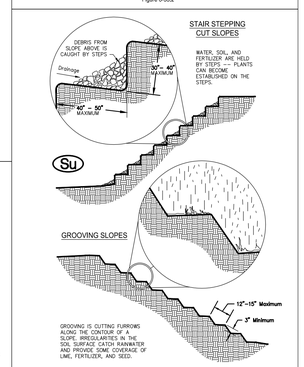


Figure 6-35.1

FILL SLOPE TREATMENT

Su

EACH LIFT OF THE FILL IS COMPACTED, BUT THE OUTER FACE OF THE SLOPE IS ALLOWED TO REMAIN LOOSE SO THAT THE ROCKS, CLODS, ETC. REACH THE NATURAL ANGLE OF REPOSE.

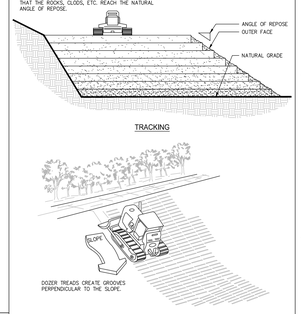
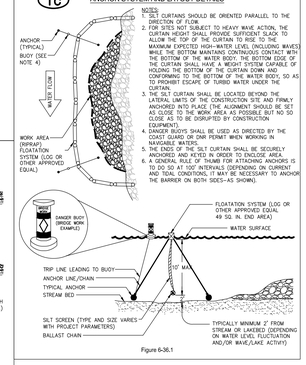


Figure 6-35.2

TURBIDITY CURTAIN SYSTEM

Tc

ANCHOR SYSTEM AND LAYOUT DETAILS



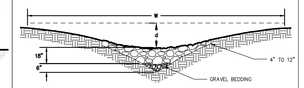
NOTES:
1. SILT CURTAINS SHOULD BE ORIENTED PARALLEL TO THE WORK AREA.
2. FOR SITES NOT SUBJECT TO HEAVY WAVE ACTION, THE CURTAIN HEIGHT SHALL PROVIDE SUFFICIENT SLACK TO ALLOW THE TOP OF THE CURTAIN TO RISE TO THE MAXIMUM EXPECTED HIGH-WATER LEVEL (INCLUDING WAVES) WHILE THE BOTTOM MAINTAINS CONTINUOUS CONTACT WITH THE BOTTOM OF THE WATER BODY. THE BOTTOM EDGE OF THE CURTAIN SHALL HAVE A WEIGHT SYSTEM CAPABLE OF HOLDING THE BOTTOM OF THE CURTAIN DOWN AND MAINTAINING CONTACT WITH THE BOTTOM OF THE WATER SO AS TO PROHIBIT ESCAPE OF TURBID WATER UNDER THE CURTAIN.
3. THE SILT CURTAIN SHALL BE LOCATED BEYOND THE LATERAL LIMITS OF THE CONSTRUCTION SITE AND FIRMLY ANCHORED INTO PLACE (THE ALIGNMENT SHOULD BE SET AS CLOSE TO THE WORK AREA AS POSSIBLE BUT NO SO CLOSE TO BE DISRUPTED BY CONSTRUCTION EQUIPMENT).
4. DANGER BUOYS SHALL BE USED AS DIRECTED BY THE COAST GUARD OR DNR PERMIT WHEN WORKING IN NAVIGABLE WATERS.
5. THE ENDS OF THE SILT CURTAIN SHALL BE SECURELY ANCHORED AND KEYED IN ORDER TO ENCLOSE AREA. THE SPACING OF THE ANCHORS ALONG THE CURTAIN HORIZ IS TO DO 50 AT 100' INTERVALS DEPENDING ON CURRENT AND TIDAL CONDITIONS, IT MAY BE NECESSARY TO ANCHOR THE BARRIER ON BOTH SIDES--AS SHOWN).

Figure 6-36.1

STONE CENTER WATERWAYS

Wt

WATERWAY WITH STONE CENTER DRAIN AND V-SECTION SHAPED BY MOTOR GRADER



WATERWAY WITH STONE CENTER DRAIN AND ROUNDED SECTION SHAPED BY BULLDOZER

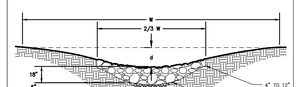
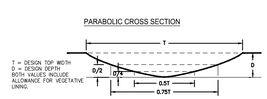


Figure 6-39.2 - Waterway With Stone Center

TYPICAL WATERWAY CROSS SECTION

Wt

PARABOLIC CROSS SECTION



TRAPEZOIDAL CROSS SECTION

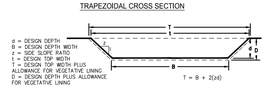


Figure 6-39.1

STRUCTURAL PRACTICES (CONT.)

CODE	DESCRIPTION
Dc STREAM DIVERSION CHANNEL	A temporary channel constructed to convey flow around a construction site while a permanent structure is being constructed.
Gr GRADE STABILIZATION STRUCTURE	Permanent structures installed to protect natural or artificial channels or waterways where otherwise the slope would be sufficient for the running water to form gullies.
Lv LEVEL SPREADER	A structure to convert concentrated flow of water into less erosive sheet flow. This should be constructed only on undisturbed soils.
SpB SEEP BERM	A diversion perpendicular to the direction of runoff to enhance dissipation and infiltration of runoff.
Sr-B TEMP. BRIDGE CROSSING	A temporary structure installed across a flowing stream or watercourse for use by construction equipment.
Sr-C TEMP. CULVERT CROSSING	A temporary structure installed across a flowing stream or watercourse for use by construction equipment.
Su SURFACE ROUGHENING	A rough soil surface with horizontal depressions on a contour or slopes left in a roughened condition after grading.
Tc TURBIDITY CURTAIN	A floating staked barrier installed within the water.
Tr TREE PROTECTION	A devise installed to delineate the protection area for desirable trees, protecting them from injury during construction activity.
Wt VEGETATED WATERWAY OR STORMWATER CONVEYANCE CHANNEL	Paved or vegetative water outlets for diversions, terraces, berms, dikes or similar structure.

NOTE: THIS DETAIL SHEET IS FOR REFERENCE ONLY. FOR ANY DISCREPENCIES BETWEEN THIS DETAIL SHEET AND THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" (MANUAL), THE MANUAL SHALL CONTROL.

ALL EROSION CONTROL MEASURES SHALL BE IN ACCORDANCE WITH CURRENT "BEST MANAGEMENT PRACTICES" (BMP'S) AND SHALL CONFORM TO THE STANDARDS AND SPEC'S CONTAINED IN THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA", LATEST EDITION. THE MAINTENANCE OF CONTROL MEASURES AND THE INSTALLATION OF ADDITIONAL DEVICES SHALL BE COMPLETED AS NEEDED OR AS REQUIRED BY LOCAL AUTHORITIES.

NOT ISSUED FOR CONSTRUCTION

STATE SOIL AND WATER CONSERVATION COMMISSION OF GEORGIA UNIFORM CODING SYSTEM

Gaskins
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OLD NORCROSS ROAD
SIDEWALK IMPROVEMENTS

LAND LOTS 225 AND 254, 18TH DISTRICT,
CITY OF TUCKER, DEKALB COUNTY, GEORGIA
ZONED R3

REVISIONS

REV.	DATE	REVISION REFERENCE:

SHEET TITLE
GASWCC EROSION & SEDIMENT CONTROL DETAILS (2)

SEAL
GEORGIA PROFESSIONAL ENGINEER 23346 DAVID F. MASSEY

PROJECT I.D.	FIELD BOOK

DRAWN BY DAW	CHECKED BY DFM
SCALE NTS	ISSUE DATE 05.05.2021

SHEET NUMBER
CD2

Plotted By:dwburn Drawing name: P:\City of Tucker\Old Norcross Road Sidewalk Improvement\ENGINEERING\Submit\OLD NORCROSS - COVER.dwg Plotted on: May 07, 2021 - 2:33pm

Plotted By: dwilburn   Drawing name: P:\City of Tucker\Old Norcross Road Sidewalk Improvement\ENGINEERING\Submit\OLD NORCROSS – COVER.dwg   Plotted on: May 07, 2021 – 7:34pm

Ds1 DISTURBED AREA STABILIZATION (WITH MULCH ONLY)

MULCHING OR TEMPORARY GRASSING SHALL BE APPLIED TO ALL EXPOSED AREAS WITHIN 14 DAYS OF DISTURBANCE. MULCH CAN BE USED AS A SINGULAR SEASON EROSION CONTROL DEVICE FOR UP TO SIX MONTHS, BUT IT SHALL BE APPLIED AT THE APPROPRIATE DEPTH, DEPENDING ON THE MATERIAL USED, ANCHORED, AND HAVE A CONTINUOUS 90% COVER OR GREATER OF SOIL SURFACE.

MULCHING MATERIALS, APPLICATION AND ANCHORING:

1. DRY STRAW OR HAY SHALL BE APPLIED AT A DEPTH OF 2 TO 4 INCHES PROVIDING COMPLETE SOIL COVERAGE, APPLIED UNIFORMLY BY HAND OR MECHANICAL EQUIPMENT. SHALL BE PRESSED INTO THE SOIL WITH A DISK HARROW OR A 'PACKER DISK'. IF SPREAD BY BLOWER-TYPE EQUIPMENT, ASPHALT EMULSION SHALL BE SPRAYED ONTO THE MULCH AS IT IS EJECTED FROM MACHINE – 100 GALLONS OF EMULSIFIED ASPHALT AND 100 GALLONS OF WATER PER TON OF MULCH. TACKIFIERS AND BINDERS CAN BE SUBSTITUTED FOR EMULSIFIED ASPHALT. REFER TO 'MANUAL' Tb – TACKIFIERS AND BINDERS.
2. WOOD WASTE (CHIPS, SAWDUST OR BARK), SHALL BE APPLIED AT A DEPTH OF 2 TO 3 INCHES DEEP. NETTING OF APPROPRIATE SIZE SHALL BE USED TO ANCHOR.
3. CUTBACK ASPHALT (SLOW CURING) SHALL BE APPLIED UNIFORMLY AT A RATE OF 1,200 GALLONS PER ACRE (OR 1/4 GALLON PER S.Y.). USE ONLY IF PERMITTED BY LOCAL GOVERNMENT AUTHORITIES.
4. POLYETHYLENE FILM SHALL BE SECURED OVER BANKS OR STOCKPILED SOIL MATERIAL FOR TEMPORARY PROTECTION. ANCHOR TRENCHED AT TOP AS WELL AS INCREMENTALLY AS NECESSARY.

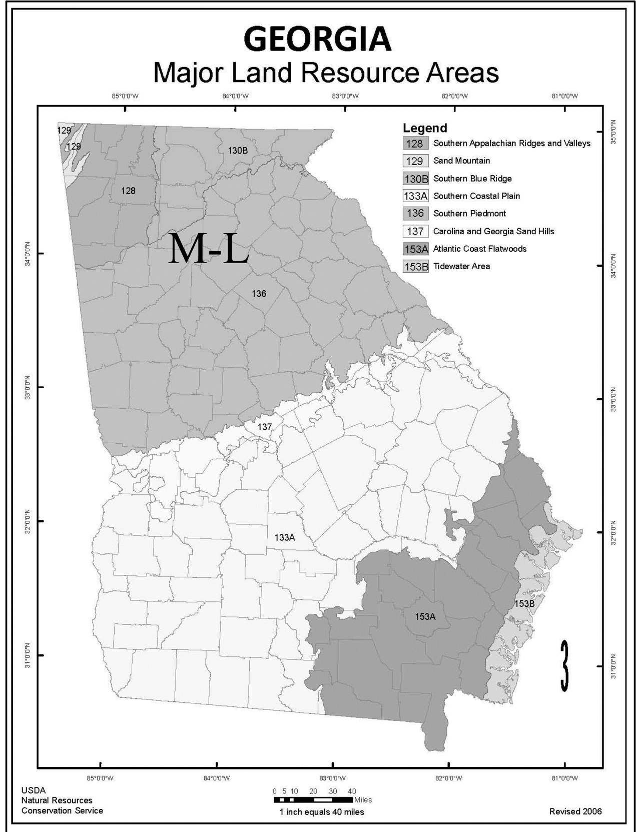


Figure 6-4.1

Ds2 DISTURBED AREA STABLIZATION (TEMP)

MULCHING OR TEMPORARY GRASSING SHALL BE APPLIED TO ALL EXPOSED AREAS WITHIN 14 DAYS OF DISTURBANCE.
TEMPORARY GRASSING CAN BE APPLIED TO ROUGH GRADED AREAS THAT WILL BE EXPOSED FOR LESS THAN 6 MONTHS.

SEEDBED PREPARATION:
- NOT REQUIRED WITH A HYDRAULIC SEEDER.
- WHEN SOIL HAS BEEN SEALED BY RAINFALL OR CONSISTS OF SMOOTH CUT SLOPES, THE SOIL SHALL BE PITTED, TRENCHED OR OTHERWISE SCARIFIED.

LIME & FERTILIZER:
- AGRICULTURAL LIME IS REQUIRED UNLESS SOIL TESTS INDICATE OTHERWISE. APPLY AGRICULTURAL LIME AT A RATE OF ONE TON PER ACRE. SEE EROSION CONTROL PLAN FOR FERTILIZER RATES. LIME AND FERTILIZER SHOULD BE APPLIED BEFORE LAND PREPARATION AND INCORPORATED WITH A DISK, RIPPER OR CHISEL.

SEEDING:
- SELECT A GRASS OR GRASS-LEGUME MIXTURE SUITABLE TO THE AREA AND SEASON OF THE YEAR. SEED SHALL BE APPLIED UNIFORMLY BY HAND, CYCLONE SEEDER, DRILL, CULTI-PACKER-SEEDER OR HYDRAULIC SEEDER. APPROPRIATE DEPTH OF PLANTING IS TEN TIMES THE SEED DIAMETER.
- **SEE BELOW FOR SITE-SPECIFIC SEEDING SPECIES, RATES AND PLANTING DATES.**

IRRIGATION:
- DURING TIMES OF DROUGHT, WATER SHALL BE APPLIED AT A RATE NOT CAUSING RUNOFF AND EROSION.

Ds2 SITE SPECIFIC TEMPORARY SEEDING SPECIEIS, RATES AND PLANTING DATES

Georgia Soil & Water Conservation Commission
Field Manual for Erosion and Sediment Control in Georgia (amended 2002)
[DS2] Table 1 - Some Temporary Plant Species, Seeding Rates and Planting Dates
Major Land Resource Area (MLRA):Refer to Figure 6-4.1

Species	Broadcast Rates per 1,000 s.f. (bu.)	Broadcast Rates per Acre (lbs.)	Planting Dates by Region M-L	P	C
Barley			9/15-10/31	9/15-11/15	10/1-12/31
alone	3.3	3			
in mixtures	0.6	0.5			
Lespedeza			3/1-3/31	3/1-3/31	2/1-2/28
annual	0.9	40			
in mixtures	0.2	10			
Lovegrass			4/1-5/31	4/1-5/31	3/1-5/31
weeping	0.1	4			
in mixtures	0.05	2			
Millet			4/15-6/15	4/15-6/30	4/15-6/30
browntop	0.9	40			
in mixtures	0.2	10			
Millet			5/15-7/15	5/1-7/31	4/15-8/15
pearl	1.1	50			
Oats			9/15-11/15	9/15-11/15	9/15-11/15
alone	2.99	4			
in mixtures	0.7	1			
Rye			8/15-10/31	9/15-11/30	10/1-13/31
alone	3.9	3			
in mixtures	0.6	0.5			
Ryegrass			8/15-11/15	9/1-12/15	9/15-12/31
	0.9	40			
Sudangrass			5/1-7/31	5/1-7/31	4/1-7/31
	1.4	60			
Triticale			N/A	N/A	10/15-11/30
alone	3.3	3			
in mixtures	0.6	0.5			
Wheat			9/15-11/30	10/1-12/15	10/15-12/31
alone	4.1	3			
in mixtures	0.7	0.5			

Ds2 FERTILIZER REQUIREMENTS FOR TEMPORARY VEGETATION

Georgia Soil & Water Conservation Commission
Field Manual for Erosion and Sediment Control in Georgia (amended 2002)
[DS2] Table 2 - Fertilizer Requirements for Temporary Vegetation
Major Land Resource Area (MLRA):Refer to Figure 6-4.1

Species	Planting Year	Fertilizer (N-P-K)	Rates (lbs/acre)	N Top Dressing Rate (lbs/acre)
Cool Season Grasses	First	6-12-12	1500	50-100
	Second	6-12-12	1000	---
	Maintenance	10-10-10	400	30
Cool Season Grasses & Legumes	First	6-12-12	1500	0-50
	Second	0-10-10	1000	---
	Maintenance	0-10-10	400	---
Temporary Cover Crops Seeded Alone	First	10-10-10	500	30
Warm Season Grasses	First	6-12-12	1500	50-100
	Second	6-12-12	800	50-100
	Maintenance	10-10-10	400	30

Ds3 DISTURBED AREA STABLIZATION (PERMANENT)

THIS PRACTICE SHALL BE APPLIED IMMEDIATELY TO ROUGH GRADED AREAS THAT WILL BE UNDISTURBED FOR LONGER THAN SIX MONTHS. THIS PRACTICE OR SODDING (DS4) SHALL BE APPLIED IMMEDIATELY TO ALL AREAS AT FINAL GRADE.

LIME & FERTILIZER:
- AGRICULTURAL LIME IS REQUIRED UNLESS SOIL TESTS INDICATE OTHERWISE. APPLY AGRICULTURAL LIME AT A RATE OF ONE TO TWO TONS PER ACRE. SEE EROSION CONTROL PLAN FOR FERTILIZER RATES.
- IF HYDRAULIC SEEDING EQUIPMENT IS USED, THE INITIAL FERTILIZER SHALL BE MIXED WITH SEED, INNOCULANT (IF NEEDED), AND WOOD CELLULOSE OR WOOD PULOP FIBER MULCH AND APPLIED IN A SLURRY.
- IF APPLIED BY HAND, FERTILIZER SHOULD BE APPLIED BEFORE LAND PREPARATION AND INCORPORATED WITH A DISK, RIPPER OR CHISEL.

PLANT SELECTION:
- **SEE BELOW FOR SITE-SPECIFIC SEEDING SPECIES, RATES AND PLANTING DATES.**

SEEDBED PREPARATION:
- MAY NOT BE REQUIRED WHERE A HYDRAULIC SEEDING AND FERTILIZING EQUIPMENT IS TO BE USED.
- WHERE CONVENTIONAL SEEDING IS TO BE USED:
  - BROADCAST PLANTINGS – TILL 4-6 INCHES OF SOIL TO ALLEVIATE COMPACTION, INCORPORATE LIME AND FERTILIZER, AND SMOOTH/FIRM THE SOIL. TILL ON THE CONTOUR WHERE FEASIBLE.
  - INDIVDUAL PLANTS – SOIL SHALL BE PREPARED BY EXCAVATING HOLES, OPENING FURROWS OR DIBBLE PLANTING. HOLES SHALL BE LARGE ENOUGH TO ACCOMMODATE ROOTS WITHOUT CROWDING.

INNOCULANTS:
- ALL LEGUME SEED SHALL BE INNOCULATED WITH APPROPRIATE NITROGEN-FIXING BACTERIA. ALL INNOCULANTS SHALL BE A PURE CULTURE PREPARED SPECIFICALLY FOR THE SEED SPECIES AND USED WITHIN THE DATES ON THE CONTAINER.

PLANTING:
- HYDRAULIC SEEDING – TO BE INCLUDED IN MIXTURE AS DESCRIBED IN LIME & FERTILZER SECTION ABOVE.
- CONVENTIONAL SEEDING – ON A FRESHLY PREPARED AND FIRMED SEEDBED. SEED SHALL BE APPLIED UNIFIORMLY BY HAND, CYCLONE SEEDER, DRILL, CULTI-PACKER-SEEDER OR HYDRAULIC SEEDER.
- INDIVIDUAL PLANTS – PLANTED WITH APPROPRIATE PLANTERS OR HAND TOOLS.

MULCHING:
- SEE DS1 – DISTURBED AREA WITH MULCHING ONLY FOR SPECIFICATIONS.

ANCHORING MULCH:
- SEE DS1 – DISTURBED AREA WITH MULCHING ONLY FOR SPECIFICATIONS.

BEDDING MATERIAL:
- GRAIN STRAW – 4"-6" DEPTH
- GRASS HAY – 4"-6" DEPTH
- PINE NEEDLES – 3"-5" DEPTH
- WOOD WASTE – 4"-6" DEPTH

IRRIGATION:
- IRRIGATION WILL BE APPLIED AT A RATE THAT WILL NOT CAUSE RUNOFF.

TOPDRESSING, SECOND-YEAR AND MAINTENANCE FERTILIZER:
- TO BE APPLIED ON ALL TEMPORARY AND PERMANENT SPECIES PLANTED ALONE OR IN MIXTURES WITH OTHER SPECIES. SEE EROSION CONTROL PLAN FOR FERTILIZER RATES.

LIME MAINTENANCE APPLICATION:
- APPLY ONE TON OF AGRICULTURAL LIME EVERY 4 TO 6 YEARS OR AS INDICATED BY SOIL TESTS.

Ds3 SITE-SPECIFIC PERMANENT PLANT SPECIES, SEEDING RATES AND PLANTING DATES

Georgia Soil & Water Conservation Commission
Field Manual for Erosion and Sediment Control in Georgia (amended 2002)
[DS3] Table 1 - Some Permanent Plant Species, Seeding Rates and Planting Dates
Major Land Resource Area (MLRA):Refer to Figure 6-4.1

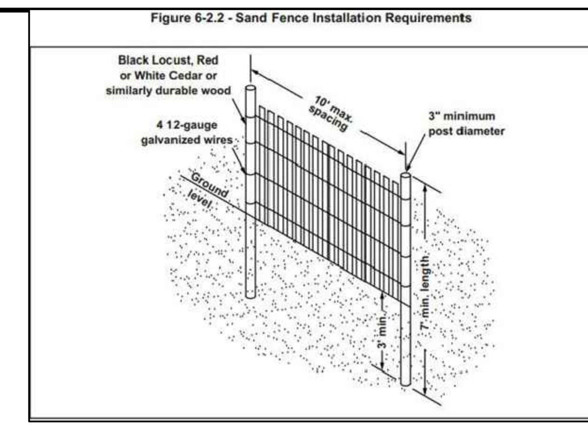
Species	Broadcast Rates per 1,000 s.f. (bu.)	Broadcast Rates per Acre (lbs.)	Planting Dates by Region M-L	P	C	Remarks
Bahia, Pensacola			---	4/1-5/31	3/1-5/31	Low growing; sod producing; will spread into Bermuda lawns.
alone or with temp. cover	1.4	60				
with other perennials	0.7	30				
Bahia, Wilmington			3/15-5/31	3/1-5/31	---	Same as above
alone or with temp. cover	1.4	60				
with other perennials	0.7	30				
Bermuda, Common (Hulled Seed)			---	4/1-5/31	3/15-5/31	Quick cover; low growing; sod forming; needs full sun
alone	0.2	10				
with other perennials	0.1	6				
Bermuda, Common (Unhulled Seed)			---	10/1-2/28	11/1-1/31	Plant with Winter annuals. Plant with tall Fescue.
with temp. cover	0.2	10				
with other perennials	0.1	6				
Bermuda Sprigs			4/15-6/15	4/1-6/15	4/1-5/31	1 c.f. = 650 springs ; 1 bu. = 1.25 c.f. or 800 sprigs
common lawn and forage hybrids	40 c.f.	0.9 c.f.				
	sod plugs 3'X3'					
Centipede			---	11/1-5/31	11/1-5/31	Drought tolerant; full sun or partial shade
	block sod ONLY					
Crown Vetch			9/1-10/15	9/1-10/15	---	Mix with 30 lbs Tall Fescue or 15 lbs Rye; inoculate seed; plant only North of Atlanta
with winter annuals or cool season grasses	0.3	15				
Fescue, Tall			3/1-4/15 or 8/15-10/15	9/1-10/15	---	Can be mised with perennial Lespedezas or Crown Vetch; not for droughty soils or heavy use areas
alone	1.1	50				
with other perennials	0.7	30				
Lespedeza, Sericea						
scarified	1.4	60	4/1-5/31	3/15-5/31	3/1-5/15	Widely adapted and low maintenance; takes 2-3 years to establish; inoculate seeds with EL inoculant; mix with Weeping Lovegrass, Common Bermuda, Bahia or Tall Fescue
unscarified	1.7	75	9/1-2/28	9/1-2/28	9/1-2/28	Mix with Tall Fescue or Winter annuals
seed-bearing hay	138	3 tons	10/1-2/28	10/1-1/31	10/15-1/15	Cut when seed is mature but before it shatters. Add Tall Fescue of Winter annuals
Lespedeza, Ambro Virgata or Appalow						Spread growth with height of 18"-24"; good in urban areas; slow to develop good stands; mix with Weeping Lovegrass, Common Bermuda, Bahia, Tall Fescue or Winter annuals; do not mix with Sericea Lespedeza; inocluate seed with EL inocluant.
scarified	1.4	60	4/1-5/31	3/15-5/31	3/1-5/15	
unscarified	1.7	75	9/1-2/28	9/1-2/28	9/1-2/28	
Lespedeza, Shrub (Lespedeza Bicolor or Lespedeza Thumbergii)			10/1-3/31	11/1-3/15	11/15-2/28	Plant in small clumps for wildlife food and cover
	3'x 3' Spacing					
Lovegrass, weeping			4/1-5/31	3/15-5/31	3/1-5/31	Quick cover; drought tolerant; growns well with Sericea Lespedeza on road banks and other steep slopes; short lived
alone	0.1	4				
with other perennials	0.05	2				
Maidencane Sprigs			2/1-3/31	2/1-3/31	2/1-3/31	For very wet sites such as riverbanks and shorelines. Dig sprigs locally.
	2' x 3' Spacing					
Panicgrass, Atlantic Coast			---	3/1-4/30	3/1-4/30	Grows well in coastal sand dunes; mix with Sercea Lespedeza but not on sand dunes
	0.5	20				
Reed Canary Grass			8/15-10/15	9/1-10/15	---	Grows similar to Tall Fescue; for wet sites
alone	1.1	50				
with other perennials	0.7	30				
Sunflower, Aztec Maximillian						Mix with Weeping Lovegrass or other low growing grasses or lugumes.
	0.2	10	4/15-5/31	4/15-5/31	4/1-5/31	

Ds3 FERTILIZER REQUIREMENTS FOR PERMANENT VEGETATION

Georgia Soil & Water Conservation Commission
Field Manual for Erosion and Sediment Control in Georgia (amended 2002)
[DS3] Table 2 - Fertilizer Requirements for Temporary Vegetation
Major Land Resource Area (MLRA):Refer to Figure 6-4.1

Species	Planting Year	Fertilizer (N-P-K)	Rates (lbs/acre)	N Top Dressing Rate (lbs/acre)
Cool Season Grasses	First	6-12-12	1500	50-100
	Second	6-12-12	1000	---
	Maintenance	10-10-10	400	30
Cool Season Grasses & Legumes	First	6-12-12	1500	0-50
	Second	0-10-10	1000	---
	Maintenance	0-10-10	400	---
Warm Season Grasses	First	6-12-12	1500	50-100
	Second	6-12-12	800	50-100
	Maintenance	10-10-10	400	30
Warm Season Grasses & Legumes	First	6-12-12	1500	50
	Second	0-10-10	1000	---
	Maintenance	0-10-10	400	---

Figure 6-2.2 - Sand Fence Installation Requirements



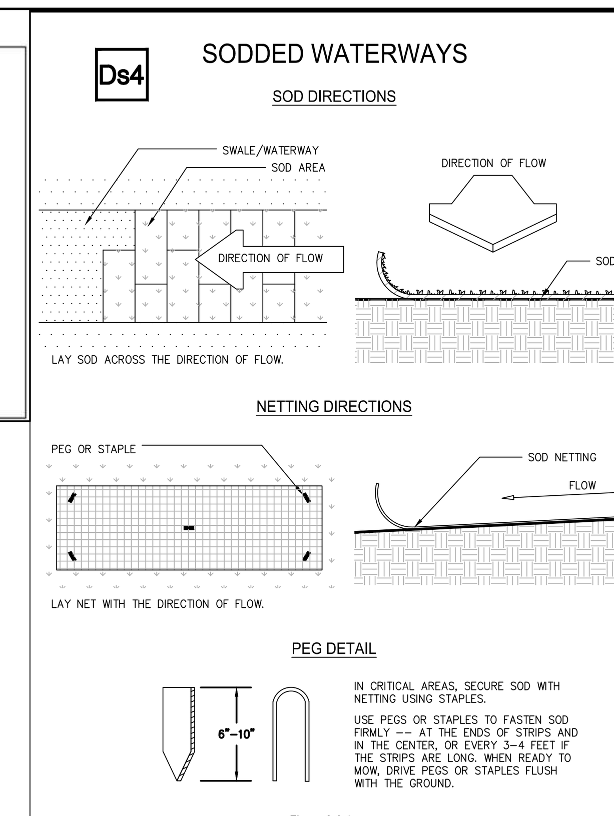


Figure 6-6.1

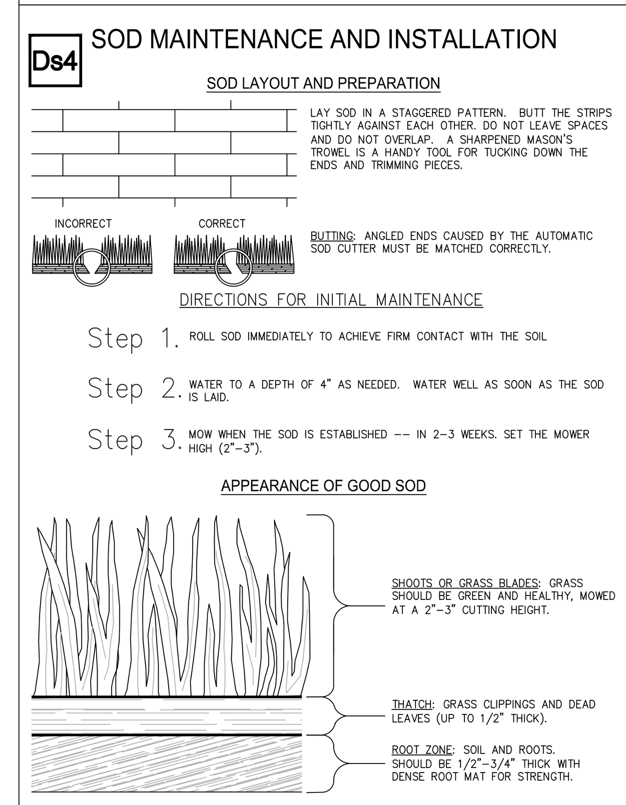


Figure 6-6.2

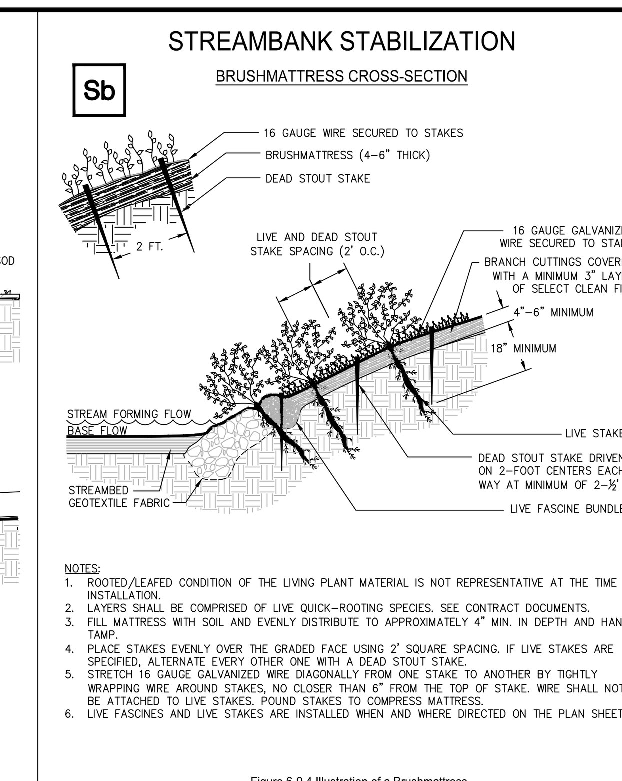


Figure 6-9.4 Illustration of a Brushmattress

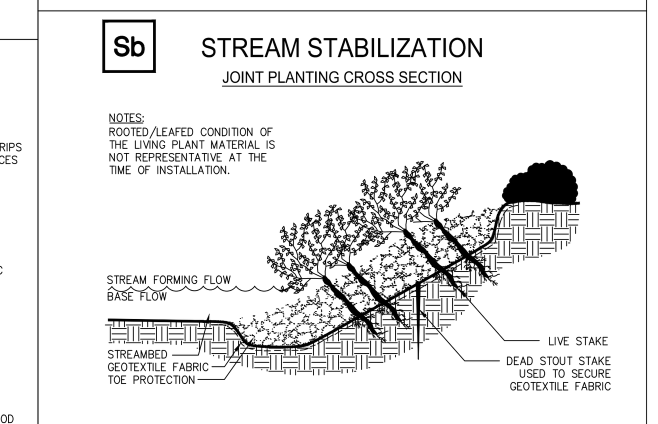


Figure 6-9.5 Illustration of Joint Planting

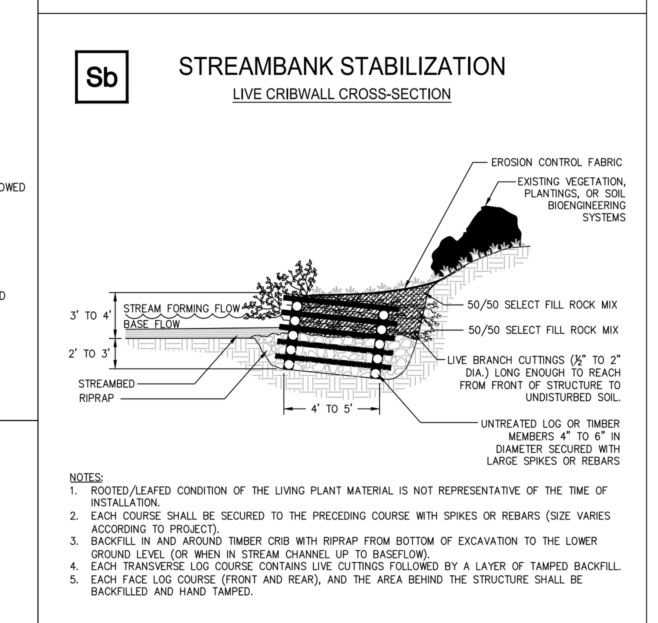


Figure 6-6 Illustration of a Live Cribwall

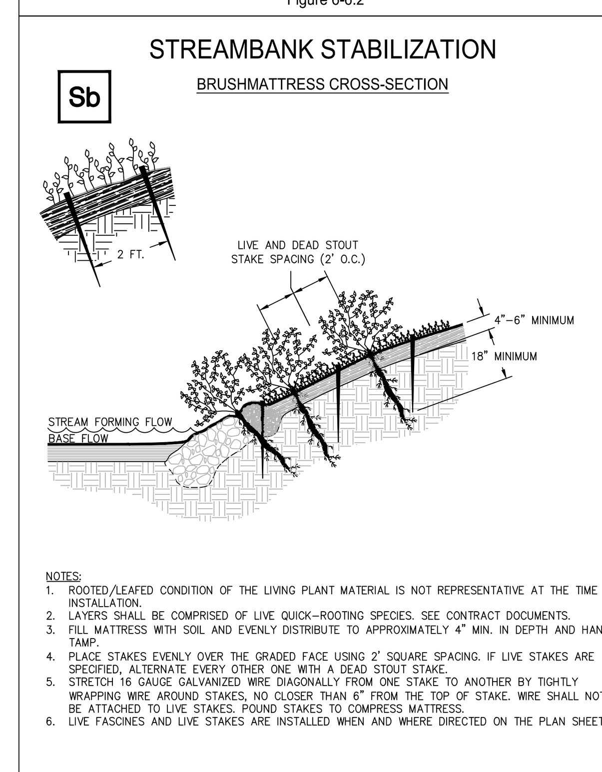


Figure 6-9.1 Illustration of a Live Stake

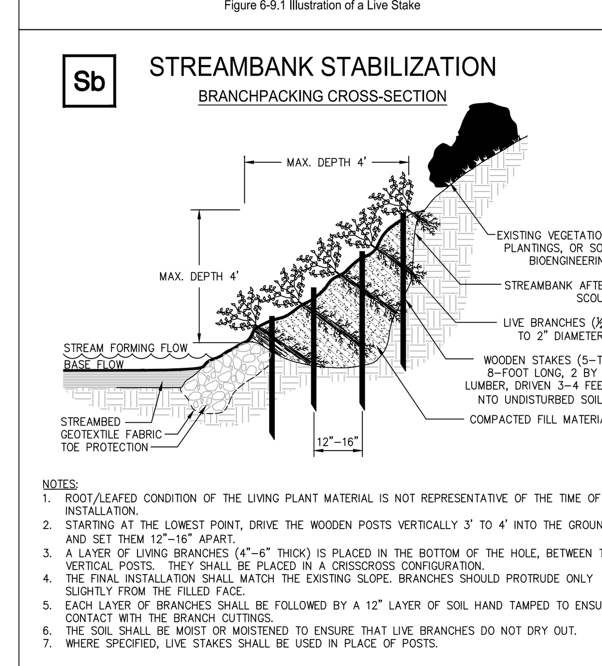


Figure 6-9.3 Illustration of a Branchpacking

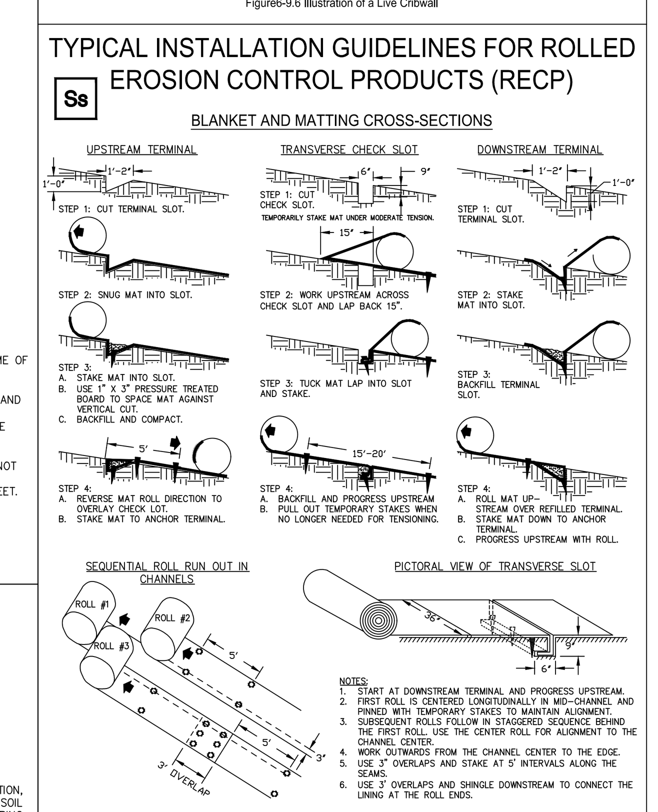


Figure 6-10.1 - Typical Installation Guidelines for Matting and Blankets

Fl-Co FLOCCULANTS AND COAGULANTS

PLANNING CONSIDERATIONS
- SINCE SETTLING OF FLOCCULATED SOIL PARTICLES REQUIRES VERY SLOW MOVING (STILL WATER, CHEMICAL ADDITIVES SHOULD NEVER BE INTRODUCED INTO AN OUTFALL BMP WHERE WATER LEAVES THE PROPERTY OR ENTERS STATE WATERS. IN ALL CASES WHERE CHEMICAL ADDITIVES ARE USED TO REDUCE TURBIDITY, IT IS ESSENTIAL TO INCLUDE A SEDIMENT BASIN OR SEDIMENT TRAP UNLESS USING A "PUMP AND TREAT" TREATMENT SYSTEM.

CRITERIA
(APPLICATION RATES SHALL CONFORM TO MANUFACTURER'S GUIDELINES FOR APPLICATION. ONLY ANIONIC FORMS OF Fl-Co SHALL BE USED)

FOLLOWING ARE EXAMPLES OF FL-Co APPLICATIONS WITHIN CONSTRUCTION STORM WATER DITCHES OR DRAINAGE-WAYS WHICH FEED INTO SEDIMENT BASINS OR OTHER BMPs:
- FL-Co BAGS OR SOCS THAT ARE INSTALLED DIRECTLY IN A DITCH, PIPE OR CULVERT.
- FL-Co TREATED DITCH CHECKS (I.E. FIBER ROLLS, WATTLES, OR COMPOST LOGS INOCULATED OR USED IN CONJUNCTION WITH FL-Co).
- GRANULATED FL-Co TREATED ROCK DITCH CHECKS.
- DITCH CHECKS WITH ATTACHED FL-Co BAGS OR SOCS.
- ADDITION OF GRANULAR FL-Co DIRECTLY INTO A DITCH
- EROSION CONTROL BLANKETS AND TURF REINFORCEMENT MATS THAT HAVE BEEN INOCULATED WITH FL-Co.
- "PUMP AND TREAT" SYSTEMS THAT USED MECHANICAL MIXING WITH A CHEMICAL TREATMENT OF FL-Co.

OPERATION AND MAINTENANCE
- APPLICATION RATES SHALL CONFORM TO MANUFACTURER'S GUIDELINES FOR APPLICATIONS. MAINTENANCE SHALL CONSIST OF REAPPLYING FL-Co VIA ONE OF MEANS ABOVE WHEN TURBIDITY LEVELS ARE NO LONGER MET OR THE FL-Co IS USED UP. BRICKS, BLOCKS, SOCKS, LOGS AND BAGS SHALL BE MAINTAINED WHEN SEDIMENT ACCUMULATES ON THE PRODUCTS.

VEGETATIVE PRACTICES

CODE	DESCRIPTION
Bf BUFFER ZONE	A strip of undisturbed original vegetation, enhanced or restored existing vegetation or the reestablishment of vegetation surrounding an area of disturbance or bordering streams.
Cs COASTAL DUNE STABILIZATION	Planting vegetation on dunes that are denuded, artificially constructed, or renourished.
Ds1 DISTURBED AREA STABILIZATION (WITH MULCHING ONLY)	Establishing a temporary protection for disturbed areas where seedings may not have a suitable growing season to produce an erosion retarding cover.
Ds2 DISTURBED AREA STABILIZATION (WITH TEMPORARY SEEDING)	Establishing a temporary vegetative cover with fast growing seedings on disturbed areas.
Ds3 DISTURBED AREA STABILIZATION (WITH PERMANENT VEGETATION)	Establishing a permanent vegetative cover sush as trees, shrubs, vines, grasses, sod, or legumes on disturbed areas.
Ds4 DISTURBED AREA STABILIZATION (WITH SODDING)	A permanent vegetative cover using sods on highly erodible or critically eroded lands.
Du DUST CONTROL ON DISTURBED AREAS	Controlling surface and air movement of dust on construction site, roadways and similar sites.
Ss EROSION CONTROL MATTING AND BLANKETS	The installation of a protective covering (blanket) or soil stabilization mat on a prepared planting area of a steep slope, channel, or shoreline.
Fl-Co POLYACRYLAMIDE (PAM)	The land application of product containing anionic polyacrylamide (PAM) as temporary soil binding agents to reduce soil erosion.
Tac TACKIFIERS	Substance used to anchor straw or hay mulch by causing the organic material to bind together.

ALL EROSION CONTROL MEASURES SHALL BE IN ACCORDANCE WITH CURRENT "BEST MANAGEMENT PRACTICES" (BMP'S) AND SHALL CONFORM TO THE STANDARDS AND SPEC'S CONTAINED IN THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA", LATEST EDITION. THE MAINTENANCE OF CONTROL MEASURES AND THE INSTALLATION OF ADDITIONAL DEVICES SHALL BE COMPLETED AS NEEDED OR AS REQUIRED BY LOCAL AUTHORITIES.

NOTE: THIS DETAIL SHEET IS FOR REFERENCE ONLY. FOR ANY DISCREPENCIES BETWEEN THIS DETAIL SHEET AND THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" (MANUAL), THE MANUAL SHALL CONTROL.

STATE SOIL AND WATER CONSERVATION COMMISSION OF GEORGIA UNIFORM CODING SYSTEM

NOT ISSUED FOR CONSTRUCTION

OLD NORCROSS ROAD
SIDEWALK IMPROVEMENTS
LAND LOTS 225 AND 254, 18TH DISTRICT, CITY OF TUCKER, DEKALB COUNTY, GEORGIA
ZONED R3

Gaskins
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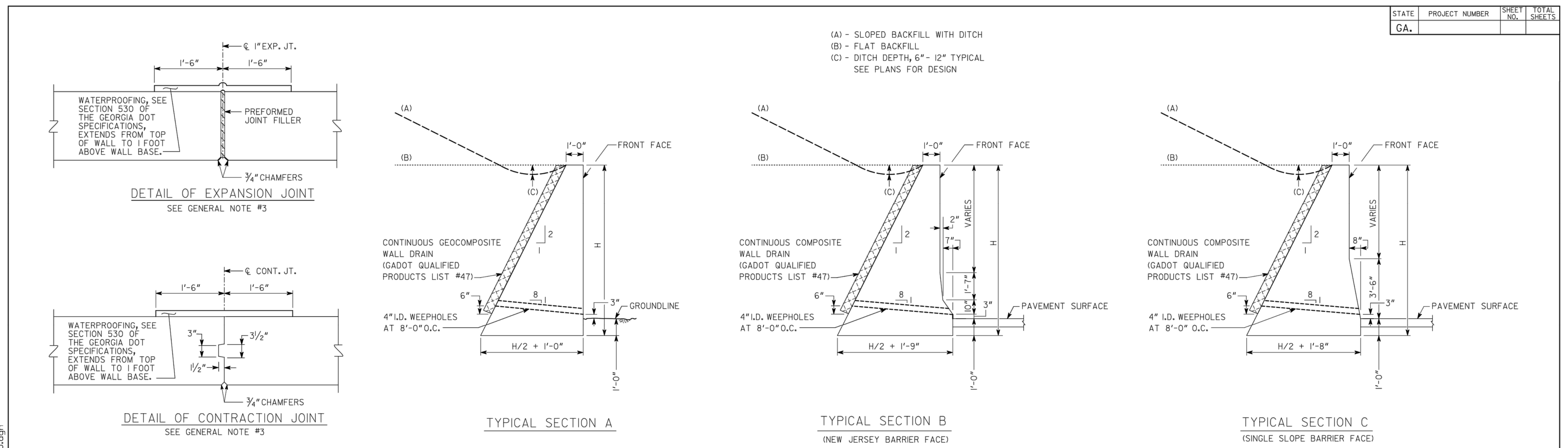
REVISIONS		
REV.	DATE	REVISION REFERENCE:

SHEET TITLE
GASWCC EROSION & SEDIMENT CONTROL DETAILS (3)

SEAL
GEORGIA PROFESSIONAL ENGINEER 23346 DAVID F. MASSEY

PROJECT I.D. ----	FIELD BOOK
DRAWN BY DAW	CHECKED BY DFM
SCALE NTS	ISSUE DATE 05.05.2021
SHEET NUMBER CD3	



MAXIMUM "H"*			
BACKSLOPE	TYP. SECTION A	TYP. SECTION B **	TYP. SECTION C **
FLAT	8'-6"	10'-0"	10'-0"
SLOPE TO 4:1	6'-3"	7'-0"	7'-0"
SLOPE TO 2:1	4'-6"	4'-9"	4'-9"

* GREATER "H" PERMITTED IF APPROVED BY BRIDGE DESIGN.
** TYPICAL SECTION B SHALL HAVE A MINIMUM H OF 3'-8"
TYPICAL SECTION C SHALL HAVE A MINIMUM H OF 4'-6"

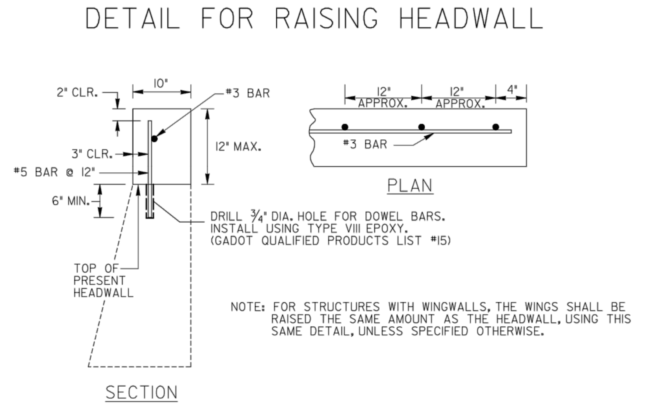
GENERAL NOTES:

1. GRAVITY WALLS SHALL NOT BE USED WHEN HORIZONTAL DISTANCE FROM EDGE OF TRAVEL WAY TO FRONT FACE OF WALL IS LESS THAN (H + 1'0").
2. GRAVITY WALLS DESIGNED FOR THE FOLLOWING SOIL PROPERTIES:

	FOUNDATION	BACKFILL
COHESION =	0 PSF	0 PSF
θ =	28°	28°
UNIT WEIGHT =	120 PCF	120 PCF

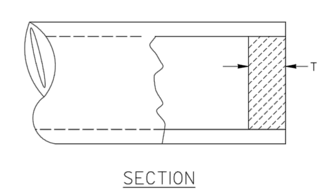
3. EXPANSION JOINTS SHALL BE LOCATED AT A MAXIMUM SPACING OF 90'-0" AND EXTEND THROUGH THE WALL. CONTRACTION JOINTS SHALL BE LOCATED AT A MAXIMUM SPACING OF 30'- 0".
4. GRAVITY WALLS WITH A VERTICAL FRONT FACE SHALL BE PAID FOR AS "CLASS B CONCRETE OR MORTAR RUBBLE MASONRY, RETAINING WALL". GRAVITY WALLS WITH A BARRIER FRONT FACE SHALL BE PAID FOR AS "CLASS A CONCRETE, RETAINING WALL". WATERPROOFING, JOINT FILLER, WALL DRAIN, AND OTHER INCIDENTAL ITEMS SHALL BE INCLUDED IN OVERALL BID SUBMITTED.
5. A CONCRETE DITCH DETAIL FOR THE TOP OF THE WALL SHOULD BE INCLUDED IN THE ROADWAY PLANS WHEN WATER IS FLOWING TOWARDS THE BACK OF THE WALL. SEE CONSTRUCTION DETAIL D-49.
6. FINISH EXPOSED SURFACES OF THE WALL WITH A TYPE III FINISH.
7. APPLY GRAFFITI PROOF COATING AS PER SECTIONS 500 AND 838 OF THE GEORGIA DOT SPECIFICATIONS.
8. ALL NECESSARY FENCE AND HANDRAIL SHOULD BE INCLUDED IN THE ROADWAY PLANS WHEN APPROPRIATE.
9. GRAVITY WALL TYPICAL SECTIONS A, B, AND C HAVE BEEN DESIGNED PER THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 7TH EDITION, 2014.

DETAIL FOR RAISING HEADWALL



NOTE: FOR STRUCTURES WITH WINGWALLS, THE WINGS SHALL BE RAISED THE SAME AMOUNT AS THE HEADWALL, USING THIS SAME DETAIL, UNLESS SPECIFIED OTHERWISE.

TYPICAL PIPE PLUG

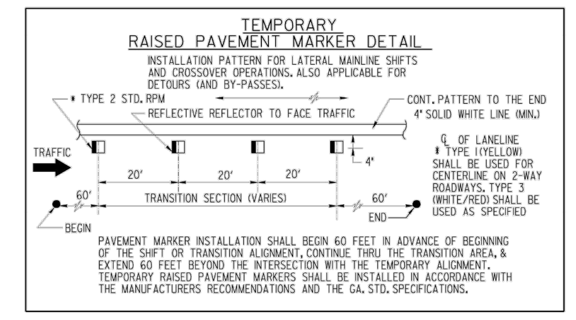


NOTE: PLAN PAY QUANTITIES ARE TO REFLECT PIPE PLUGS AS CU. YDS. OF CL. B CONCRETE. ON CONSTRUCTION PLUGS MAY BE BUILT WITH BRICK MASONRY, MORTAR RUBBLE MASONRY, OR CL. B CONC. WITH NO ADJUSTMENT IN PAYMENT MADE FOR ALTERNATES.

D	T (MIN)	PIPE PLUG (CU. YDS.)
12"	8"	0.0194
15"	8"	0.0303
18"	8"	0.0436
24"	8"	0.0776
30"	8"	0.1212
36"	8"	0.1745
42"	8"	0.2376
48"	8"	0.3103
54"	12"	0.5890
60"	12"	0.7272
66"	12"	0.8799
72"	12"	1.0472

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA
STANDARD
GRAVITY WALL TYPICAL SECTIONS, RAISING HEADWALL, AND TYPICAL PIPE PLUG
NO SCALE: REV. & REDR. SEPT, 2016
REV. & REDR. C.E.W. (SUBMITTED) STATE ROAD & AIRPORT DESIGN ENGR.
CHK. D.D.F. (APPROVED) STATE HIGHWAY ENGINEER
NUMBER 9031L
SHEET 1 OF 2

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			



STANDARD LEGEND

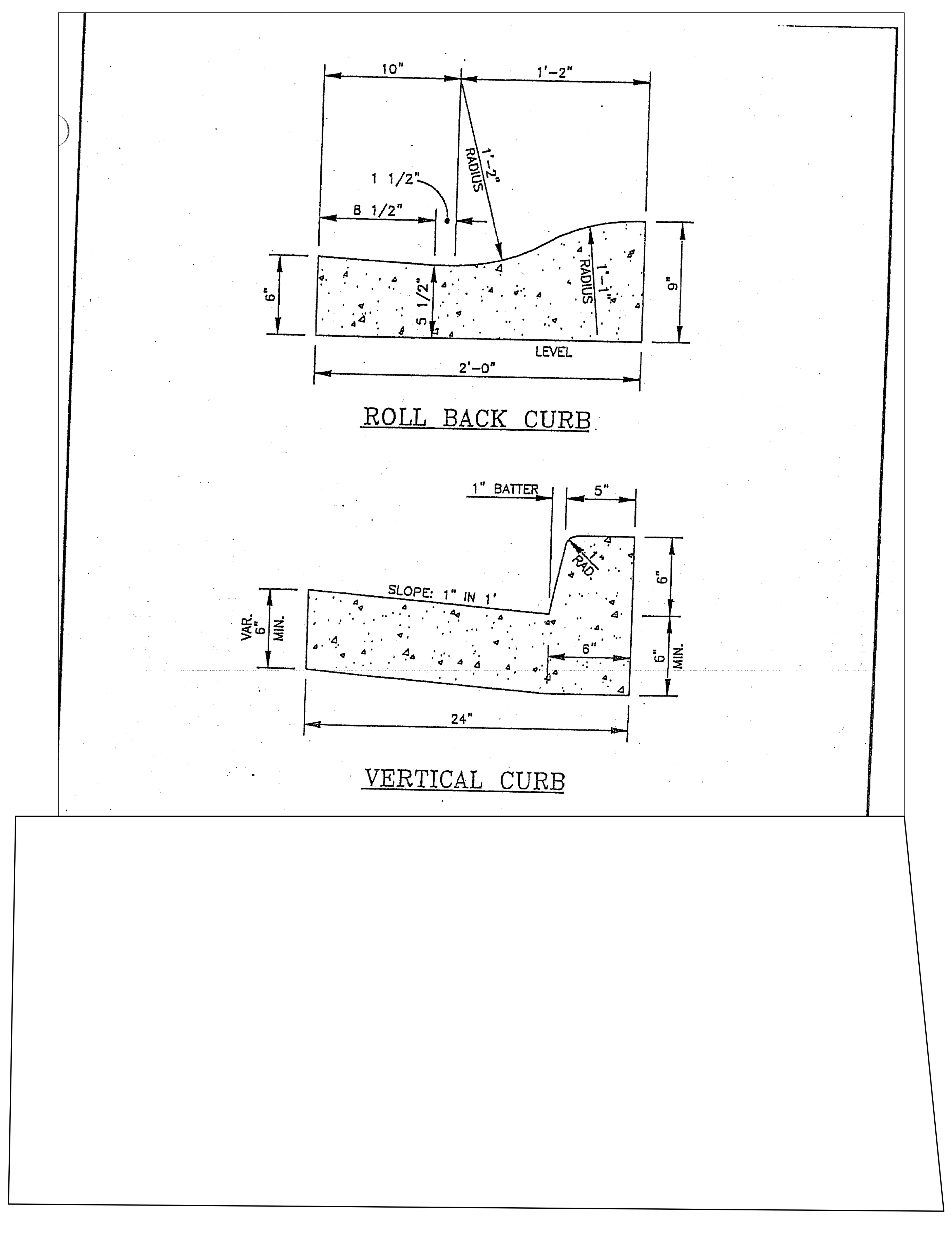
- STRIPED DRUM
- TYPE III BARRICADES
- SPECIAL BARRICADE WITH BI-DIRECTIONAL, TYPE "C" STEADY BURNING LIGHT OR HIGHWAY SIGN AS SPECIFIED (SEE DETAIL)
- SEQUENTIAL OR FLASHING ARROW
- PORTABLE CHANGEABLE MESSAGE SIGN
- PERMANENT TYPE POST MOUNTED SIGN
- TEMPORARY POST MOUNTED SIGN
- PORTABLE MOUNTED SIGN - FLAGS NOT REQUIRED
- WORK AREA
- TRAFFIC CONE - 28" MIN. - (DAYTIME USE ONLY)
- FLAGGER WITH STOP-SLOW PADDLE
- TRAFFIC IMPACT ATTENUATOR (CRASH CUSHION)
- TYPE I CLEAR (WHITE) DELINEATOR - SINGLE FACE
- TYPE I YELLOW DELINEATOR - SINGLE FACE
- TYPE I CLEAR (WHITE) DELINEATOR DOUBLE FACE
- TYPE I YELLOW DELINEATOR DOUBLE FACE

GENERAL NOTES :

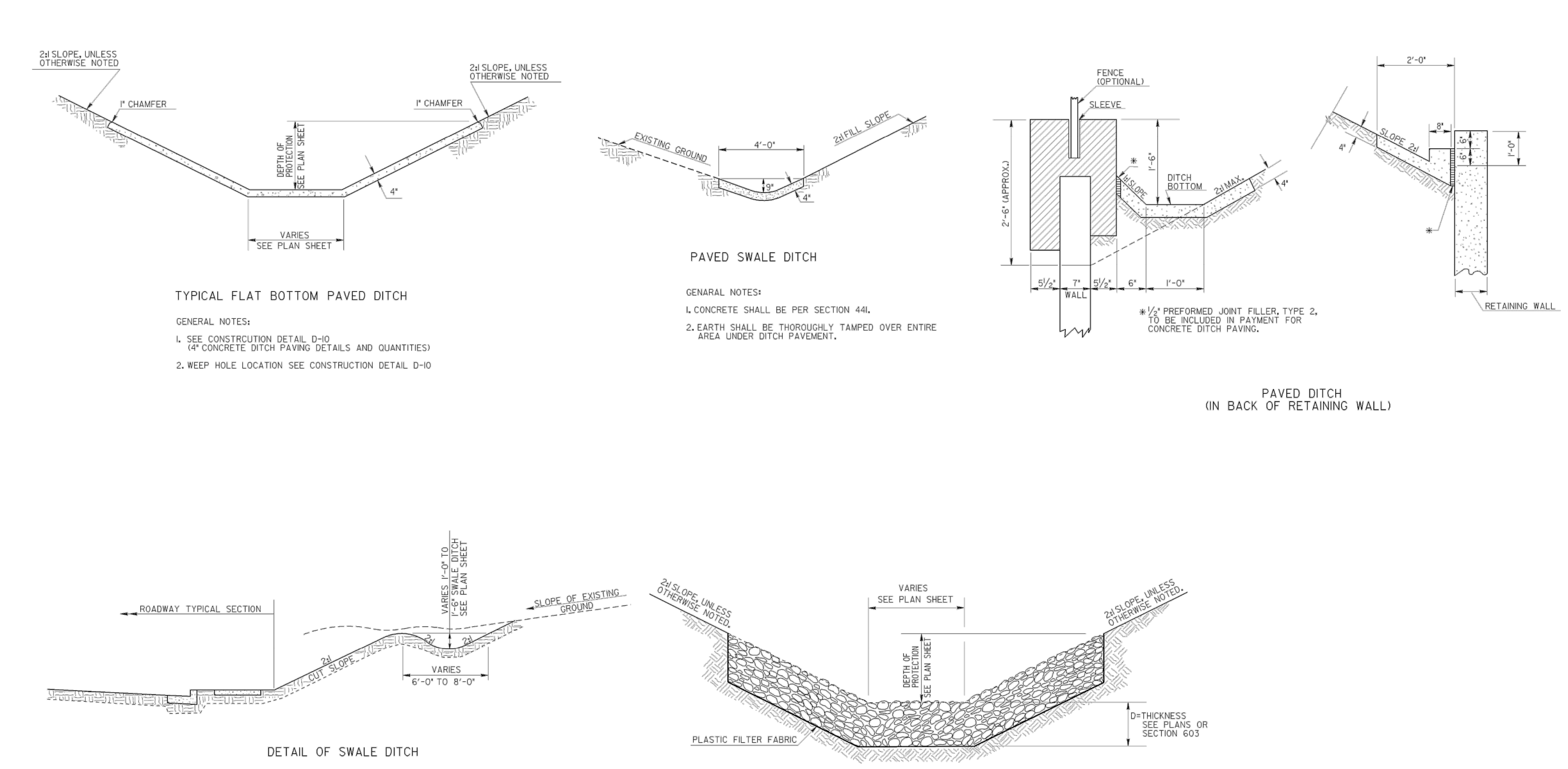
1. ALL TRAFFIC CONTROL DEVICES SHALL BE MADE AND ERECTED IN ACCORDANCE WITH THE DETAILS SHOWN ON THE PLANS; THE MUTCD; THE GEORGIA STANDARD SPECIFICATIONS, AND/OR SPECIAL PROVISIONS. (SEE SECTION 150)
2. ALL TRAFFIC CONTROL DEVICES SHALL BE AS SHOWN, OR AS DIRECTED BY THE ENGINEER. ADDITIONAL DEVICES MAY BE REQUIRED AS DIRECTED BY THE ENGINEER.
3. ALL PORTABLE SIGNS SHALL BE MOUNTED A MINIMUM OF 1 FOOT ABOVE THE LEVEL OF PAVEMENT EDGE FOR DIRECTIONAL TRAFFIC OF TWO (2) LANES OR LESS AND A MINIMUM OF 7 FEET FOR DIRECTIONAL OF THREE (3) OR MORE LANES. ALL PORTABLE SIGNS AND SIGN MOUNTING DEVICES UTILIZED IN THE WORK SHALL BE NCHRP 350 COMPLIANT. PORTABLE SIGNS MAY BE USED WHEN THE DURATION OF THE WORK IS LESS THAN 3 DAYS.
4. WHEN THE CONSTRUCTION AREA HAS ENTRANCE/EXIT RAMPS OR INTERSECTIONS, WORK WILL BE PERFORMED IN SUCH A MANNER TO PERMIT TRAFFIC TO OPERATE WITH THE LEAST AMOUNT OF INCONVENIENCE AS POSSIBLE. ADDITIONAL CHANNELIZATION AND SIGNING SHALL BE INSTALLED, AS REQUIRED, TO ALLOW TRAFFIC TO REMAIN AS OPERATIONAL AS POSSIBLE. WHEN ENTRANCE RAMPS/INTERSECTIONS ARE INOPERABLE, FLAGGERS WILL BE UTILIZED TO CONTROL AND PROHIBIT MOVEMENT INTO THE PROJECT AT THAT POINT UNTIL CONSTRUCTION HAS CLEARED THE RESTRICTION SUFFICIENT TO RETURN TO OPERATIONAL STATUS.
5. FOR NIGHT TIME OPERATIONS, DRUMS SHALL HAVE, FOR THE LENGTH OF THE TAPER ONLY, A SIX (6") INCH ORANGE REFLECTIZED TOP STRIPE ON EACH DRUM IN THE TAPER AS REQUIRED IN SECTION 150. SPACING OF DEVICES SHALL BE AS SHOWN. DURING DAYLIGHT HOURS, CONES (28" MIN.) MAY BE USED IN ADVANCE OF AND THROUGHOUT WORK AREA.
6. SIGN LOCATIONS ARE APPROXIMATE AND MAY BE ADJUSTED TO MEET FIELD CONDITIONS BUT MUST BE WITHIN THE LIMITATIONS SET FORTH IN THE MUTCD.
7. A PORTABLE SELF-SUSTAINED SEQUENTIAL OR FLASHING ARROW SIGN SHALL BE USED AT THE BEGINNING OF EACH LANE CLOSURE ON MULTI-LANE HIGHWAYS. ARROW PANELS SHALL NOT BE USED ON TWO-LANE TWO-WAY HIGHWAYS EXCEPT IN CAUTION MODE.
8. WHEN NOT IN USE, PORTABLE SIGNS SHALL BE REMOVED FROM THE TRAVELWAY SO THAT THE MESSAGE IS NOT VISIBLE TO THE MOTORIST. INTERIM SIGNS THAT ARE PERMANENTLY MOUNTED SHALL BE COVERED WHEN NOT APPLICABLE. SEE SECTION 150.
9. PROJECT SIGNS W20-1, G20-1 & G20-2 FOR THIS PROJECT SHALL BE COORDINATED WITH ADJACENT CONSTRUCTION PROJECTS. ONLY ONE SET OF SIGNS IS REQUIRED IN EACH DIRECTION FOR THE TOTAL LENGTH OF ALL PROJECTS-AT THE BEGINNING OF THE FIRST PROJECT AND AT THE ENDING OF THE LAST PROJECT. ADVANCE CONSTRUCTION SIGNS ARE NOT REQUIRED ON INTERMEDIATE PROJECTS, UNLESS CONSTRUCTION ON THE ADJACENT PROJECTS IS COMPLETED BEFOREHAND, THEN PROJECT CONSTRUCTION SIGNS WILL BE ADDED AS NECESSARY.
10. ALL THE COST OF THE MATERIALS, LABOR AND EQUIPMENT NECESSARY TO COMPLETE THE WORK SHALL BE INCLUDED IN THE PRICE BID FOR TRAFFIC CONTROL SECTION 150, LUMP SUM, WHEN SHOWN AS A PAYMENT ITEM IN THE PROPOSAL. OTHERWISE, ALL THE COST WILL BE INCLUDED IN THE OVER-ALL BID SUBMITTED, EXCEPT ON CERTAIN PROJECTS SOME ITEMS MAY BE PAID FOR SEPARATELY BY THE UNIT WHEN SPECIFIED ON THE PLANS AND IN THE PROPOSAL.
11. FOR FREEWAY CONSTRUCTION THE CONTRACTOR SHALL ARRANGE HIS WORK SO THAT THERE IS AN EXIT GORE SIGN AND AN EXIT DIRECTION SIGN IN PLACE FOR ALL EXIT RAMPS AT ALL TIMES.
12. ALL CROSSROADS, SIDEROADS, RAMPS OR OTHER ENTRANCES TO MAINLINE CONSTRUCTION SHALL REQUIRE W20-1 SIGNS LOCATED AS SHOWN IN THE PLANS, OR AS DIRECTED BY THE ENGINEER.
13. MARKINGS AND/OR SIGNS IN CONFLICT WITH INTERIM TRAFFIC CONTROL SHALL BE REMOVED, RELOCATED OR COVERED; APPLICABLE EXISTING AND INTERIM MARKINGS AND/OR SIGNING SHALL BE MAINTAINED PER SECTION 150.
14. ANY CHANNELIZING DEVICES (DRUMS OR BARRICADES) IN CONFLICT WITH CONCRETE BARRIERS SHALL BE OMITTED.
15. CONTRACTOR SHALL PROVIDE THE NECESSARY TRAFFIC CONTROL DURING THE TIE-IN OPERATION.
16. THE TRAFFIC CONTROL DEVICES SHOWN FOR ANY STAGE CONSTRUCTION SHALL REMAIN IN PLACE AND BE UTILIZED SO LONG AS NECESSARY FOR THE FOLLOWING STAGES AND SHALL BE REMOVED IMMEDIATELY WHEN NO LONGER REQUIRED. THE DEVICES MAY OR MAY NOT BE SHOWN ON THE PLANS FOR THESE FOLLOWING STAGES, REFER TO THE PLAN SHEET FOR THE INITIAL STAGE FOR THESE TRAFFIC CONTROLS.
17. EXISTING GUIDE SIGNS SHALL REMAIN IN PLACE SO LONG AS THEY DO NOT CONFLICT WITH THE CONSTRUCTION OF THIS PROJECT. WHEN IN CONFLICT, THEY SHALL BE RELOCATED ON TEMPORARY POSTS AT THE LOCATION AS DIRECTED BY THE ENGINEER. ANY DISTANCE SHOWN ON THE SIGN SHALL BE ADJUSTED ACCORDINGLY. IF THE SIGNS CANNOT BE RELOCATED, THEN THE SIGN SHALL BE REMOVED AND STORED AT A PLACE DESIGNATED BY THE ENGINEER, IF NEITHER OF THE ABOVE CAN BE DONE, THEN THE CONTRACTOR SHALL PROVIDE INTERIM GUIDE SIGNS AS COVERED IN SECTION 150.
18. (a) ON PROJECTS WITH LOW OR SOFT SHOULDERS, THE CONTRACTOR SHALL ERECT IMMEDIATELY AHEAD OF CONSTRUCTION OPERATIONS "LOW/SOFT SHOULDER" WARNING SIGNS AT THE PROJECT TERMINII, AT INTERVALS NOT TO EXCEED 1 MILE AND IMMEDIATELY PAST EACH CROSSROAD.

    (b) WHERE THE CONTRACTOR IS NOT RESPONSIBLE FOR SHOULDER CONSTRUCTION, THE DEPARTMENT WILL FURNISH THESE SIGNS FOR THE CONTRACTOR TO PICK UP, TRANSPORT, AND ERECT. THE DEPARTMENT WILL LATER REMOVE AND RETAIN THE SIGNS.

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA
STANDARD
TRAFFIC CONTROL
GENERAL NOTES, STANDARD LEGEND, MISCELLANEOUS DETAILS
NO SCALE AUG., 1999
NUMBER 9100



STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			



TYPICAL FLAT BOTTOM PAVED DITCH

GENERAL NOTES:

1. SEE CONSTRCUTION DETAIL D-10 (4" CONCRETE DITCH PAVING DETAILS AND QUANTITIES)
2. WEEP HOLE LOCATION SEE CONSTRUCTION DETAIL D-10

PAVED SWALE DITCH

GENARAL NOTES:

1. CONCRETE SHALL BE PER SECTION 441.
2. EARTH SHALL BE THOROUGHLY TAMPED OVER ENTIRE AREA UNDER DITCH PAVEMENT.

PAVED DITCH (IN BACK OF RETAINING WALL)

DETAIL OF SWALE DITCH

GENRAL NOTES:

1. APPLICABLE AS SHOWN ON PLANS OR AS DIRECTED BY THE ENGINEER ON CONSTRUCTION.
2. TO BE PAID FOR AS UNCLASSIFIED EXCAVATION OR GRADING COMPLETE.

TYPICAL FLAT BOTTOM RIP RAP DITCH

GENERAL NOTES:

1. BASIS OF PAYMENT: STONE RIP RAP, PER SQ. YD.

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA
CONSTRUCTION DETAIL
DITCH BACK OF RETAINING WALL
SWALE DITCHES; RIP RAP DITCH
NO SCALE FEBRUARY, 2011
NUMBER D-49

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OLD NORCROSS ROAD
SIDEWALK IMPROVEMENTS

LAND LOTS 225 AND 254, 18TH DISTRICT, CITY OF TUCKER, DEKALB COUNTY, GEORGIA
ZONED R3

REVISIONS

REV.	DATE	REVISION REFERENCE:

SHEET TITLE
STD DETAIL (1 OF 3)

SEAL

GEORGIA PROFESSIONAL ENGINEER 23346 DAVID F. MASSEY

PROJECT I.D.	FIELD BOOK

DRAWN BY DAW	CHECKED BY DFM
SCALE NTS	ISSUE DATE 05.05.2021

SHEET NUMBER
CD4

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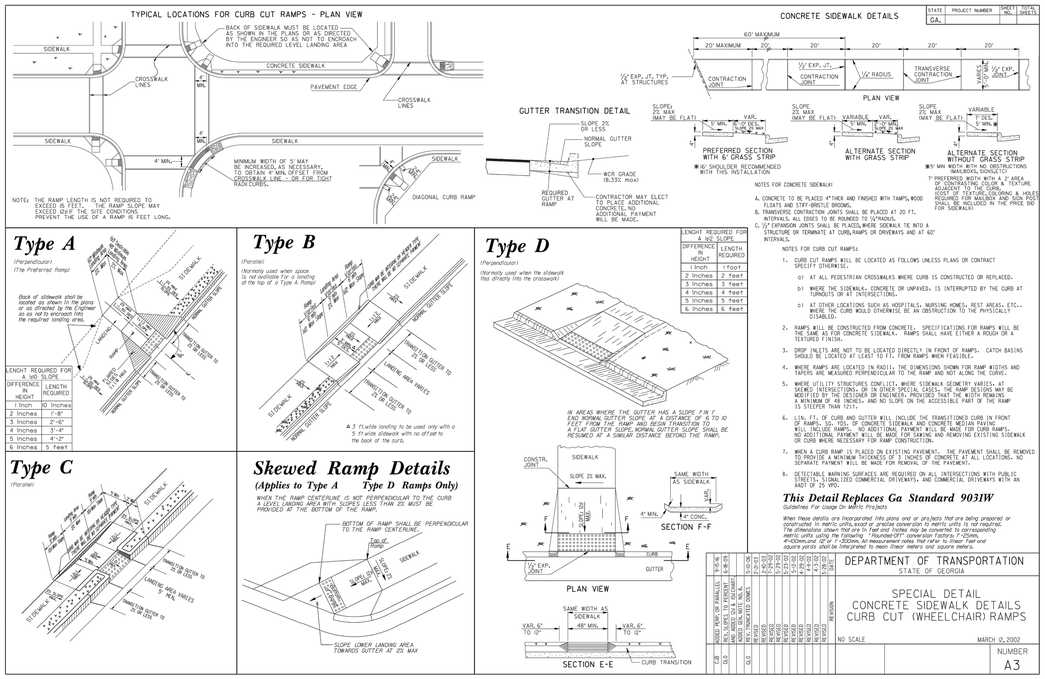

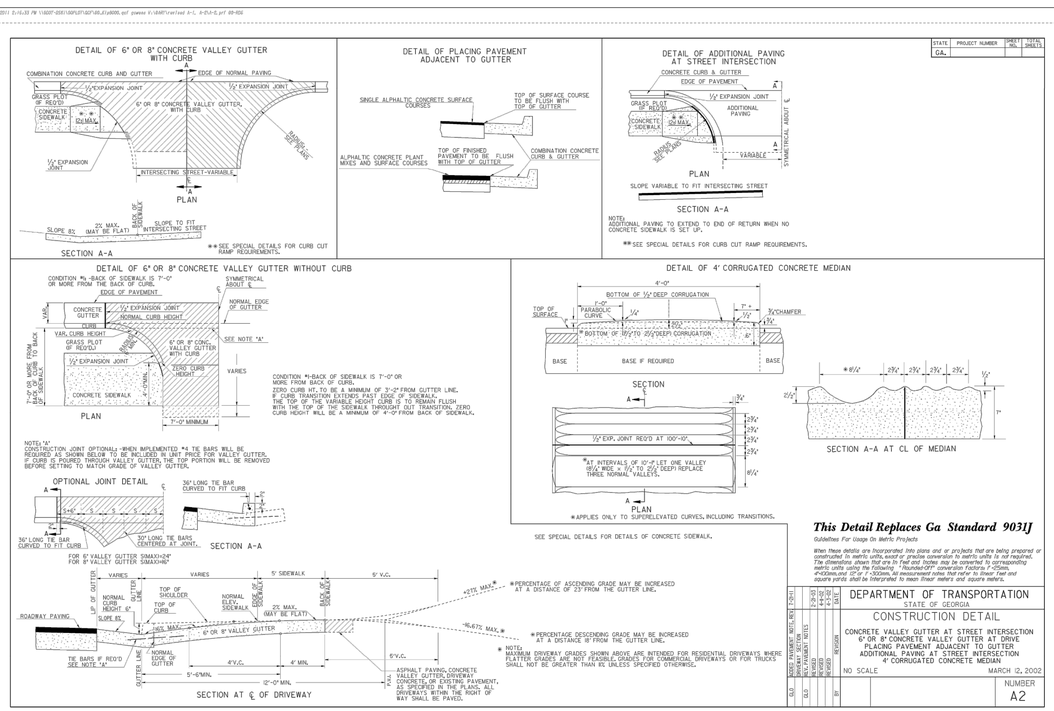

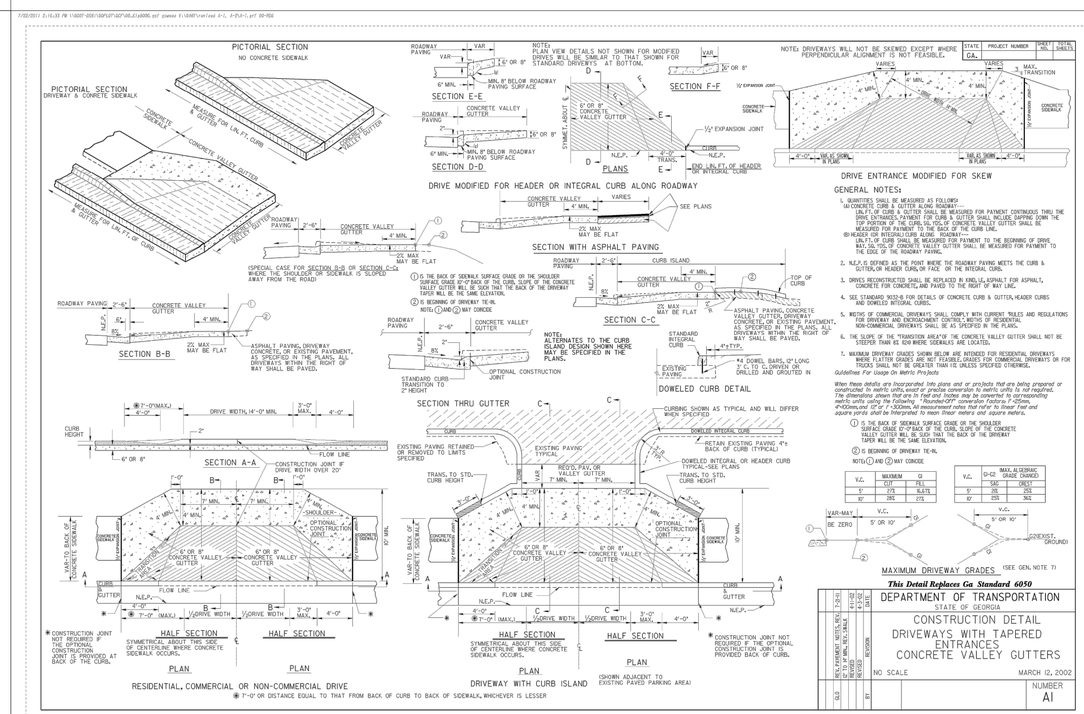

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OLD NORCROSS ROAD
SIDEWALK IMPROVEMENTS

LAND LOTS 225 AND 254, 18TH DISTRICT,
CITY OF TUCKER, DEKALB COUNTY, GEORGIA
ZONED R3

REVISIONS

REV.	DATE	REVISION REFERENCE:

SHEET TITLE
STD DETAIL (2 OF 3)

SEAL
GEORGIA PROFESSIONAL ENGINEER 23346 DAVID F. MASSEY

NOT ISSUED FOR CONSTRUCTION

PROJECT I.D.	FIELD BOOK

DRAWN BY: DAW	CHECKED BY: DFM
SCALE: NTS	ISSUE DATE: 05.05.2021

SHEET NUMBER
CD5

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
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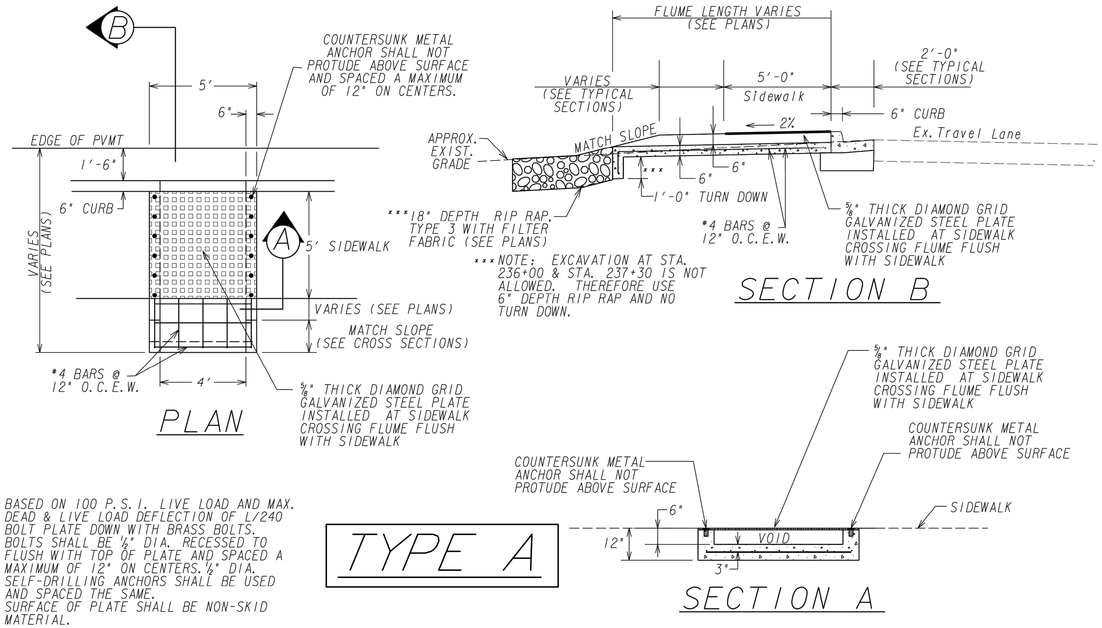
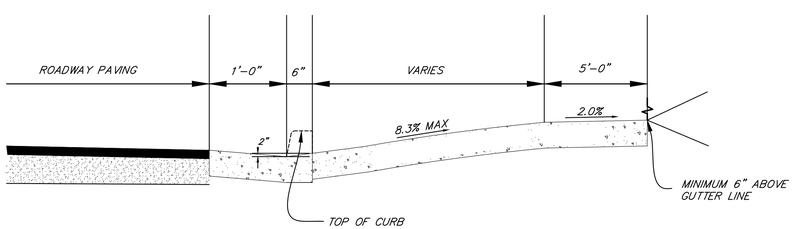


BASED ON 100 P.S.I. LIVE LOAD AND MAX. DEAD & LIVE LOAD DEFLECTION OF L/240
BOLT PLATE DOWN WITH BRASS BOLTS.
BOLTS SHALL BE ½" DIA. RECESSED TO FLUSH WITH TOP OF PLATE AND SPACED A MAXIMUM OF 12" ON CENTERS. ½" DIA. SELF-DRILLING ANCHORS SHALL BE USED AND SPACED THE SAME.
SURFACE OF PLATE SHALL BE NON-SKID MATERIAL.

TYPE A

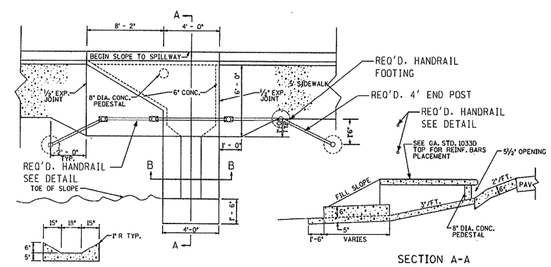
...\DGN\FLUME DETAIL.dgn 11/14/2012 11:56:55 AM

DRIVEWAY DETAIL

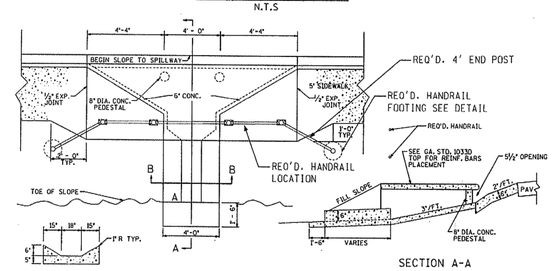


*NOT TO SCALE

TYPE B

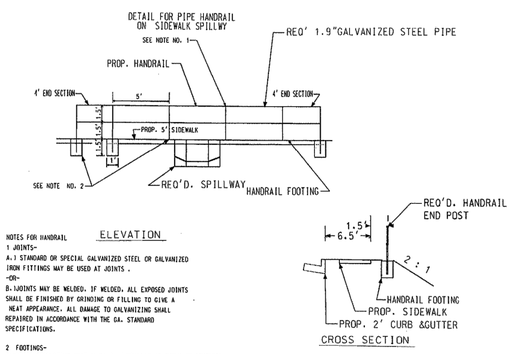


CONCRETE SIDEWALK SPILLWAY
N.T.S



CONCRETE SIDEWALK SPILLWAY FOR USE IN LOW POINTS
N.T.S

...Handrail details for Sidewalk Spillways.dgn 2/28/2013 7:46:57 AM



NOTES FOR HANDRAIL

1 JOINTS-
A.) STANDARD OR SPECIAL GALVANIZED STEEL OR GALVANIZED IRON FITTINGS MAY BE USED AT JOINTS .
-OR-
B.)JOINTS MAY BE WELDED. IF WELDED, ALL EXPOSED JOINTS SHALL BE FINISHED BY GRINDING OR FILLING TO GIVE A NEAT APPEARANCE. ALL DAMAGE TO GALVANIZING SHALL REPAIRED IN ACCORDANCE WITH THE GA. STANDARD SPECIFICATIONS.

2 FOOTINGS-
HANDRAIL SUPPORTING POST SHALL BE INSTALLED AS SHOWN ON CONCRETE SIDEWALK / SPILLWAY DETAIL.(SEE GA. STD. CONSTRUCTION DETAIL 9031R)
A.SUPPORT POST ON SIDEWALK / SPILLWAY ARE TO BE ANCHORED WITH 2½" X 6½" GALVANIZED FLOOR FLANGES WITH 4-1/2" X 5" GALVANIZED BOLTS.
B. SUPPORT POST NOT CONSTRUCTED ON SIDEWALK SPILLWAY WILL HAVE SUBSTRUCTURE COMPONENT CONSISTING OF THE MINIMUM 18" DEEP AND 12" DIAMETER HOLE, BACK FILLED (SURROUNDING THE POST) WITH 3000 PSI CONCRETE MINIMUM 3" OF CONCRETE SHALL BE PROVIDED BETWEEN THE BOTTOM OF THE POST AND THE EXISTING UNDISTURBED SOIL

Gaskins
ENGINEERING • SURVEYING • PLANNING/CONSULTING • CONSTRUCTION MGMT
147 Reinhardt College Pkwy, Suite 3
Canton, GA 30114
Phone: 770-420-5038
1266 Powder Springs Road
Marietta, GA 30064
Phone: 770-424-7168
5584 Old Norcross Rd., Suite 204
Lawrenceville, GA 30046
Phone: 770-424-7168
www.gaskinscorp.com

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OLD NORCROSS ROAD
SIDEWALK IMPROVEMENTS
LAND LOTS 225 AND 254, 18TH DISTRICT,
CITY OF TUCKER, DEKALB COUNTY, GEORGIA
ZONED R3

NOT ISSUED FOR CONSTRUCTION

REVISIONS

REV.	DATE	REVISION REFERENCE:

SHEET TITLE
STD DETAIL (3 OF 3)

SEAL
GEORGIA PROFESSIONAL ENGINEER 23346 DAVID F. MASSEY

PROJECT I.D.	FIELD BOOK

DRAWN BY DAW	CHECKED BY DFM
SCALE NTS	ISSUE DATE 05.05.2021

SHEET NUMBER
CD6

STATE OF GEORGIA
COUNTY OF DEKALB
CITY OF TUCKER **RESOLUTION 2021-11-24**

A RESOLUTION OF THE CITY OF TUCKER RELATED TO THE OLD NORCROSS ROAD SIDEWALK PROJECT

WHEREAS, the City of Tucker is supportive of opportunities for sidewalk connectivity throughout the city to provide alternative transportation and recreational needs; and,

WHEREAS, the installation of sidewalk along the west side of Old Norcross Road from Lawrenceville Highway to Spring Glen Drive will provide a safe pathway for pedestrians,

WHEREAS, the installation of curb & gutter and storm drain pipes along Old Norcross Road will improve vehicular safety by draining surface water off the roadway and,

WHEREAS, engineering design has been completed and shows that the relocation of utility poles along Old Norcross Road is necessary to install ADA compliant sidewalks and required drainage improvements and,

WHEREAS, there is an existing hazard to vehicular traffic along Old Norcross Road due to the close proximity of the utility poles to the travel lane and,

WHEREAS, the City of Tucker has adequate future funding available in the Capital Project and SPLOST accounts to fund this project,

NOW, THEREFORE BE IT RESOLVED, by the Mayor and Council of the City of Tucker, and it is hereby resolved:

1) The Mayor and Council of the City of Tucker supports improvements along the west side of Old Norcross Road from Lawrenceville Highway to Spring Glen Drive to include the relocation of utility poles, drainage improvements, and the construction of curb & gutter and sidewalk; and,

2) The Mayor and Council of the City of Tucker is committed to providing the required funding for the construction of this project along Old Norcross Road.

SO ADOPTED this 22nd day of November, 2021.

_____
Frank Auman, Mayor

ATTEST:

_____
Bonnie Warne, City Clerk

MEMO

To: Honorable Mayor and City Council Members

From: **Ken Hildebrandt**

CC: Tami Hanlin, City Manager

Date: **November 22, 2021**

RE: **Bid Award – Chamblee Tucker Road Lane Diet**

Issue: Bid award for ITB #2021-018 for the construction of a lane diet on Chamblee Tucker Road from Lavista Road to S Norcross Tucker Road.

Recommendation:
Staff recommends awarding the bid to the lowest responsive bidder, Pittman Construction Company, in the amount of $2,113,130.44.

Background:
Due to concerns of safety and speeding along the Chamblee Tucker Road corridor, the City authorized a traffic study to be conducted by VHB. The study recommended the implementation of a lane diet. The road will be milled, resurfaced, and restriped to provide a single thru lane in each direction, bike lanes, and a center turn lane. Center median islands and RRFBs (signalized pedestrian crossings) will also be installed.

Summary:
Eight bids were received:

1.	CW Matthews Contracting	$2,243,251.37
2.	MHB Paving	$2,325,801.64
3.	Stewart Brothers Inc.	$3,309,904.90
4.	E.R Snell Contractor Inc.	$2,282,699.96
5.	Multiplex LLC	$3,168,200.15
6.	Pittman Construction	$2,113,130.44
7.	Blount Construction	$2.340,068.56
8.	CMES Inc.	$2,811,811.11

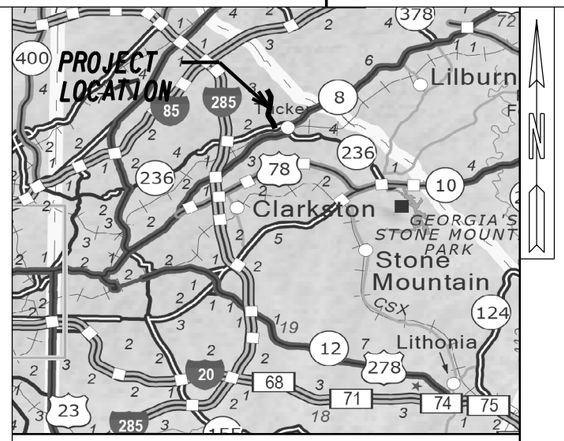
Financial Impact:
$1,500,000 will be funded from the Chamblee Tucker Road capital project in the FY2022 budget. The remaining $613,130.44

could be funded from the following sources:

- $200,000 remaining from FY 2021 resurfacing
- Approx. $230,000 remaining from Rosser Road project
- $242,697 in the Capital Contingency Fund
- $370,433 in unallocated SPLOST Funds
- General Fund Reserves

CITY OF TUCKER

CHAMBLEE TUCKER ROAD LANE DIET



END PROJECT
END CONSTRUCTION
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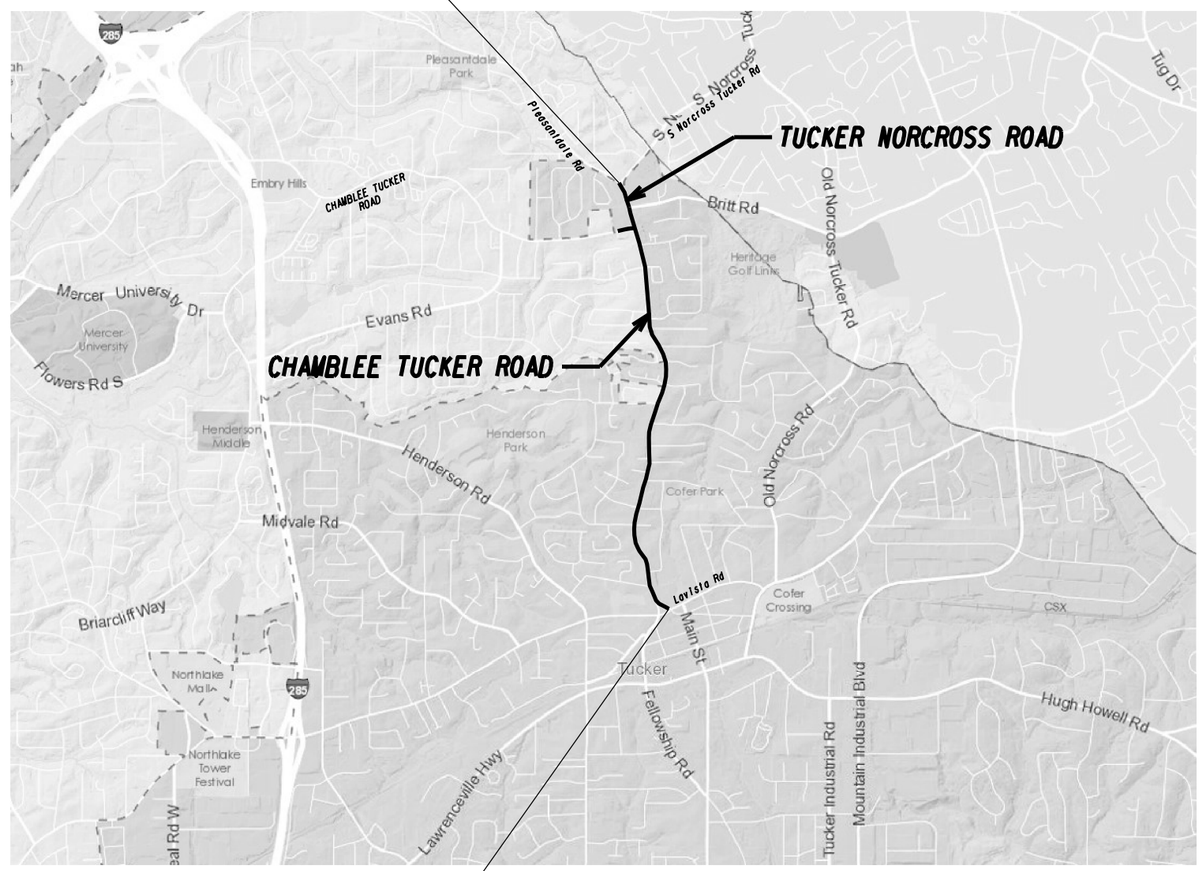


BEGIN PROJECT
BEGIN CONSTRUCTION
STA 100+69.92
N 1402373.6610
E 2281469.4931

DESIGN DATA:
TRAFFIC A.D.T.: 21,400
24 HR.TRUCKS %: 4%
SPEED DESIGN: 35 MPH
FUNCTIONAL CLASS: MINOR ARTERIAL

NOTE :
ALL REFERENCES IN THIS DOCUMENT,WHICH INCLUDES ALL PAPERS,WRITINGS, DOCUMENTS,DRAWINGS,OR PHOTOGRAPHS USED,OR TO BE USED IN CONNECTION WITH THIS DOCUMENT,TO "STATE HIGHWAY DEPARTMENT OF GEORGIA ","STATE HIGHWAY DEPARTMENT ",GEORGIA STATE HIGHWAY DEPARTMENT "," HIGHWAY DEPARTMENT ",OR "DEPARTMENT "WHEN THE CONTEXT THEREOF MEANS THE STATE HIGHWAY DEPARTMENT OF GEORGIA,AND SHALL BE DEEMED TO MEAN THE DEPARTMENT OF TRANSPORTATION.

City of Tucker

PLANS PREPARED BY
vhb
UNDER THE SUPERVISION OF
THOMAS M. CROCHET, PE, PTOE

GEORGIA REGISTERED No. 16982 PROFESSIONAL ENGINEER THOMAS MARK CROCHET
9/28/2021

THIS PROJECT HAS BEEN PREPARED WITHOUT A COORDINATE SYSTEM OR VERTICAL DATUM.

THE DATA,TOGETHER WITH ALL OTHER INFORMATION SHOWN ON THESE PLANS OR IN ANYWAY INDICATED THEREBY,WHETHER BY DRAWINGS OR NOTES,OR IN ANY OTHER MANNER,ARE BASED UPON FIELD INVESTIGATIONS AND ARE BELIEVED TO BE INDICATIVE OF ACTUAL CONDITIONS. HOWEVER,THE SAME ARE SHOWN AS INFORMATION ONLY,ARE NOT GUARANTEED,AND DO NOT BIND THE CITY OF TUCKER IN ANY WAY.THE ATTENTION OF BIDDER IS SPECIFICALLY DIRECTED TO SUBSECTIONS 102.04,102.05,AND 104.03 OF THE GDOT SPECIFICATIONS.

LENGTH OF PROJECT	COUNTY No.89 Project No. MILES
NET LENGTH OF ROADWAY	2.089
NET LENGTH OF BRIDGES	0.000
NET LENGTH OF PROJECT	2.089
NET LENGTH OF EXCEPTIONS	0.000
GROSS LENGTH OF PROJECT	2.089

PLANS COMPLETED 9/28/2021	
REVISIONS	
10/22/21: 01-001,03-001,05-001,05-002,	
05-003,05-004,05-005,06-001,07-001	

DRAWING No.
01-001

CONCGV

DRAWING NO.	DESCRIPTION
01-001	COVER SHEET
02-001	INDEX
03-001	REVISION SUMMARY SHEET
04-001	GENERAL NOTES
05-001 - 05-007	TYPICAL SECTIONS
06-001 - 06-006	SUMMARY OF QUANTITIES
07-001	QUANTITIES REQUIRED BY AMENDMENT
08-001	QUANTITIES REQUIRED BY CONSTRUCTION
13-001 - 13-023	MAINLINE ROADWAY PLAN
26-001 - 26-023	SIGNING AND MARKING PLANS
27-001 - 27-002	SIGNAL PLANS

	GEORGIA DEPARTMENT OF TRANSPORTATION CONSTRUCTION DETAILS	DATE
A-1	DRIVEWAYS WITH TAPERED ENTRANCES CONCRETE VALLEY GUTTERS	07-11
A-3	SPECIAL DETAIL - CONCRETE SIDEWALK DETAILS CURB CUT (WHEELCHAIR) RAMPS	09-16
A-4	DETECTABLE WARNING SURFACE TRUNCATED DOME SIZE, SPACING AND ALIGNMENT REQUIREMENTS	06-09
T-1	SIGN PLATES	01-00
T-2	DETAILS FOR TYPICAL FRAMING	03-00
T-3A	TYPE 7,8 AND 9 SQUARE TUBE POST INSTALLATION DETAIL	07-02
T-3B	DETAILS OF SQUARE TUBE POST (BREAKAWAY SIGN SUPPORT)	07-02
T-06	DETAILS OF OVERHEAD SIGNS	01-00
T-11A	DETAILS OF PAVEMENT MARKING PLACEMENT ON NON-LIMITED ACCESS ROADWAY	09-16
T-12A	DETAILS OF PAVEMENT MARKING ARROW LOCATION	01-00
T-12B	DETAILS OF PAVEMENT MARKINGS - ARROWS	11-20
T-13A	DETAILS OF PAVEMENT MARKING WORDS	11-20
T-13B	DETAILS OF PAVEMENT MARKING WORDS	09-16
T-14	DETAILS OF PAVEMENT MARKING HATCHING	11-08
T-15A	DETAILS OF RAISED PAVEMENT MARKER LOCATION NON-LIMITED ACCESS ROADWAY	09-16
T-15B	DETAILS OF RAISED PAVEMENT MARKER LOCATION LIMITED ACCESS ROADWAY	09-16
T-15C	DETAILS OF RAISED PAVEMENT MARKERS	09-11
TS-01A	INDUCTIVE LOOP DETECTOR INSTALLATION	11-20
TS-01B	INDUCTIVE LOOP DETECTOR INSTALLATION	11-20
TS-03	PEDESTRIAN FACILITIES INSTALLATION	11-20
TS-10A	FLASHING BEACON ASSEMBLY SPAN WIRE INSTALLATION	11-20

	GEORGIA DEPARTMENT OF TRANSPORTATION STANDARD DRAWINGS	DATE
9030C	DELINEATORS & OBJECT MARKERS AND ALTERNATE POST	04-06
9032B	CONCRETE CURB & GUTTER, CONCRETE CURBS, CONCRETE MEDIANS	01-21

DRAWING NO.	DESCRIPTION

REVISION DATES

INDEX

CHAMBLEE TUCKER ROAD LANE DIET

CHECKED:		DATE:	
BACKCHECKED:		DATE:	
CORRECTED:		DATE:	
VERIFIED:		DATE:	

DRAWING No. 02-001

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	N/A		

DATE	DRAWING NO.	REVISION
10/22/21	01-001	UPDATED REVISION LIST
10/22/21	03-001	UPDATED REVISION LIST
10/22/21	05-001	REVISED SPREAD RATES FOR 12.5 MM AND 19 MM ASPHALTIC CONCRETE COURSES; CHANGED 3"
		DEPTH MILLING TO 3 1/2" DEPTH MILLING
10/22/21	05-002	REVISED SPREAD RATES FOR 12.5 MM AND 19 MM ASPHALTIC CONCRETE COURSES; CHANGED 3"
		DEPTH MILLING TO 3 1/2" DEPTH MILLING
10/22/21	05-003	REVISED SPREAD RATES FOR 12.5 MM AND 19 MM ASPHALTIC CONCRETE COURSES; CHANGED 3"
		DEPTH MILLING TO 3 1/2" DEPTH MILLING
10/22/21	05-004	REVISED SPREAD RATES FOR 12.5 MM AND 19 MM ASPHALTIC CONCRETE COURSES; CHANGED 3"
		DEPTH MILLING TO 3 1/2" DEPTH MILLING
10/22/21	05-005	REVISED SPREAD RATES FOR 12.5 MM AND 19 MM ASPHALTIC CONCRETE COURSES; CHANGED 3"
		DEPTH MILLING TO 3 1/2" DEPTH MILLING
10/22/21	06-001	REVISED QUANTITIES FOR 12.5 MM AND 19 MM ASPHALTIC CONCRETE COURSES; CHANGED 3"
		DEPTH MILLING TO 3 1/2" DEPTH MILLING; REVISED QUANTITY FOR 8 X 30" CURB & GUTTER
10/22/21	07-001	LISTED QUANTITIES ADDED AND REVISED

DATE	DRAWING NO.	REVISION

City of Tucker

vhb

REVISION DATES
10/22/21

REVISION SUMMARY

CHAMBLEE TUCKER ROAD LANE DIET

CHECKED:		DATE:	
BACKCHECKED:		DATE:	
CORRECTED:		DATE:	
VERIFIED:		DATE:	

DRAWING No. 03-001

GENERAL NOTES

1. THE LOCATIONS OF EXISTING UTILITIES ARE NOT SHOWN ON THE PLANS. UNDERGROUND UTILITY LOCATIONS SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO BEGINNING CONSTRUCTION. IF UTILITIES ARE ENCOUNTERED DURING EXCAVATION OPERATIONS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY FOR INSTRUCTIONS TO RESOLVE ANY CONFLICTS. ANY DAMAGE OR INTERRUPTION OF EXISTING UTILITIES SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE REPAIRED PROMPTLY AT THE CONTRACTOR'S EXPENSE.

2. UTILITY WORK COORDINATION WILL BE REQUIRED AS PART OF THIS CONTRACT. THE CONTRACTOR SHALL BE REQUIRED TO USE THE ONE-CALL CENTER TELEPHONE NUMBER (811) FOR THE PURPOSE OF COORDINATING THE MARKING OF UNDERGROUND UTILITIES.

3. PROJECT TO BE CONSTRUCTED PER GEORGIA DEPARTMENT OF TRANSPORTATION (GDOT) STANDARD SPECIFICATIONS, 2021 EDITION, GDOT PUBLISHED SPECIAL PROVISIONS AND SUPPLEMENTAL SPECIFICATIONS TO THE STANDARD SPECIFICATIONS, AND AS MODIFIED BY THE PLANS AND CONTRACT DOCUMENTS.

4. CONTRACTOR SHALL ESTABLISH SURVEY CONTROL POINTS IN THE FIELD BY SELECTING SUITABLE, VISIBLE POINTS IN AERIAL ORTHOGRAPHIC IMAGE FILES AND MICROSTATION CADD FILES PROVIDED BY THE CITY. COST FOR ESTABLISHMENT OF SURVEY CONTROL AND ALL SURVEY LAYOUT SHALL BE INCLUDED IN THE PRICE BID FOR GRADING COMPLETE.

5. A NOTICE OF INTENT IS NOT REQUIRED FOR THIS PROJECT SINCE DISTURBED AREA IS LESS THAN ONE ACRE, AS PER GENERAL NPDES PERMICOSTT NO. GAR100002.

6. ALL NON-PAVED DISTURBED AREAS SHALL BE GRASSED AND MULCHED IN ACCORDANCE WITH CURRENT GDOT SPECIFICATION SECTION 700-GRASSING. GRASSED AREAS SHALL BE MAINTAINED BY THE CONTRACTOR UNTIL GRASS IS ESTABLISHED AND ACCEPTED BY THE ENGINEER. THE COST FOR ALL GRASSING AND MULCH SHALL BE INCLUDED IN THE PRICE BID FOR GRADING COMPLETE.

7. NO ADDITIONAL PAYMENT WILL BE MADE FOR REMOVAL OF ITEMS AS CALLED FOR IN THE PLANS OR AS NECESSARY TO CONSTRUCT ELEMENTS OF THE PROJECT. THE COST FOR ALL REMOVALS SHALL BE INCLUDED IN THE PRICE BID FOR GRADING COMPLETE.

8. DETECTABLE WARNING SURFACES TO BE INSTALLED UNDER THIS CONTRACT SHALL BE THE SAME COLOR AS DETECTABLE WARNING SURFACES AT ADJACENT INTERSECTIONS.

9. THERE IS NO KNOWN SUITABLE PLACE TO BURY EXISTING CONSTRUCTION DEBRIS WITHIN THE PROJECT'S LIMITS. DEMOLITION DEBRIS SHALL BECOME PROPERTY OF THE CONTRACTOR AND WASTE SOILS, VEGETATION, AND OTHER DELETERIOUS MATERIALS SHALL BE HAULED OFF-SITE AND BE DISPOSED OF AT AN APPROVED LOCATION IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REGULATIONS.

10. CONTRACTOR SHALL NOT WORK, STORE MATERIALS, SETUP EQUIPMENT, DISTURB PROPERTY OR MAKE IMPROVEMENTS OUTSIDE OF THE EXISTING RIGHT OF WAY LINES SHOWN ON THE SECTION 13 DRAWINGS.

11. EQUIPMENT AND MATERIALS SHALL BE STORED OFF-SITE OR IN AREAS APPROVED BY THE ENGINEER. CONSTRUCTION AND STORAGE AREAS SHALL BE KEPT NEAT AND CLEAN. EQUIPMENT AND MATERIAL SHALL NOT BE STORED WITHIN THE DRIP LINE OF TREES.

12. ALL EXISTING ELECTRICAL BOXES, WATER METER BOXES, VALVE BOXES AND ANY OTHER UTILITY STRUCTURES WHICH ARE TO REMAIN SHALL BE SET FLUSH WITH THE TOP OF THE PROPOSED GRADE OR CONCRETE SURFACE. ALL COSTS ASSOCIATED WITH THIS REQUIREMENT SHALL BE INCLUDED IN THE PRICE BID FOR GRADING COMPLETE.

13. CONTRACTOR SHALL ENSURE POSITIVE DRAINAGE ACROSS DISTURBED AREAS AND INTO DRAINAGE FEATURES.

14. ALL CONCRETE TO BE USED FOR THE CONSTRUCTION OF SIDEWALKS AND CURB AND GUTTER TO BE CLASS 'A' CONCRETE. CONCRETE SHALL BE PREPARED AND INSTALLED IN ACCORDANCE WITH CURRENT GDOT SPECIFICATION SECTION 441-MISCELLANEOUS CONCRETE. ADA RAMPS AND SIDEWALKS SHALL BE CONSTRUCTED WITH 4 INCH CONCRETE, EXCEPT ALL ADA RAMPS AND SIDEWALKS WITHIN INTERSECTION RADII SHALL BE 8 INCH CONCRETE.

15. THE CONTRACTOR SHALL MARK THE OUTLINE OF RAISED CONCRETE MEDIANS AND RECEIVE APPROVAL FROM THE ENGINEER BEFORE INSTALLING.

16. TRAFFIC SIGNAL LOOPS REMOVED OR DAMAGED DURING CONSTRUCTION SHALL BE REPLACED AND OPERATIONAL WITHIN 48 HOURS. FAILURE IN REPLACING THE LOOPS WITHIN THE TIME SPECIFIED WILL RESULT IN THE ASSESSMENT OF LIQUIDATED DAMAGES PER THE CONTRACT. COST FOR LOOP DETECTOR REPLACEMENT SHALL BE INCLUDED IN THE PRICE BID FOR LOOP DETECTOR.

17. THE PRICE BID FOR TRAFFIC SIGNAL INSTALLATION SHALL INCLUDE ALL ITEMS CALLED FOR ON THE SIGNAL PLANS WITH THE EXCEPTION OF LOOP DETECTORS. COST FOR LOOP DETECTOR INSTALLATION OR REPLACEMENT SHALL BE INCLUDED IN THE PRICE BID FOR LOOP DETECTOR.

GEORGIA811 Utilities Protection Center, Inc
Know what's below. Call before you dig.

City of Tucker

vhb

REVISION DATES

GENERAL NOTES

CHAMBLEE TUCKER ROAD LANE DIET

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		04-001
CORRECTED:		DATE:		
VERIFIED:		DATE:		

GENERAL NOTES

MAINTENANCE OF TRAFFIC, TRAFFIC CONTROL, AND STAGED CONSTRUCTION

18. THROUGHOUT CONSTRUCTION, THE CONTRACTOR SHALL PROVIDE AND MAINTAIN SUFFICIENT BARRICADES, LIGHTS, WARNING SIGNS, AND OTHER TRAFFIC CONTROL METHODS ADJACENT TO EXISTING ROADWAYS AND PARKING AREAS AS MAY BE REQUIRED FOR THE PROTECTION AND SAFETY OF THE PUBLIC. ALL TEMPORARY SIGNING AND PAVEMENT MARKING SHALL BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES CMUTCD), LATEST EDITION AND/OR AS DIRECTED BY THE ENGINEER.

19. ALL EXISTING PEDESTRIAN FACILITIES, INCLUDING ACCESS TO TRANSIT STOPS, SHALL BE MAINTAINED. WHERE PEDESTRIAN ROUTES ARE CLOSED TEMPORARILY, ALTERNATE ROUTES SHALL BE PROVIDED. CLOSURES OF EXISTING, INTERIM AND FINAL PEDESTRIAN FACILITIES SHALL BE KEPT TO A MINIMUM AND SHALL HAVE THE PRIOR WRITTEN APPROVAL OF THE ENGINEER.

20. ALL WORK ASSOCIATED WITH TRAFFIC CONTROL AND MAINTENANCE OF TRAFFIC, INCLUDING TEMPORARY MARKING, BARRICADES, CHANNELIZING DEVISES, WARNING SIGNS, TWO (2) PORTABLE CHANGEABLE MESSAGE SIGNS, AND OTHER TRAFFIC CONTROL METHODS, SHALL BE INCLUDED IN THE LUMP SUM PRICE BID FOR TRAFFIC CONTROL.

21. THE CONTRACTOR SHALL MAINTAIN ONE LANE OF TRAFFIC IN EACH DIRECTION ALONG CHAMBLEE TUCKER ROAD AT ALL TIMES.

22. THE CONTRACTOR SHALL RESTRICT WORK HOURS TO THE PERIOD FROM 7:00 AM TO 7:00 PM MONDAY THROUGH SATURDAY.

23. THE CONTRACTOR SHALL NOT IMPEDE TRAFFIC BETWEEN THE HOURS OF 7:00 AM TO 9:00 AM AND 4:00 PM TO 7:00 PM MONDAY THROUGH FRIDAY.

24. THE CONTRACTOR WILL PROVIDE, MAINTAIN AND OPERATE TWO (2) PORTABLE CHANGEABLE MESSAGE SIGNS AND COORDINATE WITH THE ENGINEER ON THEIR PLACEMENT AND MESSAGES TO BE DISPLAYED CONTINUOUSLY FROM ONE MONTH PRIOR TO PAVEMENT MILLING AND RESURFACING UNTIL TWO MONTHS AFTER COMPLETION OF FINAL PAVEMENT MARKINGS. CHANGEABLE MESSAGE SIGNS SHALL BE INCLUDED IN THE LUMP SUM PRICE BID FOR TRAFFIC CONTROL.

25. THE CONTRACTOR SHALL ADHERE TO THE FOLLOWING STAGED CONSTRUCTION REQUIREMENTS UNLESS THE ENGINEER APPROVES MODIFICATIONS REQUESTED BY THE CONTRACTOR:
    a. DEEP PATCHING AS DIRECTED BY THE ENGINEER SHALL BE PLACED BEFORE MILLING.
    b. MILL AND PLACE 19 MM ASPHALT BINDER COURSE IN THE SAME DAY.
    c. IMPLEMENT THE LANE DIET OPERATION DURING THE PLACEMENT OF THE 19 MM ASPHALT BINDER COURSE OR 12.5 MM ASPHALT SURFACE COURSE THROUGH THE USE OF TEMPORARY PAVEMENT MARKINGS, CHANNELIZING DEVICES AND BARRICADES.
    d. INSTALL RAISED CONCRETE ISLANDS AFTER INSTALLATION OF 12.5 MM ASPHALT SURFACE COURSE.

SIGNING AND MARKING

26. ALL STANDARD HIGHWAY SIGNS SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH THE DETAILS SHOWN IN THE PLANS, THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), CURRENT EDITION, AND THE GEORGIA SPECIFICATIONS, SUPPLEMENTAL SPECIFICATIONS, AND/OR SPECIAL PROVISIONS.

27. SIGN ERECTION LOCATIONS ARE APPROXIMATE AND MAY BE ADJUSTED TO MEET FIELD CONDITIONS WHERE NECESSARY BUT SHALL BE WITHIN THE LIMITATIONS SET FORTH IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, CURRENT EDITION. NO SIGN LOCATION SHALL BE CHANGED BY THE CONTRACTOR OR BY THE PROJECT ENGINEER WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

28. ALL STANDARD HIGHWAY SIGNS SHALL BE ERECTED AT A HEIGHT OF 7 FEET ABOVE THE NORMAL EDGE OF PAVEMENT, CURB OR SIDEWALK TO THE BOTTOM OF THE SIGN OR ASSEMBLY.

29. THE HORIZONTAL CLEARANCE FOR STANDARD HIGHWAY SIGNS IN NON-MOUNTABLE CURB SECTIONS SHALL BE AT LEAST 2 FEET FROM THE CURB FACE TO THE NEARER EDGE OF THE SIGN(S).

30. EACH 42 OR 48 INCH WIDE x 18 OR 24 INCH HIGH SIGN REQUIRES ONE 2 INCH x 1/2 INCH x (WIDTH OF SIGN) ALUMINUM OR GALVANIZED STEEL STRAP LOCATED IN THE CENTER OF THE SIGN AND FLUSH WITH THE BACK OF THE SIGN.

31. SIGN ASSEMBLIES SHALL BE MOUNTED ON ALUMINUM ON GALVANIZED STEEL STRAP FRAMES, UNLESS OTHERWISE NOTED IN THE PLANS. FOR DETAILS AND STRAP SPECIFICATIONS REFER TO SIGN ASSEMBLY-TYPICAL FRAMING DETAILS.

32. TYPE 9 (VERY HIGH INTENSITY) REFLECTIVE SHEETING SHALL BE USED FOR ALL STANDARD HIGHWAY SIGNS REQUIRING REFLECTORIZED BACKGROUNDS EXCEPT AS SPECIFIED BELOW OR SPECIFIED OTHERWISE IN THE PLANS. EITHER CLASS 1 OR CLASS 2 ADHESIVE BACKING IS PERMISSIBLE.

    TYPE 11 (VERY HIGH INTENSITY) REFLECTIVE SHEETING SHALL BE USED FOR ALL RED SERIES SIGNS (R1-1, R1-2, R1-3P, R5-1, R5-1A, R5-1B).

    TYPE 11 (VERY HIGH INTENSITY) FLUORESCENT YELLOW REFLECTIVE SHEETING SHALL BE USED FOR ALL WARNING SIGNS.

    TYPE 11 (VERY HIGH INTENSITY) FLUORESCENT YELLOW GREEN REFLECTIVE SHEETING SHALL BE USED FOR SCHOOL ZONE (S1-1, S2-1, S3-1, S4-3, AND THE TOP PORTION OF THE S5-1) SIGNS. ALL REGULATORY SIGNS WITHIN THE SCHOOL ZONE SIGNING SHALL HAVE TYPE 9 (VERY HIGH INTENSITY) REFLECTIVE SHEETING.

33. A 1/2 INCH MINIMUM AIR SPACE SHALL BE REQUIRED BETWEEN ALL SIGN PLATES WITHIN AN ASSEMBLY.

34. WHERE SIGNS WITHIN AN ASSEMBLY EXTEND BELOW THE STANDARD MOUNTING HOLES ON THE POST(S), ADDITIONAL 3/8 INCH DIAMETER HOLE(S), DRILLED OR PUNCHED, SHALL BE REQUIRED TO PROPERLY MOUNT THE ASSEMBLY.

35. THE CONTRACTOR WILL, AS REQUESTED BY THE ENGINEER, BE REQUIRED TO REMOVE ANY EXISTING SIGNS THAT ARE DUPLICATED OR ARE CONTRARY TO THESE SIGN PLANS.

36. THE CONTRACTOR SHALL STAKE ALL SIGN LOCATIONS AND RECEIVE APPROVAL FROM THE ENGINEER BEFORE INSTALLATION.

37. ADJUST SPAN WIRE TENSION AS APPROPRIATE WHEN MOVING OR REPLACING OVERHEAD SIGNS.

38. REMOVAL, RELOCATION AND ADJUSTMENT OF SIGNS, ALONG WITH ADJUSTMENTS TO SIGN SUPPORTS AS CALLED FOR IN THE PLANS OR DIRECTED BY THE ENGINEER SHALL BE INCLUDED IN THE PRICE BID FOR OTHER SIGN ITEMS.

GENERAL NOTES

RECTANGULAR RAPID FLASHING BEACONS (RRFB)

39. THE CONTRACTOR SHALL STAKE ALL RRFB LOCATIONS AND RECEIVE APPROVAL FROM THE ENGINEER BEFORE INSTALLATION.

40. RRFB ASSEMBLIES PROVIDED BY THE CONTRACTOR SHALL BE MANUFACTURED BY TAPCO, OR EQUAL APPROVED BY THE CITY, IN ACCORDANCE WITH CURRENT FHWA GUIDANCE. RRFB SHALL BE SOLAR POWERED, AND BULLDOG PUSH BUTTON ACTIVATED. WHERE A HIGH-CAPCITY SOLAR PANEL IS CALLED FOR IN THE PLANS, THE SOLAR PANEL SHALL HAVE A MINIMUM 30-WATT OUTPUT AND THE BATTERY SHALL HAVE A MINIMUM 35 AMP-HOUR CAPACITY. PRICE BID FOR INSTALLING THE CONTRACTOR PROVIDED RRFB ASSEMBLY SHALL INCLUDE THE FLASHING BEACON, MOUNTING POLE AND BASE, POLE FOUNDATION AND ANCHOR BOLTS, WIRELESS COMMUNICATIONS SYSTEM, SOLAR PANEL SYSTEM, PUSH BUTTON, SIGNS CALLED FOR IN THE PLANS TO BE ATTACHED TO THE ASSEMBLY, HARDWARE AND WIRING, INSTALLATION, TESTING, AND BURN-IN PERIOD WORK.

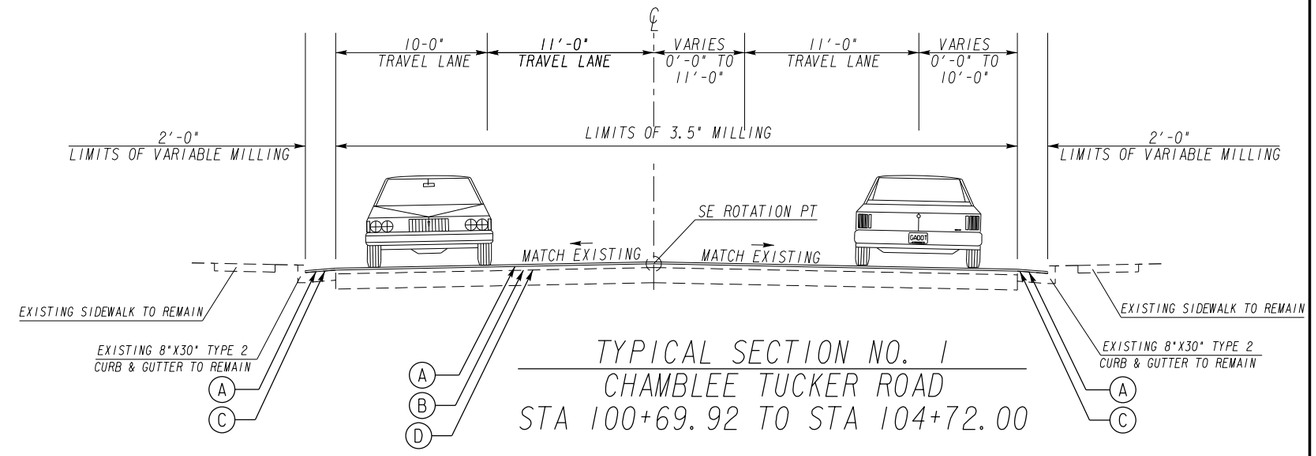
41. RRFB ASSEMBLIES PROVIDED BY THE CITY SHALL BE INSPECTED BY THE CONTRACTOR PRIOR TO INSTALLATION. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DEFECTS PRIOR TO INSTALLATION. THE CONTRACTOR SHALL BE RESONSIBLE PROVIDING THE FOUNDATION AND ANCHOR BOLTS, AND OTHER NECESSARY HARDWARE OR WIRING TO COMPLETE THE INSTALLATION AND MAKE THE ASSEMBLIES FULLY FUNCTIONAL. THE CONTRACTOR SHALL COORDINATE WITH THE CITY FOR ANY NECESSARY REPLACEMENT PARTS TO MAKE THE ASSEMBLY FULLY FUNCTIONAL, THE CITY WILL PROVIDE THE PARTS AND THE CONTRACTOR SHALL INSTALL THE PARTS. THE LABOR COST INSPECTING THE CITY PROVIDED RRFB ASSEMBLIES AND FOR REPLACEMENT OF DEFFECTIVE PARTS SHALL BE INCLUDED IN THE PRICE BID FOR INSTALLING THE RRFB ASSEMBLY.

42. ALL RRFB ASSEMBLIES SHALL BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS. SOLAR PANELS SHALL BE INSTALLED IN UNOBSTRUCTED SUNLIGHT, A SEPARATE POLE FOR MOUNTING THE SOLAR PANEL MAY BE REQUIRED TO ENSURE UNOBSTRUCTED SUNLIGHT.

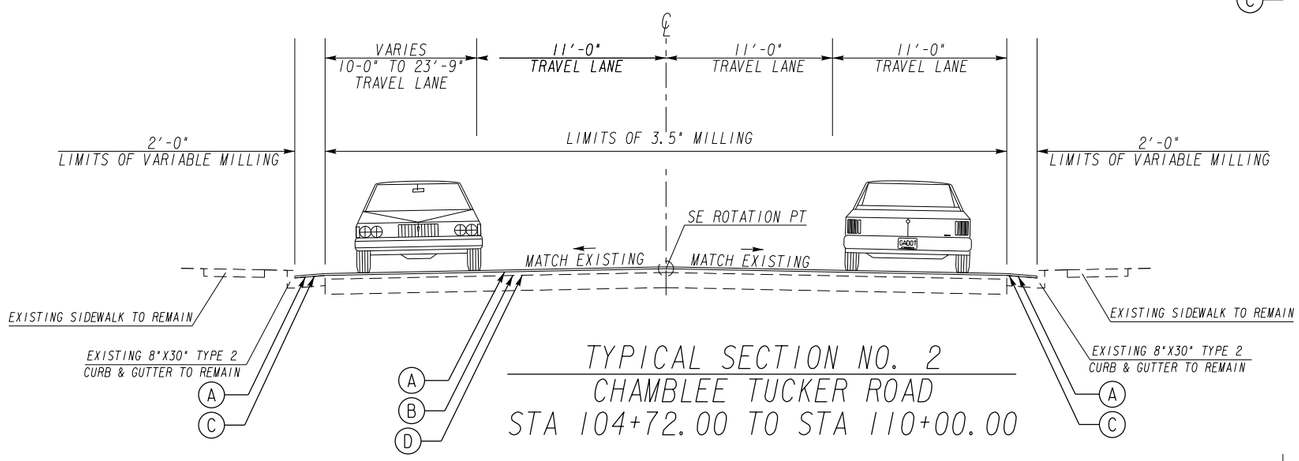
43. CONTRACTOR SHALL PERFORM ACCEPTANCE TESTING FOR ALL EQUIPMENT, HARDWARE AND WORK PROVIDED UNDER THIS CONTRACT AT EACH RRFB ASSEMBLY FIELD INSTALLATION. OBTAIN ENGINEER'S APPROVAL FOR ALL TEST PROCEDURES PRIOR TO BEGINNING ACCEPTANCE TESTING. NOTIFY THE ENGINEER OF A DESIRED ACCEPTANCE TEST SCHEDULE NO LESS THAN FOURTEEN CALENDAR DAYS PRIOR TO BEGINNING TESTING. COMPLETE ALL WORK PRIOR TO THE BEGINNING OF ANY ACCEPTANCE TESTING AT A GIVEN RRFB ASSEMBLY SITE IN THE PRESENCE OF THE ENGINEER. TESTING SHALL BE INCLUDED IN THE PRICE BID FOR INSTALLING THE RRFB ASSEMBLY.

44. FOLLOWING THE SUCCESSFUL FIELD INSTALLATION TEST FOR ALL THE RRFB ASSEMBLIES, THE CONTRACTOR SHALL PROVIDE A BURN-IN PERIOD FOR ALL WORK AND EQUIPMENT INCLUDED IN THE CONTRACT CONSISTING OF THE FIELD OPERATION OF THE RRFB ASSEMBLY FOR 30 DAYS. SUCCESSFUL COMPLETION AND ACCEPTANCE OF THE BURN-IN PERIOD WILL BE GRANTED ON THE 30TH DAY UNLESS ANY EQUIPMENT HAS MALFUNCTIONED DURING THE 15TH THROUGH 30TH DAY OF THE BURN-IN PERIOD. IF ANY EQUIPMENT HAS FAILED DURING THE 15TH THROUGH 30TH DAY, FINAL ACCEPTANCE WILL BE WITHHELD UNTIL ALL THE EQUIPMENT IS FUNCTIONING PROPERLY FOR 15 DAYS AFTER REPAIR. BURN-IN PERIOD WORK SHALL BE INCLUDED IN THE PRICE BID FOR INSTALLING THE RRFB ASSEMBLY.

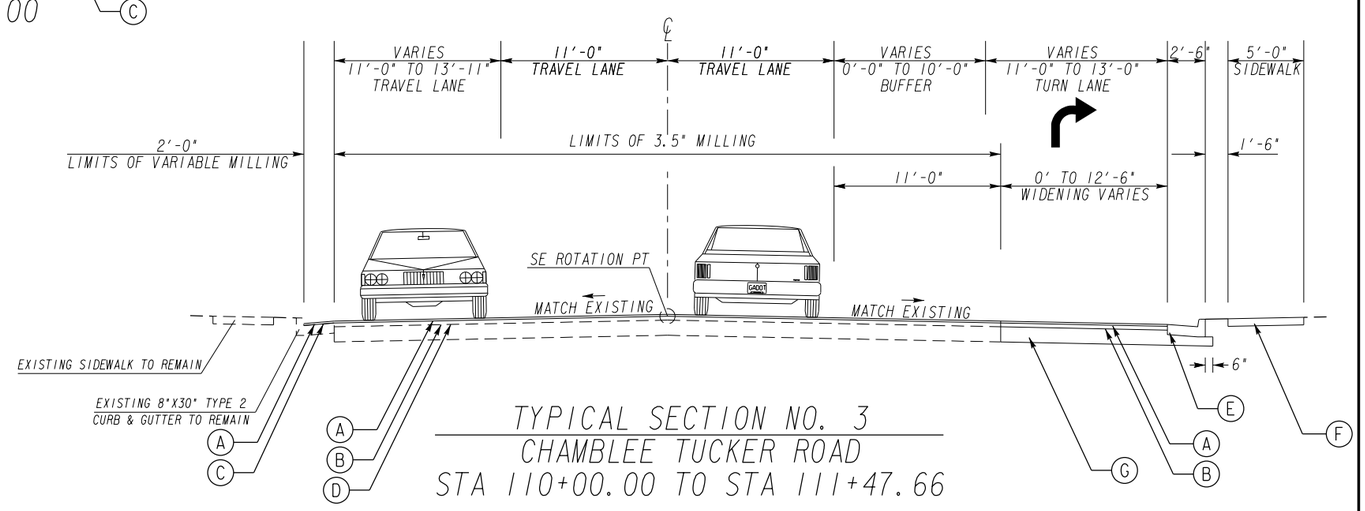
STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	N/A		



TYPICAL SECTION NO. 1
CHAMBLEE TUCKER ROAD
STA 100+69.92 TO STA 104+72.00



TYPICAL SECTION NO. 2
CHAMBLEE TUCKER ROAD
STA 104+72.00 TO STA 110+00.00



TYPICAL SECTION NO. 3
CHAMBLEE TUCKER ROAD
STA 110+00.00 TO STA 111+47.66

PAVEMENT DESIGN

- (A) 165 LB/SY RECYCLED ASPHALTIC CONCRETE 12.5 MM SUPERPAVE, GP 2 ONLY, INCL POLYMER-MODIFIED BITUM MATL & H LIME
- (B) 220 LB/SY RECYCLED ASPHALTIC CONCRETE 19 MM SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME
- (C) VARIABLE DEPTH MILLING
- (D) 3.5" DEPTH MILLING
- (E) GA DOT STD 9032B, TYPE 2 CONCRETE CURB & GUTTER, 8" X 30"
- (F) 4" THICK CONCRETE SIDEWALK 8" THICK WITHIN INTERSECTION RADII
- (G) 8" MINIMUM CLASS B CONCRETE BASE

City of Tucker

vhb

REVISION DATES		
10/22/21		

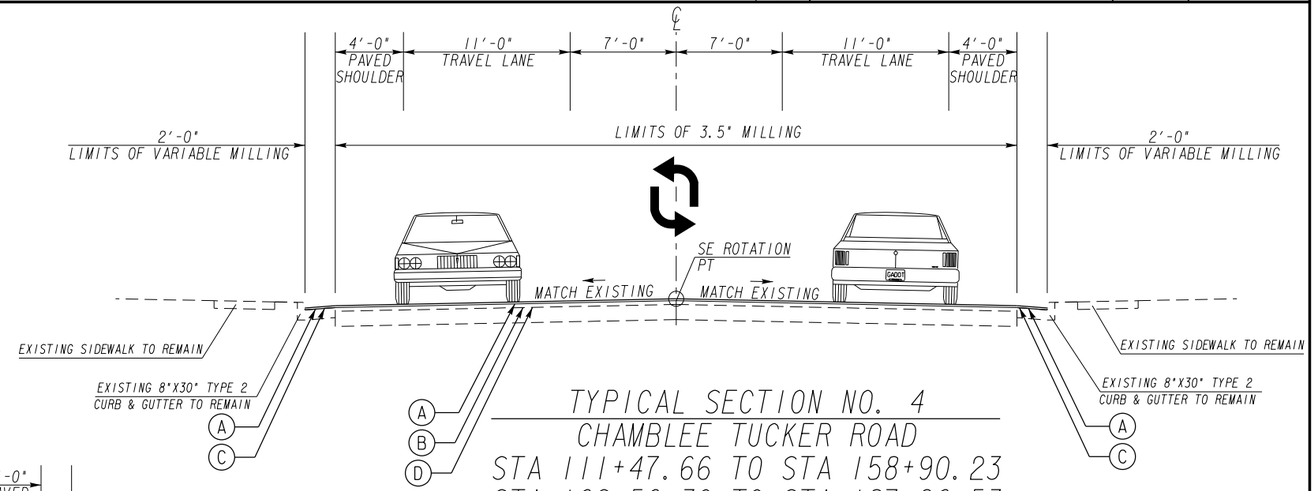
TYPICAL SECTIONS

CHAMBLEE TUCKER ROAD LANE DIET

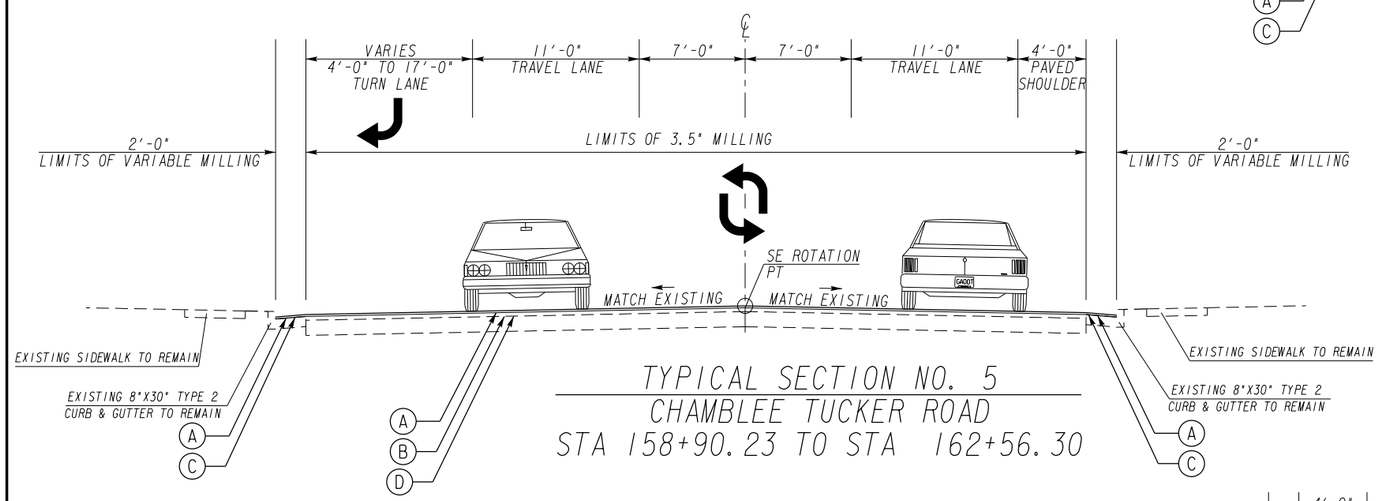
CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		05-001
CORRECTED:		DATE:		
VERIFIED:		DATE:		

8/6/2021 CONBDR

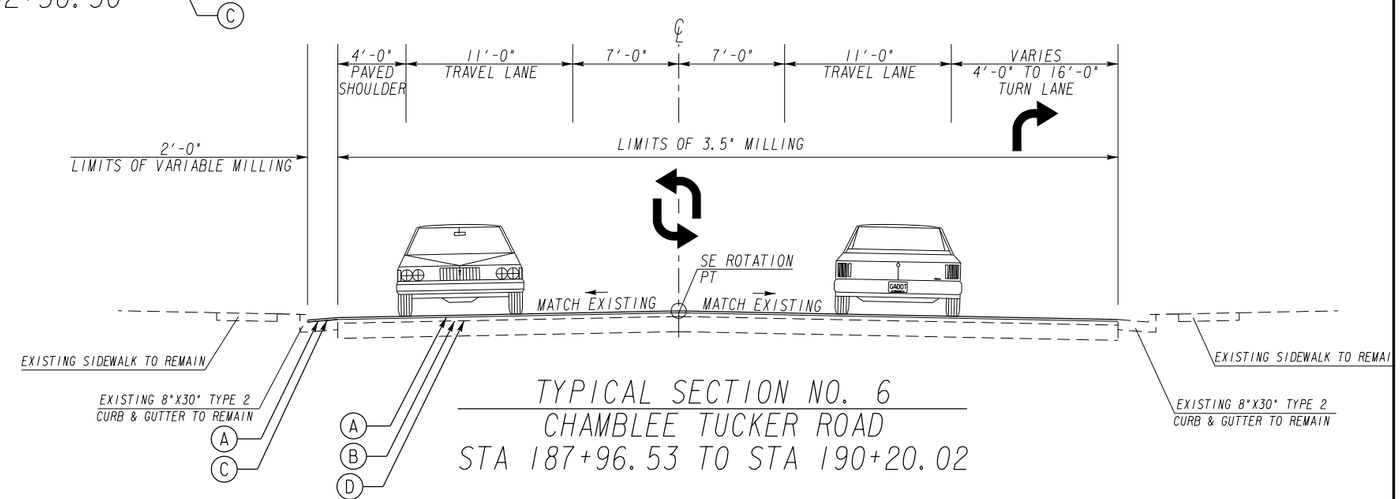
STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	N/A		



TYPICAL SECTION NO. 4
CHAMBLEE TUCKER ROAD
STA 111+47.66 TO STA 158+90.23
STA 162+56.30 TO STA 187+96.53
STA 190+20.02 TO STA 194+00.00



TYPICAL SECTION NO. 5
CHAMBLEE TUCKER ROAD
STA 158+90.23 TO STA 162+56.30



TYPICAL SECTION NO. 6
CHAMBLEE TUCKER ROAD
STA 187+96.53 TO STA 190+20.02

PAVEMENT DESIGN

(A) 165 LB/SY RECYCLED ASPHALTIC CONCRETE 12.5 MM SUPERPAVE, GP 2 ONLY, INCL POLYMER-MODIFIED BITUM MATL & H LIME

(B) 220 LB/SY RECYCLED ASPHALTIC CONCRETE 19 MM SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME

(C) VARIABLE DEPTH MILLING

(D) 3.5" DEPTH MILLING

City of Tucker

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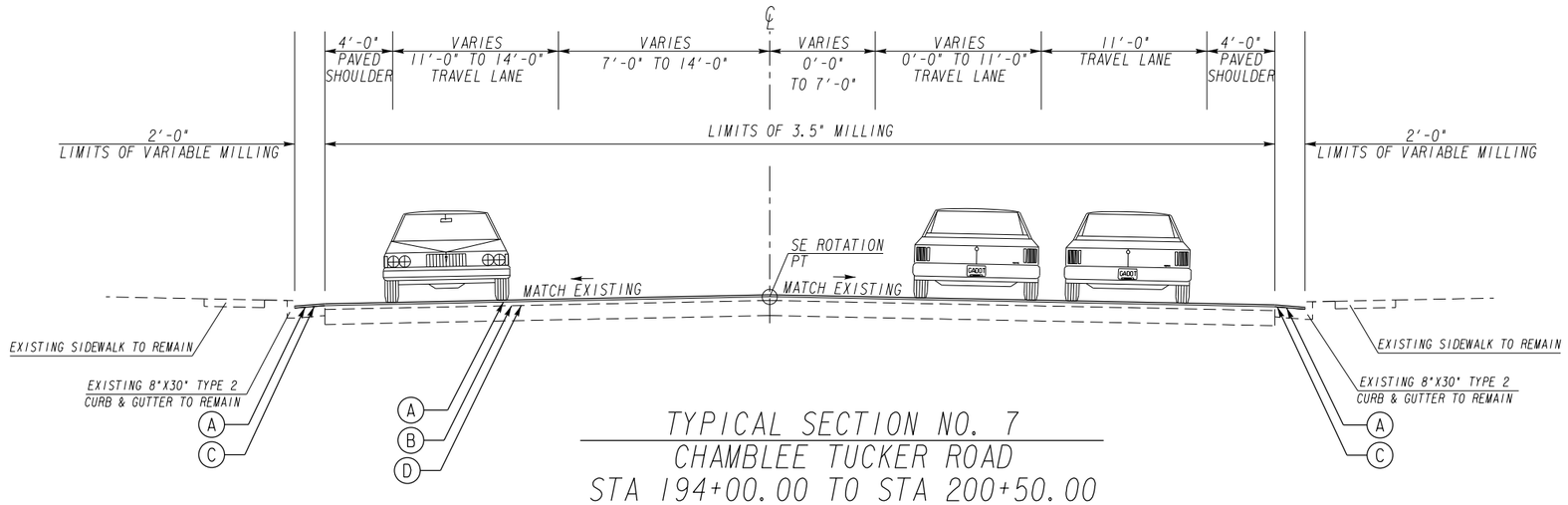
REVISION DATES
10/22/21

TYPICAL SECTIONS

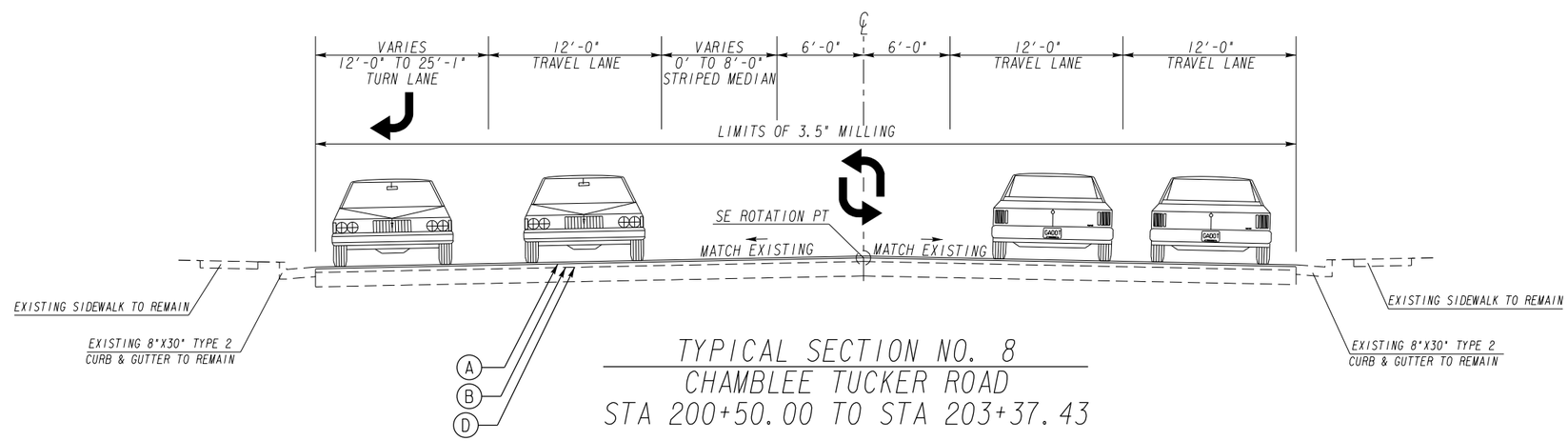
CHAMBLEE TUCKER ROAD LANE DIET

CHECKED:		DATE:	
BACKCHECKED:		DATE:	
CORRECTED:		DATE:	
VERIFIED:		DATE:	

DRAWING No. 05-002



TYPICAL SECTION NO. 7
CHAMBLEE TUCKER ROAD
STA 194+00.00 TO STA 200+50.00



TYPICAL SECTION NO. 8
CHAMBLEE TUCKER ROAD
STA 200+50.00 TO STA 203+37.43

PAVEMENT DESIGN

(A) 165 LB/SY RECYCLED ASPHALTIC CONCRETE 12.5 MM SUPERPAVE, GP 2 ONLY, INCL POLYMER-MODIFIED BITUM MATL & H LIME

(B) 220 LB/SY RECYCLED ASPHALTIC CONCRETE 19 MM SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME

(C) VARIABLE DEPTH MILLING

(D) 3.5" DEPTH MILLING

City of Tucker

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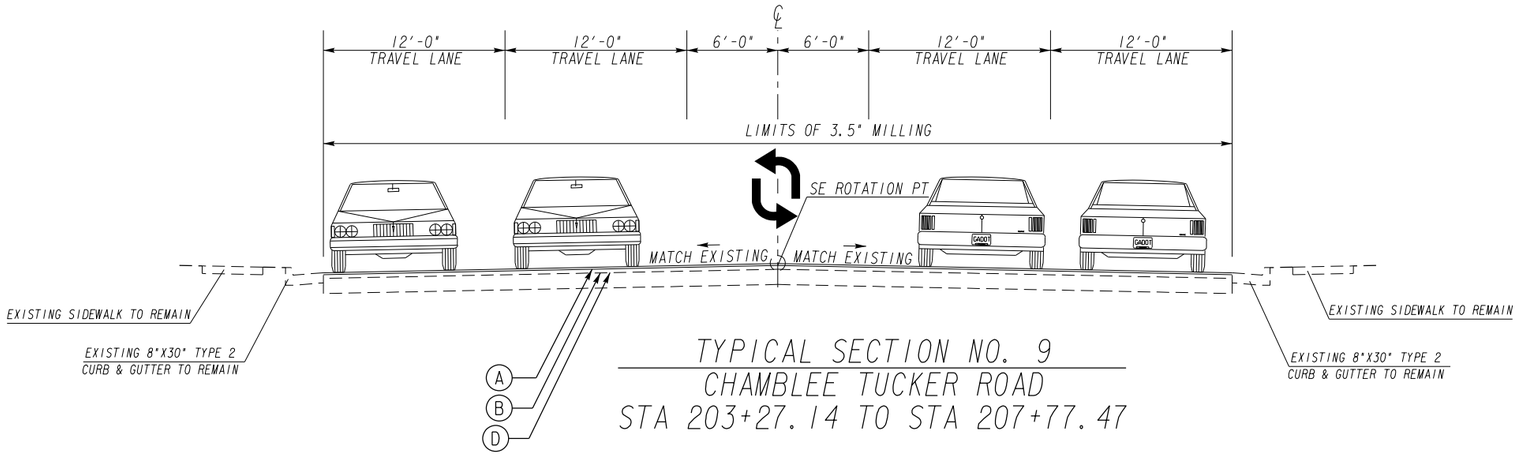
REVISION DATES		
10/22/21		

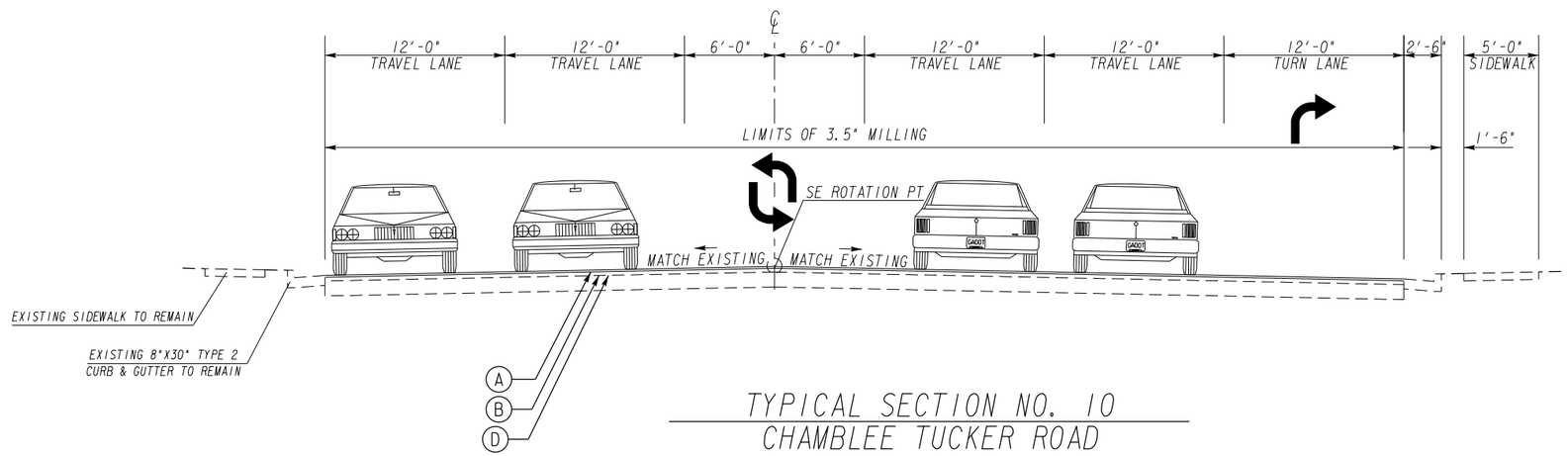
TYPICAL SECTIONS

CHAMBLEE TUCKER ROAD LANE DIET

				DRAWING No.
CHECKED:		DATE:		05-003
BACKCHECKED:		DATE:		
CORRECTED:		DATE:		
VERIFIED:		DATE:		



TYPICAL SECTION NO. 9
CHAMBLEE TUCKER ROAD
STA 203+27.14 TO STA 207+77.47



TYPICAL SECTION NO. 10
CHAMBLEE TUCKER ROAD
STA 207+77.47 TO STA 211+02.00

PAVEMENT DESIGN

(A) 165 LB/SY RECYCLED ASPHALTIC CONCRETE 12.5 MM SUPERPAVE, GP 2 ONLY, INCL POLYMER-MODIFIED BITUM MATL & H LIME

(B) 220 LB/SY RECYCLED ASPHALTIC CONCRETE 19 MM SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME

(C) VARIABLE DEPTH MILLING

(D) 3.5" DEPTH MILLING

City of Tucker

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REVISION DATES
10/22/21

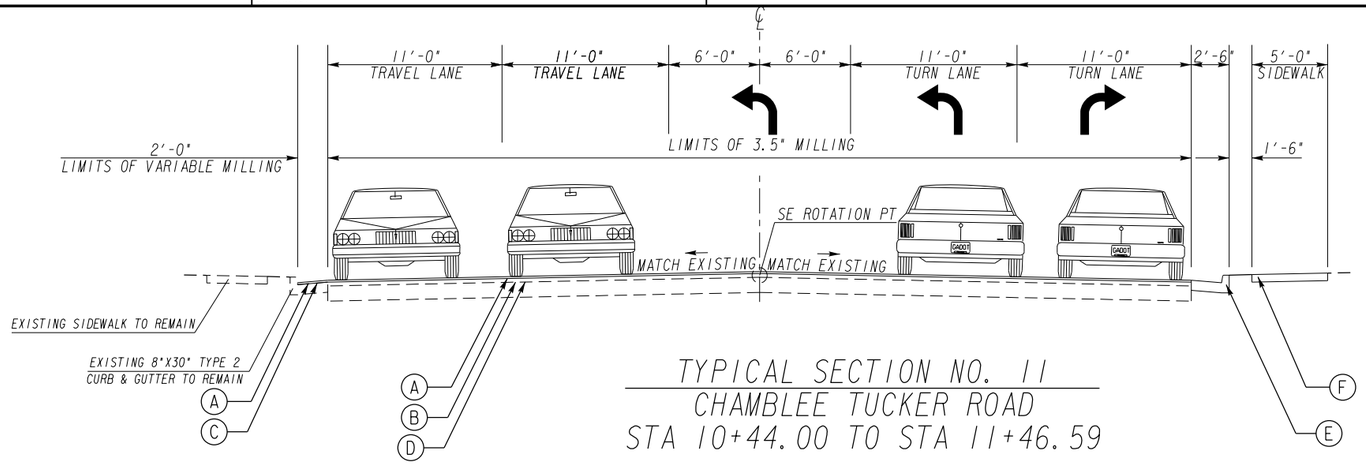
TYPICAL SECTIONS

CHAMBLEE TUCKER ROAD LANE DIET

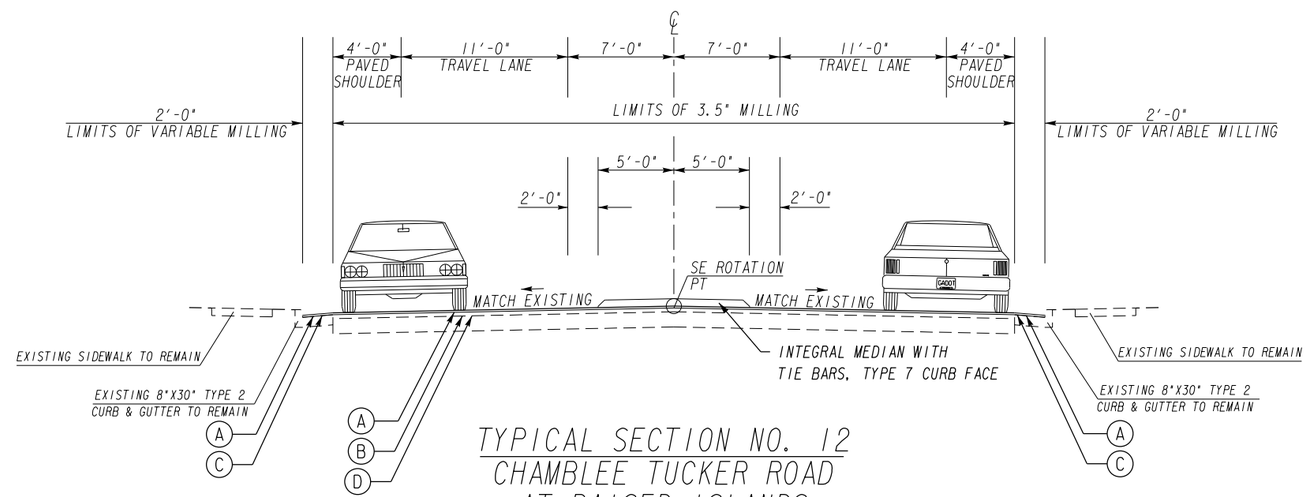
CHECKED: DATE:
BACKCHECKED: DATE:
CORRECTED: DATE:
VERIFIED: DATE:

DRAWING No. 05-004

8/6/2021 CONBDR



TYPICAL SECTION NO. 11
CHAMBLEE TUCKER ROAD
STA 10+44.00 TO STA 11+46.59



TYPICAL SECTION NO. 12
CHAMBLEE TUCKER ROAD
AT RAISED ISLANDS

PAVEMENT DESIGN

(A) 165 LB/SY RECYCLED ASPHALTIC CONCRETE 12.5 MM SUPERPAVE, GP 2 ONLY, INCL POLYMER-MODIFIED BITUM MATL & H LIME

(B) 220 LB/SY RECYCLED ASPHALTIC CONCRETE 19 MM SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME

(C) VARIABLE DEPTH MILLING

(D) 3.5" DEPTH MILLING

(E) GA DOT STD 9032B, TYPE 2 CONCRETE CURB & GUTTER, 8" X 30"

(F) 4" THICK CONCRETE SIDEWALK 8" THICK WITHIN INTERSECTION RADII

City of Tucker

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REVISION DATES
10/22/21

TYPICAL SECTIONS

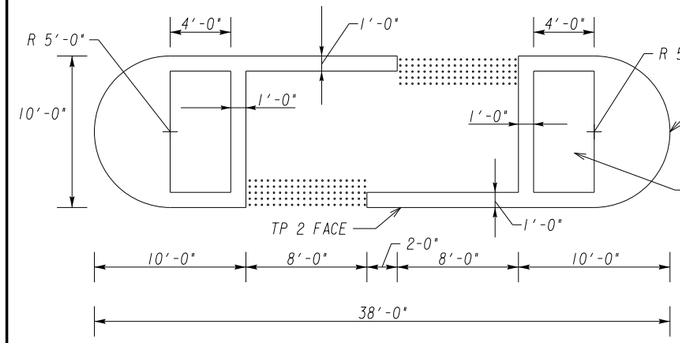
CHAMBLEE TUCKER ROAD LANE DIET

CHECKED:		DATE:	
BACKCHECKED:		DATE:	
CORRECTED:		DATE:	
VERIFIED:		DATE:	

DRAWING No. 05-005

8/6/2021 CONBDR

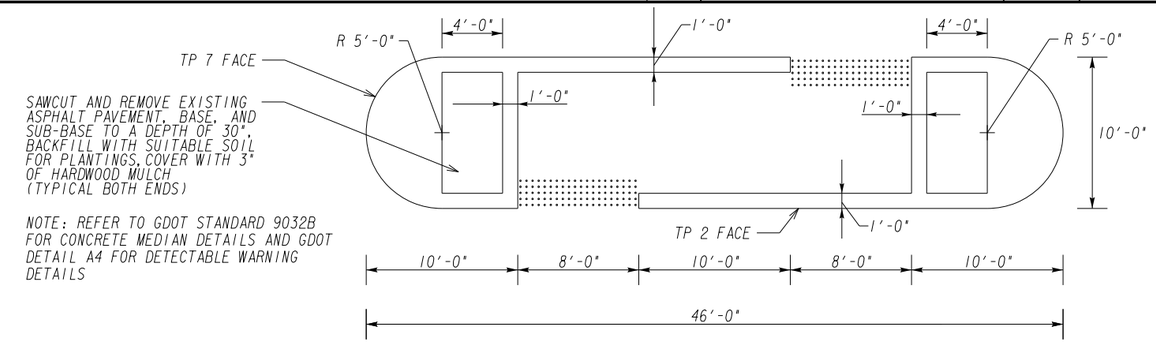
STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	N/A		



SAWCUT AND REMOVE EXISTING ASPHALT PAVEMENT, BASE, AND SUB-BASE TO A DEPTH OF 30". BACKFILL WITH SUITABLE SOIL FOR PLANTINGS, COVER WITH 3" OF HARDWOOD MULCH (TYPICAL BOTH ENDS)

NOTE: REFER TO GDOT STANDARD 9032B FOR CONCRETE MEDIAN DETAILS AND GDOT DETAIL A4 FOR DETECTABLE WARNING DETAILS

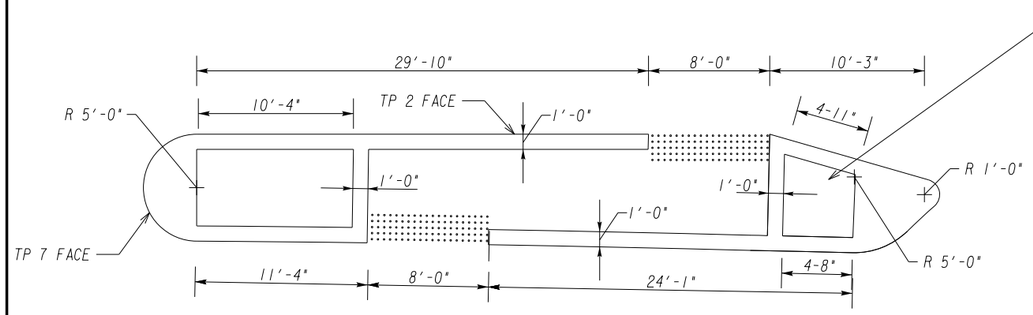
DETAIL A
PEDESTRIAN CUT-THROUGH



SAWCUT AND REMOVE EXISTING ASPHALT PAVEMENT, BASE, AND SUB-BASE TO A DEPTH OF 30". BACKFILL WITH SUITABLE SOIL FOR PLANTINGS, COVER WITH 3" OF HARDWOOD MULCH (TYPICAL BOTH ENDS)

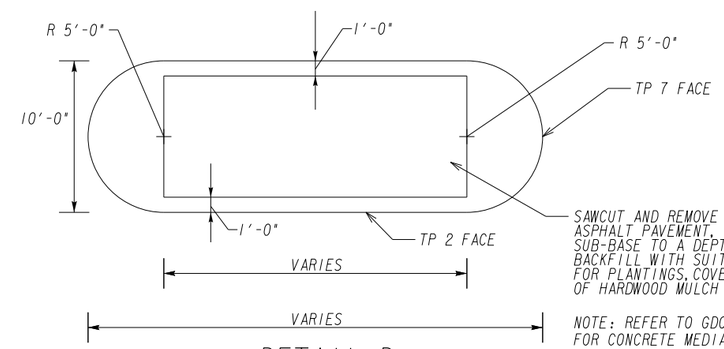
NOTE: REFER TO GDOT STANDARD 9032B FOR CONCRETE MEDIAN DETAILS AND GDOT DETAIL A4 FOR DETECTABLE WARNING DETAILS

DETAIL B
PEDESTRIAN CUT-THROUGH



SAWCUT AND REMOVE EXISTING ASPHALT PAVEMENT, BASE, AND SUB-BASE TO A DEPTH OF 30". BACKFILL WITH SUITABLE SOIL FOR PLANTINGS, COVER WITH 3" OF HARDWOOD MULCH (TYPICAL BOTH ENDS)

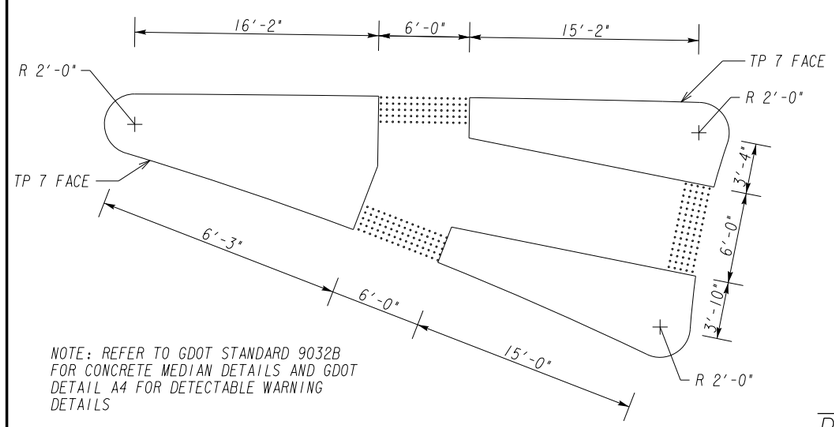
NOTE: REFER TO GDOT STANDARD 9032B FOR CONCRETE MEDIAN DETAILS AND GDOT DETAIL A4 FOR DETECTABLE WARNING DETAILS



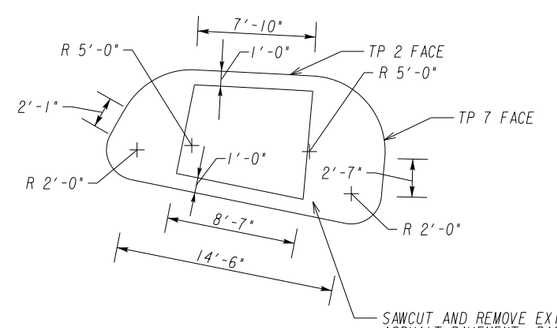
SAWCUT AND REMOVE EXISTING ASPHALT PAVEMENT, BASE, AND SUB-BASE TO A DEPTH OF 30". BACKFILL WITH SUITABLE SOIL FOR PLANTINGS, COVER WITH 3" OF HARDWOOD MULCH

NOTE: REFER TO GDOT STANDARD 9032B FOR CONCRETE MEDIAN DETAILS

DETAIL D
MEDIAN ISLAND



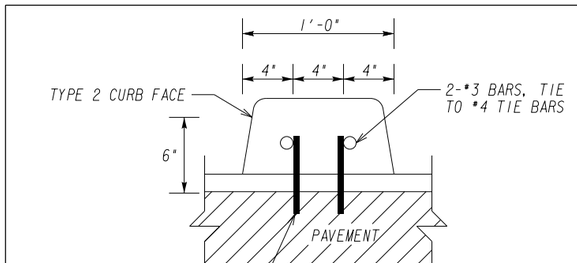
NOTE: REFER TO GDOT STANDARD 9032B FOR CONCRETE MEDIAN DETAILS AND GDOT DETAIL A4 FOR DETECTABLE WARNING DETAILS



SAWCUT AND REMOVE EXISTING ASPHALT PAVEMENT, BASE, AND SUB-BASE TO A DEPTH OF 30". BACKFILL WITH SUITABLE SOIL FOR PLANTINGS, COVER WITH 3" OF HARDWOOD MULCH (TYPICAL BOTH ENDS)

NOTE: REFER TO GDOT STANDARD 9032B FOR CONCRETE MEDIAN DETAILS

DETAIL C
BALL PARK DRIVE



NOTE: FOR ALL 1'-0" WIDE SECTIONS OF CONCRETE MEDIAN ON ALL DETAILS ON THIS SHEET, PROVIDE 2-#3 LONGITUDINAL BARS, 2-1/2" CLEAR TO EDGE OF CONCRETE.

NOTE: PRICE PAID FOR CONCRETE MEDIANS WILL BE FOR SQUARE YARDS OF THE ENTIRE RAISED MEDIAN, INCLUSIVE OF THE PLANTINGS AND PEDESTRIAN CUT-THRUS

City of Tucker

vhb

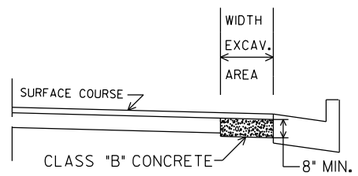
REVISION DATES

TYPICAL SECTIONS

CHAMBLEE TUCKER ROAD LANE DIET

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	05-006
CORRECTED:	DATE:	
VERIFIED:	DATE:	

8/6/2021 CONBDR



NO SCALE
CLASS "B" CONCRETE BASE OR PAVEMENT WIDENING
Item Code 500-9999 - Cu. Yds.

In excavated areas between the existing paving and new curb and gutter, Class "B" concrete shall be placed in lieu of the base and paving specified by the typical section. Payment will be made under "Class B Concrete Base and Pavement Widening".

See plans for details of curb and gutter construction.

CLASS "B" CONCRETE BASE OR WIDENING DETAIL

SUMMARY OF QUANTITIES

LOCATION	RECYCLED ASPH CONC PATCHING, INCL BITUM MATL & H LIME TN	RECYCLED ASPH CONC 12.5 MM SUPERPAVE, GP 2 ONLY, INCL BITUM MATL & H LIME TN	RECYCLED ASPH CONC 19 MM SUPERPAVE, GP 1 OR 2,INCL BITUM MATL & H LIME TN	TACK COAT GL	MILL ASPH CONC PVMT, 3 1/2 IN DEPTH SY	MILL ASPH CONC PVMT, VARIABLE DEPTH SY	CLASS B CONC, BASE OR PVMT WIDENING CY
CHAMBLEE TUCKER ROAD							
STA 100+00.00 TO STA 105+50.00		208	257	117	2335	183	
STA 105+50.00 TO STA 109+50.00		197	244	111	2216	161	
STA 109+50.00 TO STA 115+00.00		275	334	161	3035	204	20
STA 115+00.00 TO STA 120+00.00		221	269	123	2445	223	
STA 120+00.00 TO STA 125+00.00		219	269	123	2445	199	
STA 125+00.00 TO STA 130+00.00		217	269	123	2443	182	
STA 130+00.00 TO STA 135+50.00		242	296	135	2689	238	
STA 135+50.00 TO STA 140+50.00		217	270	123	2449	173	
STA 140+50.00 TO STA 145+50.00		218	269	123	2445	191	
STA 145+50.00 TO STA 150+50.00		219	269	123	2445	203	
STA 150+50.00 TO STA 156+00.00		241	296	135	2689	226	
STA 156+00.00 TO STA 161+00.00		241	302	137	2739	171	
STA 161+00.00 TO STA 165+00.00		190	234	107	2123	178	
STA 165+00.00 TO STA 170+00.00		216	269	123	2445	170	
STA 170+00.00 TO STA 175+00.00		219	269	123	2445	203	
STA 175+00.00 TO STA 180+00.00		218	269	123	2445	189	
STA 180+00.00 TO STA 185+50.00		243	296	135	2689	245	
STA 185+50.00 TO STA 190+50.00		233	294	134	2669	155	
STA 190+50.00 TO STA 195+50.00		220	270	123	2452	206	
STA 195+50.00 TO STA 201+00.00		361	459	209	4170	207	
STA 201+00.00 TO STA 206+50.00		323	431	196	3914		
STA 206+50.00 TO STA 210+00.00		210	280	128	2545		
STA 210+00.00 TO STA 214+50.00		66	88	40	796		
AS DIRECTED BY ENGINEER:	1000	80	100				
PROJECT TOTAL	1000	5294	6603	2975	59068	3907	20

CURB & GUTTER, MEDIAN AND SIDEWALK

LOCATION	CONC SIDEWALK, 4 IN SY	CONC SIDEWALK, 8 IN SY	CONCRETE MEDIAN, 6 IN SY	CONC CURB & GUTTER, 8 IN X 30 IN, TP 2 LF
CHAMBLEE TUCKER ROAD				
STA 100+00.00 TO STA 105+50.00				
STA 105+50.00 TO STA 109+50.00				
STA 109+50.00 TO STA 115+00.00	83	25	110	162
STA 115+00.00 TO STA 120+00.00			31	
STA 120+00.00 TO STA 125+00.00				
STA 125+00.00 TO STA 130+00.00	33		49	
STA 130+00.00 TO STA 135+50.00	27		82	
STA 135+50.00 TO STA 140+50.00			31	
STA 140+50.00 TO STA 145+50.00	27		49	
STA 145+50.00 TO STA 150+50.00			31	
STA 150+50.00 TO STA 156+00.00				
STA 156+00.00 TO STA 161+00.00			43	
STA 161+00.00 TO STA 165+00.00			31	
STA 165+00.00 TO STA 170+00.00	27		49	
STA 170+00.00 TO STA 175+00.00			43	
STA 175+00.00 TO STA 180+00.00	34		80	
STA 180+00.00 TO STA 185+50.00			43	
STA 185+50.00 TO STA 190+50.00			43	
STA 190+50.00 TO STA 195+50.00	32		49	
STA 195+50.00 TO STA 201+00.00	30	43	29	86
STA 201+00.00 TO STA 206+50.00				
STA 206+50.00 TO STA 210+00.00				
STA 210+00.00 TO STA 214+50.00				
AS DIRECTED BY ENGINEER:				200
PROJECT TOTAL	293	68	793	448

DRIVEWAYS

LOCATION	CONC VALLEY GUTTER, 6 IN SY
STA 125+50.00 LT	29
AS DIRECTED BY ENGINEER:	
PROJECT TOTAL	29

TRAFFIC CONTROL - CHAMBLEE TUCKER ROAD LANE DIET

LUMP SUM

GRADING COMPLETE - CHAMBLEE TUCKER ROAD LANE DIET

LUMP SUM

*GRADING COMPLETE SHALL ALSO INCLUDE REMOVAL OF ITEMS AS CALLED FOR IN THE PLANS OR AS NECESSARY TO CONSTRUCT ELEMENTS OF THE PROJECT; ALL INCIDENTAL SAW CUTTING COSTS; REMOVAL AND DISPOSAL OF DEMOLITION DEBRIS, WASTE SOILS, VEGETATION AND OTHER DELETERIOUS MATERIAL; SETTING UTILITY STRUCTURES THAT ARE TO REMAIN FLUSH WITH PROPOSED GRADE OR CONCRETE SURFACE; EROSION, SEDEMENTATION AND POLLUTION CONTROL BEST MANAGEMENT PRACTICES; GRASSING AND MULCH; AND OBTAINING SUITABLE BORROW MATERIAL.

City of Tucker

vhb

REVISION DATES
10/22/21

SUMMARY QUANTITIES

CHAMBLEE TUCKER ROAD LANE DIET

CHECKED: DATE:
BACKCHECKED: DATE:
CORRECTED: DATE:
VERIFIED: DATE:

DRAWING No. 06-001

SUMMARY OF QUANTITIES

STRIPING

LOCATION	ARROW TYPE 2	ARROW TYPE 3	WORD TYPE 1	WORD TYPE 3A	THERMOPLASTIC PAVEMENT MARKINGS: SOLID STRIPE 5 INCH WHITE	SOLID STRIPE 5 INCH YELLOW	SOLID STRIPE 24 INCH WHITE	SOLID STRIPE 8 INCH WHITE	SKIP STRIPE 5 INCH WHITE	SKIP STRIPE 5 INCH YELLOW	HATCHING WHITE	HATCHING YELLOW	RAISED PAVEMENT MARKERS TYPE 1	RAISED PAVEMENT MARKERS TYPE 3
	EA	EA	EA	EA	LF	LF	LF	LF	GLF	GLF	SY	SY	EA	EA
CHAMBLEE TUCKER ROAD														
STA 100+00.00 TO STA 105+50.00	1	1			587	176	120	736	486		286	140	27	14
STA 105+50.00 TO STA 109+50.00	1				850	800			689				20	16
STA 109+50.00 TO STA 115+00.00	5				1288	823		573	193	411	35	38	26	10
STA 115+00.00 TO STA 120+00.00	4				1000	867				848		84	27	
STA 120+00.00 TO STA 125+00.00	4				946	744				544			24	6
STA 125+00.00 TO STA 130+00.00	4				903	636		165		129		97	22	7
STA 130+00.00 TO STA 135+50.00	4				1056	704		166		683		180	34	
STA 135+50.00 TO STA 140+50.00	5				786	460				461		83	21	
STA 140+50.00 TO STA 145+50.00	4			1	916	585		166		328		90	18	4
STA 145+50.00 TO STA 150+50.00	5				972	705				625		92	26	3
STA 150+50.00 TO STA 156+00.00	6				1050	836	78	233		546			20	5
STA 156+00.00 TO STA 161+00.00	4				969	705				350	57	96	28	10
STA 161+00.00 TO STA 165+00.00	4			1	736	644			64	444		90	25	5
STA 165+00.00 TO STA 170+00.00	5				824	486		167		197		96	24	5
STA 170+00.00 TO STA 175+00.00	5				981	668				397		94	26	3
STA 175+00.00 TO STA 180+00.00	2				806	374		166		172		182	28	1
STA 180+00.00 TO STA 185+50.00	2				1100	896				889		116	30	
STA 185+50.00 TO STA 190+50.00	4				879	720			59	408		98	30	10
STA 190+50.00 TO STA 195+50.00	4				941	792		166		695		100	29	
STA 195+50.00 TO STA 201+00.00	8				1202	285	198	685	656		115	277	46	27
STA 201+00.00 TO STA 206+50.00	6		5		1031	874	144	295	883		136		24	31
STA 206+50.00 TO STA 210+00.00	6		1		946	670			796	301			15	30
STA 210+00.00 TO STA 214+50.00	3		2		399	190	78		204		5		6	14
AS DIRECTED BY ENGINEER:														
PROJECT TOTAL	96	1	8	2	21166	14642	618	3519	4031	8429	636	1954	576	201

SIGNALS

LOCATION	INSTL NO	LOOP DETECTOR, 6 FT X 6 FT, BIPOLE	LOOP DETECTOR, 6 FT X 40 FT, QUADRUPOLE 6 IN
		EA	EA
LIVSEY ROAD AT CHAMBLEE TUCKER ROAD	1	2	1
TUCKER NORCROSS ROAD AT CHAMBLEE TUCKER ROAD	2		
AS DIRECTED BY ENGINEER:		11	9
PROJECT TOTAL		13	10

SUMMARY OF QUANTITIES

OVERHEAD SPAN WIRE SIGNS

LOCATION	CODE	HIGHWAY SIGNS, TP 1 MATL, REFL SHEETING, TP 9			HIGHWAY SIGNS, TP 1 MATL, REFL SHEETING, TP 11		
		SIZE	QTY	SF	SIZE	QTY	SF
CHAMBLEE TUCKER ROAD							
STA 142+88.00	S5-1				24 X 48	1	8.00
STA 161+32.00	S5-1				24 X 48	1	8.00
STA 203+21.00	R3-5R	30 X 36	1	7.50			
STA 203+25.07	R3-5L	30 X 36	1	7.50			
STA 203+26.01	R3-5A	30 X 36	1	7.50			
STA 203+29.27	D-SPECIAL	30 X 36	1	7.50			
STA 203+33.63	D-SPECIAL	30 X 36	1	7.50			
AS DIRECTED BY ENGINEER:							
PROJECT TOTAL				38			16

DELINEATORS (EACH)

LOCATION	TYPE 2B WHITE EA	TYPE 2B YELLOW EA
MAINLINE NAME		
STA 109+50.00 TO STA 115+00.00	5	4
STA 115+00.00 TO STA 120+00.00		8
STA 125+00.00 TO STA 130+00.00		8
STA 130+00.00 TO STA 135+50.00		16
STA 135+50.00 TO STA 140+50.00		8
STA 140+50.00 TO STA 145+50.00		8
STA 145+50.00 TO STA 150+50.00		8
STA 156+00.00 TO STA 161+00.00		8
STA 161+00.00 TO STA 165+00.00		8
STA 165+00.00 TO STA 170+00.00		8
STA 170+00.00 TO STA 175+00.00		8
STA 175+00.00 TO STA 180+00.00		16
STA 180+00.00 TO STA 185+50.00		8
STA 185+50.00 TO STA 190+50.00		8
STA 190+50.00 TO STA 195+50.00		8
AS DIRECTED BY ENGINEER:		
PROJECT TOTAL	5	132

RECTANGULAR RAPID FLASHING BEACONS (RRFB)

LOCATION	RRFB INSTALLATION - INSTALL CITY PROVIDED RRFB ASSEMBLY - SINGLE SIDED RRFB, SOLAR POWERED	AND INSTALL RRFB ASSEMBLY - SINGLE SIDED SUPPLEMENTAL RRFB, HIGH CAPACITY SOLAR POWERED
	EA	EA
LOCATION 1 - STA 111+18.00 - SCHOOL CROSSING	4	
LOCATION 2 - STA 125+95.00 - PEDESTRIAN CROSSING	4	
LOCATION 3 - STA 134+58.00 - PEDESTRIAN CROSSING	4	
LOCATION 4 - STA 142+23.00 - SCHOOL CROSSING	4	
LOCATION 5 - STA 168+50.00 - PEDESTRIAN CROSSING	4	
LOCATION 6 - STA 179+64.00 - PEDESTRIAN CROSSING	4	1
LOCATION 7 - STA 190+83.00 - PEDESTRIAN CROSSING	4	
AS DIRECTED BY ENGINEER:		
PROJECT TOTAL	**28**	**1**

SUMMARY OF QUANTITIES

SIGNING

LOCATION	MUTCD SIGN CODE	HIGHWAY SIGNS: TYPE 9 SHEETING, TYPE 1 MATERIAL SIZE	QTY	SF	TYPE 11 SHEETING, TYPE 1 MATERIAL SIZE	QTY	SF	POSTS: TYPE 7 LENGTH LF	QTY	TOTAL LF	TYPE 9 LENGTH LF	QTY	TOTAL LF
CHAMBLEE TUCKER ROAD													
STA 101+90.00 RT	S4-3P				24 X 8	1	1.34	13.20	1	13.20			
	R2-1	24 X 30	1	5.00									
STA 103+21.00 LT	W-SPECIAL				36 X 36	1	9.00						
STA 105+00.00 RT	R3-8	36 X 30	1	7.50				12.50	1	12.50			
STA 106+26.00 RT	R3-7R	30 X 30	1	6.25				12.50	1	12.50			
STA 107+75.00 RT	R3-8	36 X 30	1	7.50				12.50	1	12.50			
STA 109+05.00 RT	R3-7R	30 X 30	1	6.25				12.50	1	12.50			
STA 110+00.00 RT	S1-1				36 X 36	1	6.75	14.00	1	14.00			
	W16-9P				24 X 12	1	2.00						
STA 110+75.00 RT	R560-5	18 X 24	1	3.00				12.00	1	12.00			
STA 110+97.00 LT	R4-7	24 X 30	1	5.00							15.50	1	15.50
	R1-6A	12 X 36	1	3.00									
STA 111+22.00 RT	R1-2				36	1	3.90	12.60	1	12.60			
STA 111+40.00 LT	R4-7	24 X 30	1	5.00							15.50	1	15.50
	R1-6A	12 X 36	1	3.00									
STA 112+68.00 LT	S5-1				24 X 48	1	8.00						
STA 112+75.00 RT	R2-1	24 X 30	1	5.00							15.00	1	15.00
	S5-2	24 X 30	1	5.00									
STA 114+50.00 LT	S1-1				36 X 36	1	6.75	14.00	1	14.00			
	W16-9P				24 X 12	1	2.00						
STA 117+47.00	R4-7	24 X 30	1	5.00				12.50	1	12.50			
STA 117+73.00	R4-7	24 X 30	1	5.00				12.50	1	12.50			
STA 119+50.00 LT	S4-5				36 X 36	1	9.00				14.30	1	14.30
STA 123+00.00 LT	R2-1	24 X 30	1	5.00				12.50	1	12.50			
STA 123+50.00 RT	W11-2				30 X 30	1	6.25				14.60	1	14.60
	W16-9P				24 X 12	1	2.00						
STA 125+10.00 LT	W1-2				30 X 30	1	6.25	13.60	1	13.60			
STA 125+74.00 LT	R4-7	24 X 30	1	5.00							15.50	1	15.50
	R1-6A	12 X 36	1	3.00									
STA 126+16.00 RT	R4-7	24 X 30	1	5.00							15.50	1	15.50
	R1-6A	12 X 36	1	3.00									
STA 127+85.00 LT	W11-2				30 X 30	1	6.25				14.60	1	14.60
	W16-9P				24 X 12	1	2.00						
STA 131+82.00	R4-7	24 X 30	1	5.00				12.50	1	12.50			
STA 132+18.00	R4-7	24 X 30	1	5.00				12.50	1	12.50			
STA 134+41.00 LT	R4-7	24 X30	1	5.00							15.50	1	15.50
	R1-6A	12 X 36	1	3.00									
STA 134+75.00 RT	R4-7	24 X 30	1	5.00							15.50	1	15.50
	R1-6A	12 X 36	1	3.00									
STA 136+25.00 RT	S4-5				36 X 36	1	9.00				14.30	1	14.30
STA 136+75.00 LT	W11-2				30 X 30	1	6.25				14.60	1	14.60
	W16-9P				24 X 12	1	2.00						

City of Tucker

vhb

REVISION DATES

SUMMARY QUANTITIES

CHAMBLEE TUCKER ROAD LANE DIET

CHECKED: DATE:
BACKCHECKED: DATE:
CORRECTED: DATE:
VERIFIED: DATE:

DRAWING No. 06-004

SUMMARY OF QUANTITIES

SIGNING

LOCATION	MUTCD SIGN CODE	HIGHWAY SIGNS: TYPE 9 SHEETING, TYPE 1 MATERIAL SIZE	QTY	SF	TYPE 11 SHEETING, TYPE 1 MATERIAL SIZE	QTY	SF	POSTS: TYPE 7 LENGTH LF	QTY	TOTAL LF	TYPE 9 LENGTH LF	QTY	TOTAL LF
CHAMBLEE TUCKER ROAD													
STA 138+32.00	R4-7	24 X 30	1	5.00				12.50	1	12.50			
STA 138+58.00	R4-7	24 X 30	1	5.00				12.50	1	12.50			
STA 140+41.00 RT	S1-1				36 X 36	1	6.75	14.00	1	14.00			
	W16-9P				24 X 12	1	2.00						
STA 141+50.00 LT	R2-1	24 X 30	1	5.00							15.00	1	15.00
	S5-2	24 X 30	1	5.00									
STA 142+02.00 LT	R4-7	24 X 30	1	5.00							15.50	1	15.50
	R1-6A	12 X 36	1	3.00									
STA 142+44.00 RT	R4-7	24 X 30	1	5.00							15.50	1	15.50
	R1-6A	12 X 36	1	3.00									
STA 145+41.00 LT	S1-1				36 X 36	1	6.75	14.00	1	14.00			
	W16-9P				24 X 12	1	2.00						
STA 145+83.00 RT	W3-3				30 X 30	1	6.25	14.60	2	29.20			
	W16-2AP				24 X 12	1	2.00						
STA 148+32.00	R4-7	24 X 30	1	5.00				12.50	1	12.50			
STA 148+58.00	R4-7	24 X 30	1	5.00				12.50	1	12.50			
STA 148+64.00 LT	S4-3P				24 X 8	1	1.34	13.20	1	13.20			
	R2-1	24 X 30	1	5.00									
STA 151+17.00 RT	S4-3P				24 X 8	1	1.34	13.20	1	13.20			
	R2-1	24 X 30	1	5.00									
STA 152+75.00 LT	S4-3P				24 X 8	1	1.34	13.20	1	13.20			
	R2-1	24 X 30	1	5.00									
STA 154+35.00 RT	S1-1				36 X 36	1	6.75	14.00	1	14.00			
	W16-7P				24 X 12	1	2.00						
STA 154+38.00 LT	S1-1				36 X 36	1	6.75	14.00	1	14.00			
	W16-7P				24 X 12	1	2.00						
STA 157+20.00 LT	S4-3P				24 X 8	1	1.34	13.20	1	13.20			
	R2-1	24 X 30	1	5.00									
STA 157+20.00 RT	S4-3P				24 X 8	1	1.34	13.20	1	13.20			
	R2-1	24 X 30	1	5.00									
STA 157+22.00	R4-7	24 X 30	1	5.00				12.50	1	12.50			
STA 157+58.00	R4-7	24 X 30	1	5.00				12.50	1	12.50			
STA 157+69.00 LT	S1-1				36 X 36	1	6.75	14.00	1	14.00			
	W16-9P				24 X 12	1	2.00						
STA 161+32.00 RT	R2-1	24 X 30	1	5.00							15.00	1	15.00
	S5-2	24 X 30	1	5.00									
STA 162+32.00	R4-7	24 X 30	1	5.00				12.50	1	12.50			
STA 162+58.00	R4-7	24 X 30	1	5.00				12.50	1	12.50			
STA 167+00.00 RT	W11-2				30 X 30	1	4.69	13.50	1	13.50			
	W16-9P				24 X 12	1	2.00						
STA 167+50.00 LT	S4-5				36 X 36	1	9.00				14.30	1	14.30
STA 168+29.00 LT	R4-7	24 X 30	1	5.00							15.50	1	15.50
	R1-6A	12 X 36	1	3.00									
STA 168+72.00 RT	R4-7	24 X 30	1	5.00							15.50	1	15.50
	R1-6A	12 X 36	1	3.00									
STA 169+20.00 LT	W2-2				30 X 30	1	6.25	14.30	1	14.30			
	W16-8P				30 X 8	1	1.67						

SUMMARY OF QUANTITIES

SIGNING

LOCATION	MUTCD SIGN CODE	HIGHWAY SIGNS: TYPE 9 SHEETING, TYPE 1 MATERIAL SIZE	QTY	SF	TYPE 11 SHEETING, TYPE 1 MATERIAL SIZE	QTY	SF	POSTS: TYPE 7 LENGTH LF	QTY	TOTAL LF	TYPE 9 LENGTH LF	QTY	TOTAL LF
CHAMBLEE TUCKER ROAD													
STA 170+50.00 LT	W11-2				30 X 30	1	6.25				14.60	1	14.60
	W16-9P				24 X 12	1	2.00						
STA 172+22.00	R4-7	24 X 30	1	5.00				12.50	1	12.50			
STA 172+58.00	R4-7	24 X 30	1	5.00				12.50	1	12.50			
STA 175+84.00 LT	R2-1	24 X 30	1	5.00				12.50	1	12.50			
STA 175+92.00	R4-7	24 X 30	1	5.00				12.50	1	12.50			
STA 176+10.00 RT	R2-1	24 X 30	1	5.00				12.50	1	12.50			
STA 176+18.00	R4-7	24 X 30	1	5.00				12.50	1	12.50			
STA 179+43.00 LT	R4-7	24 X 30	1	5.00							15.50	1	15.50
	R1-6A	12 X 36	1	3.00									
STA 179+85.00 RT	R4-7	24 X 30	1	5.00							15.50	1	15.50
	R1-6A	12 X 36	1	3.00									
STA 182+50.00 LT	W11-2				30 X 30	1	6.25				14.60	1	14.60
	W16-9P				24 X 12	1	2.00						
STA 183+72.00	R4-7	24 X 30	1	5.00				12.50	1	12.50			
STA 184+08.00	R4-7	24 X 30	1	5.00				12.50	1	12.50			
STA 187+82.00	R4-7	24 X 30	1	5.00				12.50	1	12.50			
STA 188+00.00 RT	W11-2				30 X 30	1	6.25				14.60	1	14.60
	W16-9P				24 X 12	1	2.00						
STA 188+18.00	R4-7	24 X 30	1	5.00				12.50	1	12.50			
STA 190+61.00 LT	R4-7	24 X 30	1	5.00							15.50	1	15.50
	R1-6A	12 X 36	1	3.00									
STA 191+04.00 RT	R4-7	24 X 30	1	5.00							15.50	1	15.50
	R1-6A	12 X 36	1	3.00									
STA 192+75.00 LT	W11-2				30 X 30	1	6.25				14.60	1	14.60
	W16-9P				24 X 12	1	2.00						
STA 196+00.00 LT	R2-1	24 X 30	1	5.00				12.50	1	12.50			
STA 199+10.00 LT	R4-7	24 X 30	1	5.00				12.50	1	12.50			
STA 200+60.00 LT	R3-7R	30 X 30	1	6.25				12.50	1	12.50			
STA 203+90.00 LT	R3-7R	30 X 30	1	6.25				12.50	1	12.50			
AS DIRECTED BY ENGINEER:													
PROJECT TOTAL				340			205			660			408

QUANTITIES REQUIRED BY AMENDMENT

DATE	ITEM NO.	AMENDMENT DATE	AMENDMENT NUMBER	DESCRIPTION	UNIT	ORIGINAL QUANTITY	REQUIRED BY AMENDMENT QUANTITY
10/22/21	402-3190	10/22/21	1	RECYCLED ASPH CONC 19 MM SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME	TN	5696	6603
10/22/21	402-4510	10/22/21		RECYCLED ASPH CONC 12.5 MM SUPERPAVE, GP 2 ONLY, INCL POLYMER-MODIFIED BITUM MATL & H LIME	TN	4779	5294
10/22/21	432-0212	10/22/21		MILL ASPH CONC PVMT, 3 IN DEPTH	SY	59068	0
10/22/21	432-0214	10/22/21		MILL ASPH CONC PVMT, 3 1/2 IN DEPTH	SY	0	59068
10/22/21	441-6222	10/22/21		CONC CURB & GUTTER, 8 IN X 30 IN, TP 2	LF	228	448

City of Tucker

vhb

REVISION DATES
10/22/21

QUANTITIES (AMENDMENT)

CHAMBLEE TUCKER ROAD LANE DIET

CHECKED:		DATE:	
BACKCHECKED:		DATE:	
CORRECTED:		DATE:	
VERIFIED:		DATE:	

DRAWING No. 07-001

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	N/A		

QUANTITIES REQUIRED ON CONSTRUCTION

DATE	ITEM NO.	DESCRIPTION	UNIT	ORIGINAL QUANTITY	PREVIOUS QUANTITY	REQUIRED ON CONSTRUCTION QUANTITY

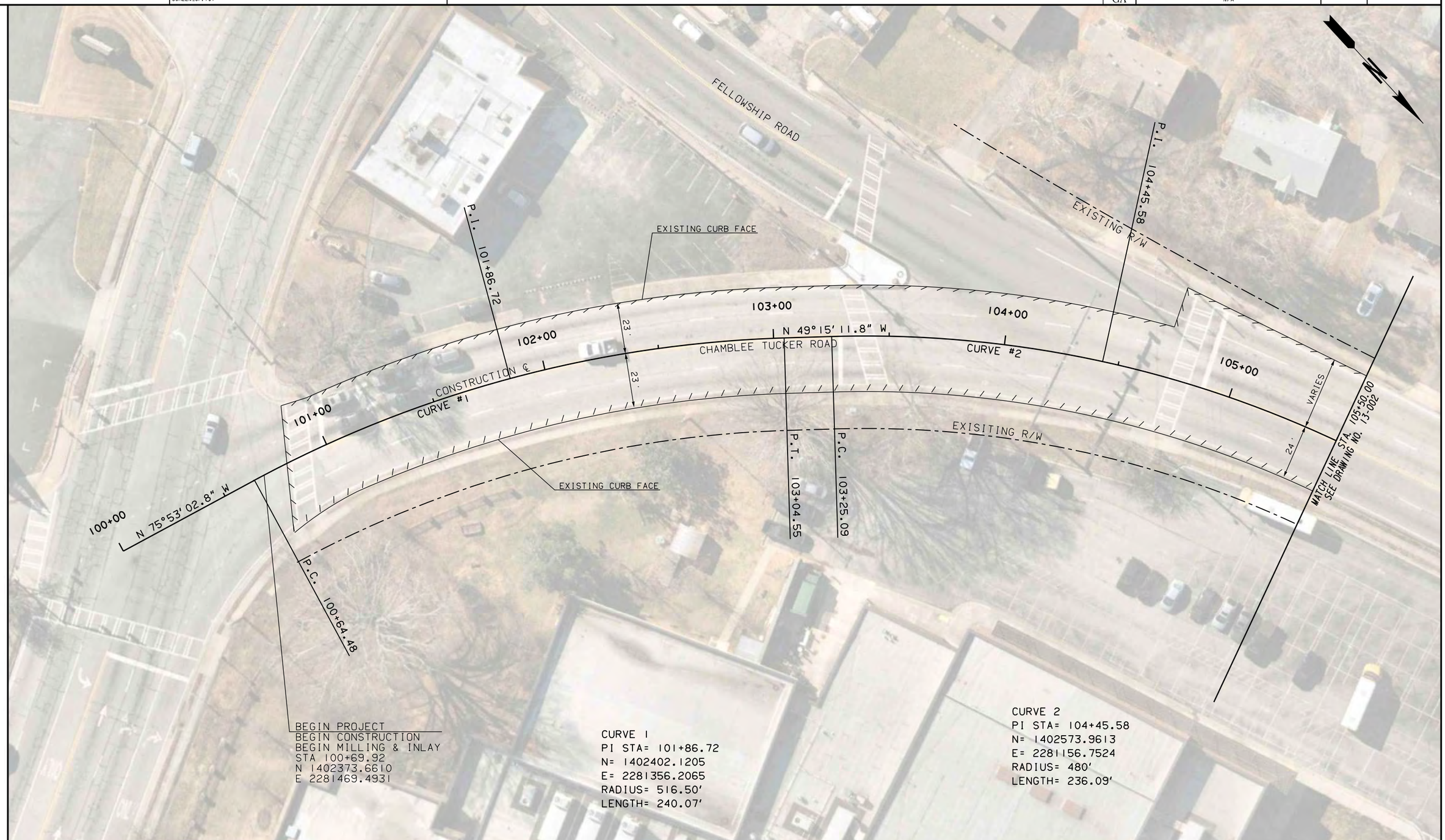
REVISION DATES

QUANTITIES (CONSTRUCTION)

CHAMBLEE TUCKER ROAD LANE DIET

CHECKED:		DATE:	
BACKCHECKED:		DATE:	
CORRECTED:		DATE:	
VERIFIED:		DATE:	

DRAWING No.
08-001



PROPERTY AND EXISTING R/W LINE

City of Tucker

vhb

SCALE IN FEET
0 20 40 80

REVISION DATES

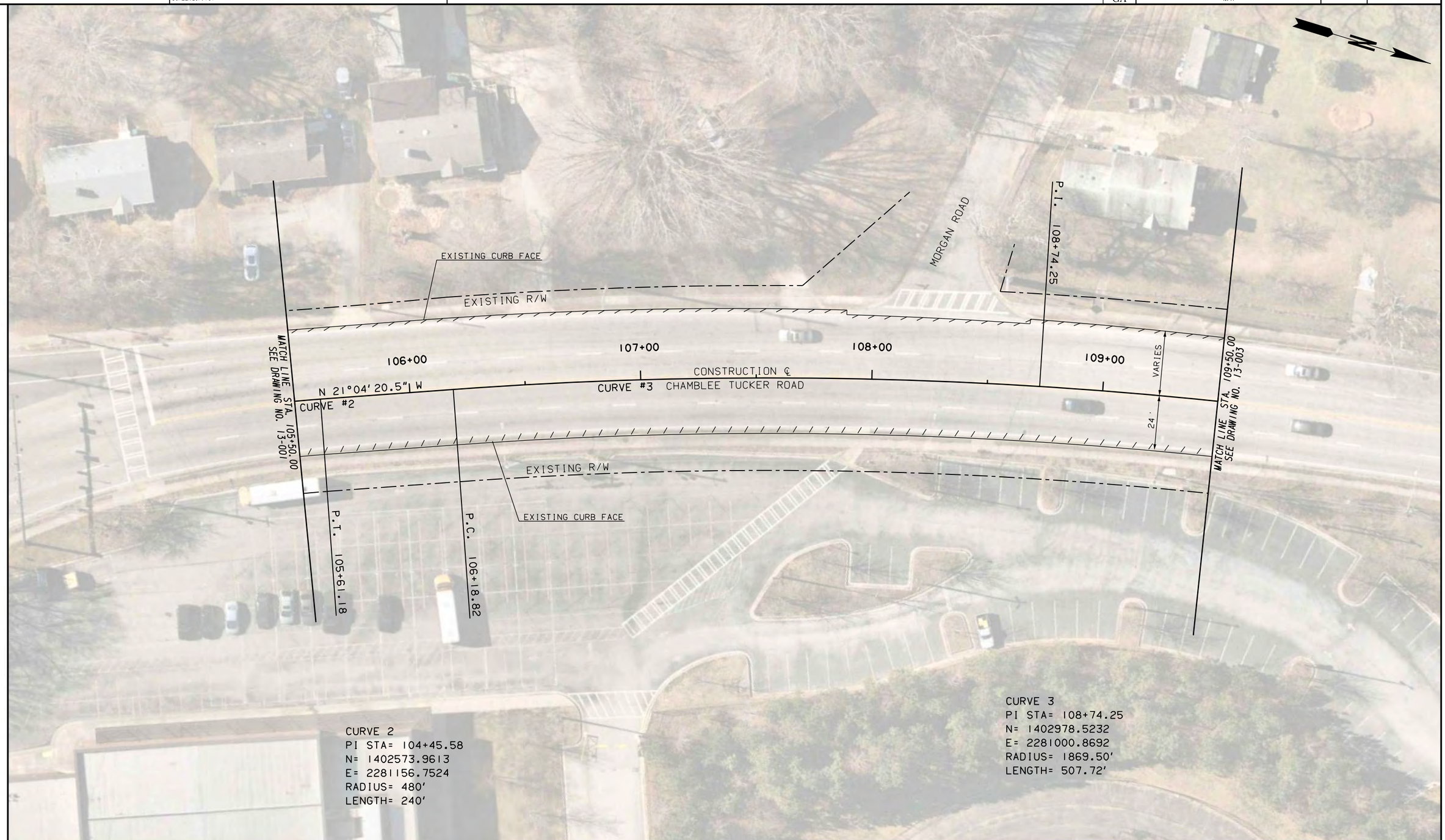
CONSTRUCTION PLAN

CHAMBLEE TUCKER ROAD LANE DIET

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	13-001
CORRECTED:	DATE:	
VERIFIED:	DATE:	

8/6/2021 CONBDR

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	N/A		



PROPERTY AND EXISTING R/W LINE

City of Tucker

vhb

SCALE IN FEET
0 20 40 80

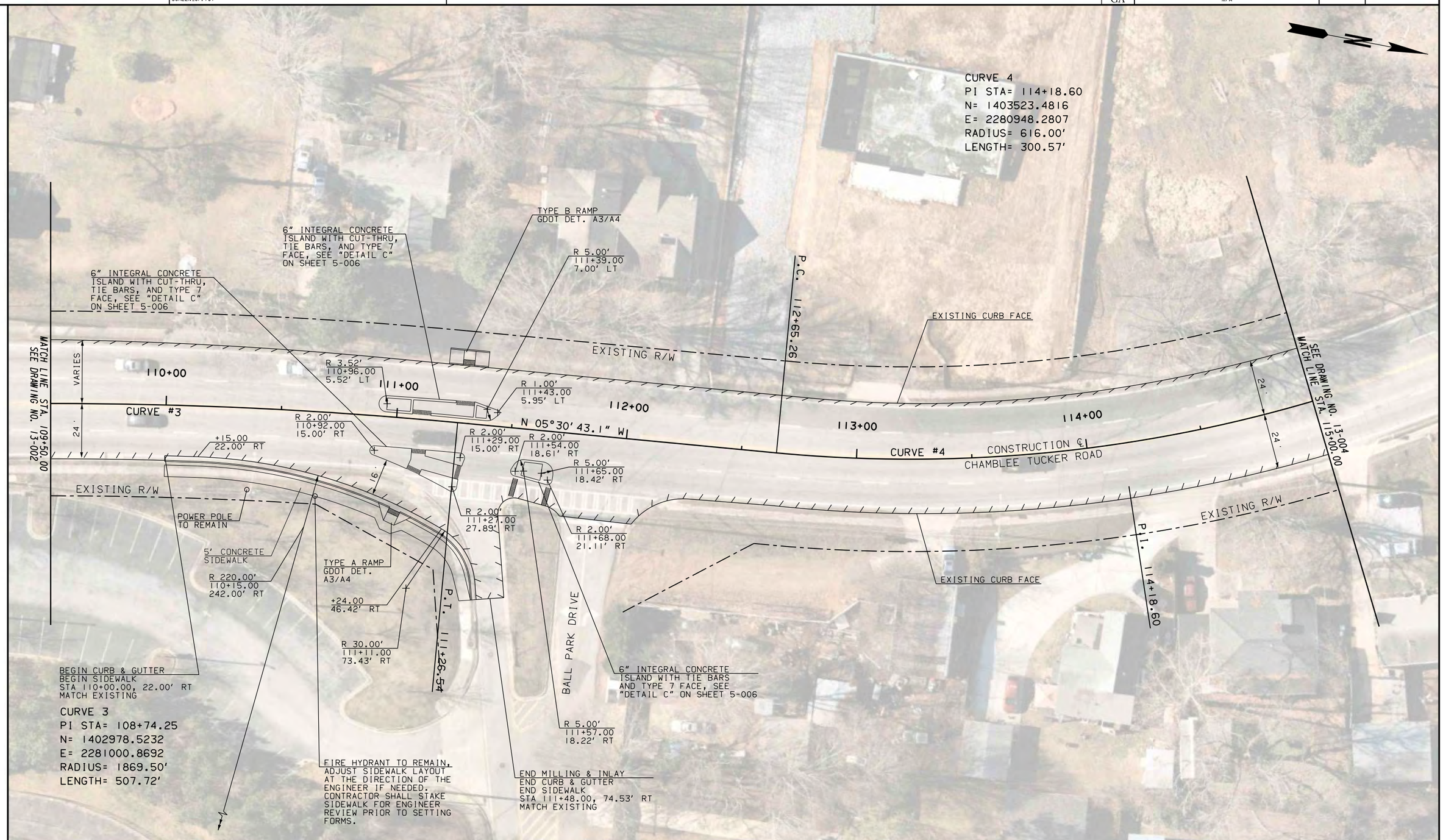
REVISION DATES

CONSTRUCTION PLAN

CHAMBLEE TUCKER ROAD LANE DIET

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	13-002
CORRECTED:	DATE:	
VERIFIED:	DATE:	

8/6/2021 CONBDR



PROPERTY AND EXISTING R/W LINE

City of Tucker

vhb

SCALE IN FEET
0 20 40 80

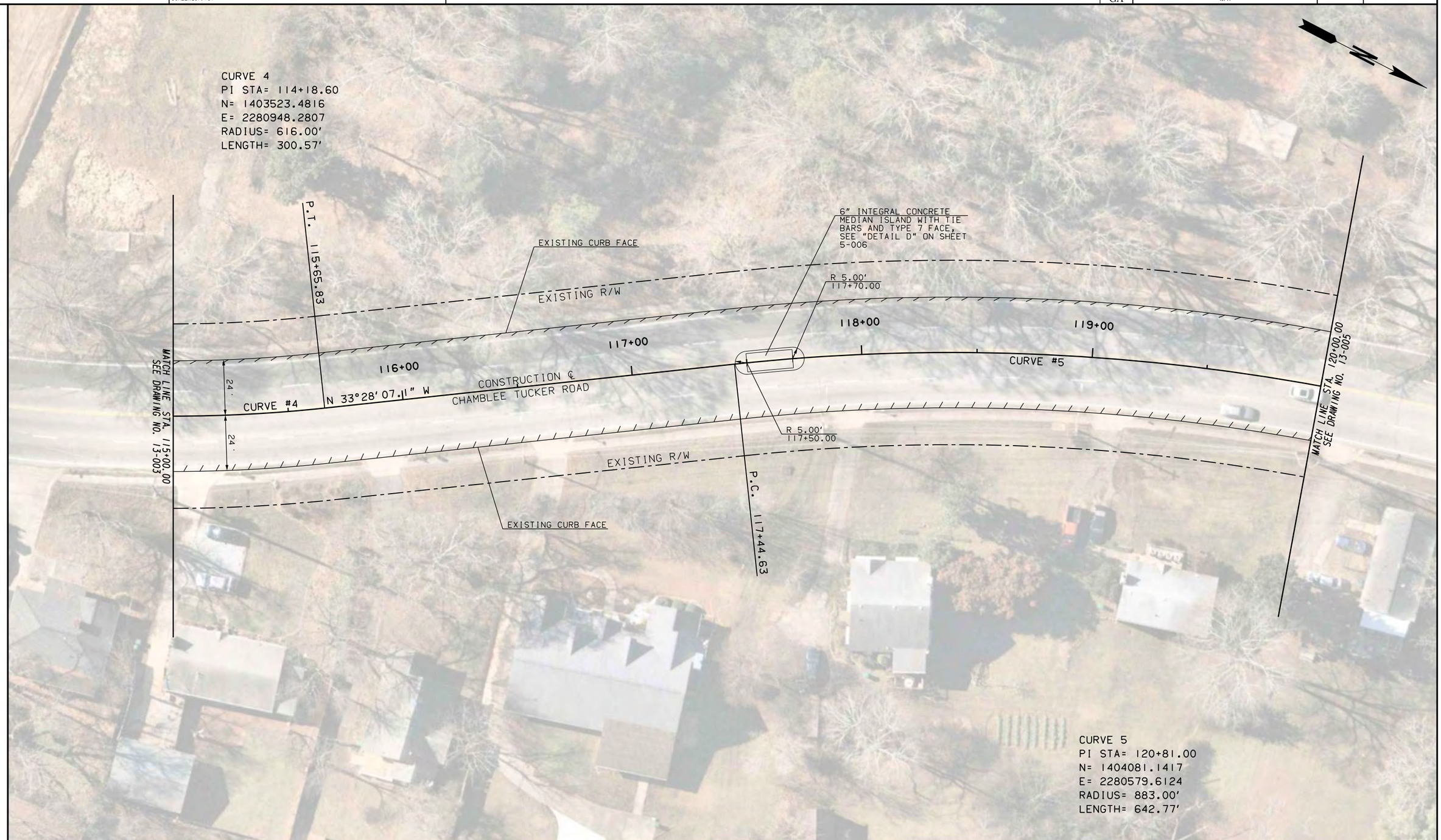
REVISION DATES		

CONSTRUCTION PLAN

CHAMBLEE TUCKER ROAD LANE DIET

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		13-003
CORRECTED:		DATE:		
VERIFIED:		DATE:		

8/6/2021 CONBDR



PROPERTY AND EXISTING R/W LINE

City of Tucker

vhb

SCALE IN FEET
0 20 40 80

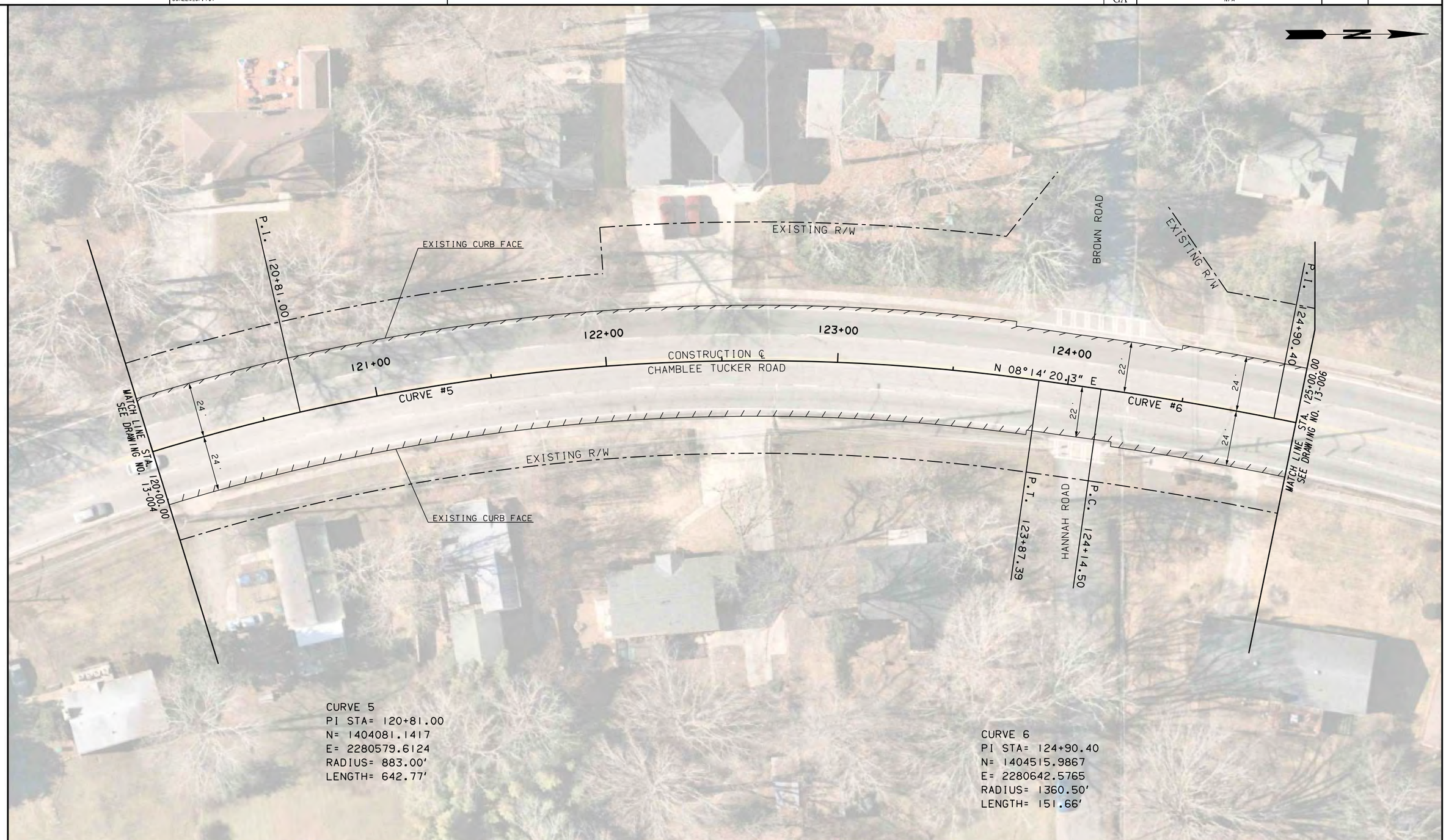
REVISION DATES

CONSTRUCTION PLAN

CHAMBLEE TUCKER ROAD LANE DIET

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	13-004
CORRECTED:	DATE:	
VERIFIED:	DATE:	

8/6/2021 CONBDR



PROPERTY AND EXISTING R/W LINE

City of Tucker

vhb

SCALE IN FEET
0 20 40 80

REVISION DATES

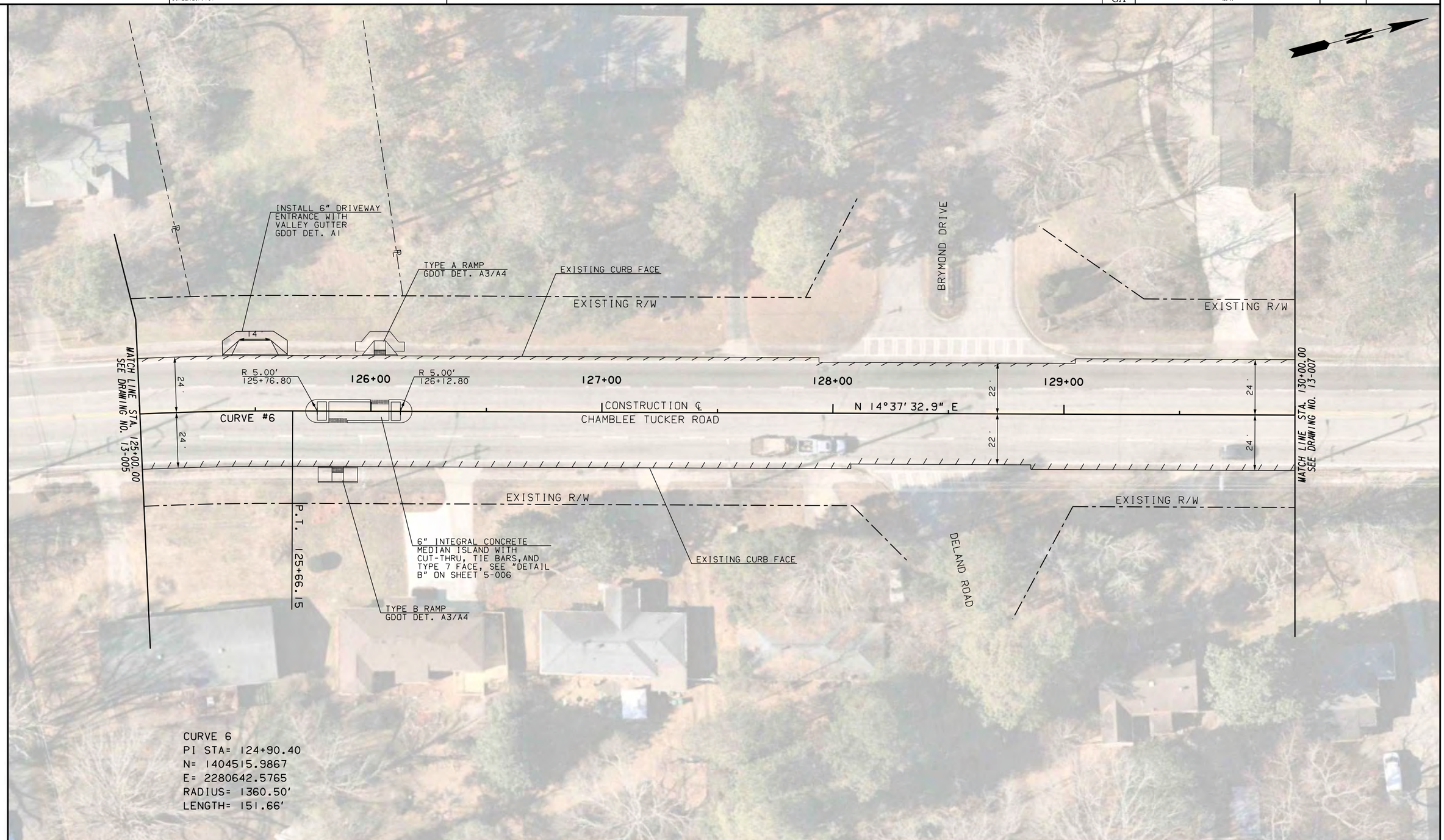
CONSTRUCTION PLAN

CHAMBLEE TUCKER ROAD LANE DIET

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	13-005
CORRECTED:	DATE:	
VERIFIED:	DATE:	

8/6/2021 CONBDR

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	N/A		



PROPERTY AND EXISTING R/W LINE

City of Tucker

vhb

SCALE IN FEET
0 20 40 80

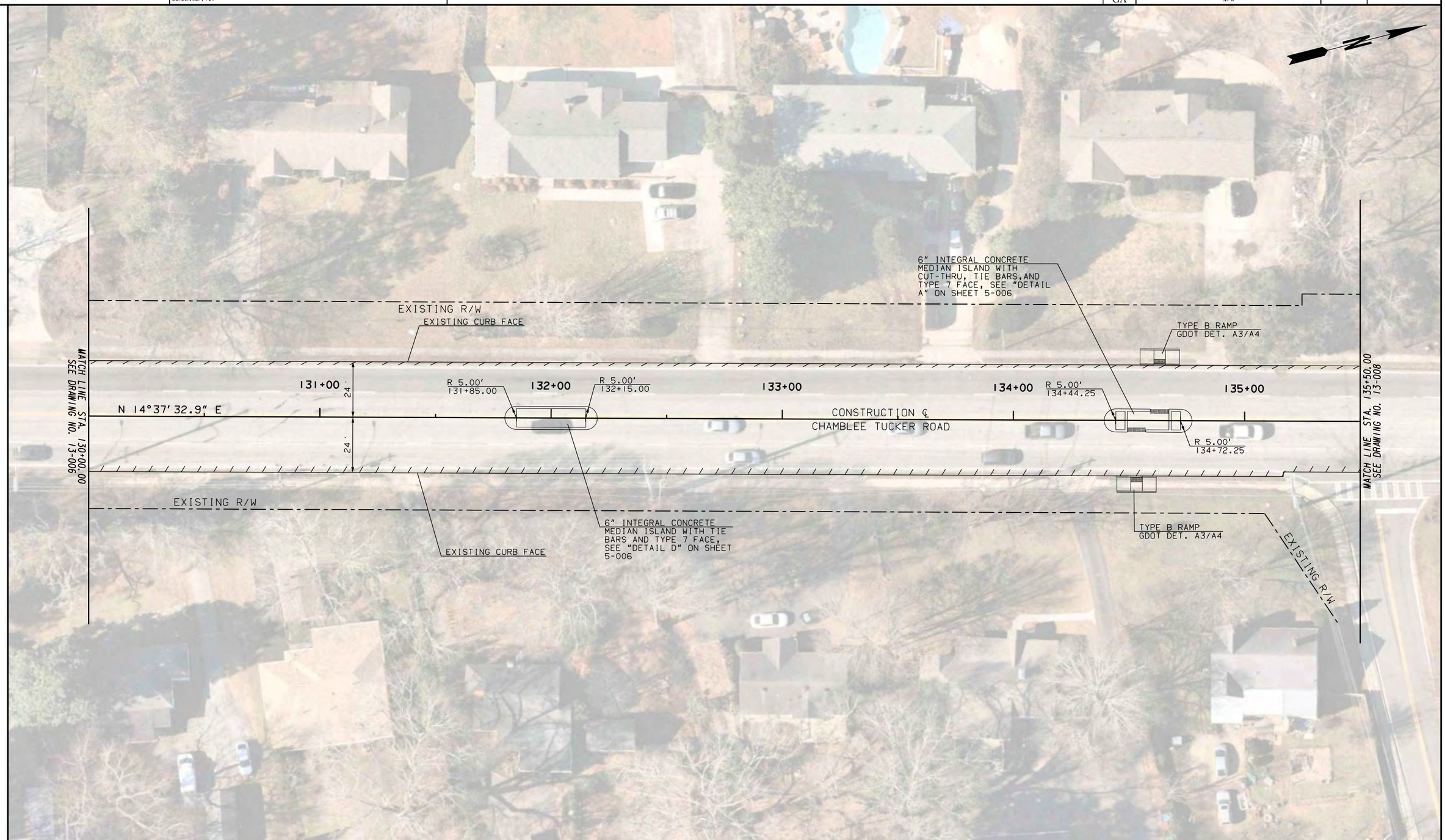
REVISION DATES

CONSTRUCTION PLAN

CHAMBLEE TUCKER ROAD LANE DIET

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	13-006
CORRECTED:	DATE:	
VERIFIED:	DATE:	

8/6/2021 CONBDR



PROPERTY AND EXISTING R/W LINE

City of Tucker

vhb

SCALE IN FEET
0 20 40 80

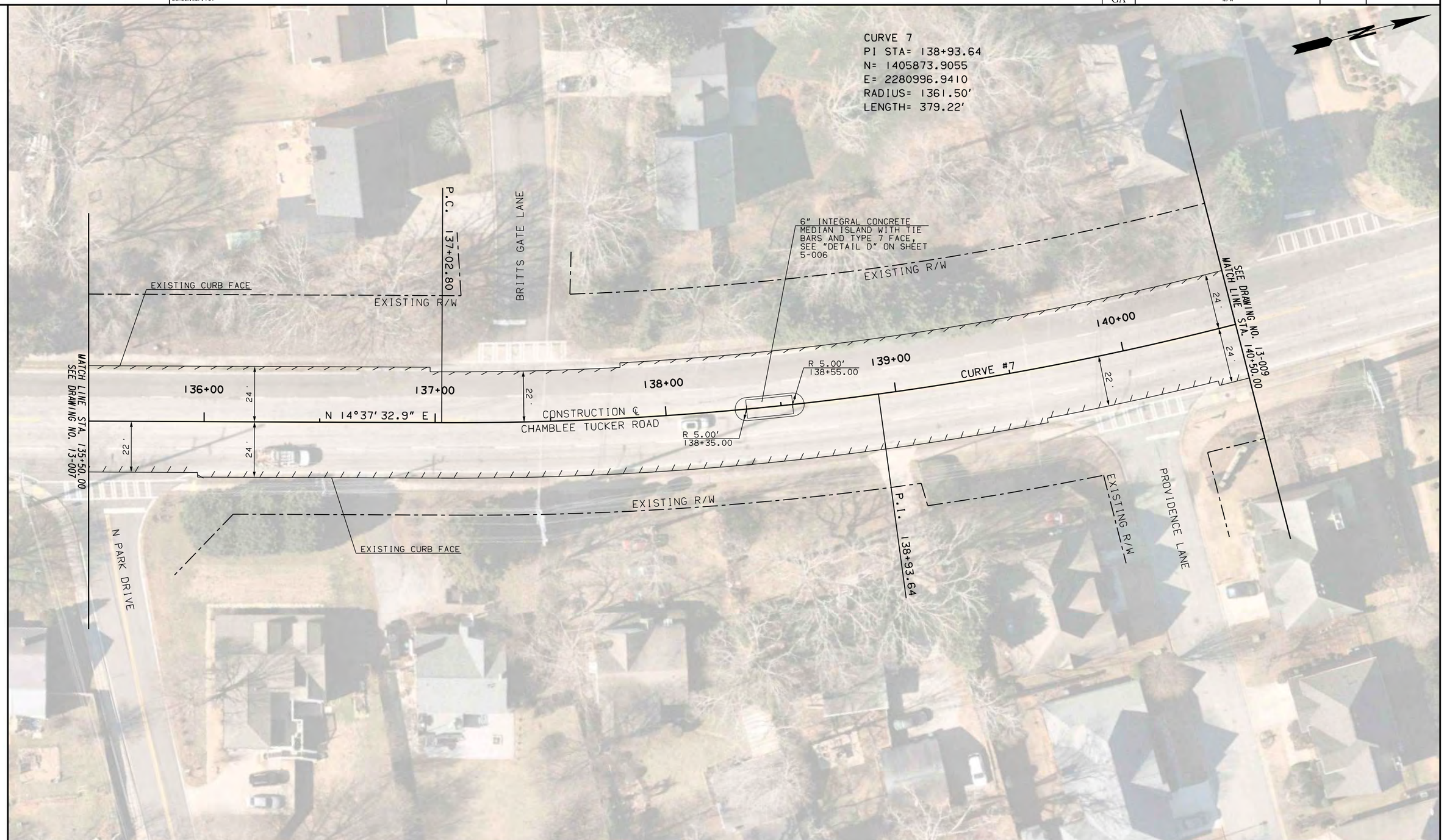
REVISION DATES		

CONSTRUCTION PLAN

CHAMBLEE TUCKER ROAD LANE DIET

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		13-007
CORRECTED:		DATE:		
VERIFIED:		DATE:		

8/6/2021 CONBDR



PROPERTY AND EXISTING R/W LINE

City of Tucker

vhb

SCALE IN FEET
0 20 40 80

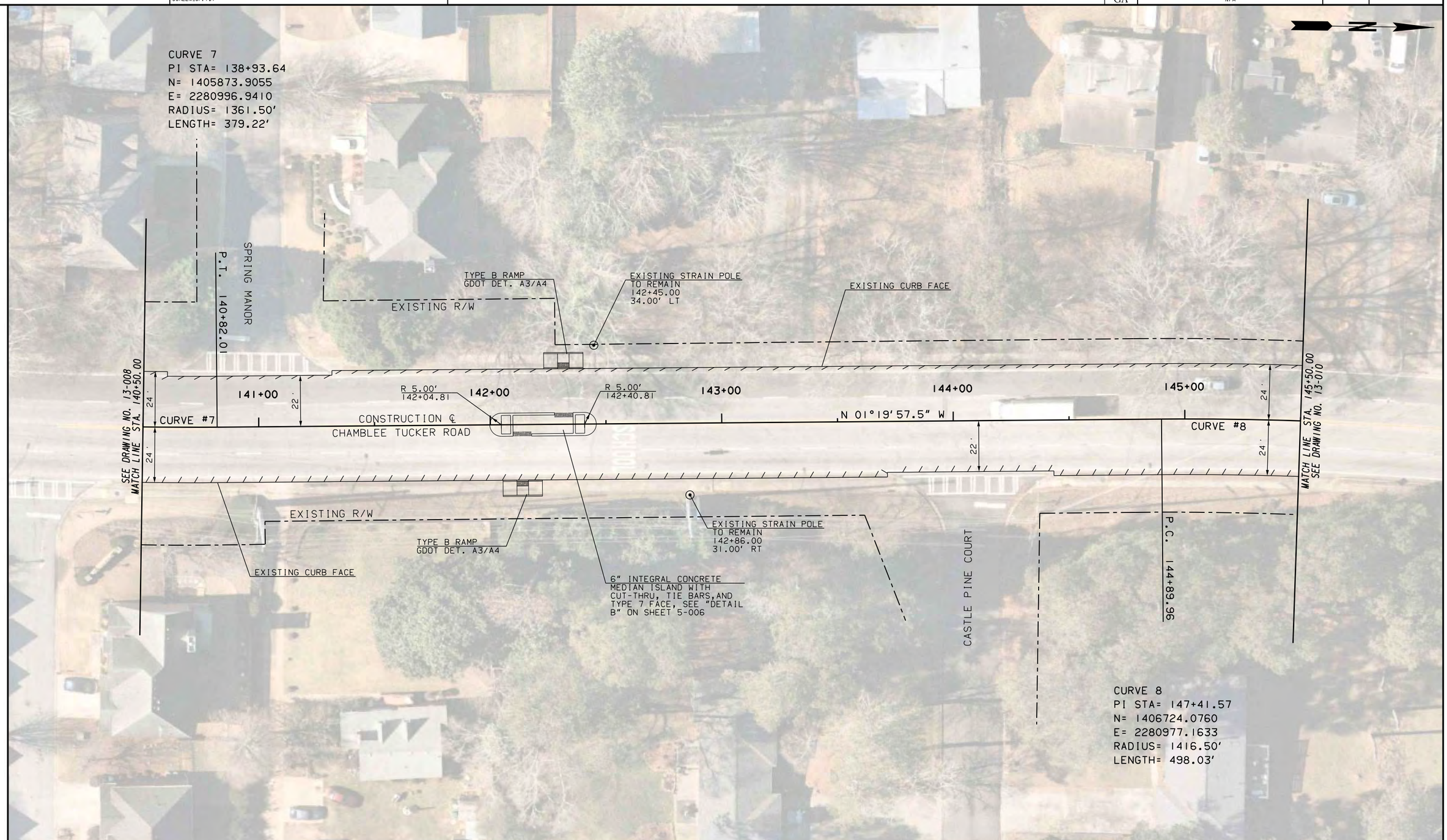
REVISION DATES

CONSTRUCTION PLAN

CHAMBLEE TUCKER ROAD LANE DIET

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	13-008
CORRECTED:	DATE:	
VERIFIED:	DATE:	

8/6/2021 CONBDR



PROPERTY AND EXISTING R/W LINE

City of Tucker

vhb

SCALE IN FEET
0 20 40 80

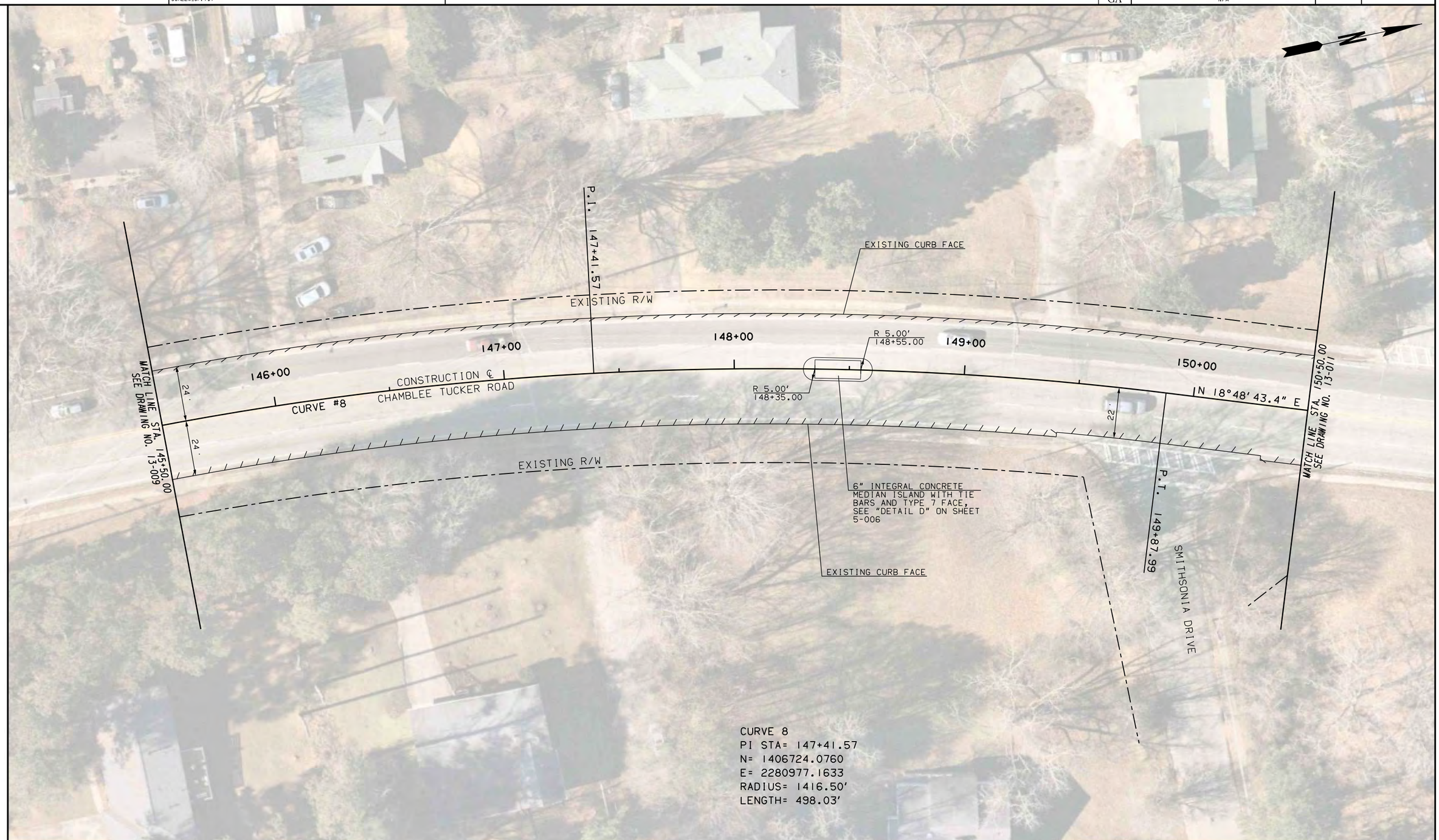
REVISION DATES

CONSTRUCTION PLAN

CHAMBLEE TUCKER ROAD LANE DIET

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	13-009
CORRECTED:	DATE:	
VERIFIED:	DATE:	

8/6/2021 CONBDR



PROPERTY AND EXISTING R/W LINE

City of Tucker

vhb

SCALE IN FEET
0 20 40 80

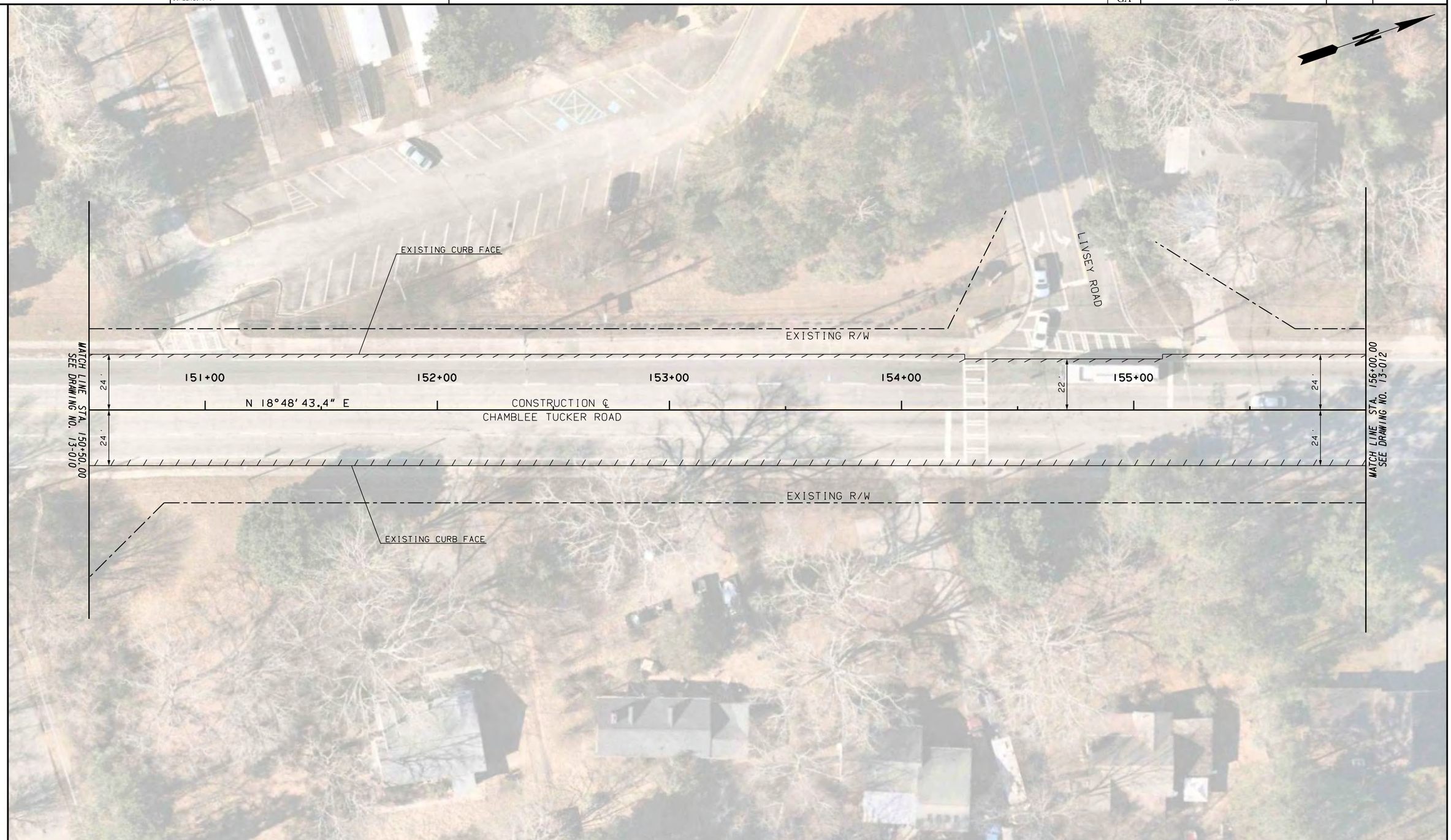
REVISION DATES

CONSTRUCTION PLAN

CHAMBLEE TUCKER ROAD LANE DIET

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		13-010
CORRECTED:		DATE:		
VERIFIED:		DATE:		

8/6/2021 CONBDR



PROPERTY AND EXISTING R/W LINE

City of Tucker

vhb

SCALE IN FEET
0 20 40 80

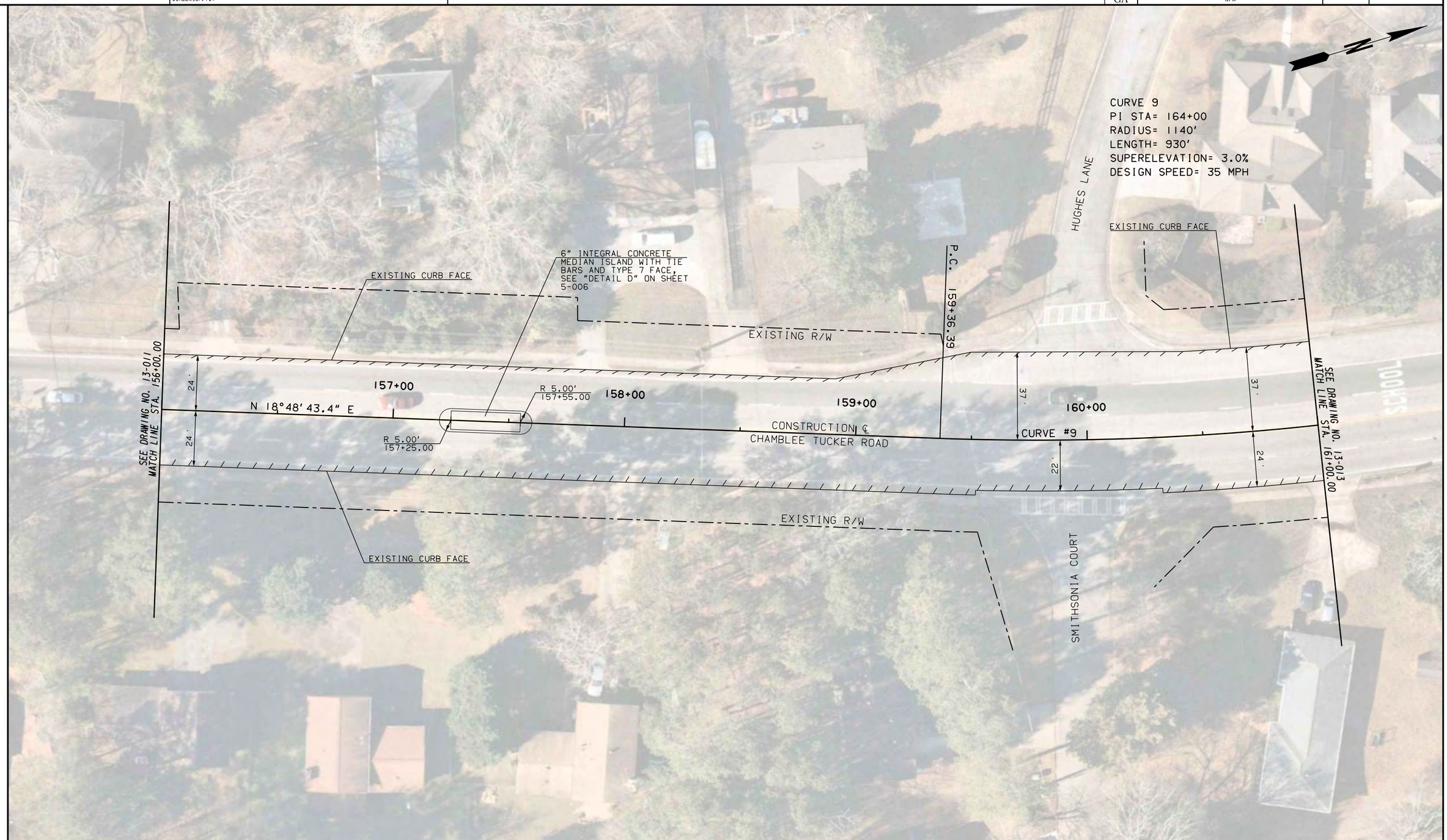
REVISION DATES

CONSTRUCTION PLAN

CHAMBLEE TUCKER ROAD LANE DIET

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		13-011
CORRECTED:		DATE:		
VERIFIED:		DATE:		

8/6/2021 CONBDR



PROPERTY AND EXISTING R/W LINE

City of Tucker

vhb

SCALE IN FEET
0 20 40 80

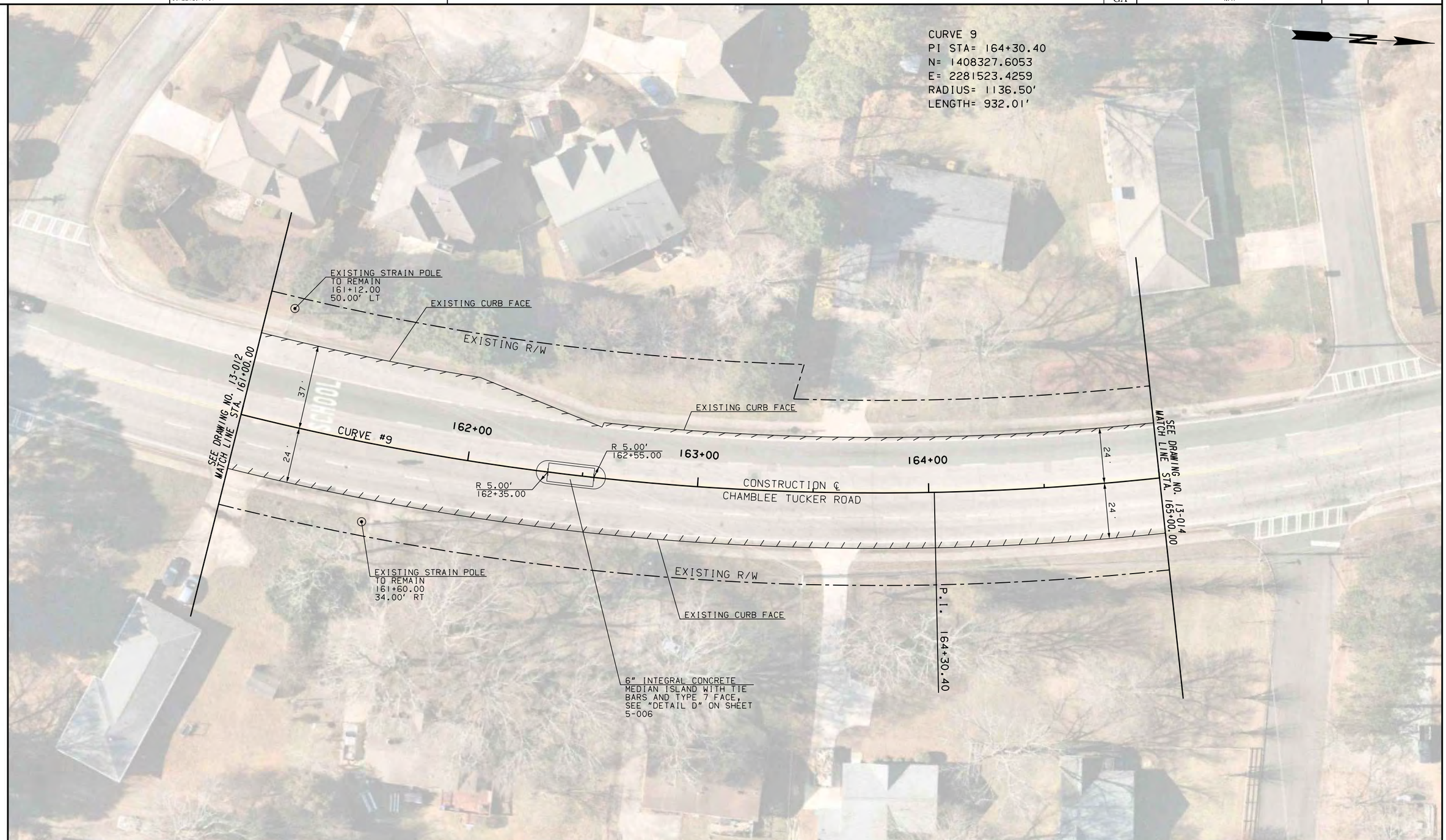
REVISION DATES

CONSTRUCTION PLAN

CHAMBLEE TUCKER ROAD LANE DIET

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		13-012
CORRECTED:		DATE:		
VERIFIED:		DATE:		

8/6/2021 CONBDR



PROPERTY AND EXISTING R/W LINE

City of Tucker

vhb

SCALE IN FEET
0 20 40 80

REVISION DATES		

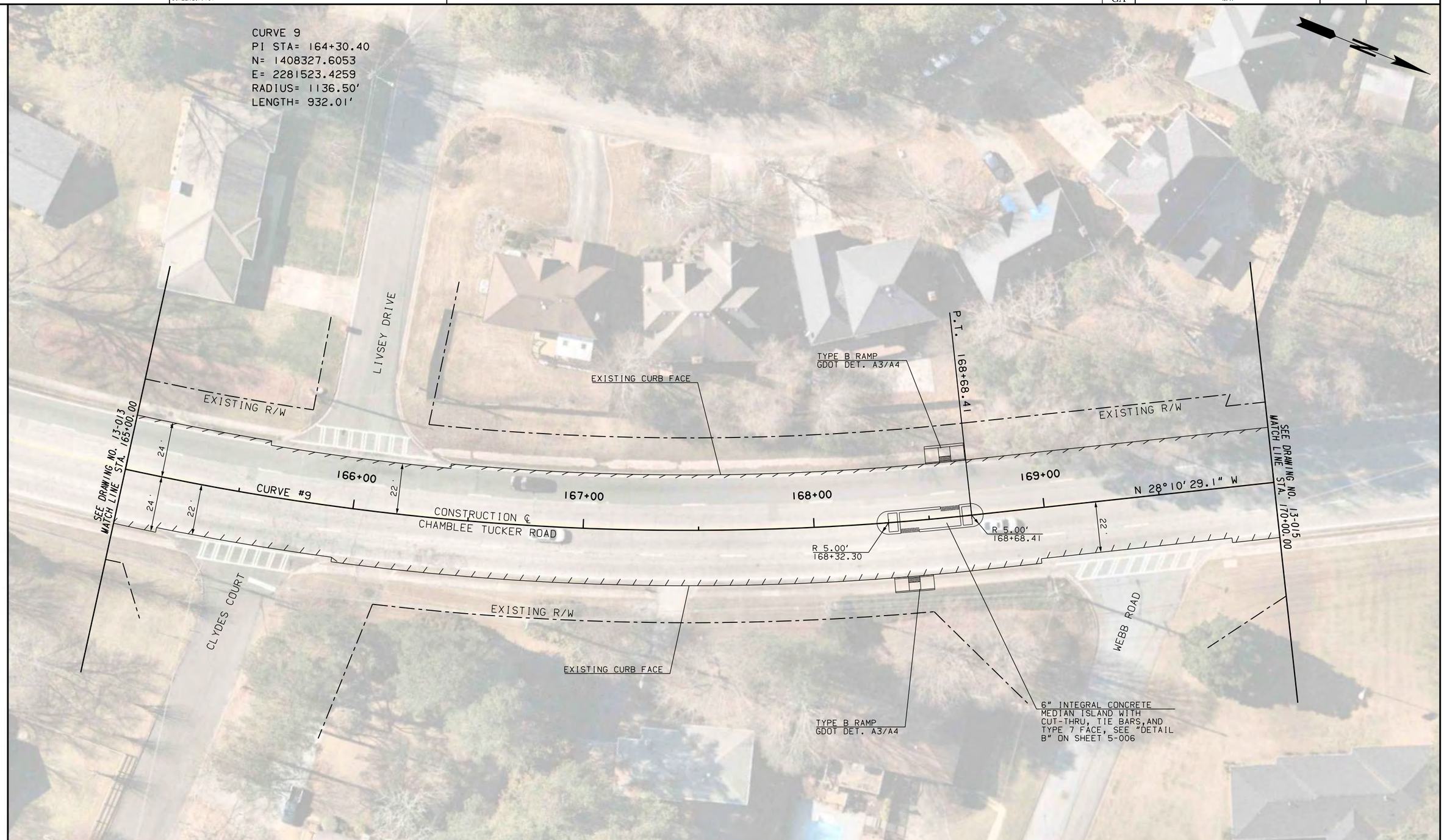
CONSTRUCTION PLAN

CHAMBLEE TUCKER ROAD LANE DIET

CHECKED:		DATE:	
BACKCHECKED:		DATE:	
CORRECTED:		DATE:	
VERIFIED:		DATE:	

DRAWING No.
13-013

8/6/2021 CONBDR



PROPERTY AND EXISTING R/W LINE

City of Tucker

vhb

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SCALE IN FEET
0 20 40 80

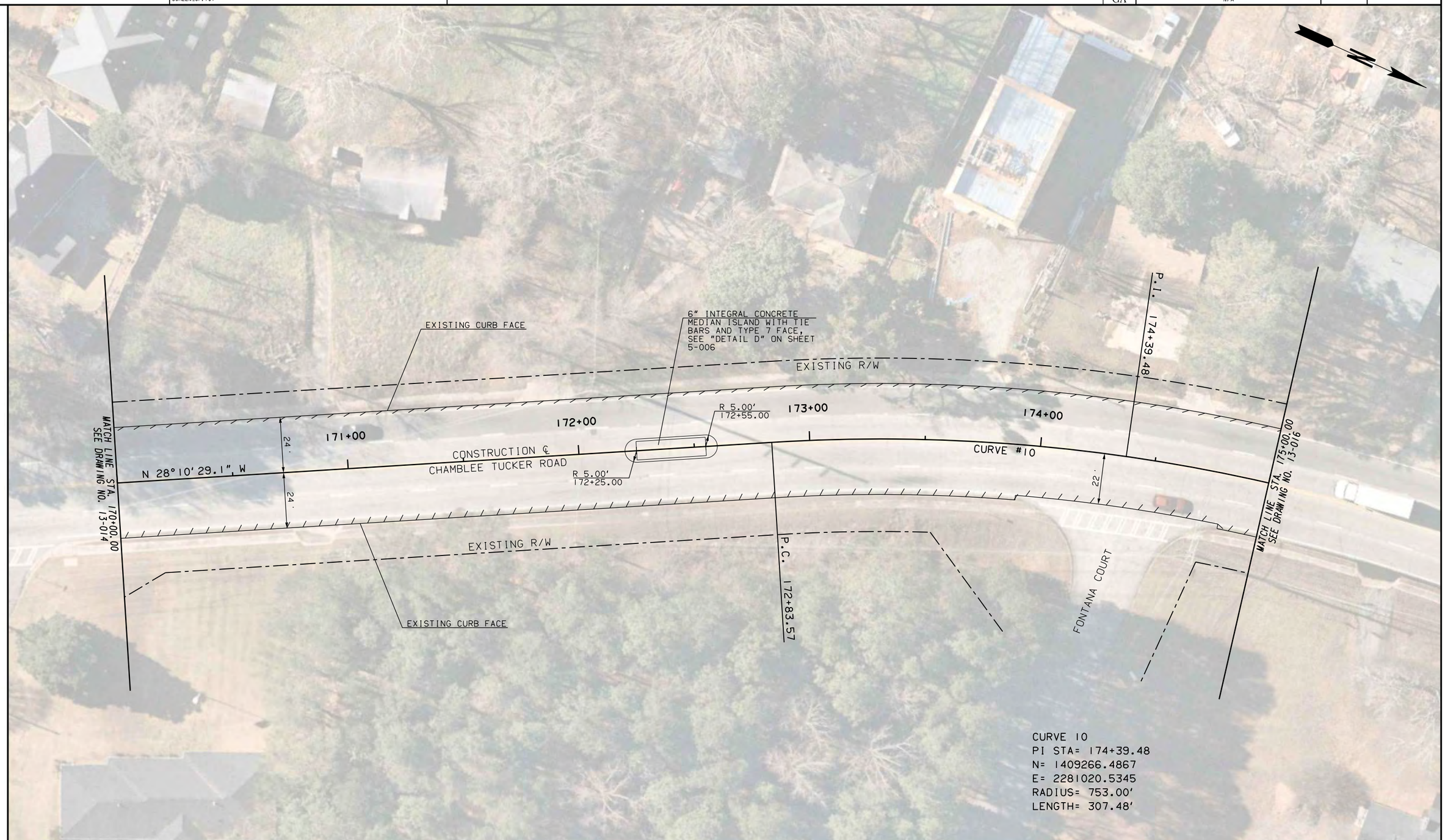
REVISION DATES

CONSTRUCTION PLAN

CHAMBLEE TUCKER ROAD LANE DIET

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	13-014
CORRECTED:	DATE:	
VERIFIED:	DATE:	

8/6/2021 CONBDR



PROPERTY AND EXISTING R/W LINE

City of Tucker

vhb

SCALE IN FEET
0 20 40 80

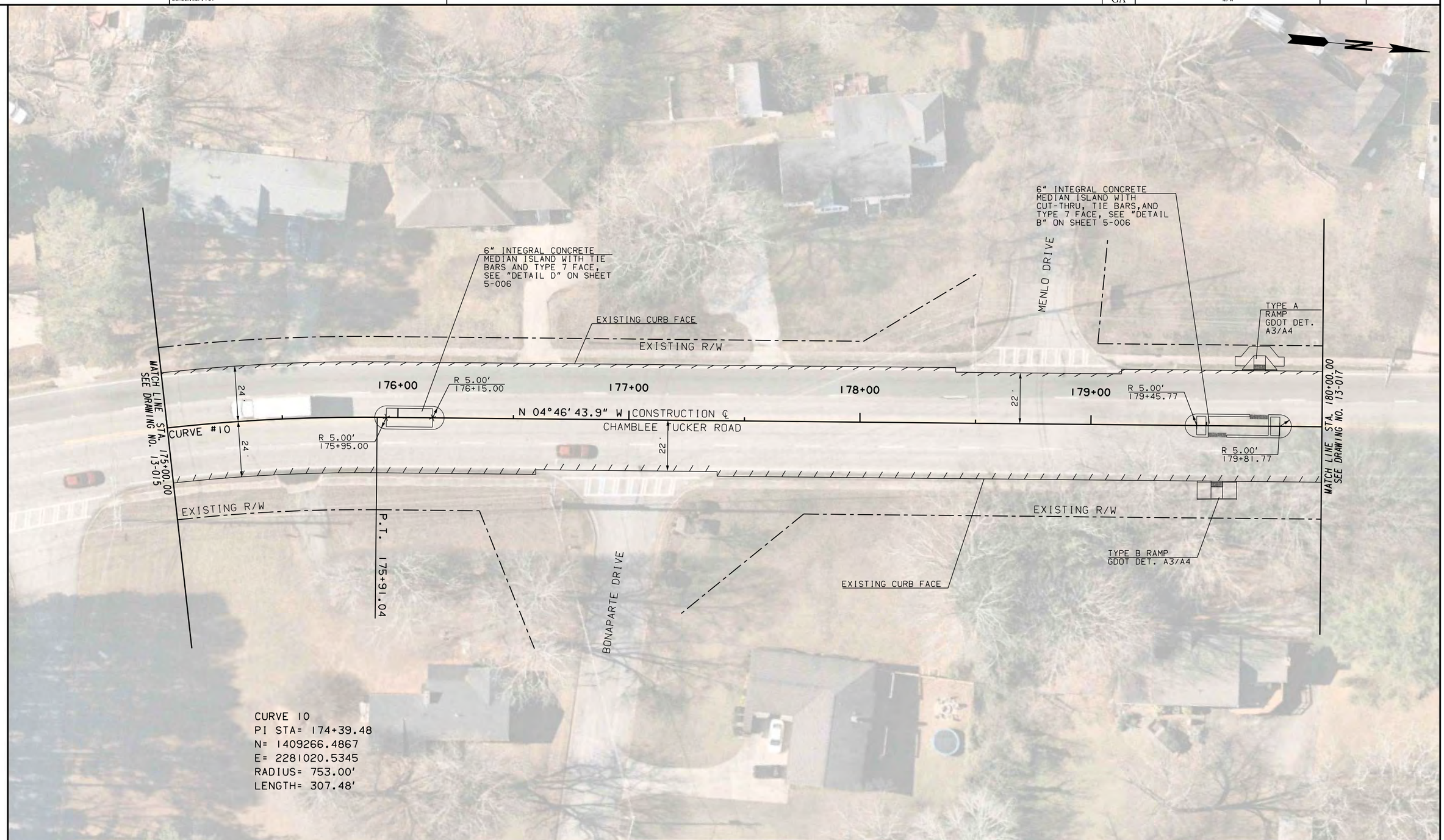
REVISION DATES

CONSTRUCTION PLAN

CHAMBLEE TUCKER ROAD LANE DIET

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	13-015
CORRECTED:	DATE:	
VERIFIED:	DATE:	

8/6/2021 CONBDR



PROPERTY AND EXISTING R/W LINE

City of Tucker

vhb

SCALE IN FEET
0 20 40 80

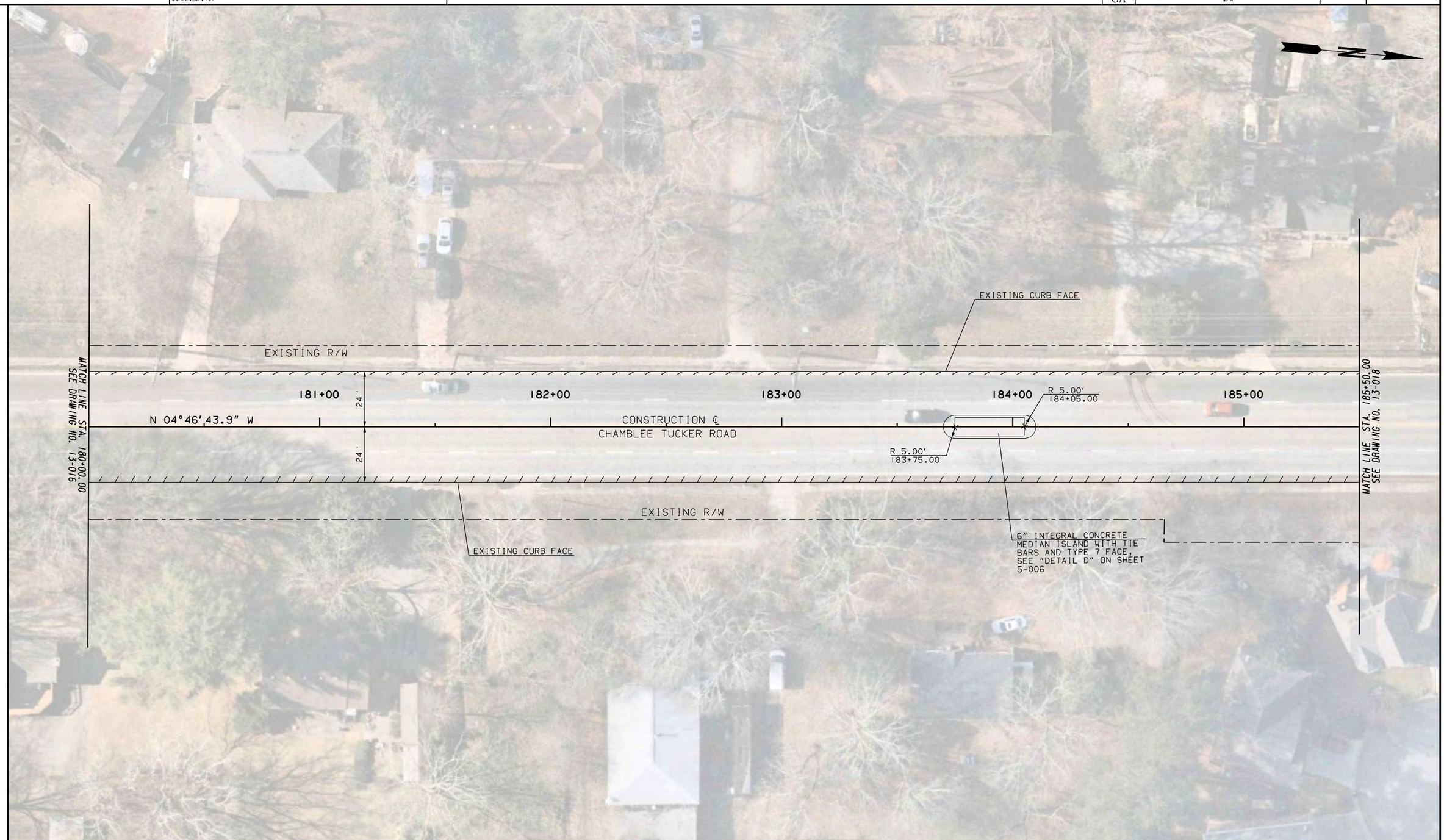
REVISION DATES

CONSTRUCTION PLAN

CHAMBLEE TUCKER ROAD LANE DIET

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		13-016
CORRECTED:		DATE:		
VERIFIED:		DATE:		

8/6/2021 CONBDR



PROPERTY AND EXISTING R/W LINE

City of Tucker

vhb

SCALE IN FEET
0 20 40 80

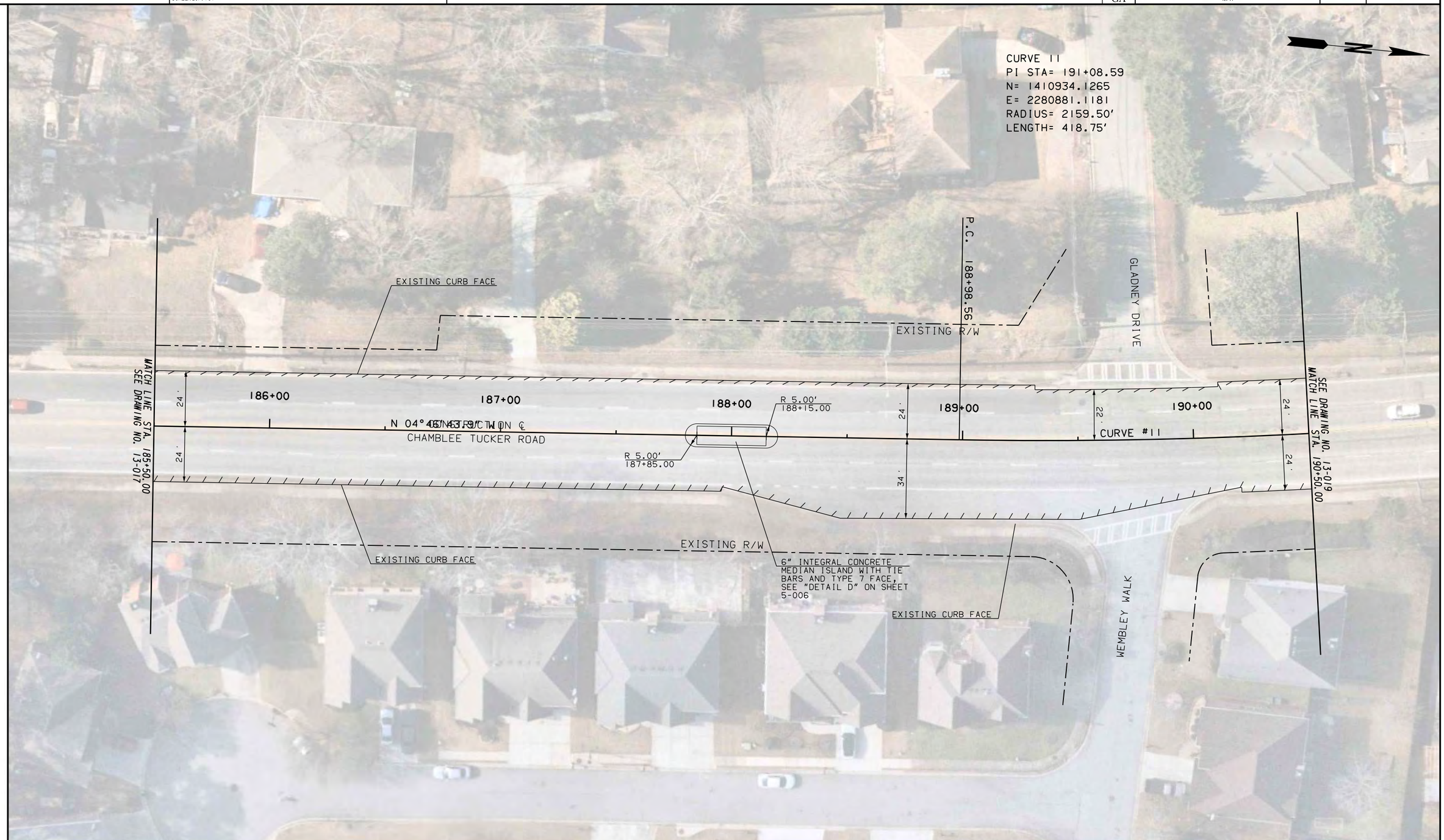
REVISION DATES

CONSTRUCTION PLAN

CHAMBLEE TUCKER ROAD LANE DIET

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		13-017
CORRECTED:		DATE:		
VERIFIED:		DATE:		

8/6/2021 CONBDR



PROPERTY AND EXISTING R/W LINE

City of Tucker

vhb

SCALE IN FEET
0 20 40 80

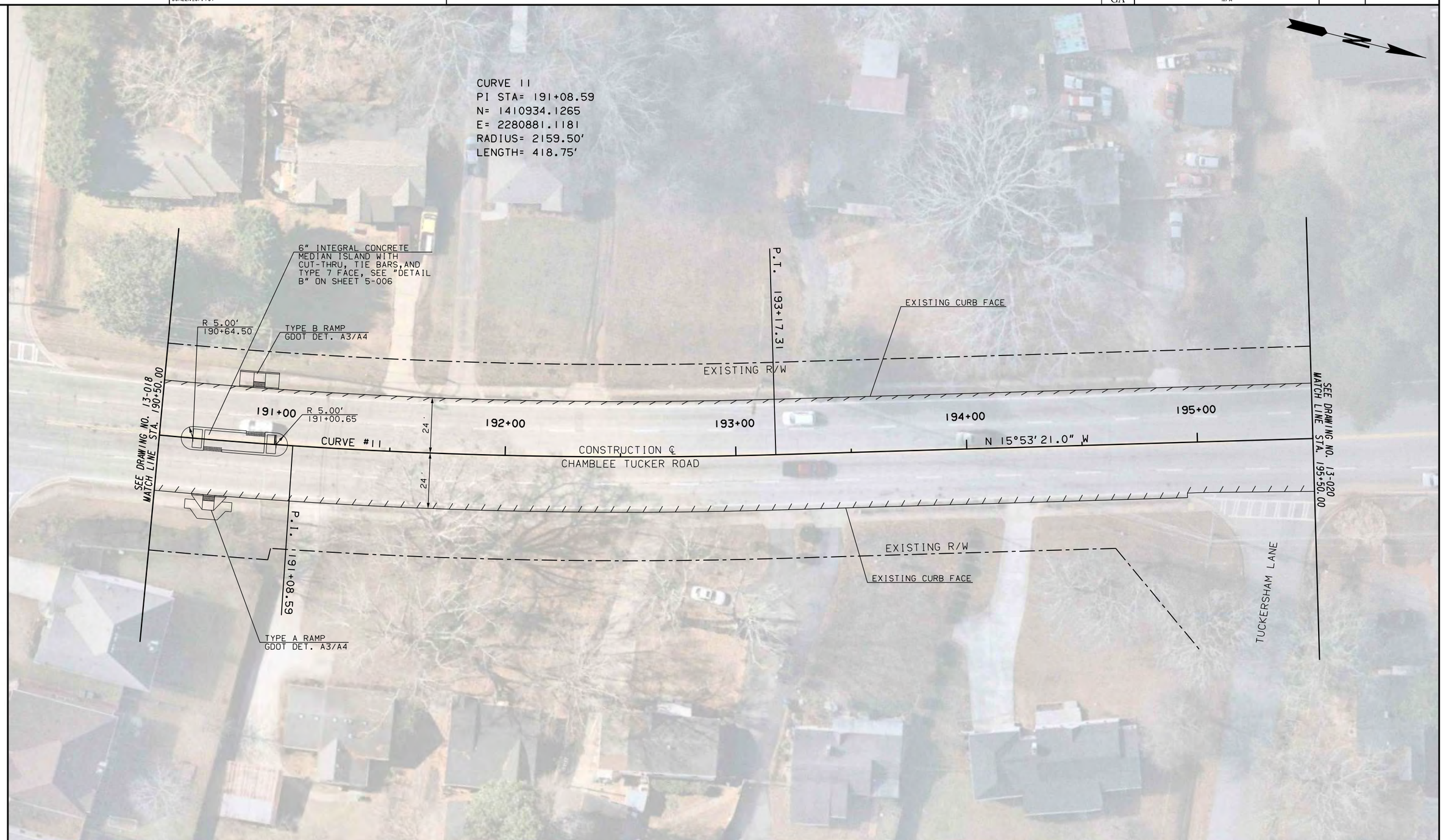
REVISION DATES

CONSTRUCTION PLAN

CHAMBLEE TUCKER ROAD LANE DIET

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		13-018
CORRECTED:		DATE:		
VERIFIED:		DATE:		

8/6/2021 CONBDR



PROPERTY AND EXISTING R/W LINE

City of Tucker

vhb

SCALE IN FEET
0 20 40 80

REVISION DATES

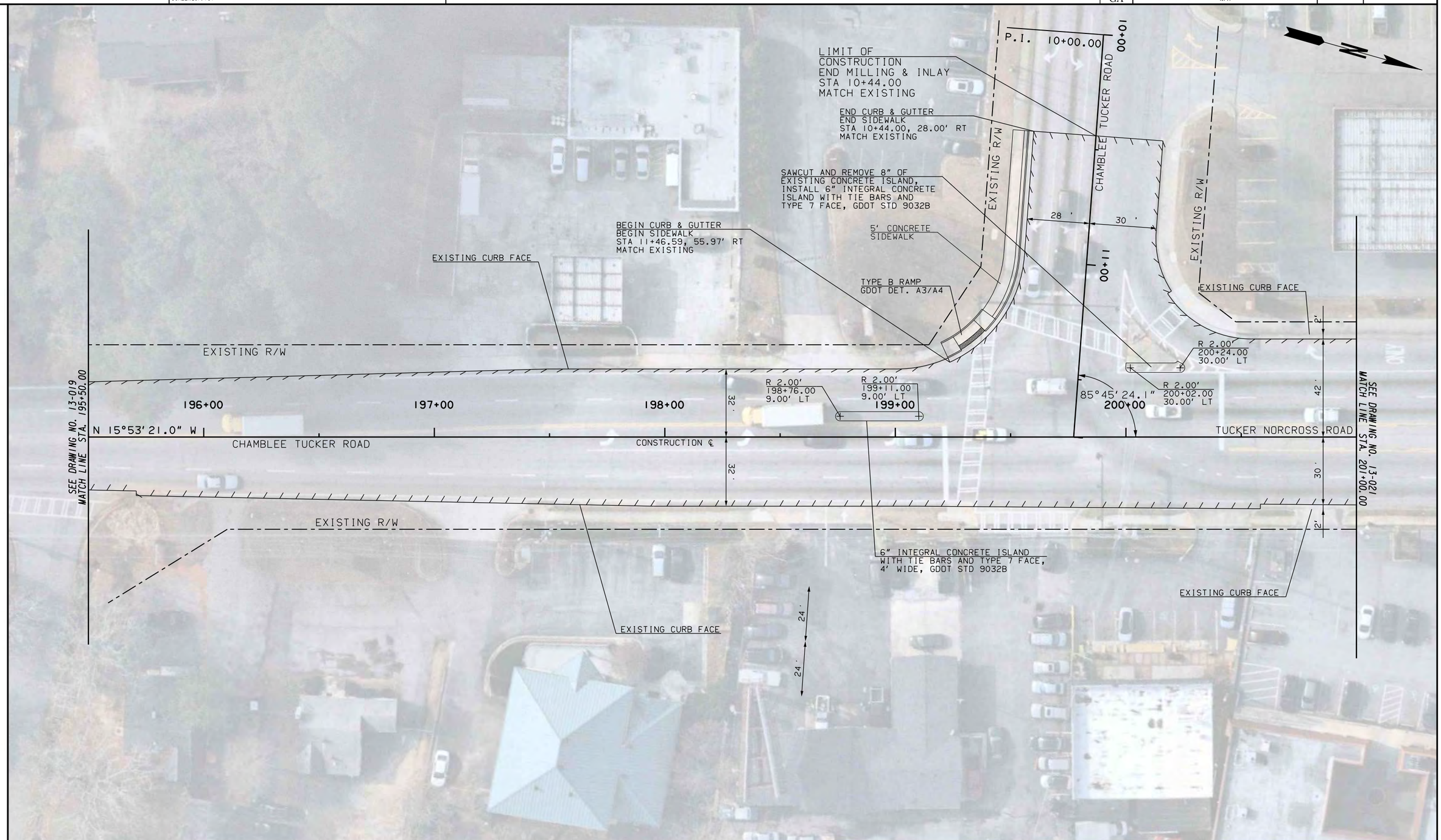
CONSTRUCTION PLAN

CHAMBLEE TUCKER ROAD LANE DIET

CHECKED:		DATE:	
BACKCHECKED:		DATE:	
CORRECTED:		DATE:	
VERIFIED:		DATE:	

DRAWING No. 13-019

8/6/2021 CONBDR



PROPERTY AND EXISTING R/W LINE

City of Tucker

vhb

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SCALE IN FEET
0 20 40 80

REVISION DATES

CONSTRUCTION PLAN

CHAMBLEE TUCKER ROAD LANE DIET

CHECKED:		DATE:	
BACKCHECKED:		DATE:	
CORRECTED:		DATE:	
VERIFIED:		DATE:	

DRAWING No. 13-020

8/6/2021 CONBDR

PROPERTY AND EXISTING R/W LINE

City of Tucker

vhb

SCALE IN FEET
0 20 40 80

REVISION DATES

CONSTRUCTION PLAN

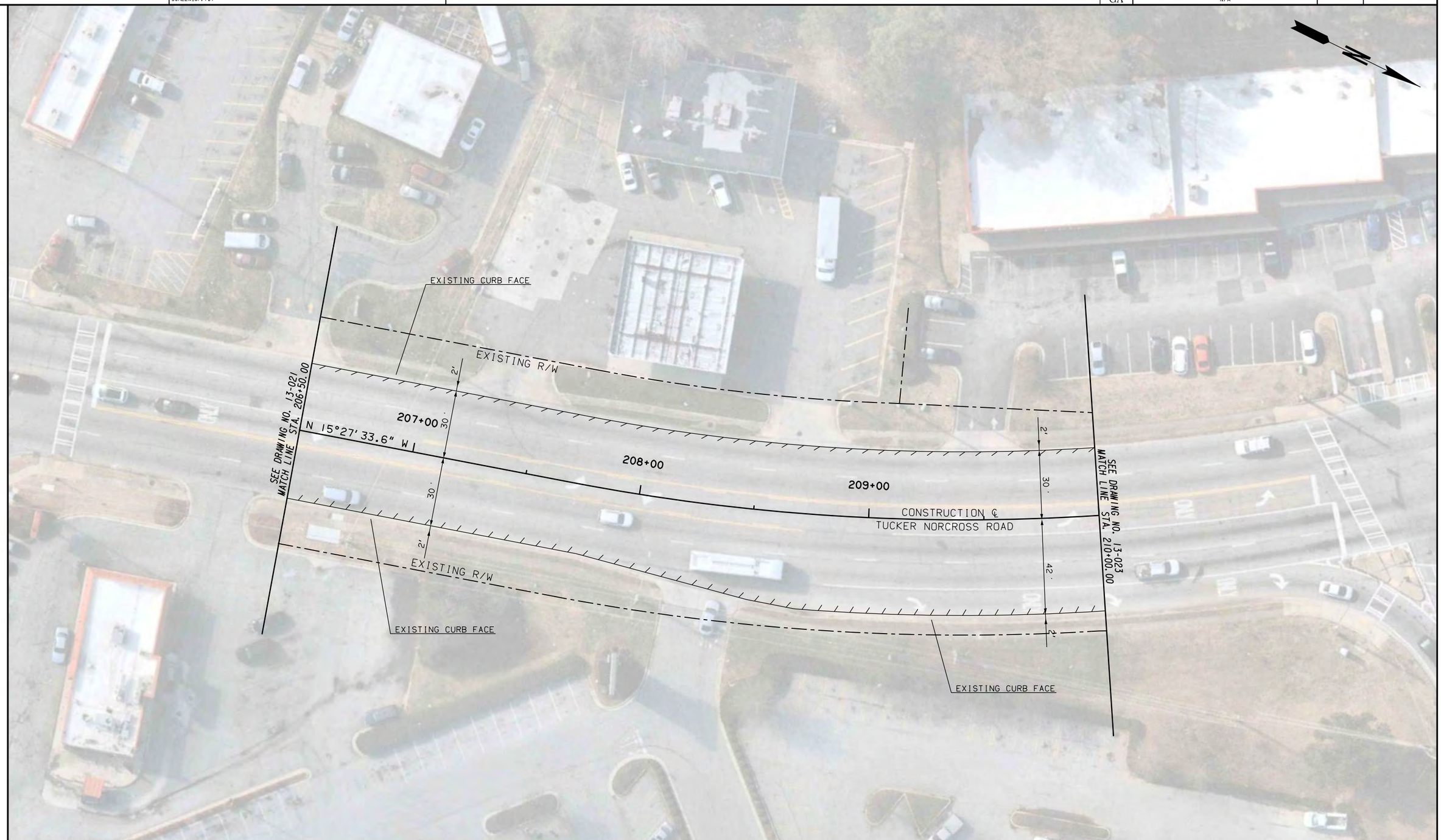
CHAMBLEE TUCKER ROAD LANE DIET

CHECKED:		DATE:	
BACKCHECKED:		DATE:	
CORRECTED:		DATE:	
VERIFIED:		DATE:	

DRAWING No.
13-021

8/6/2021 CONBDR

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	N/A		



PROPERTY AND EXISTING R/W LINE

City of Tucker

vhb

SCALE IN FEET
0 20 40 80

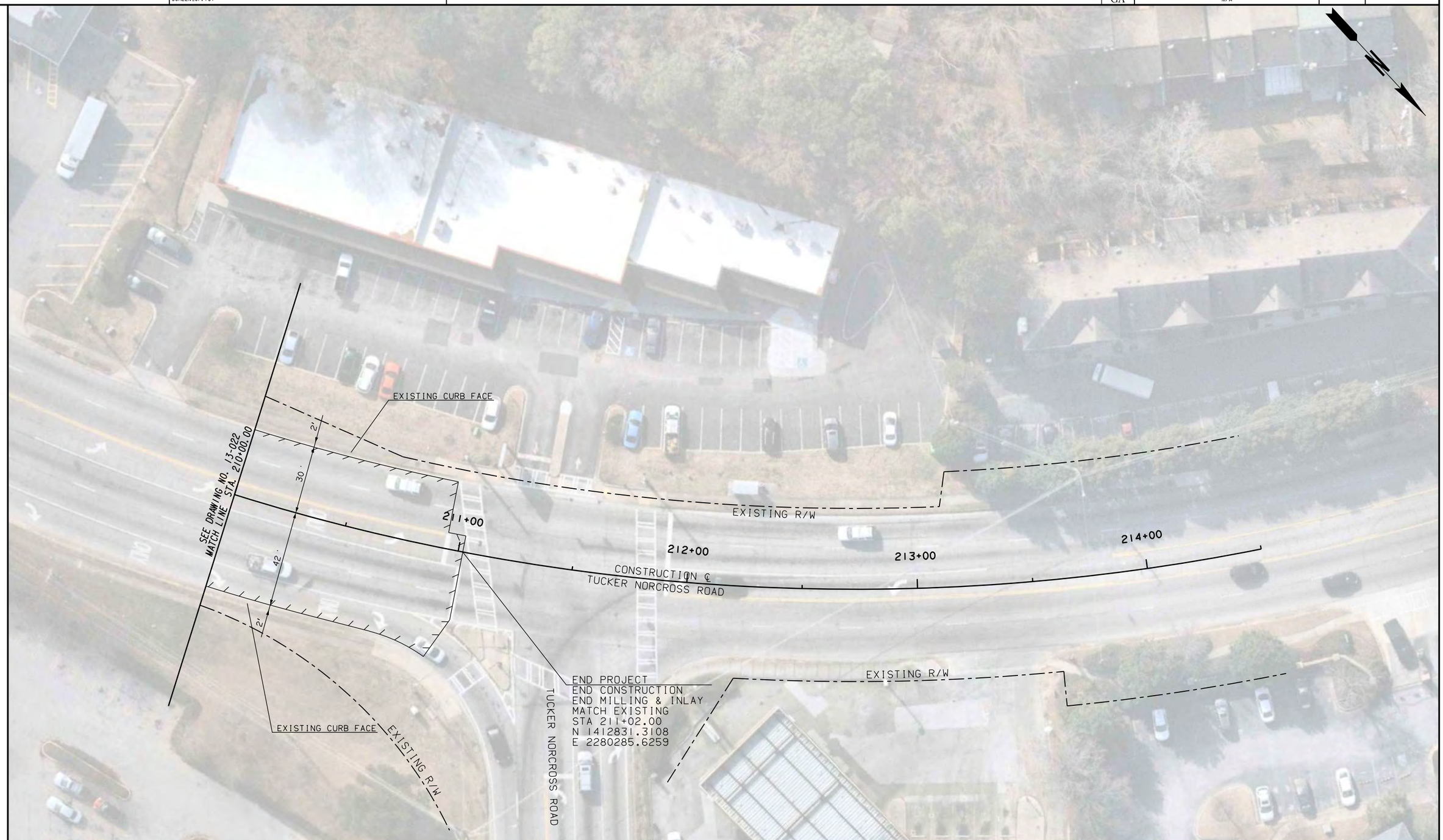
REVISION DATES		

CONSTRUCTION PLAN

CHAMBLEE TUCKER ROAD LANE DIET

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		13-022
CORRECTED:		DATE:		
VERIFIED:		DATE:		

8/6/2021 CONBDR



PROPERTY AND EXISTING R/W LINE

City of Tucker

vhb

SCALE IN FEET
0 20 40 80

REVISION DATES

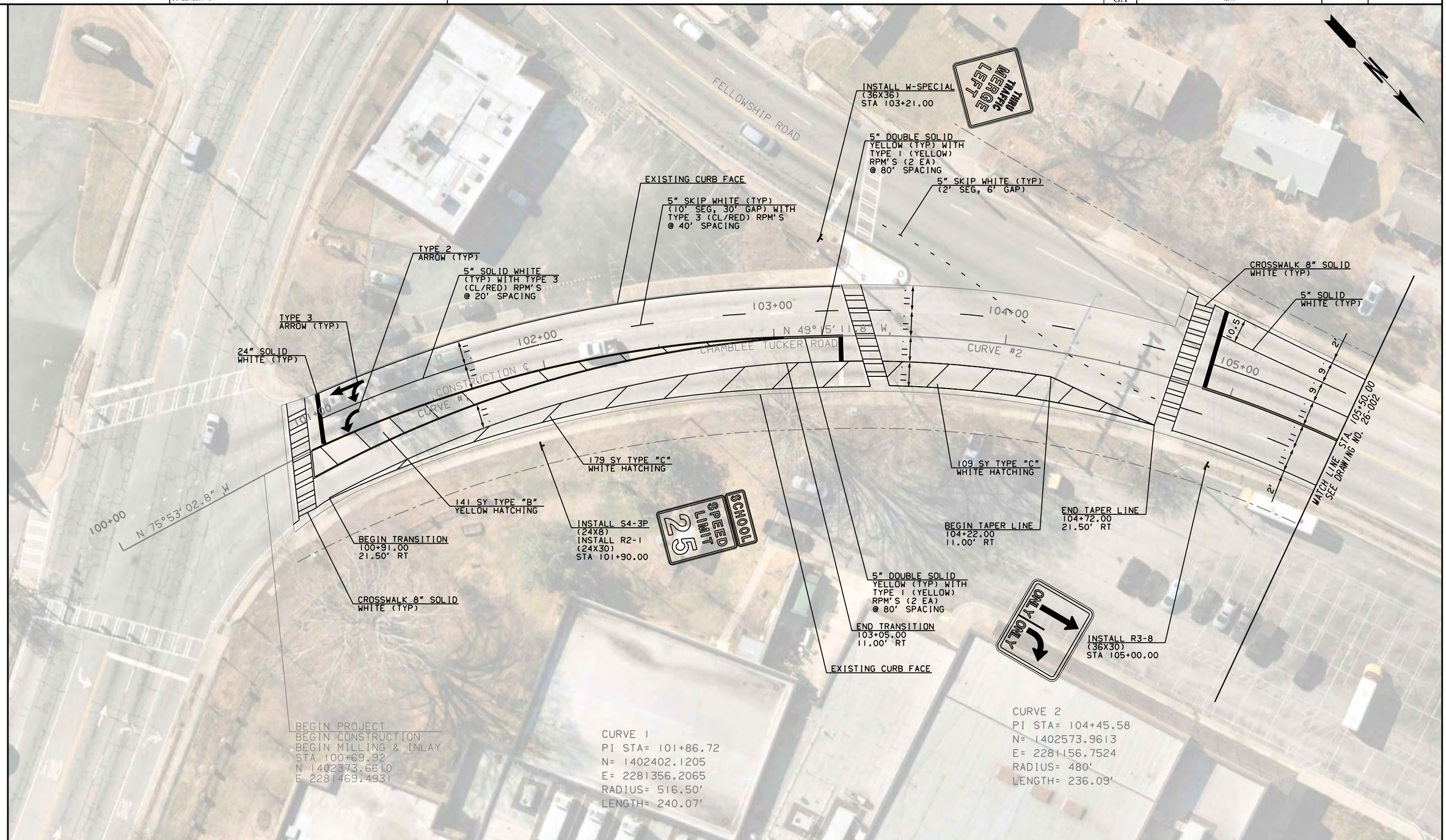
CONSTRUCTION PLAN

CHAMBLEE TUCKER ROAD LANE DIET

CHECKED:		DATE:	
BACKCHECKED:		DATE:	
CORRECTED:		DATE:	
VERIFIED:		DATE:	

DRAWING No. 13-023

8/6/2021 CONBDR



PROPERTY AND EXISTING R/W LINE

City of Tucker

vhb

SCALE IN FEET
0 20 40 80

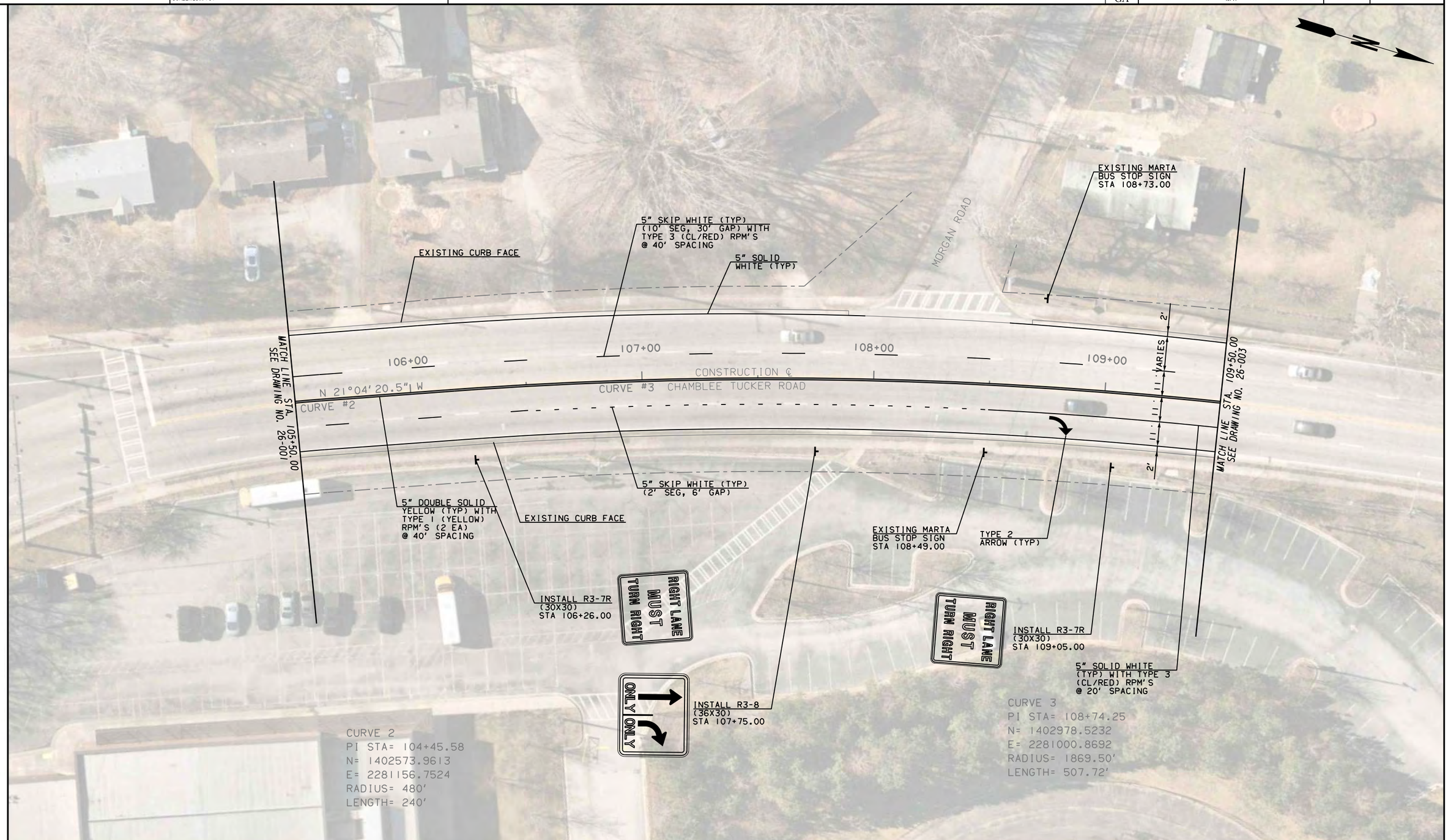
REVISION DATES

SIGNING AND MARKING PLANS

CHAMBLEE TUCKER ROAD LANE DIET

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	26-001
CORRECTED:	DATE:	
VERIFIED:	DATE:	

8/6/2021 CONBDR



PROPERTY AND EXISTING R/W LINE

City of Tucker

vhb

SCALE IN FEET
0 20 40 80

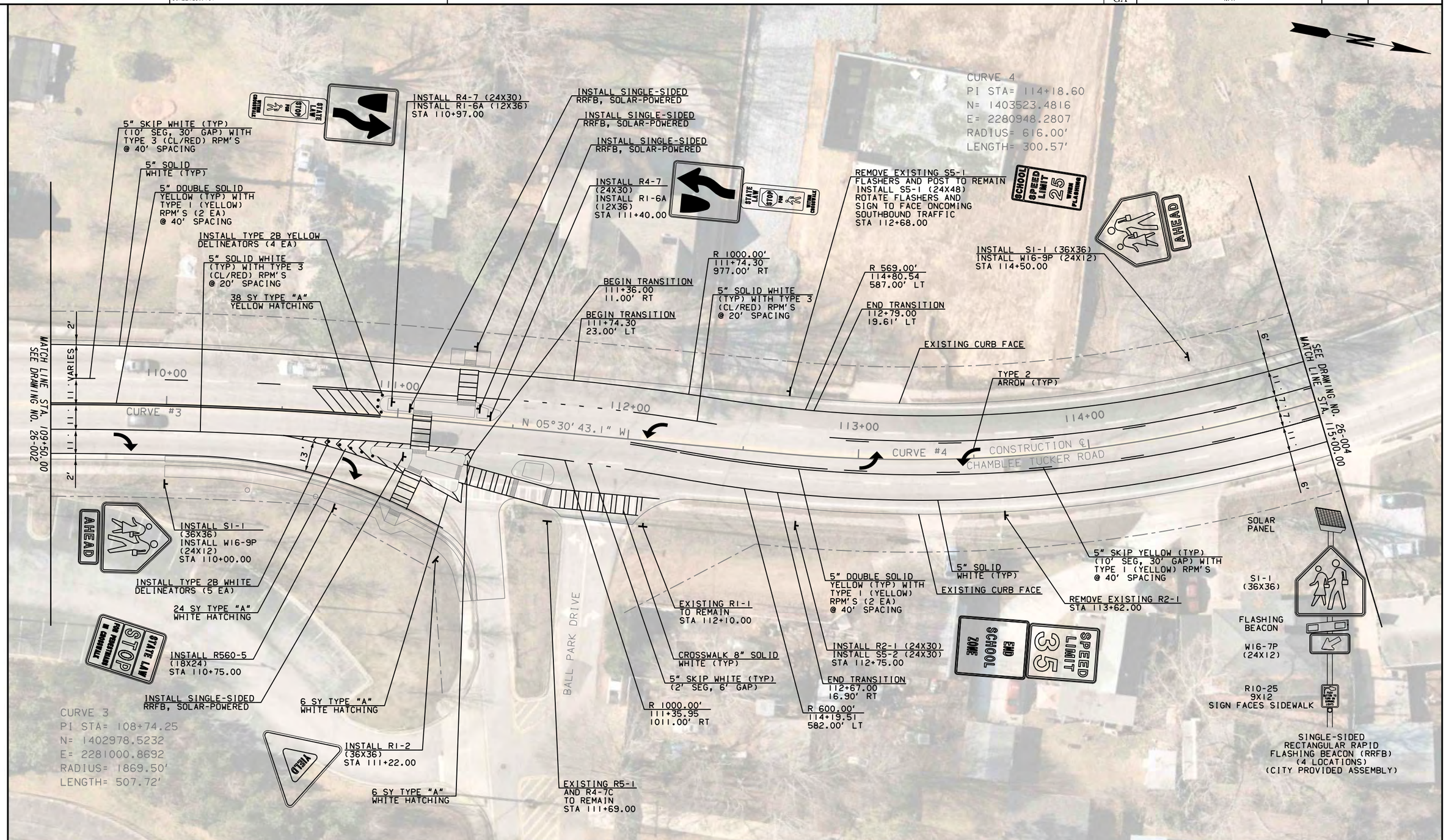
REVISION DATES

SIGNING AND MARKING PLANS

CHAMBLEE TUCKER ROAD LANE DIET

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	26-002
CORRECTED:	DATE:	
VERIFIED:	DATE:	

8/6/2021 CONBDR



PROPERTY AND EXISTING R/W LINE

City of Tucker

vhb

SCALE IN FEET
0 20 40 80

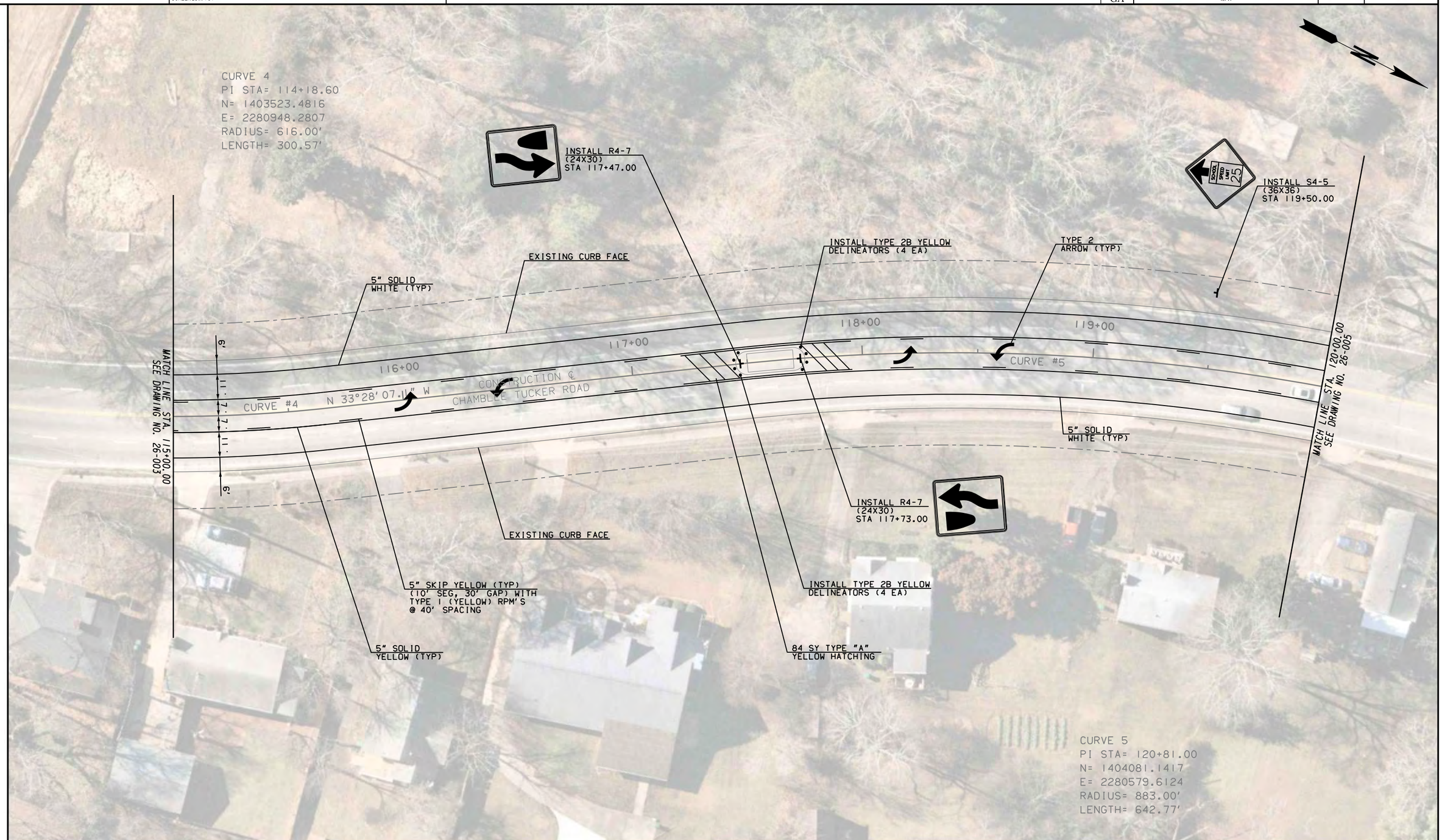
REVISION DATES

SIGNING AND MARKING PLANS

CHAMBLEE TUCKER ROAD LANE DIET

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	26-003
CORRECTED:	DATE:	
VERIFIED:	DATE:	

8/6/2021 CONBDR



PROPERTY AND EXISTING R/W LINE

City of Tucker

vhb

SCALE IN FEET
0 20 40 80

REVISION DATES

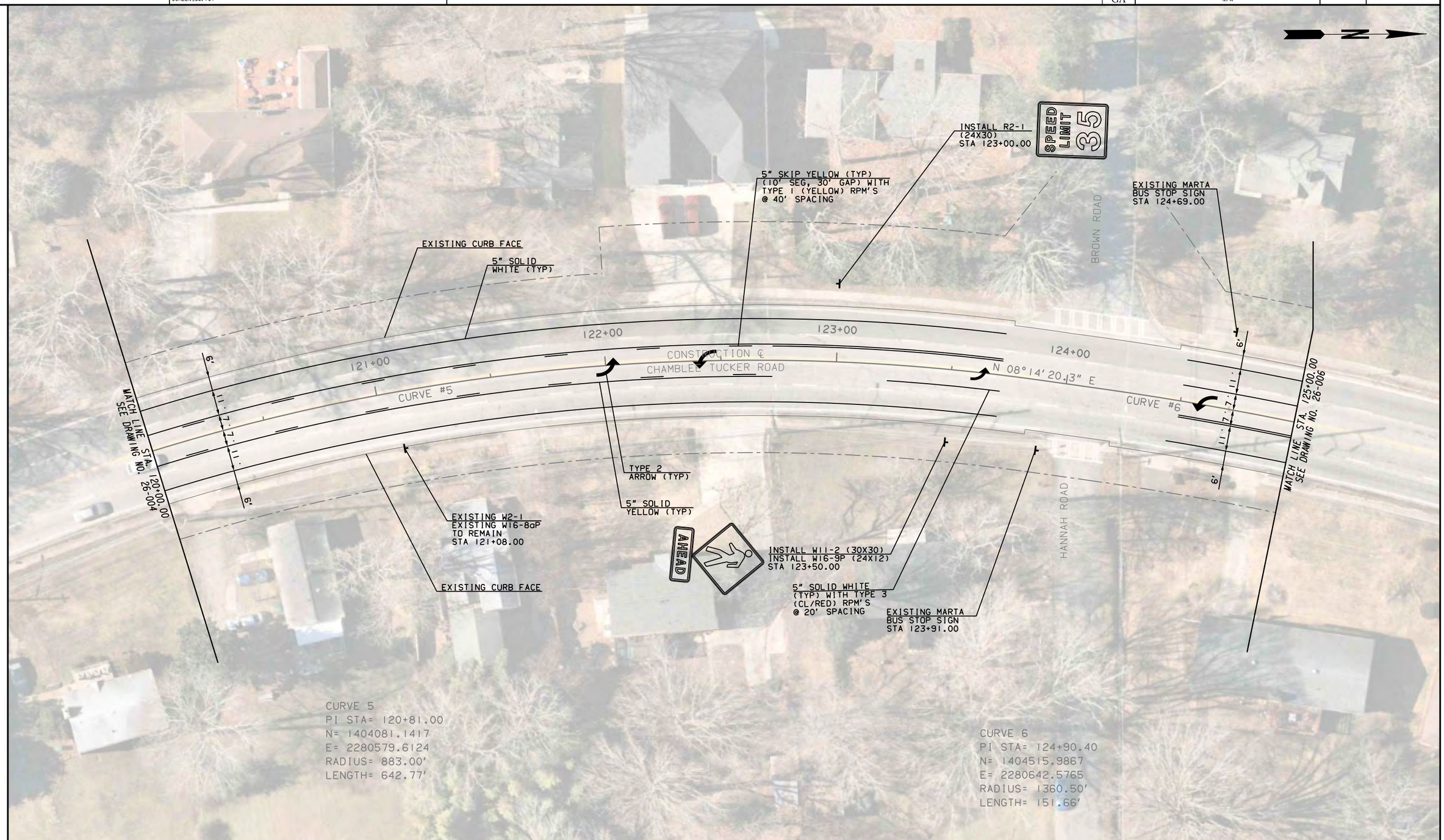
SIGNING AND MARKING PLANS

CHAMBLEE TUCKER ROAD LANE DIET

CHECKED:		DATE:	
BACKCHECKED:		DATE:	
CORRECTED:		DATE:	
VERIFIED:		DATE:	

DRAWING No. 26-004

8/6/2021 CONBDR



PROPERTY AND EXISTING R/W LINE

City of Tucker

vhb

SCALE IN FEET
0 20 40 80

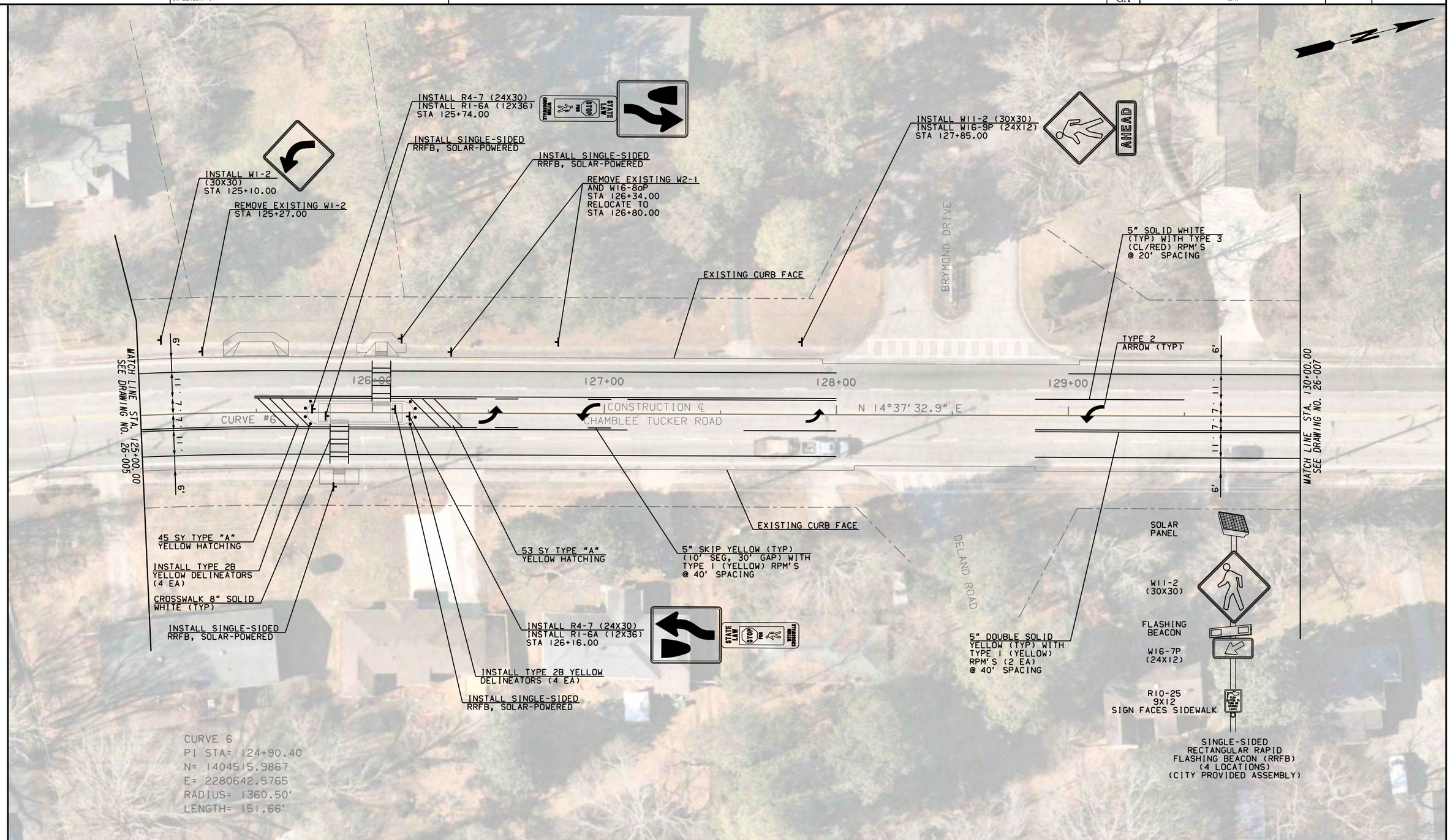
REVISION DATES

SIGNING AND MARKING PLANS

CHAMBLEE TUCKER ROAD LANE DIET

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	26-005
CORRECTED:	DATE:	
VERIFIED:	DATE:	

8/6/2021 CONBDR



PROPERTY AND EXISTING R/W LINE

City of Tucker

vhb

SCALE IN FEET
0 20 40 80

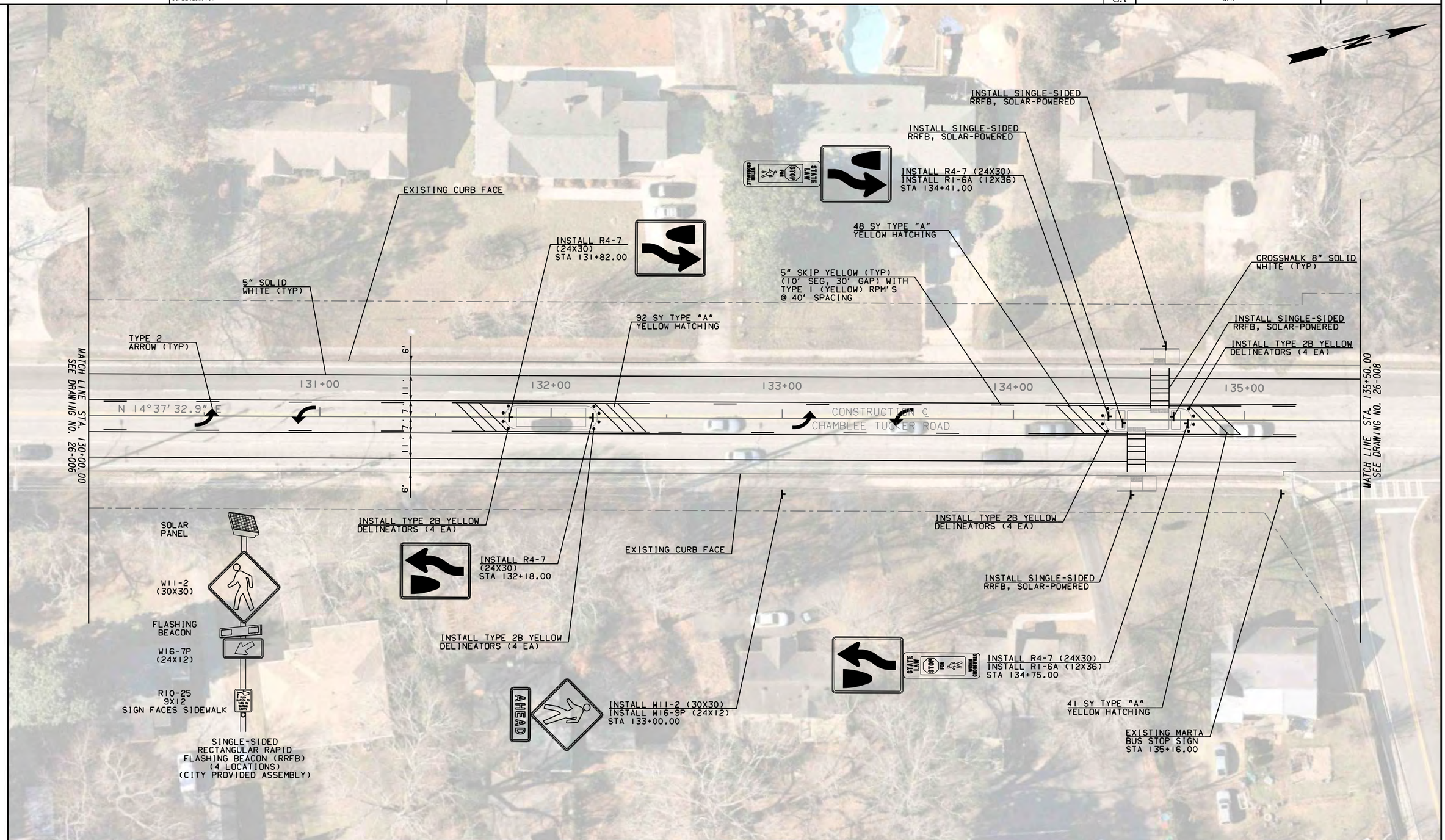
REVISION DATES

SIGNING AND MARKING PLANS

CHAMBLEE TUCKER ROAD LANE DIET

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	26-006
CORRECTED:	DATE:	
VERIFIED:	DATE:	

8/6/2021 CONBDR



PROPERTY AND EXISTING R/W LINE —— - ℄ - ——

City of Tucker

vhb

SCALE IN FEET
0 20 40 80

REVISION DATES

SIGNING AND MARKING PLANS

CHAMBLEE TUCKER ROAD LANE DIET

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		26-007
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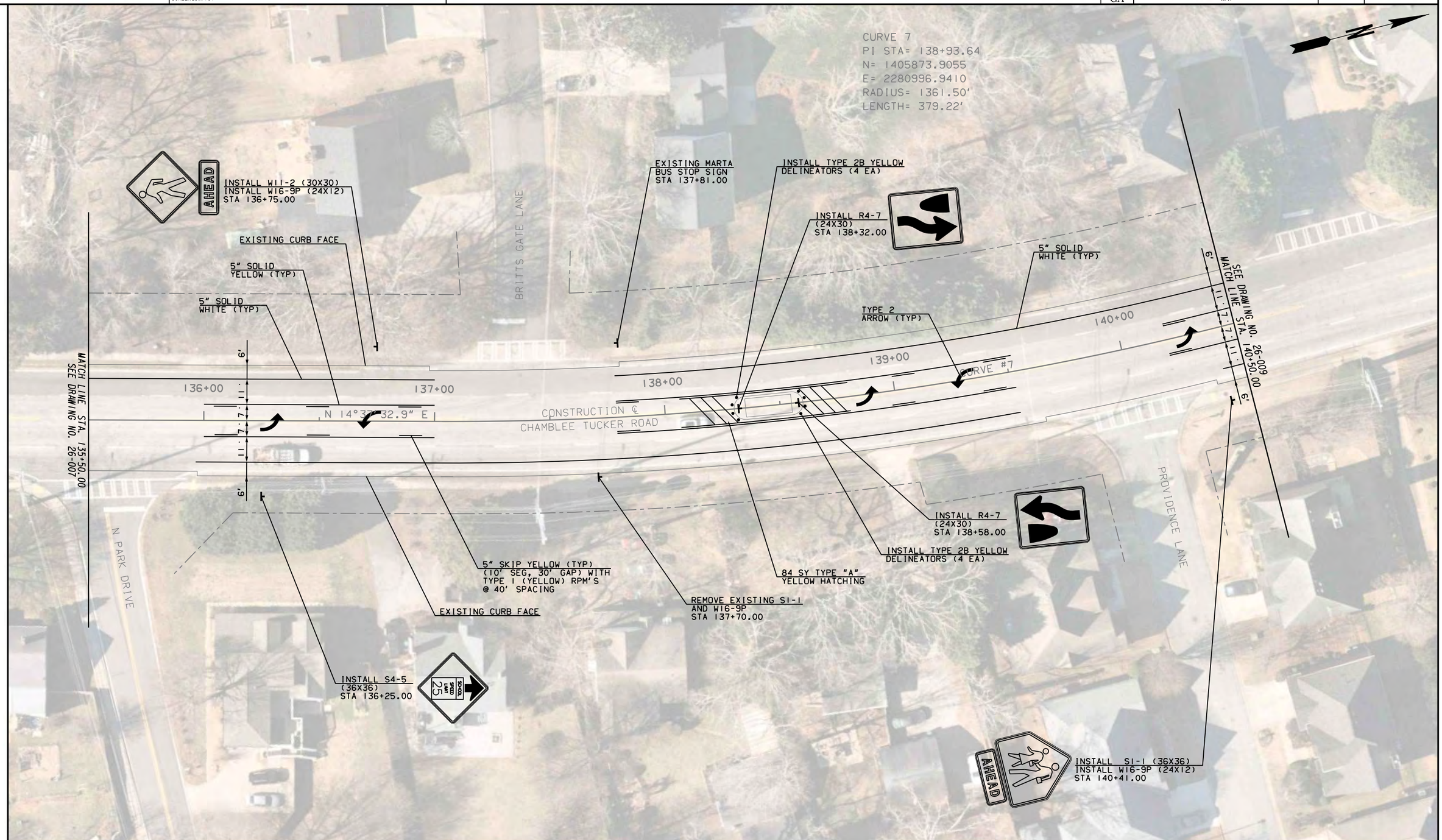
VERIFIED:		DATE:		

8/6/2021 CONBDR



PROPERTY AND EXISTING R/W LINE

City of Tucker

vhb

SCALE IN FEET
0 20 40 80

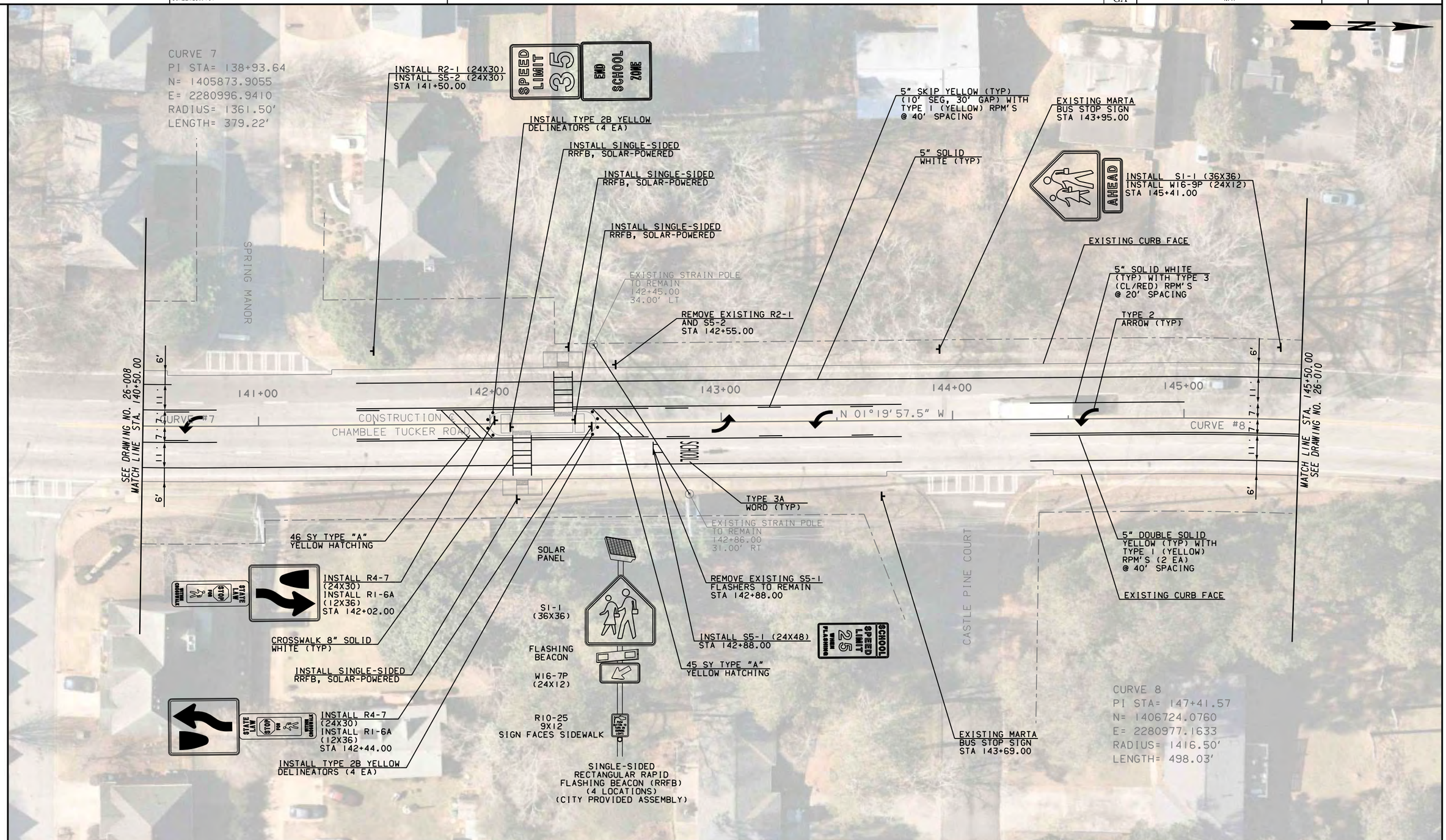
REVISION DATES		

SIGNING AND MARKING PLANS

CHAMBLEE TUCKER ROAD LANE DIET

				DRAWING No.
CHECKED:		DATE:		26-008
BACKCHECKED:		DATE:		
CORRECTED:		DATE:		
VERIFIED:		DATE:		

8/6/2021 CONBDR



PROPERTY AND EXISTING R/W LINE

City of Tucker

vhb

SCALE IN FEET
0 20 40 80

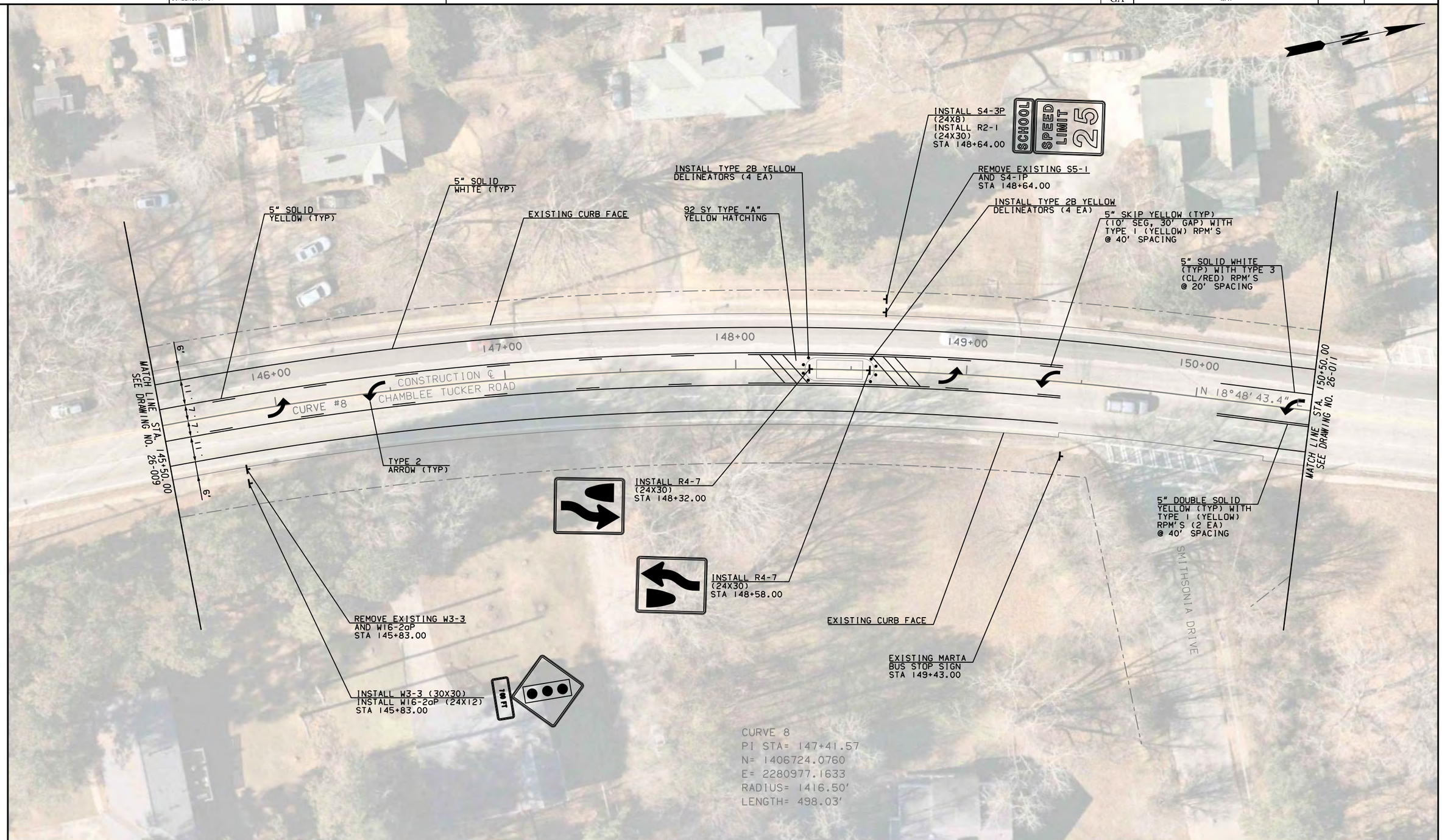
REVISION DATES

SIGNING AND MARKING PLANS

CHAMBLEE TUCKER ROAD LANE DIET

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	26-009
CORRECTED:	DATE:	
VERIFIED:	DATE:	

8/6/2021 CONBDR



PROPERTY AND EXISTING R/W LINE

City of Tucker

vhb

SCALE IN FEET
0 20 40 80

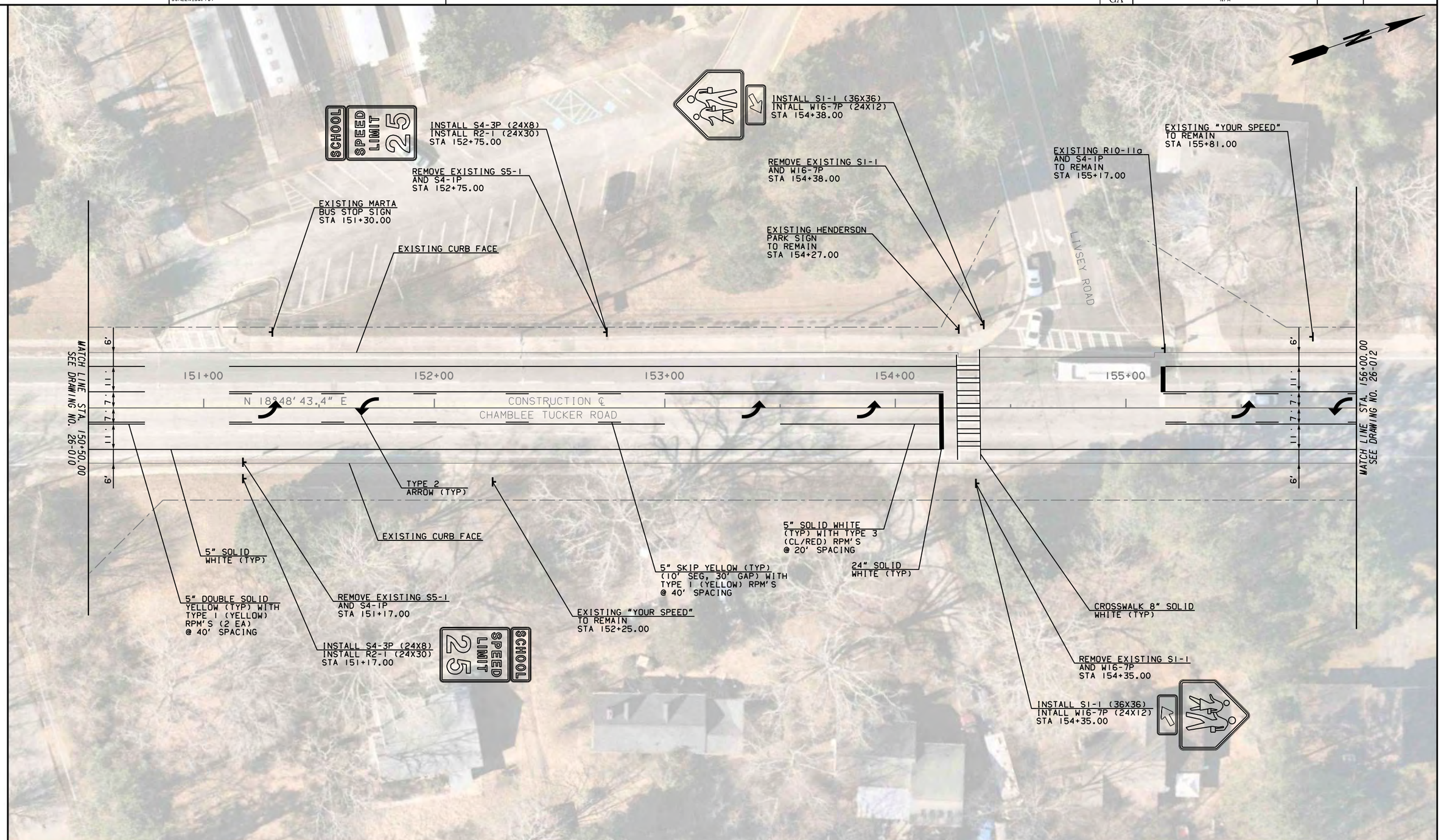
REVISION DATES

SIGNING AND MARKING PLANS

CHAMBLEE TUCKER ROAD LANE DIET

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		26-010
CORRECTED:		DATE:		
VERIFIED:		DATE:		

8/6/2021 CONBDR



PROPERTY AND EXISTING R/W LINE

City of Tucker

vhb

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REVISION DATES

SIGNING AND MARKING PLANS

CHAMBLEE TUCKER ROAD LANE DIET

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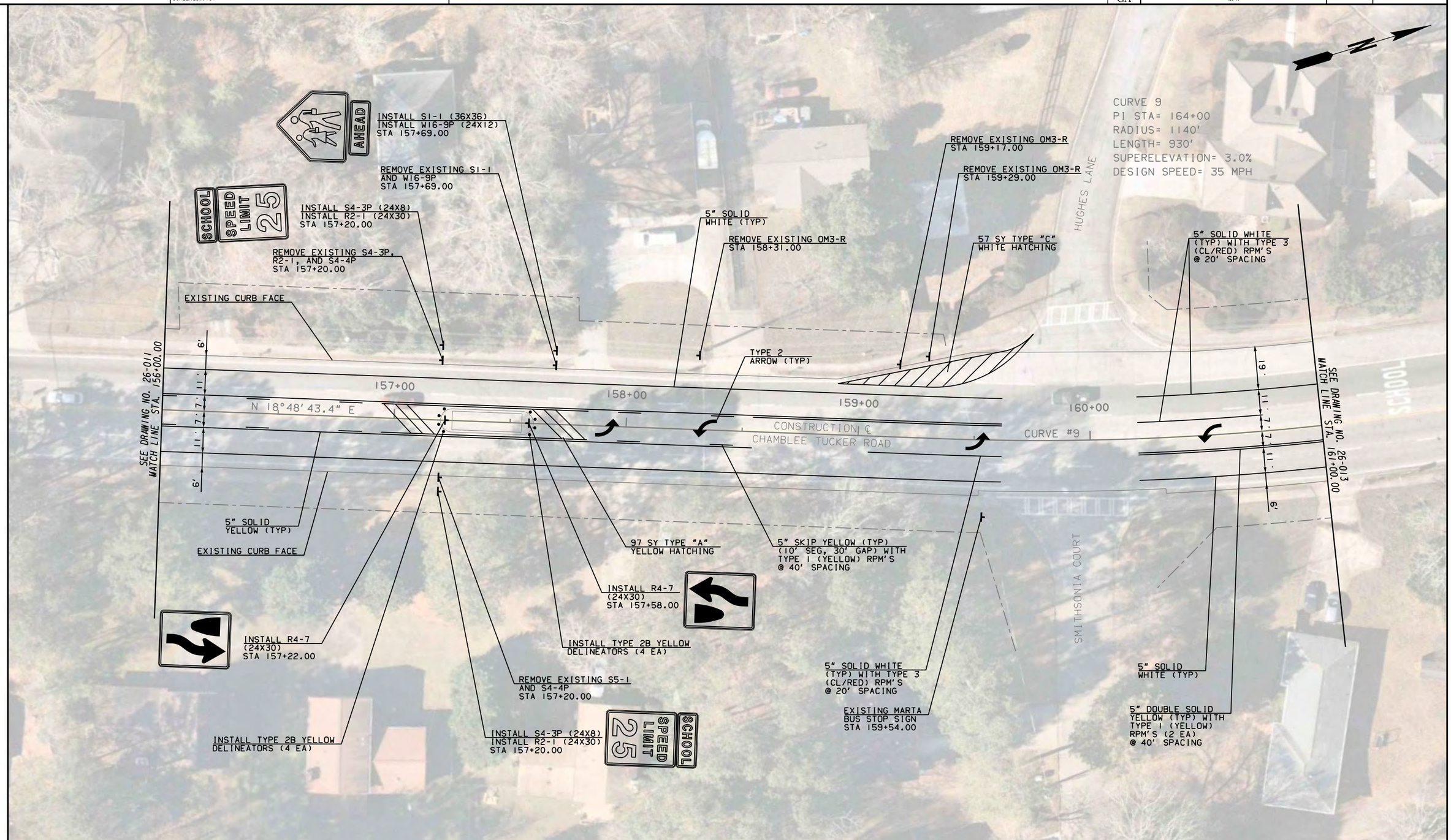
VERIFIED:		DATE:		

8/6/2021 CONBDR



PROPERTY AND EXISTING R/W LINE

City of Tucker

vhb

SCALE IN FEET
0 20 40 80

REVISION DATES		

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CHAMBLEE TUCKER ROAD LANE DIET

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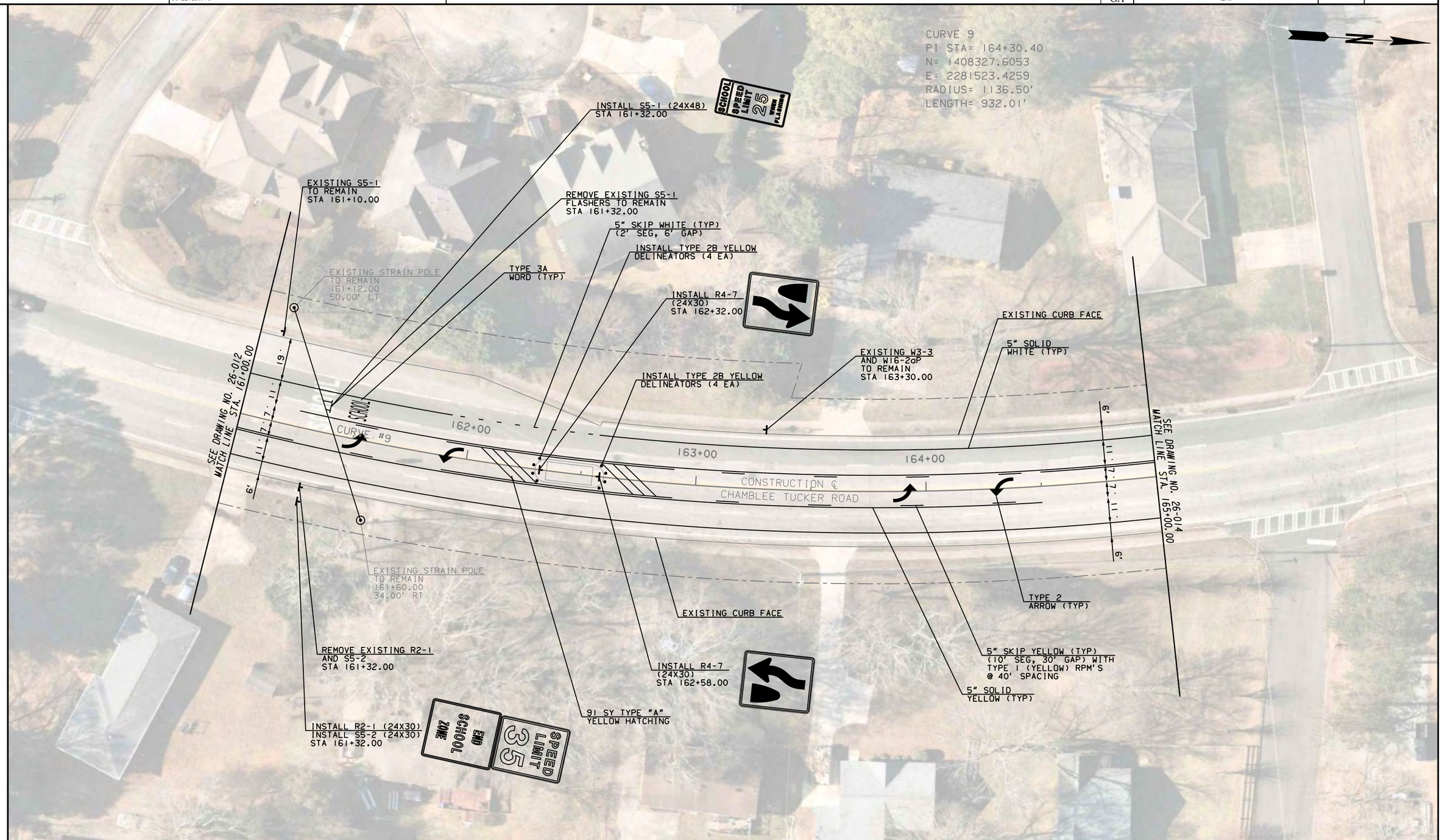

PROPERTY AND EXISTING R/W LINE

City of Tucker

vhb

SCALE IN FEET
0 20 40 80

REVISION DATES		

SIGNING AND MARKING PLANS

CHAMBLEE TUCKER ROAD LANE DIET

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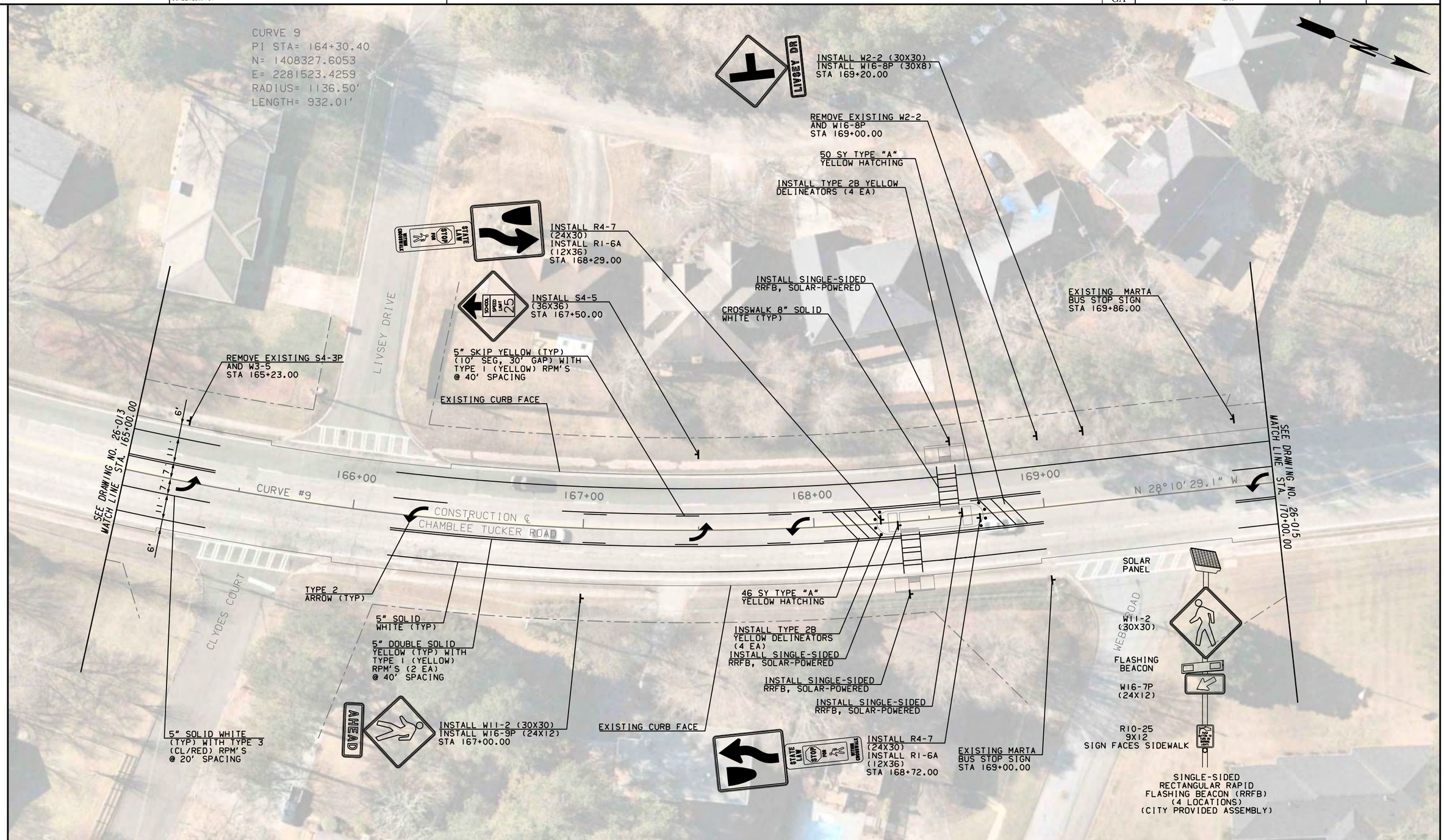
8/6/2021 CONBDR



PROPERTY AND EXISTING R/W LINE

City of Tucker

vhb

SCALE IN FEET
0 20 40 80

REVISION DATES		

SIGNING AND MARKING PLANS

CHAMBLEE TUCKER ROAD LANE DIET

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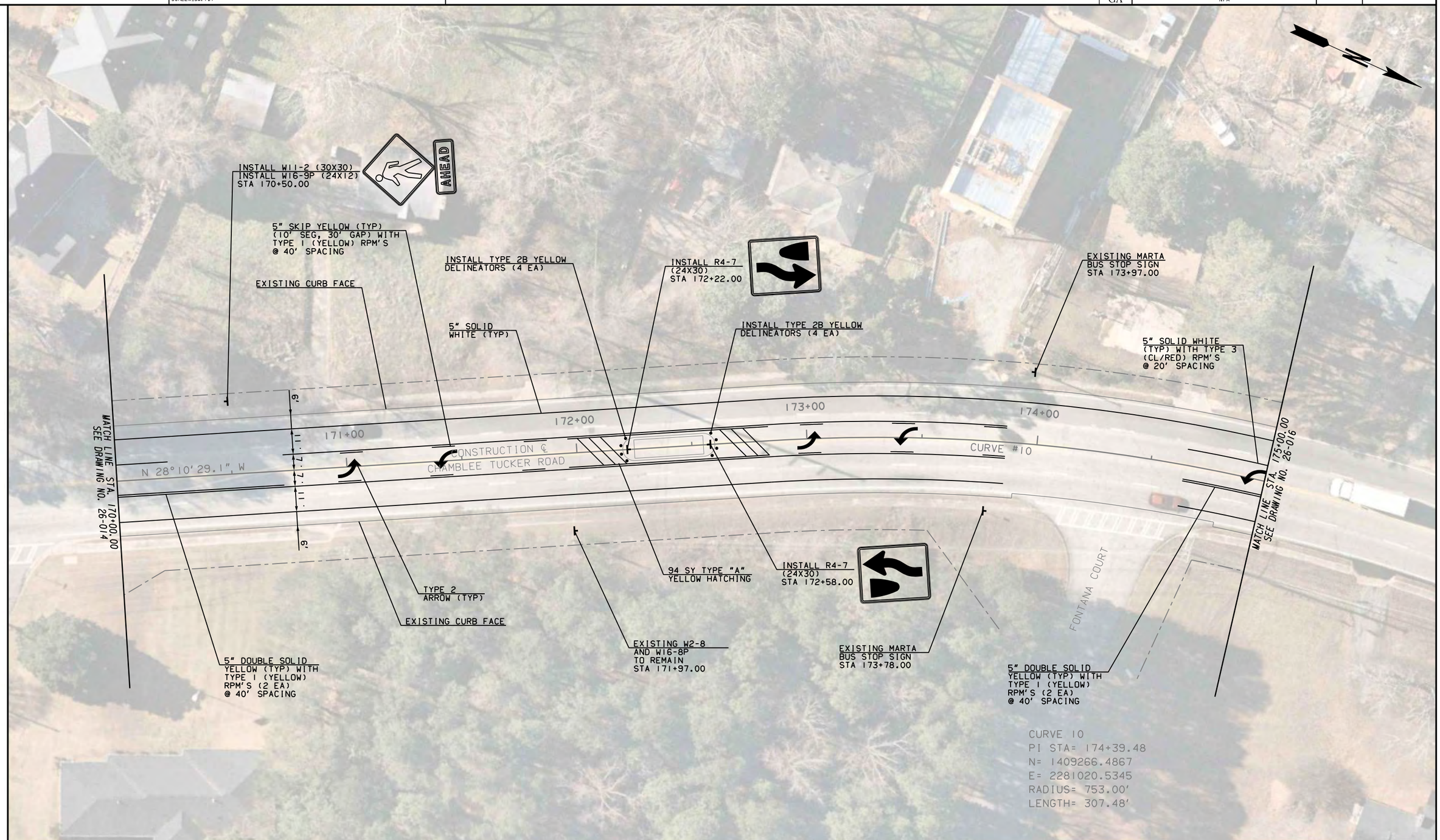
8/6/2021 CONBDR



PROPERTY AND EXISTING R/W LINE

City of Tucker

vhb

SCALE IN FEET
0 20 40 80

REVISION DATES

SIGNING AND MARKING PLANS

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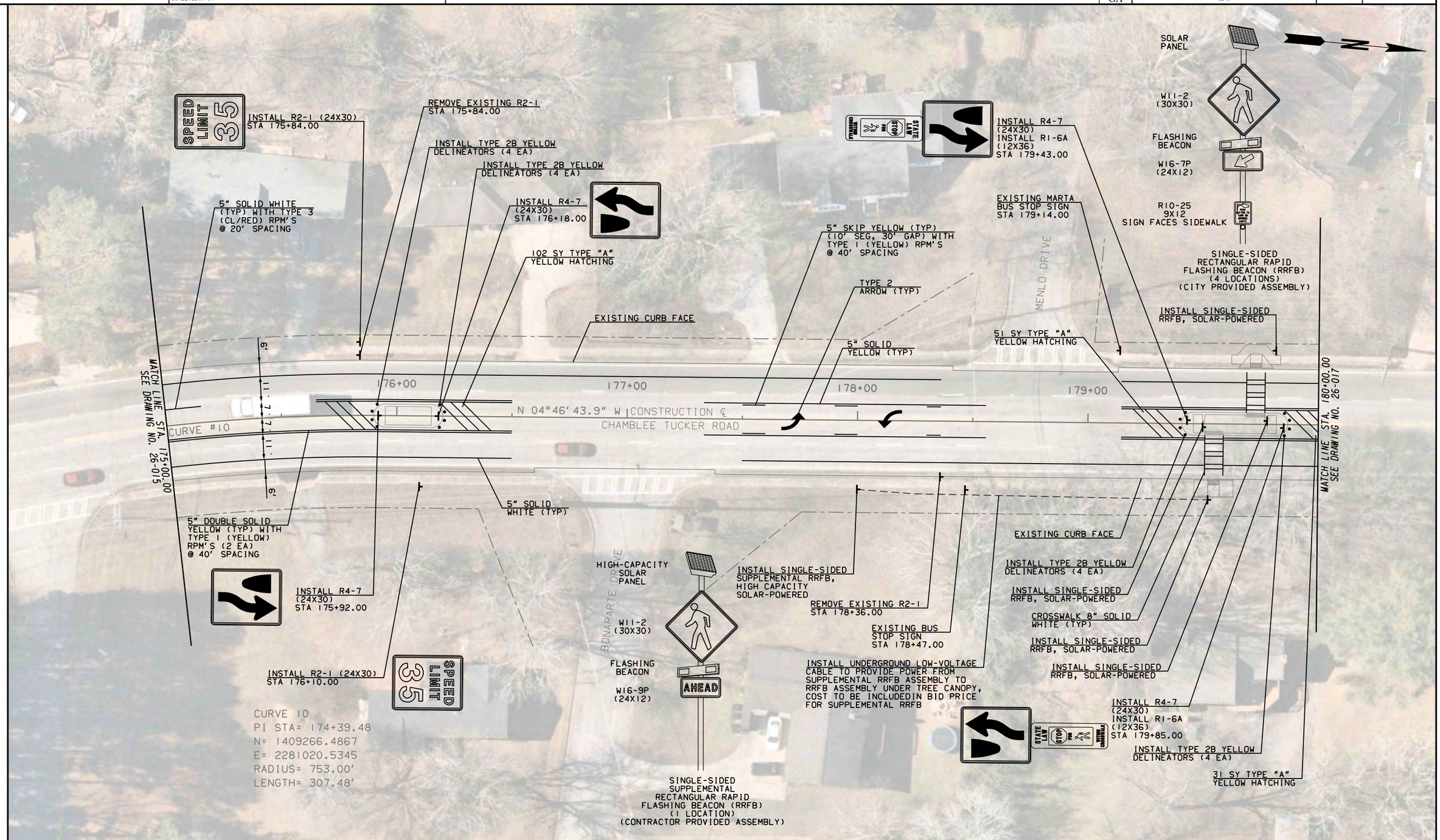

PROPERTY AND EXISTING R/W LINE

City of Tucker

vhb

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SCALE IN FEET
0 20 40 80

REVISION DATES		

SIGNING AND MARKING PLANS

CHAMBLEE TUCKER ROAD LANE DIET

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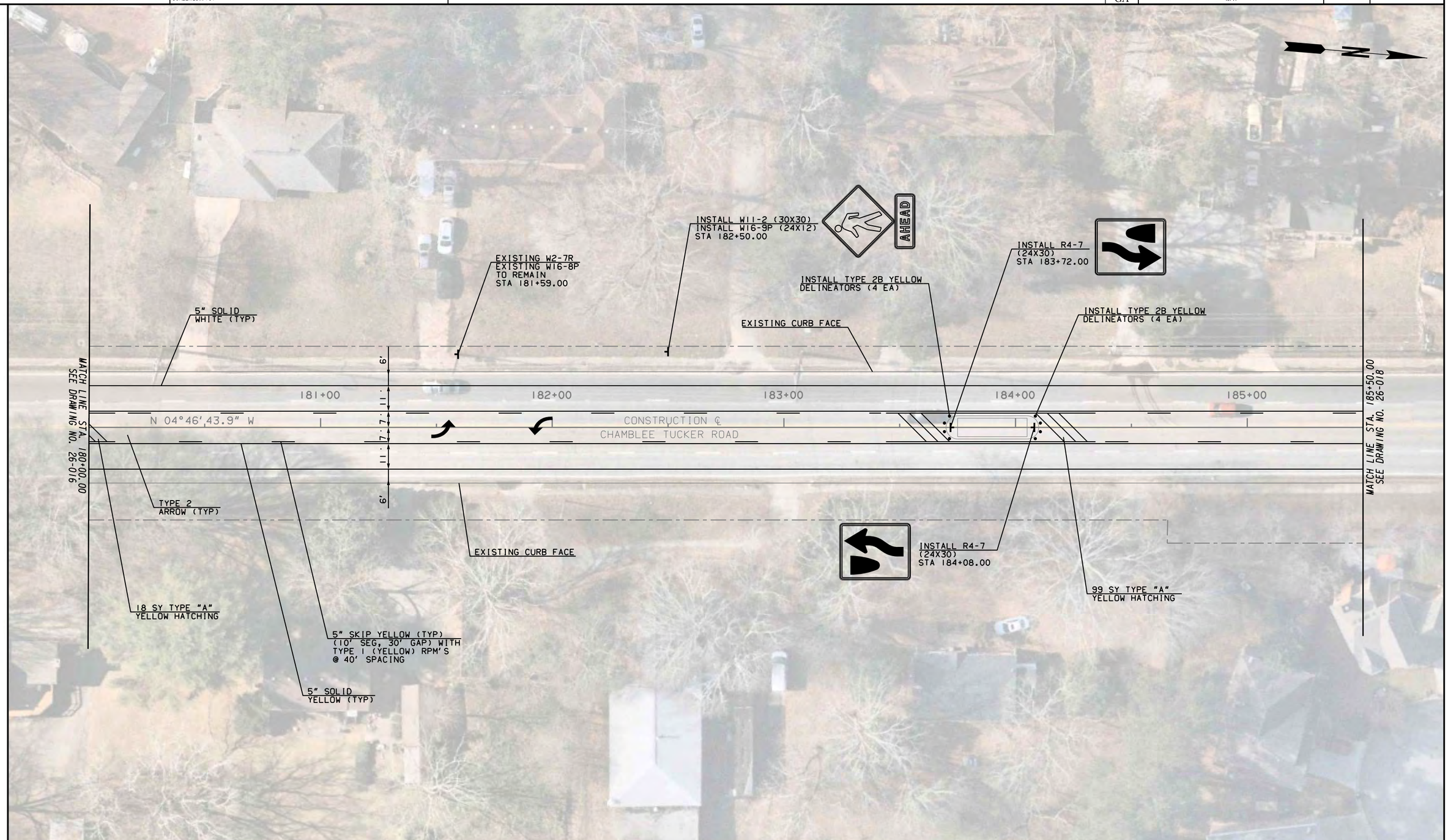
8/6/2021 CONBDR



PROPERTY AND EXISTING R/W LINE

City of Tucker

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REVISION DATES

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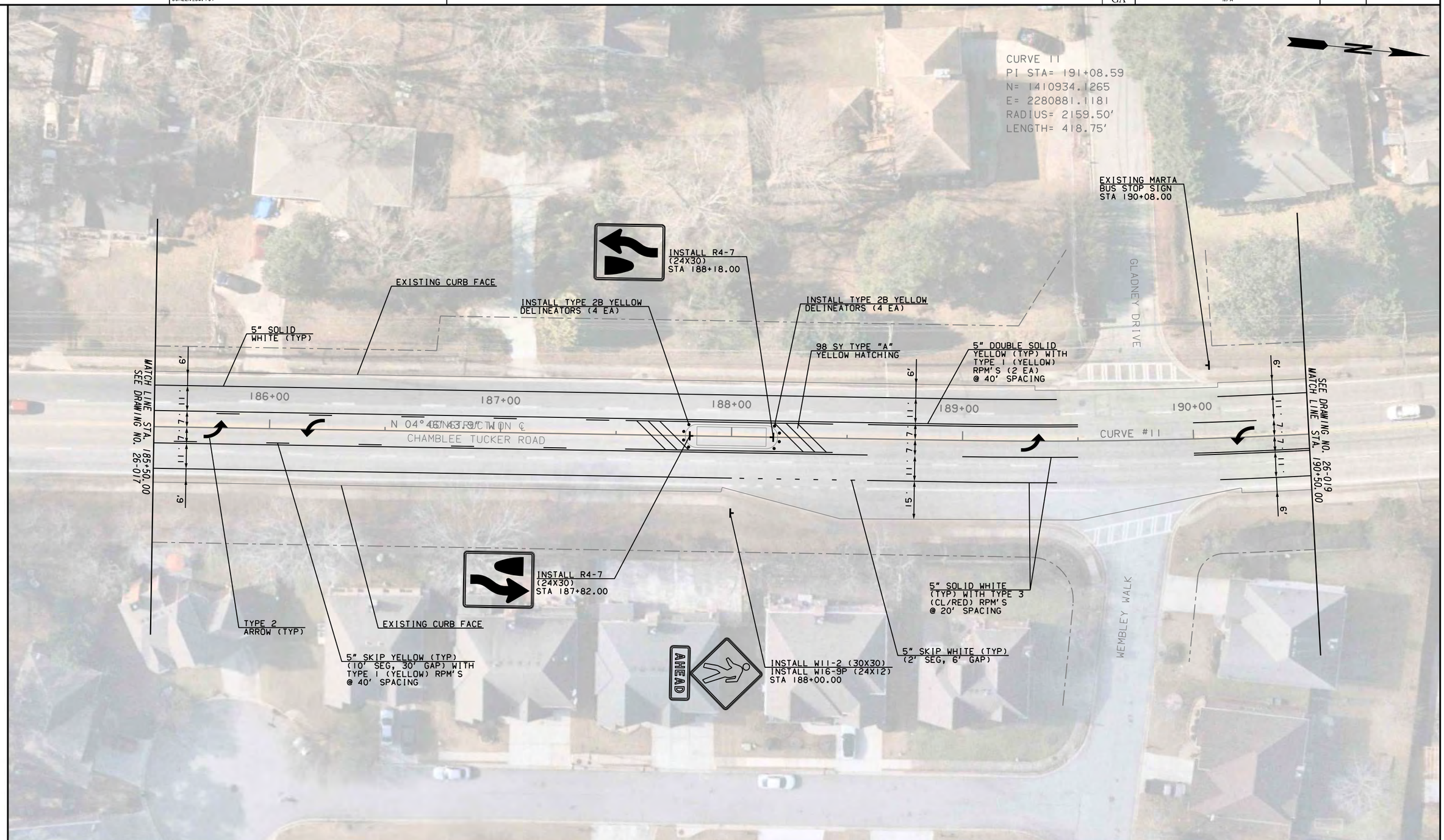

PROPERTY AND EXISTING R/W LINE

City of Tucker

vhb

SCALE IN FEET
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REVISION DATES

SIGNING AND MARKING PLANS

CHAMBLEE TUCKER ROAD LANE DIET

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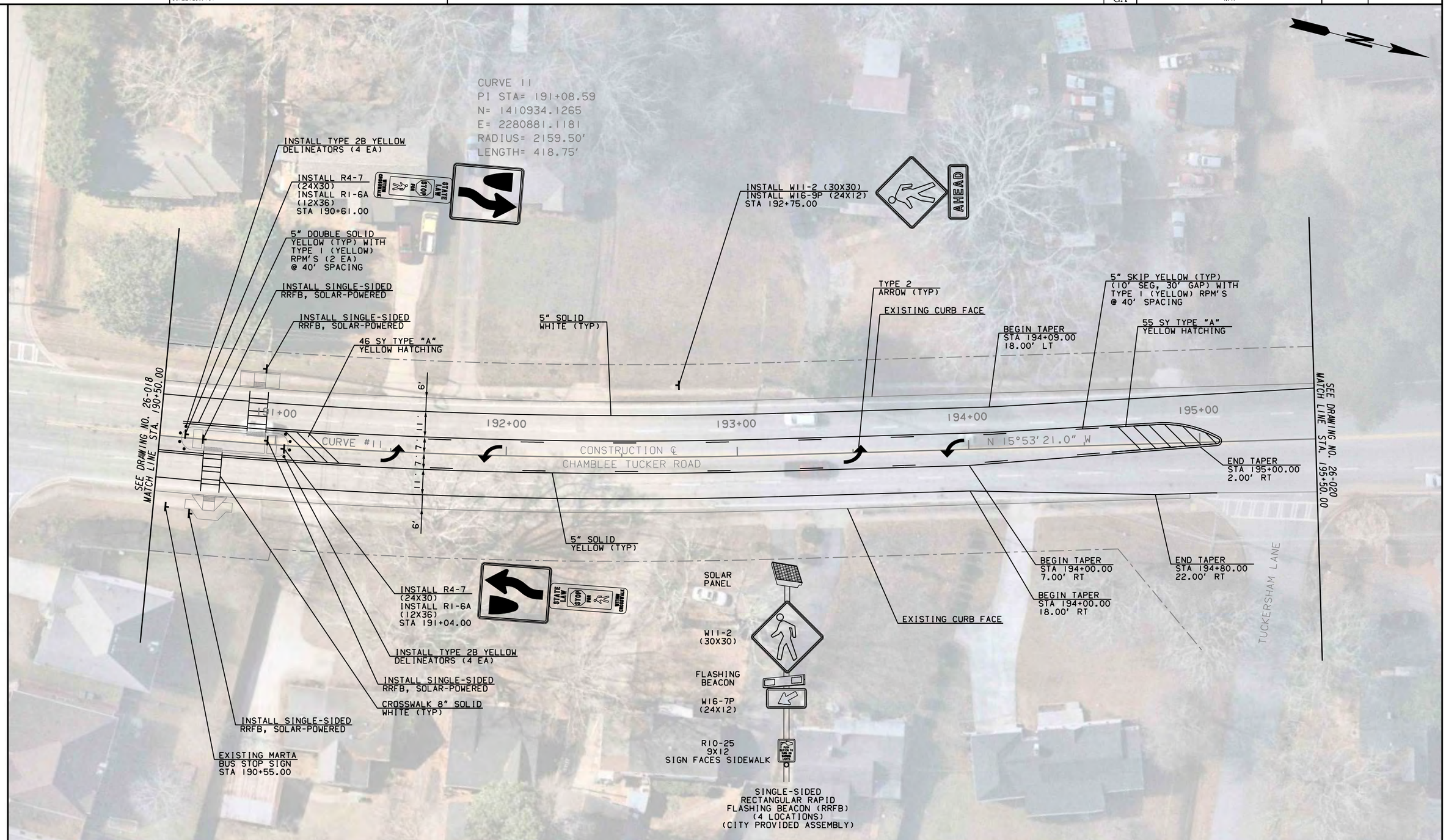
8/6/2021 CONBDR



PROPERTY AND EXISTING R/W LINE

City of Tucker

vhb

SCALE IN FEET
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REVISION DATES

SIGNING AND MARKING PLANS

CHAMBLEE TUCKER ROAD LANE DIET

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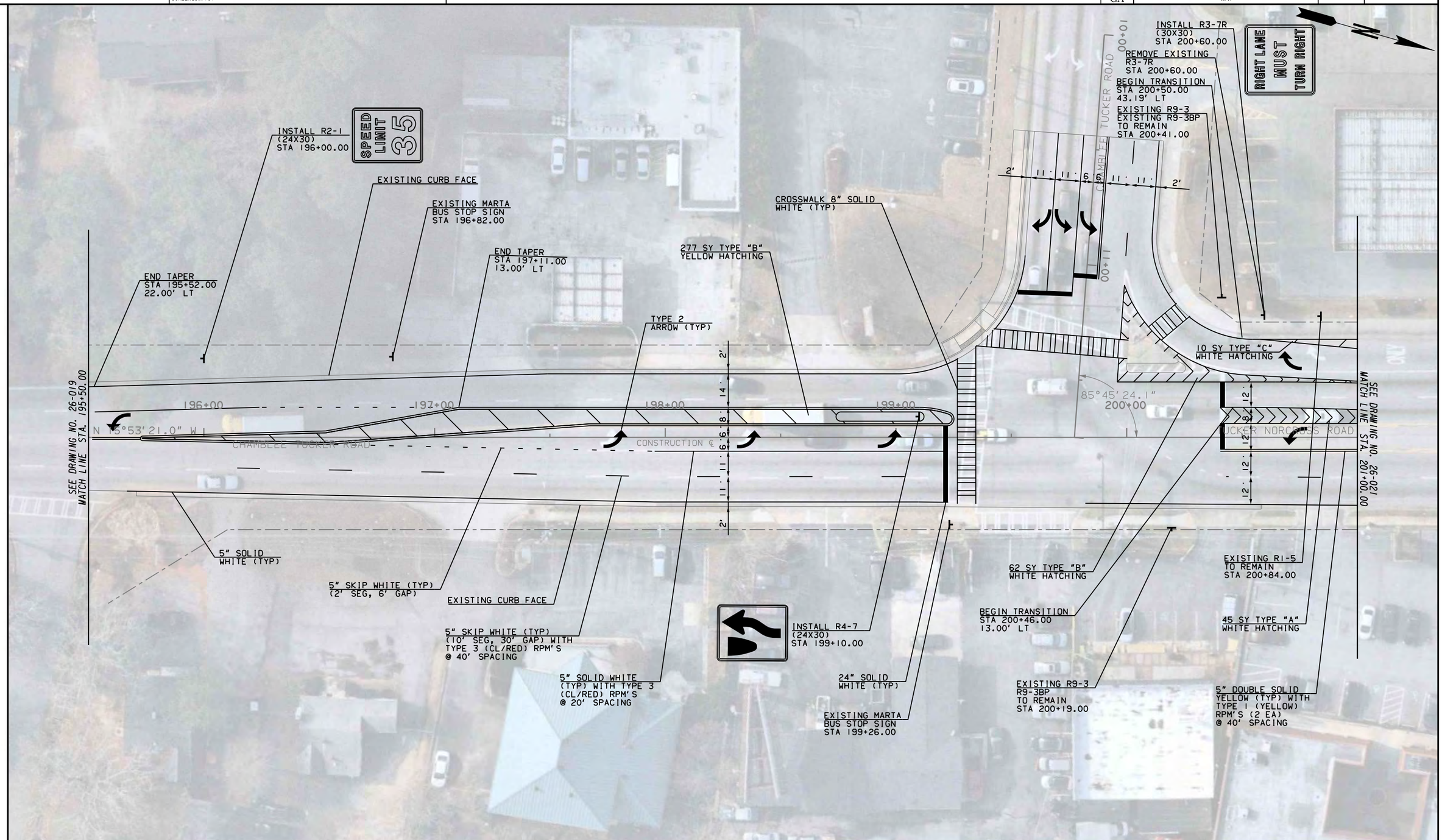
VERIFIED:	DATE:	

8/6/2021 CONBDR



PROPERTY AND EXISTING R/W LINE

City of Tucker

vhb

SCALE IN FEET
0 20 40 80

REVISION DATES

SIGNING AND MARKING PLANS

CHAMBLEE TUCKER ROAD LANE DIET

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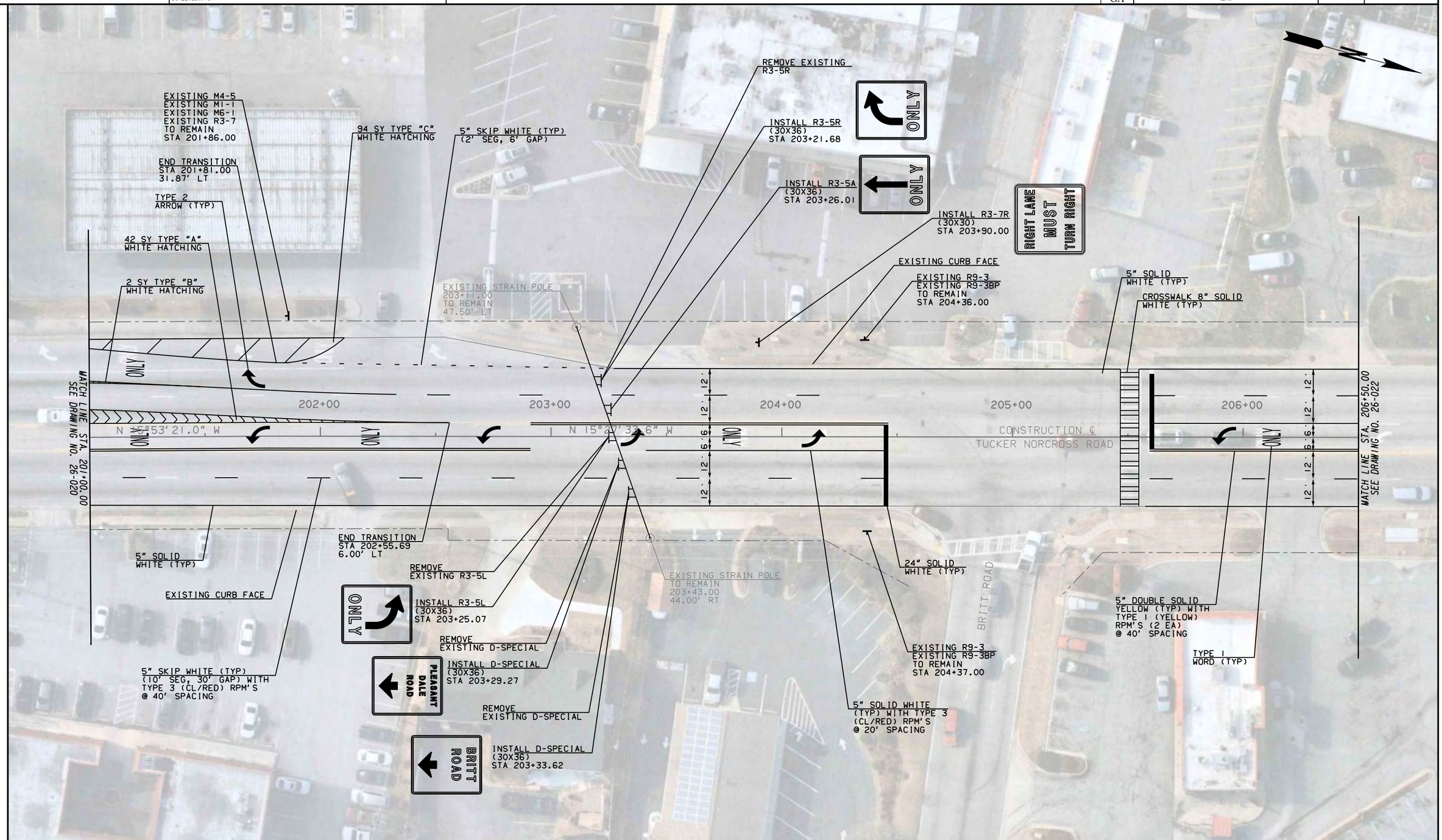
8/6/2021 CONBDR



PROPERTY AND EXISTING R/W LINE

City of Tucker

vhb

SCALE IN FEET
0 20 40 80

REVISION DATES

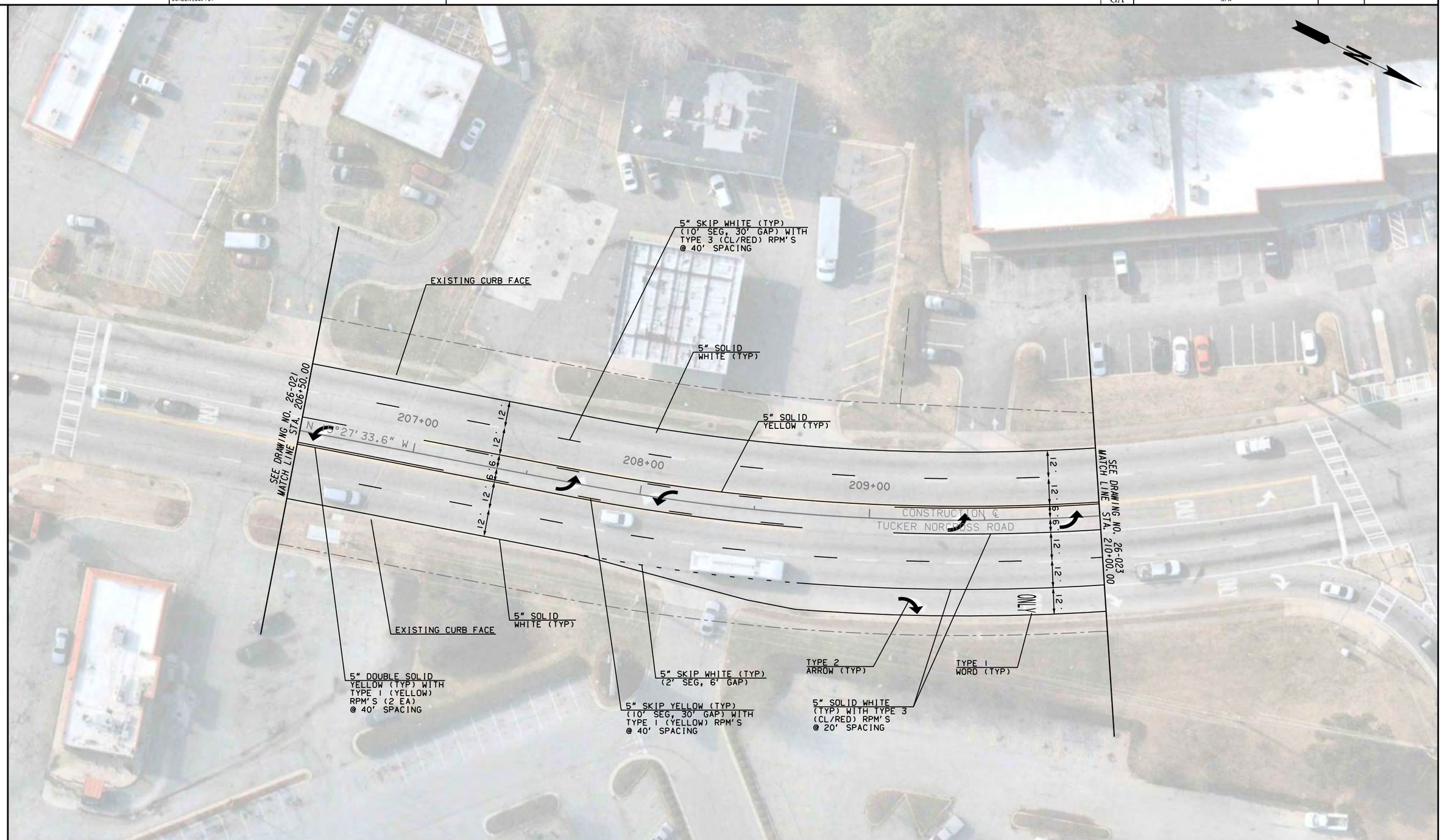
SIGNING AND MARKING PLANS

CHAMBLEE TUCKER ROAD LANE DIET

CHECKED:		DATE:	DRAWING No.
BACKCHECKED:		DATE:	26-021
CORRECTED:		DATE:	
VERIFIED:		DATE:	

8/6/2021 CONBDR

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	N/A		



PROPERTY AND EXISTING R/W LINE

City of Tucker

vhb

SCALE IN FEET
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REVISION DATES

SIGNING AND MARKING PLANS

CHAMBLEE TUCKER ROAD LANE DIET

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		26-022
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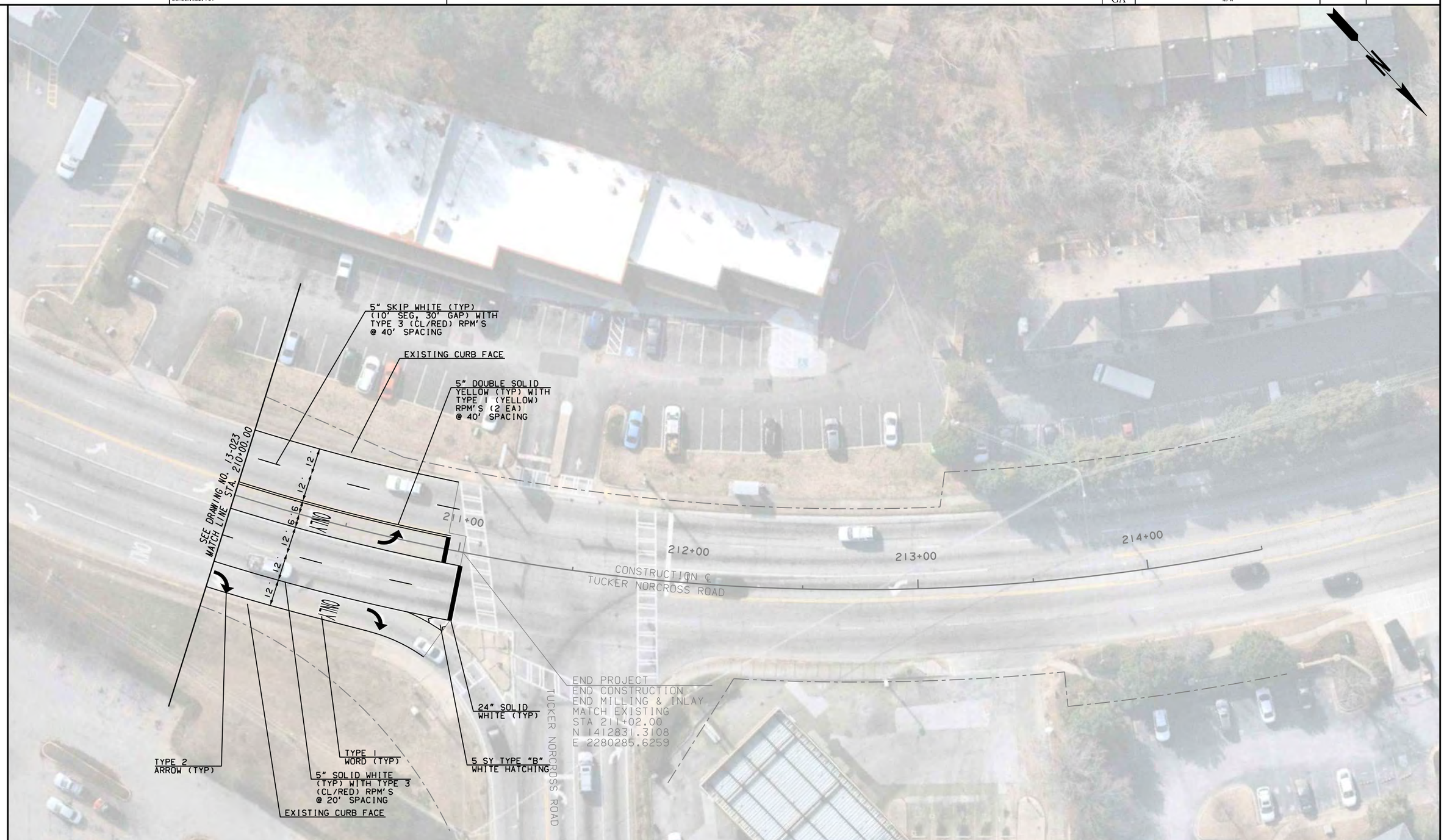
8/6/2021 CONBDR



PROPERTY AND EXISTING R/W LINE

City of Tucker

vhb

Page 138 of 188

SCALE IN FEET
0 20 40 80

REVISION DATES		

SIGNING AND MARKING PLANS

CHAMBLEE TUCKER ROAD LANE DIET

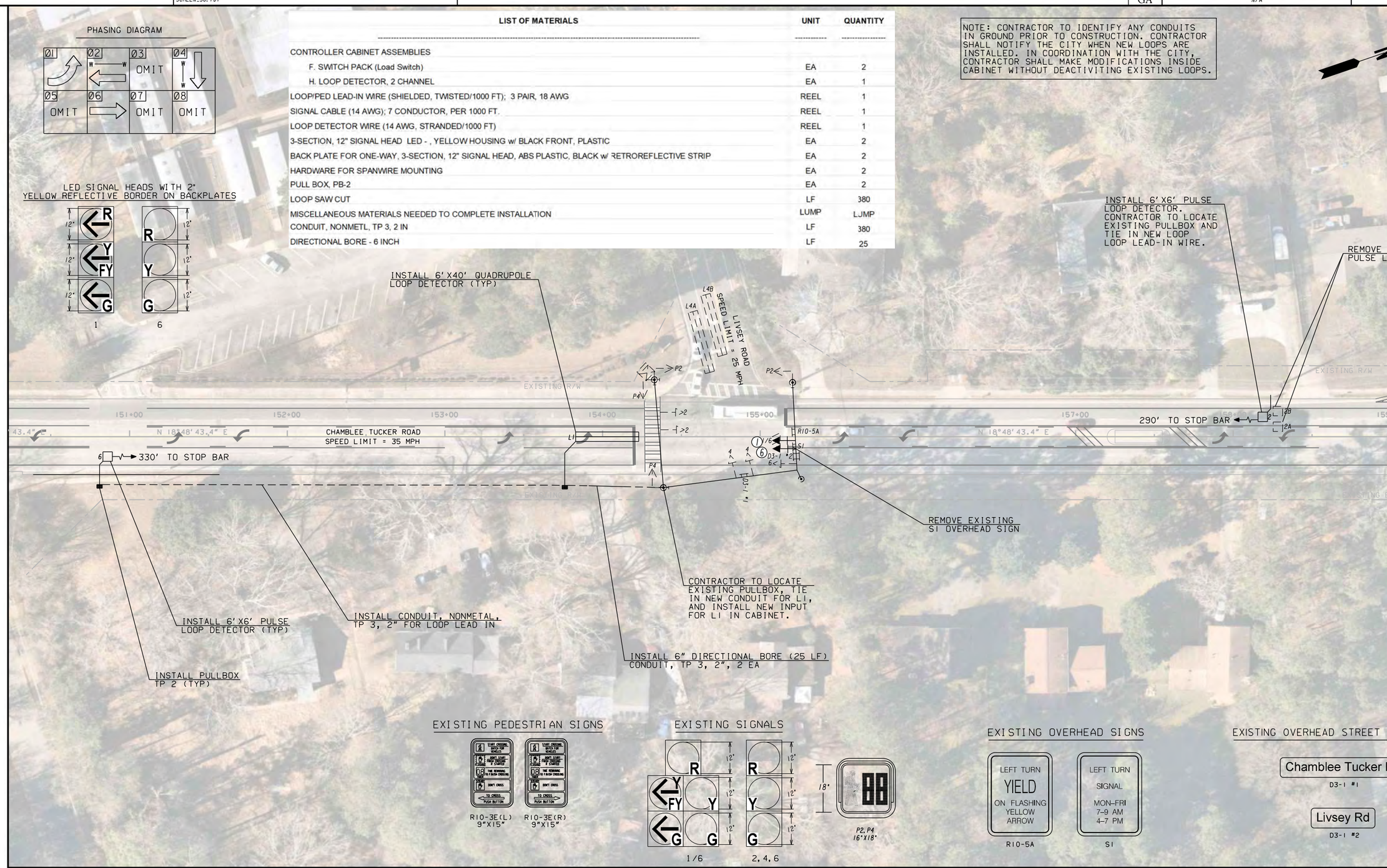
CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		26-023
CORRECTED:		DATE:		
VERIFIED:		DATE:		

PHASING DIAGRAM

LIST OF MATERIALS	UNIT	QUANTITY
CONTROLLER CABINET ASSEMBLIES		
F. SWITCH PACK (Load Switch)	EA	2
H. LOOP DETECTOR, 2 CHANNEL	EA	1
LOOP/PED LEAD-IN WIRE (SHIELDED, TWISTED/1000 FT); 3 PAIR, 18 AWG	REEL	1
SIGNAL CABLE (14 AWG); 7 CONDUCTOR, PER 1000 FT.	REEL	1
LOOP DETECTOR WIRE (14 AWG, STRANDED/1000 FT)	REEL	1
3-SECTION, 12" SIGNAL HEAD LED - , YELLOW HOUSING w/ BLACK FRONT, PLASTIC	EA	2
BACK PLATE FOR ONE-WAY, 3-SECTION, 12" SIGNAL HEAD, ABS PLASTIC, BLACK w/ RETROREFLECTIVE STRIP	EA	2
HARDWARE FOR SPANWIRE MOUNTING	EA	2
PULL BOX, PB-2	EA	2
LOOP SAW CUT	LF	380
MISCELLANEOUS MATERIALS NEEDED TO COMPLETE INSTALLATION	LUMP	LUMP
CONDUIT, NONMETL, TP 3, 2 IN	LF	380
DIRECTIONAL BORE - 6 INCH	LF	25

NOTE: CONTRACTOR TO IDENTIFY ANY CONDUITS IN GROUND PRIOR TO CONSTRUCTION. CONTRACTOR SHALL NOTIFY THE CITY WHEN NEW LOOPS ARE INSTALLED. IN COORDINATION WITH THE CITY, CONTRACTOR SHALL MAKE MODIFICATIONS INSIDE CABINET WITHOUT DEACTIVITING EXISTING LOOPS.

LED SIGNAL HEADS WITH 2" YELLOW REFLECTIVE BORDER ON BACKPLATES



PROPERTY AND EXISTING R/W LINE

City of Tucker

vhb

SCALE IN FEET
0 30 60 120

REVISION DATES

SIGNAL PLANS

CHAMBLEE TUCKER ROAD AT LIVSEY ROAD
CHAMBLEE TUCKER ROAD LANE DIET

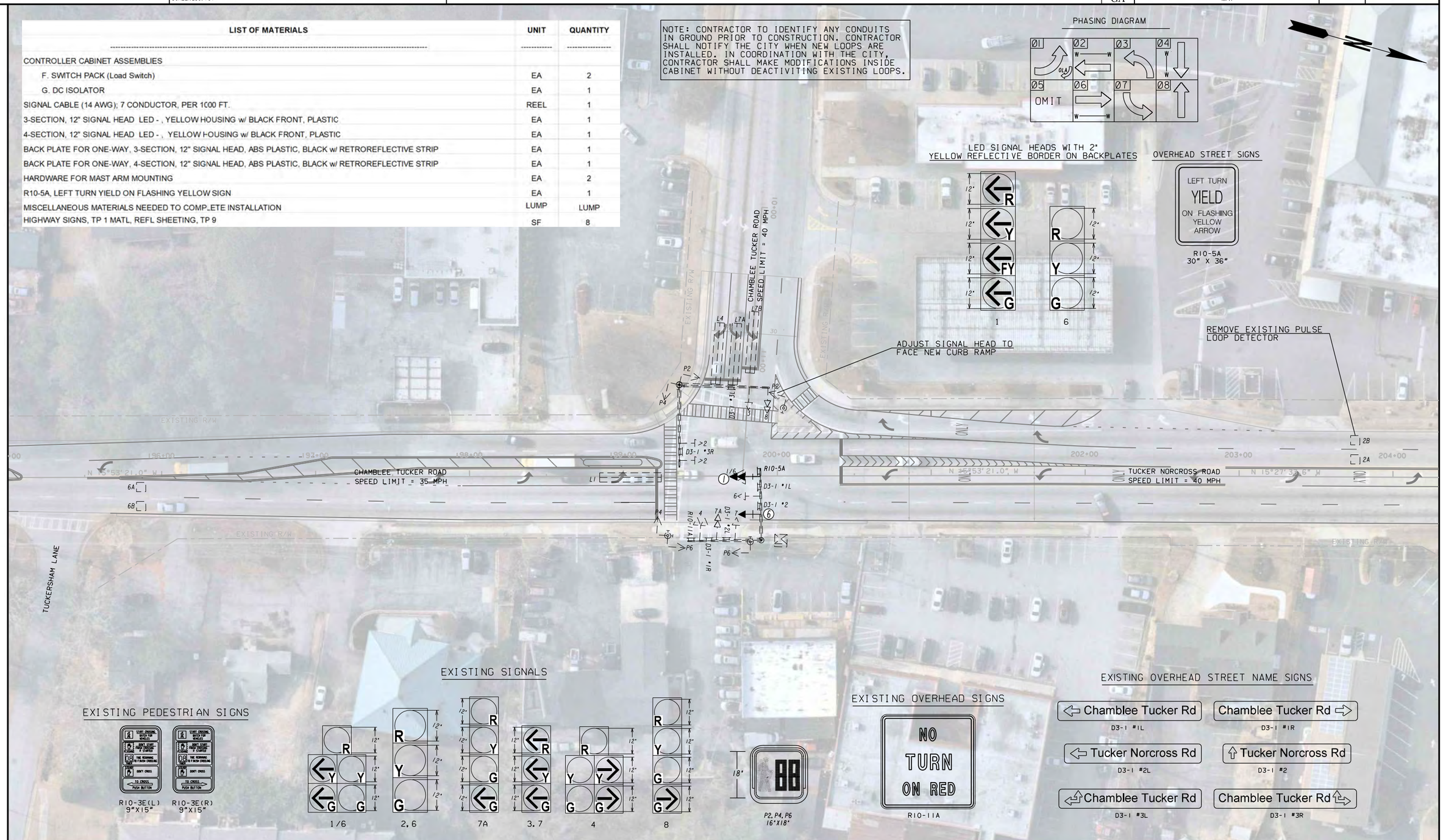
CHECKED:		DATE:	
BACKCHECKED:		DATE:	
CORRECTED:		DATE:	
VERIFIED:		DATE:	

DRAWING No. 27-001

8/6/2021 CONBDR

LIST OF MATERIALS	UNIT	QUANTITY
CONTROLLER CABINET ASSEMBLIES		
F. SWITCH PACK (Load Switch)	EA	2
G. DC ISOLATOR	EA	1
SIGNAL CABLE (14 AWG); 7 CONDUCTOR, PER 1000 FT.	REEL	1
3-SECTION, 12" SIGNAL HEAD LED - , YELLOW HOUSING w/ BLACK FRONT, PLASTIC	EA	1
4-SECTION, 12" SIGNAL HEAD LED - , YELLOW HOUSING w/ BLACK FRONT, PLASTIC	EA	1
BACK PLATE FOR ONE-WAY, 3-SECTION, 12" SIGNAL HEAD, ABS PLASTIC, BLACK w/ RETROREFLECTIVE STRIP	EA	1
BACK PLATE FOR ONE-WAY, 4-SECTION, 12" SIGNAL HEAD, ABS PLASTIC, BLACK w/ RETROREFLECTIVE STRIP	EA	1
HARDWARE FOR MAST ARM MOUNTING	EA	2
R10-5A, LEFT TURN YIELD ON FLASHING YELLOW SIGN	EA	1
MISCELLANEOUS MATERIALS NEEDED TO COMPLETE INSTALLATION	LUMP	LUMP
HIGHWAY SIGNS, TP 1 MATL, REFL SHEETING, TP 9	SF	8

NOTE: CONTRACTOR TO IDENTIFY ANY CONDUITS IN GROUND PRIOR TO CONSTRUCTION. CONTRACTOR SHALL NOTIFY THE CITY WHEN NEW LOOPS ARE INSTALLED. IN COORDINATION WITH THE CITY, CONTRACTOR SHALL MAKE MODIFICATIONS INSIDE CABINET WITHOUT DEACTIVITING EXISTING LOOPS.



PROPERTY AND EXISTING R/W LINE

City of Tucker

vhb

SCALE IN FEET 0 30 60 120

REVISION DATES		

SIGNAL PLANS

TUCKER NORCROSS ROAD

CHAMBLEE TUCKER ROAD LANE DIET

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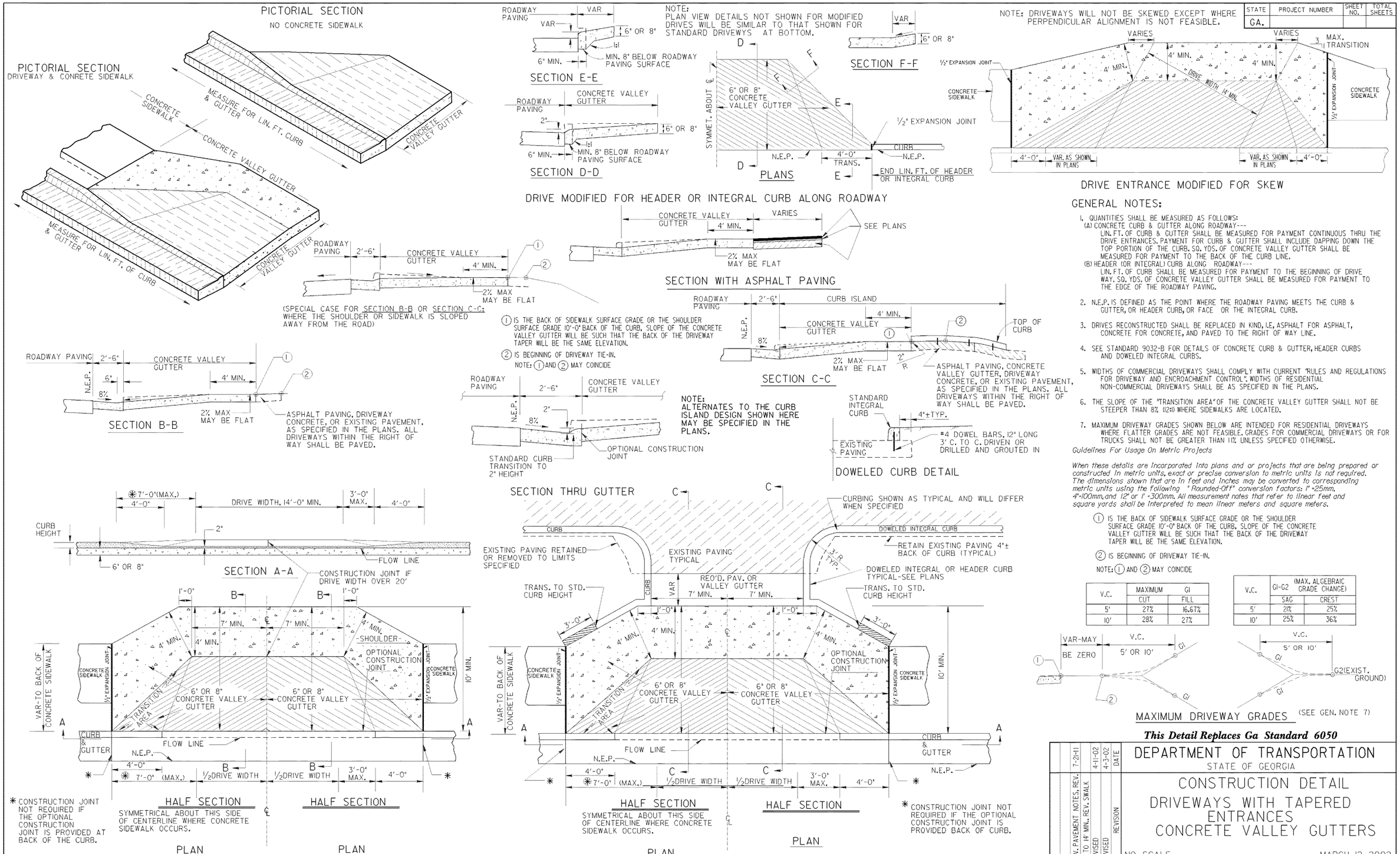
8/6/2021 CONBDR

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			



	REV. PAVEMENT NOTES, REV.	7-21-11	DATE
	12' TO 14' MIN., REV. SWALK	4-11-02	
	REVISED	4-3-02	
GLO	REVISED		REVISION
			BY

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

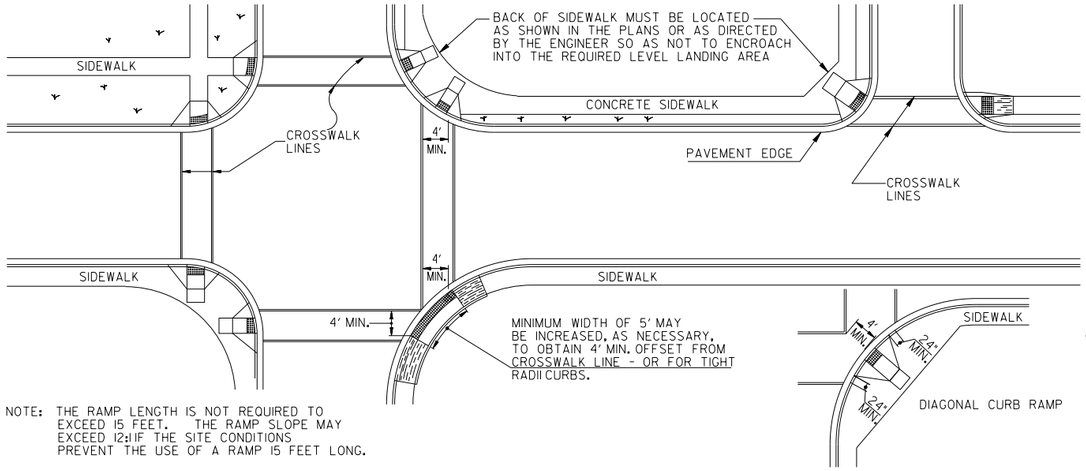
CONSTRUCTION DETAIL
DRIVEWAYS WITH TAPERED ENTRANCES
CONCRETE VALLEY GUTTERS

NO SCALE — MARCH 12, 2002

NUMBER A1

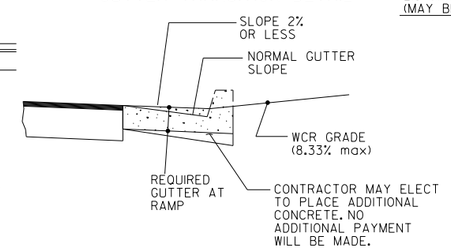
STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

TYPICAL LOCATIONS FOR CURB CUT RAMPS - PLAN VIEW

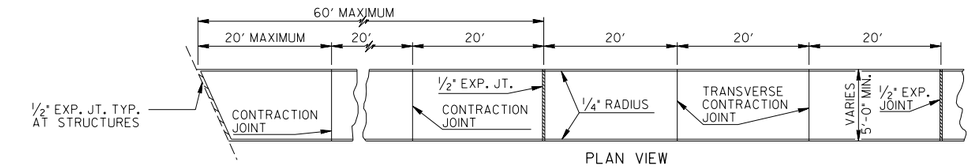


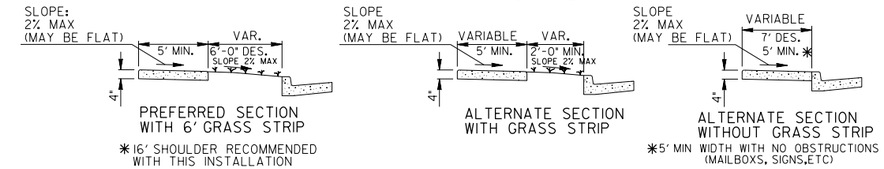
NOTE: THE RAMP LENGTH IS NOT REQUIRED TO EXCEED 15 FEET. THE RAMP SLOPE MAY EXCEED 12:1 IF THE SITE CONDITIONS PREVENT THE USE OF A RAMP 15 FEET LONG.

GUTTER TRANSITION DETAIL



CONCRETE SIDEWALK DETAILS





NOTES FOR CONCRETE SIDEWALK:

A. CONCRETE TO BE PLACED 4" THICK AND FINISHED WITH TAMPS, WOOD FLOATS AND STIFF-BRISTLE BROOMS.
B. TRANSVERSE CONTRACTION JOINTS SHALL BE PLACED AT 20 FT. INTERVALS. ALL EDGES TO BE ROUNDED TO 1/4" RADIUS.
C. 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:

1. CURB CUT RAMPS WILL BE LOCATED AS FOLLOWS UNLESS PLANS OR CONTRACT SPECIFY OTHERWISE.
   a) AT ALL PEDESTRIAN CROSSWALKS WHERE CURB IS CONSTRUCTED OR REPLACED.
   b) WHERE THE SIDEWALK, CONCRETE OR UNPAVED, IS INTERRUPTED BY THE CURB AT TURNOUTS OR AT INTERSECTIONS.
   c) AT OTHER LOCATIONS SUCH AS HOSPITALS, NURSING HOMES, REST AREAS, ETC.. WHERE THE CURB WOULD OTHERWISE BE AN OBSTRUCTION TO THE PHYSICALLY DISABLED.
2. 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.
3. 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.
4. 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.
5. 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.
6. LIN. FT. OF CURB AND GUTTER WILL INCLUDE THE TRANSITIONED CURB IN FRONT OF RAMPS. SQ. 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.
7. 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.
8. DETECTABLE WARNING SURFACES ARE REQUIRED ON ALL INTERSECTIONS WITH PUBLIC STREETS, SIGNALIZED COMMERCIAL DRIVEWAYS, AND COMMERCIAL DRIVEWAYS WITH AN AADT OF 25 VPD.

This Detail Replaces Ga Standard 9031W

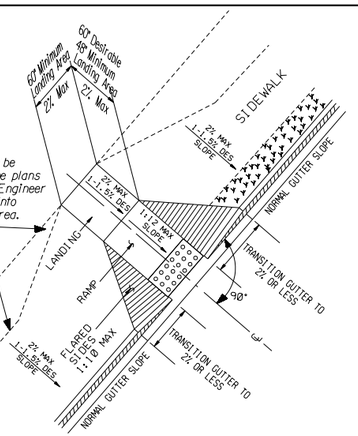
Guidelines For Usage On Metric Projects

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.

Type A

(Perpendicular)

(The Preferred Ramp)



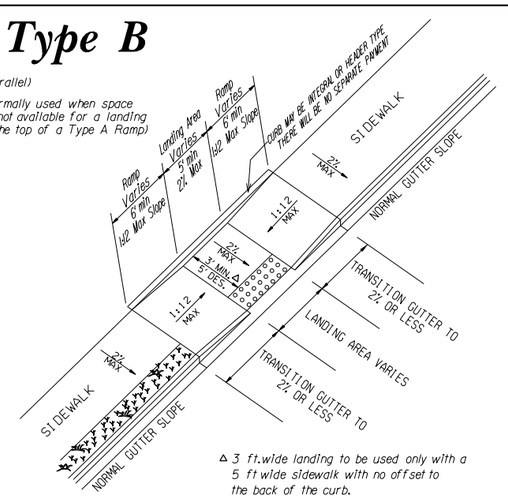
Back of sidewalk shall be located as shown in the plans or as directed by the Engineer so as not to encroach into the required landing area.

LENGHT 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

(Parallel)

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

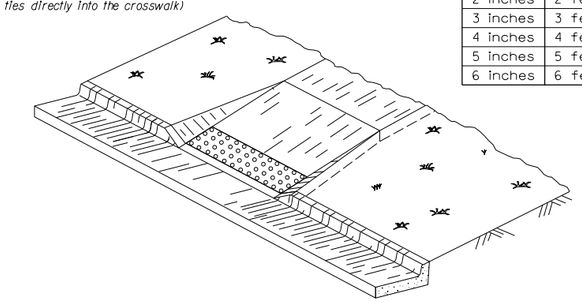


Δ 3 ft.wide landing to be used only with a 5 ft wide sidewalk with no offset to the back of the curb.

Type D

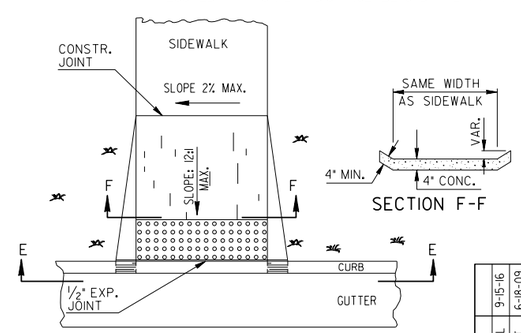
(Perpendicular)

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



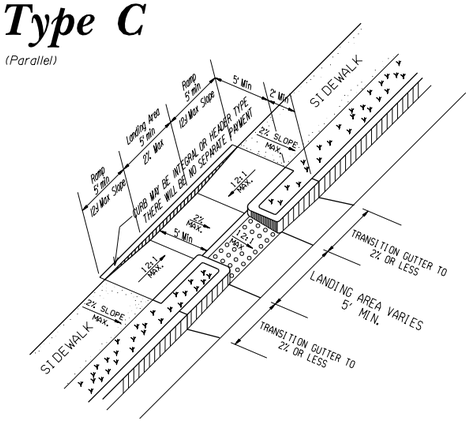
IN AREAS WHERE THE GUTTER HAS A SLOPE 1" IN 1' END NORMAL GUTTER SLOPE AT A DISTANCE OF 6 TO 10 FEET FROM THE RAMP AND BEGIN TRANSITION TO A FLAT GUTTER SLOPE. NORMAL GUTTER SLOPE SHALL BE RESUMED AT A SIMILAR DISTANCE BEYOND THE RAMP.

LENGHT 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

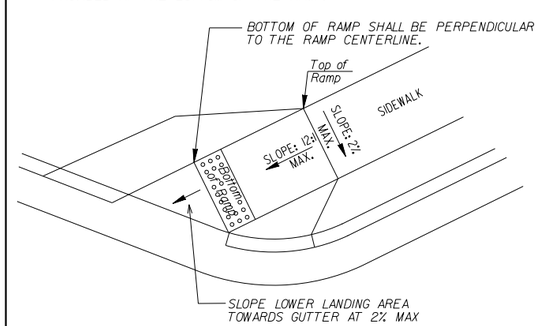
(Parallel)



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.



DATE	REVISION	
9-15-16	ADDED PERP. OR PARALLEL	CJB
6-18-09	REV. SLOPES TO PERCENT AND ADDED 12:1 & 10:1 CHART. ADDED GEN. NOTE NO. 8.	GLO
5-10-06	REV. TRUNCATED DOMES	GLO
2-21-03	REVISED	
2-10-03	REVISED	
7-29-02	REVISED	
5-29-02	REVISED	
5-23-02	REVISED	
5-13-02	REVISED	
4-29-02	REVISED	
4-11-02	REVISED	
4-3-02	REVISED	
3-28-02	REVISED	

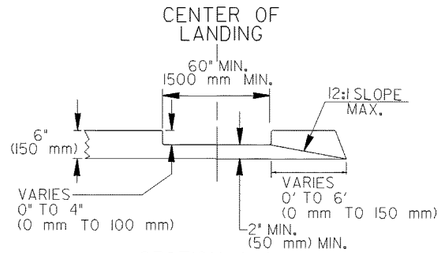
DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

SPECIAL DETAIL
CONCRETE SIDEWALK DETAILS
CURB CUT (WHEELCHAIR) RAMPS

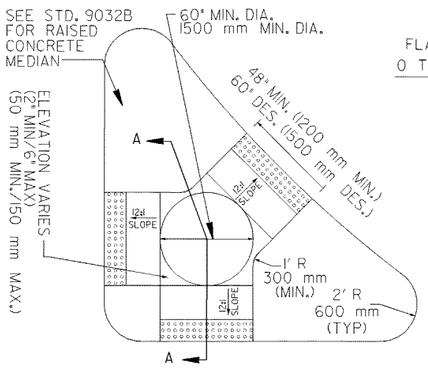
NO SCALE — MARCH 12, 2002

NUMBER A3

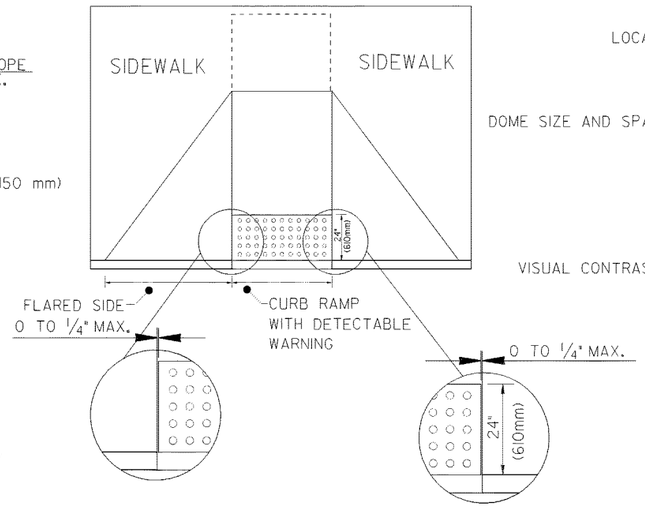
STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			



SECTION A-A



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, SUSH AS A REFLECTIVE POOL EDGE OR THE DYNAMIC ENVELOPE OF RAIL OPERATIONS.

DOME 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 DIAMENTER, 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 CONTRACT SHALL BE AN INTEGRAL PART OF THE DETECTABLE WARNING SURFACE.

MATERIALS:

NEW CONSTRUCTION

THE DETECTABLE WARNINGS SHALL BE MADE OF MATERIALS SPECIFIED ON OPL 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.

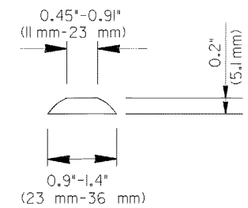
CERAMIC TILE SHALL BE EPOXIED IN PLACE OR SET IN A WET MORTAR BED. MANUFACTURER RECOMMEND ADHESIVE OR FASTENER SHALL BE USED IN THE INSTALLATION.

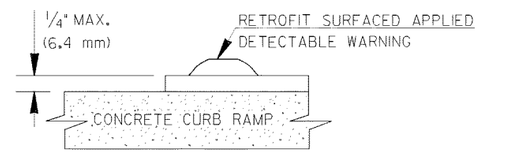
ALL OTHER MATERIALS SHALL BE INSTALLED ACCORDING TO MANUFACTURES DETAILS OR INSTRUCTION.

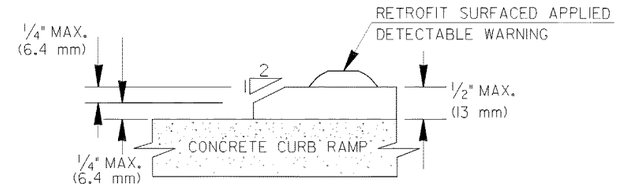
GENERAL NOTES:

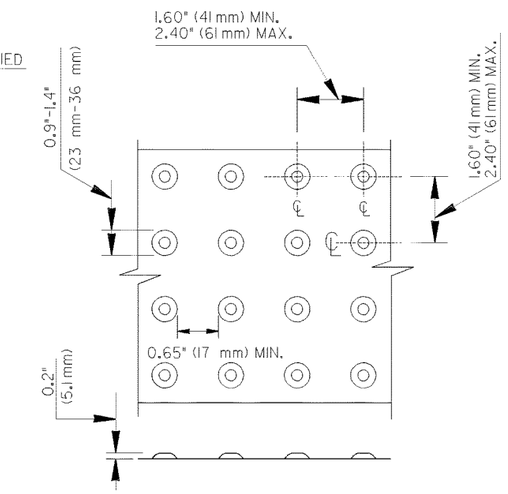
RETROFIT SURFACED APPLIED MATERIALS ONLY:

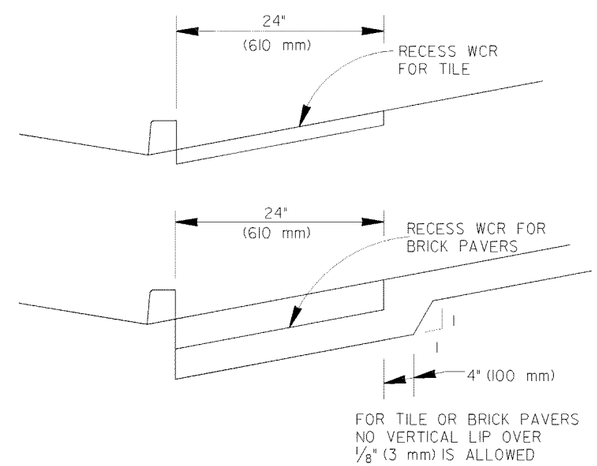
1. CHANGES IN LEVEL OF 1/4" (6.4 mm) HIGH MAXIMUM SHALL BE PERMITTED VERTICALLY ON SURFACED APPLIED MATERIALS.
2. CHANGES IN LEVEL BETWEEN 1/4" (6.4 mm) HIGH MINIMUM AND 1/2" (13mm) HIGH MAXIMUM SHALL BE BELEVELED WITH A SLOPE NOT STEEPER THAN 2:1.

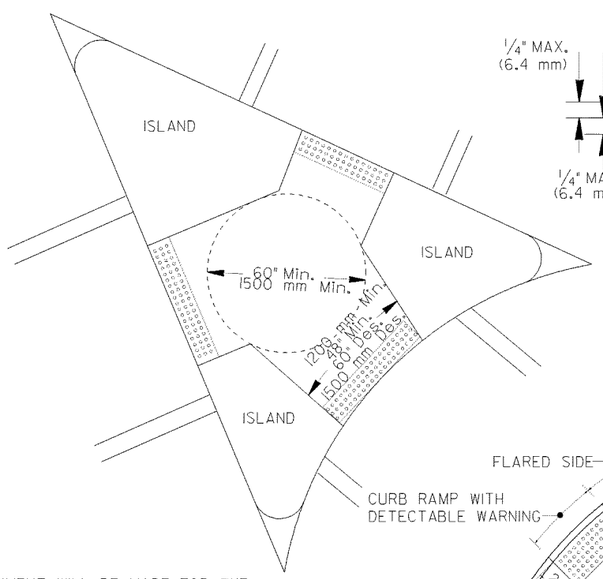


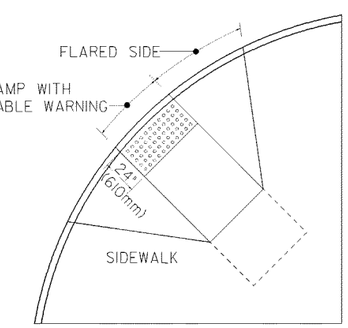




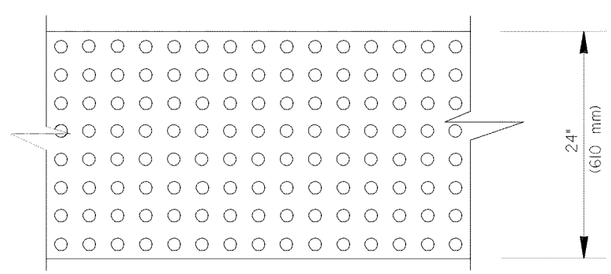








DETAIL FOR DETECTABLE WARNING AT CUT-THRU CONCRETE ISLAND



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 WARINGS SHALL BE INCLUDED IN THE OVERALL BID PRICE SUBMITTED.

BY	REVISION	DATE
GLO	ADDED RETROFIT DETAIL AND ADDED ALT. RAMP DETAIL AND GEN. NOTES	6-18-09
GLO	ADDED TOLERANCE TO DTL.	10-2-06
GLO	REVISED TRUNCATED DOMES AND NOTES.	5-10-06
	REVISED	11-14-02
	REVISED	7-29-02

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

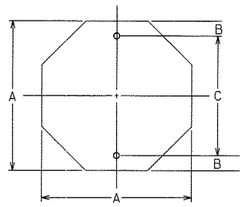
SPECIAL DETAIL

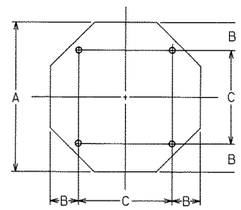
DETECTABLE WARNING SURFACE TRUNCATED DOME SIZE, SPACING AND ALIGNMENT REQUIREMENTS

NO SCALE — MARCH 12, 2002

NUMBER A4

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

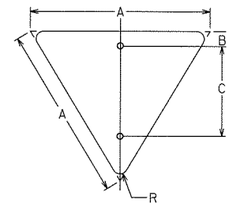


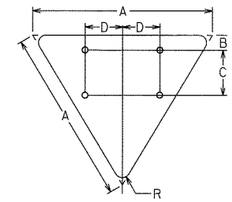


OCTAGON

A	B	C
24	3	18
30	3	24
36	3	30

A	B	C
48	9	30

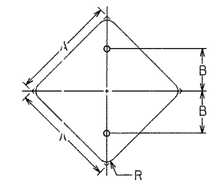


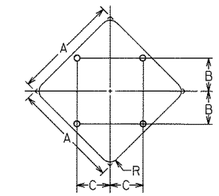


EQUILATERAL TRIANGLE

A	B	C	R
30	3	18	1 1/2
36	3	21	2
48	3	27	3

A	B	C	D	R
60	3	18	15	3



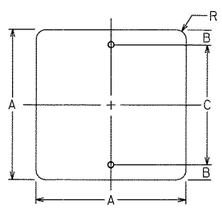


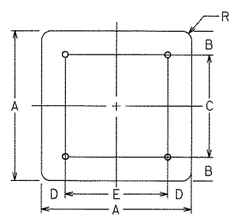
DIAMOND

A	B	R
24	12	1 1/2
30	15	1 7/8
36	18	2 1/4

A	B	C	R
*36	10	10	2 1/4
48	15	15	3
60	18	18	3 3/4

* FOR TWO POST ERECTION

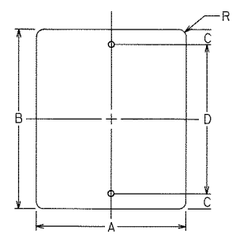


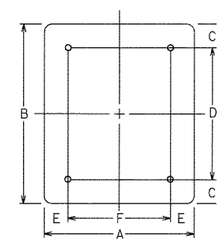


SOUARE

A	B	C	R
18	3	12	1 1/2
24	3	18	1 1/2
30	3	24	1 7/8

A	B	C	D	E	R
36	6	24	6	24	2 1/4
48	6	36	6	36	3

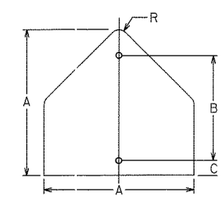




VERTICAL RECTANGLE

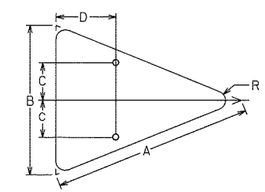
A	B	C	D	R
12	18	1 1/2	15	1 1/2
18	24	3	18	1 1/2
24	30	3	24	1 1/2
30	36	3	30	1 7/8

A	B	C	D	E	F	R
36	48	6	36	6	24	2 1/4
48	60	6	48	9	30	3



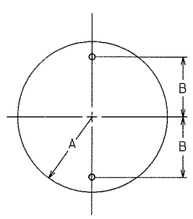
PENTAGON

A	B	C	R
30	21	3	1 7/8
36	24	3	2 1/4



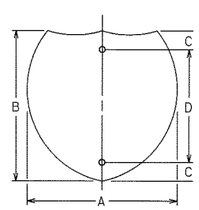
ISOSCELES TRIANGLE

A	B	C	D	R
40	30	7 1/2	12	1 7/8
48	36	9	15	2 1/4



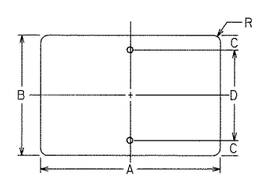
CIRCLE

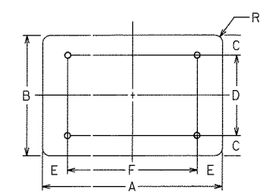
A	B
15	12
18	15



INTERSTATE SHIELD

A	B	C	D
24	24	3	18
30	24	3	18
36	36	6	24
45	36	6	24





HORIZONTAL RECTANGLE

A	B	C	D	R
21	15	1 1/2	12	1 1/2
24	12	1 1/2	9	1 1/2
24	18	3	12	1 1/2
30	15	1 1/2	12	1 1/2
30	24	3	18	1 1/2
36	12	1 1/2	9	1 1/2
36	24	3	18	1 1/2
48	12	1 1/2	9	1 1/2
48	24	3	18	1 7/8

A	B	C	D	E	F	R
48	36	6	24	9	30	2 1/4
60	24	3	18	12	36	1 1/2
60	36	6	24	12	36	2 1/4

DATE	REVISIONS

GEORGIA DEPARTMENT OF TRANSPORTATION
OFFICE OF TRAFFIC SAFETY & DESIGN

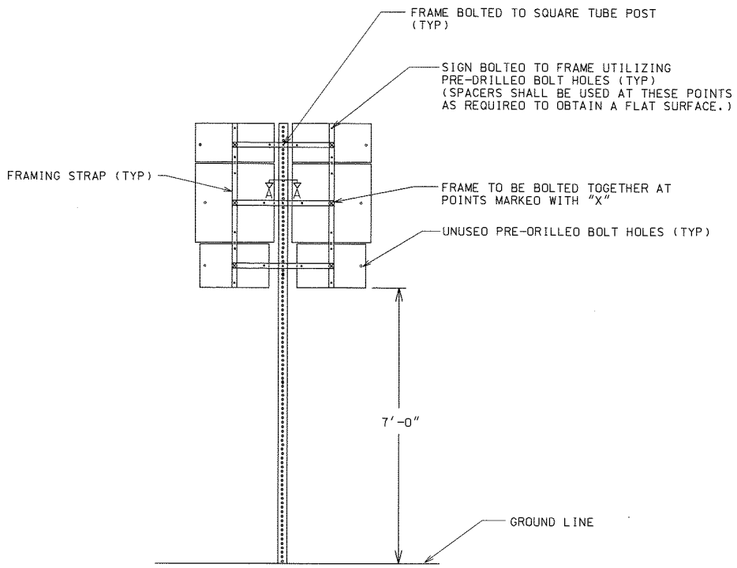
DETAILS OF SIGN PLATES

NO SCALE — JANUARY 2000

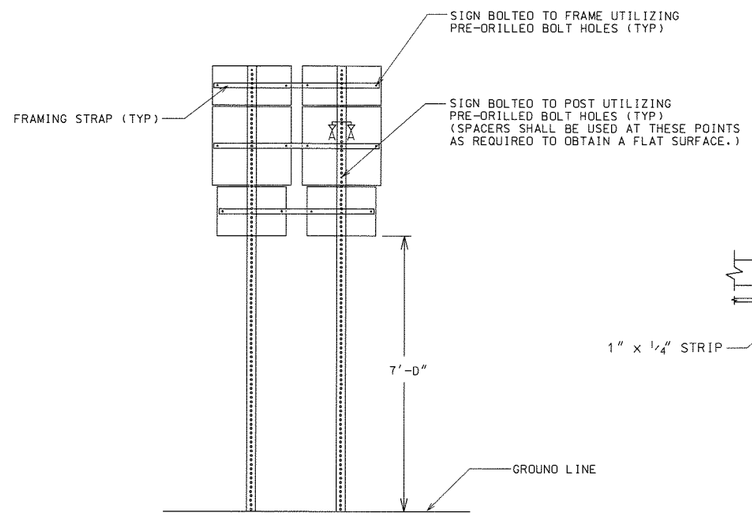
PCBDTB

T-1

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

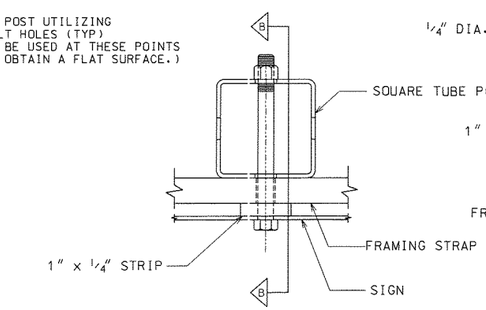


SINGLE POST ERECTION

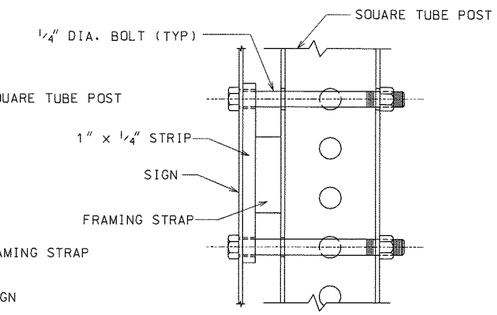


DUAL POST ERECTION

TYPICAL ASSEMBLY UNIT (BACK VIEW)



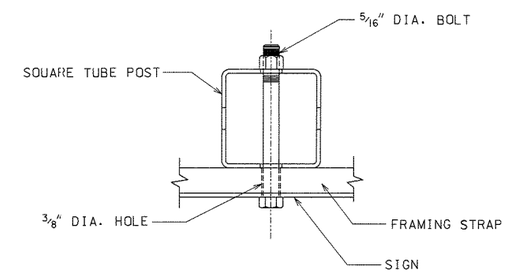
SECTION A-A



SECTION B-B
(ROTATED 90°)

OPTION #1 - FRAMING STRAP WITHOUT MOUNTING HOLE

(ALL FRAMING STRAPS SHALL BE 1 1/2" x 1/2" x REQUIRED LENGTH)



OPTION #2 - FRAMING STRAP WITH MOUNTING HOLE

(ALL FRAMING STRAPS SHALL BE 2" x 1/2" x REQUIRED LENGTH)

GENERAL NOTES:

1. STYLE OF FRAMING IS OPTIONAL. ALTERNATE DESIGNS ARE ACCEPTABLE UPON APPROVAL OF THE ENGINEER. FRAME SHALL BE DESIGNED SO AS TO HOLD THE ASSEMBLY IN A FIXED, RIGID POSITION.
2. FRAMING STRAPS SHALL BE GALVANIZED STEEL OR ALUMINUM.
3. STEEL SHALL BE A.S.T.M. DESIGNATION A-283, GRADE D, GALVANIZED IN ACCORDANCE WITH A.S.T.M. DESIGNATION A-123.
4. ALUMINUM SHALL BE ALLOY 6061-T6.
5. BOLTS, NUTS, WASHERS, AND SPACERS SHALL CONFORM TO THE STANDARD SPECIFICATIONS AND/OR SPECIAL PROVISIONS.
6. FRAMING STRAPS ON A DUAL POST ERECTION SHALL NOT BE BOLTED TO THE POST.

DATE	REVISIONS
3/31/00	CHANGED U-CHANNEL POST TO SQUARE TUBE POST

GEORGIA DEPARTMENT OF TRANSPORTATION
OFFICE OF TRAFFIC OPERATIONS

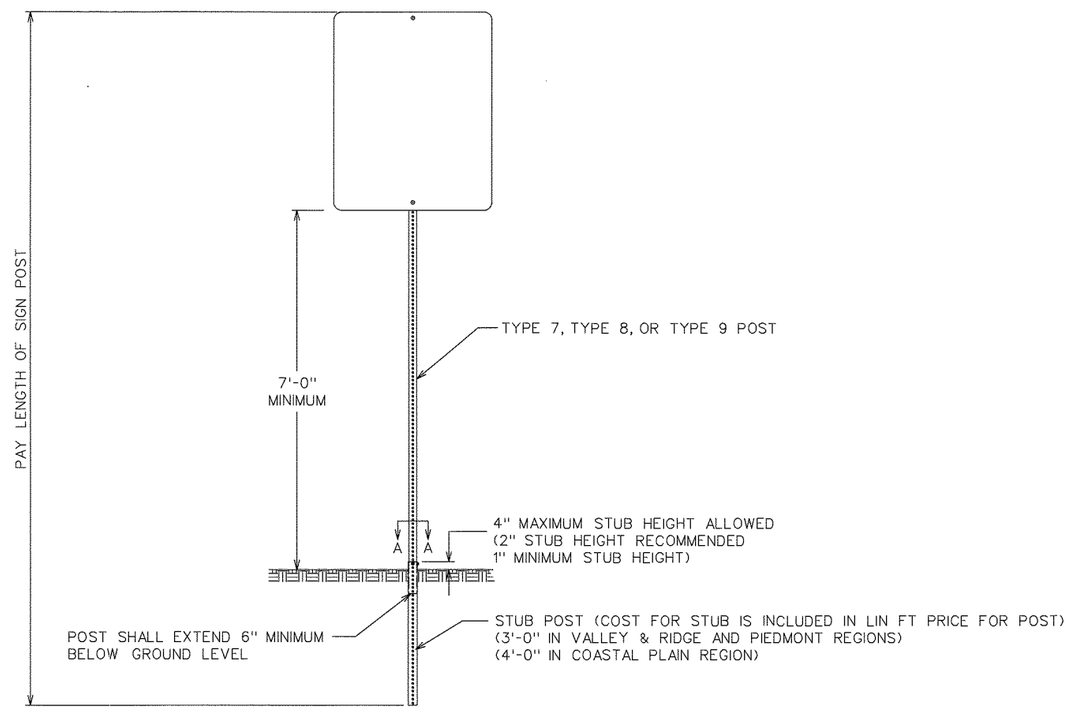
DETAILS FOR TYPICAL FRAMING

NO SCALE JANUARY 2000

PCBDTB

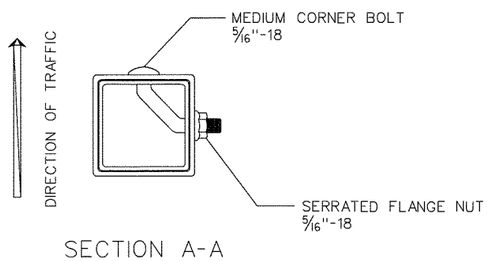
T-2

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			



FRONT VIEW

POST	STUB SIZE
TYPE 7	2¼" x 2¼"
TYPE 8	2¾" x 2¾"
TYPE 9	2½" x 2½"



SECTION A-A

SIGN POST SELECTION CHART

70 MPH Wind Load Chart + 15% Gust Factor

	SLIP BASE NOT REQUIRED				GROUND MOUNTED BREAKAWAY SIGN SUPPORT REQUIRED				
	TYPE 7 2" 14 ga.		TYPE 9 2-1/4" 14 ga	TYPE 8 2-1/2" 12 ga.	TYPE 8 2-1/2" 12 ga.		TYPE 8 w/TYPE 9 Insert* 2-1/2" 12 ga. W/2-1/4" 14 ga.		
Sign Centroid	1 Post	2 Post	1 Post	1 Post	2 Post	3 Post	1 Post	2 Post	3 Post
	SQUARE FOOTAGE				SQUARE FOOTAGE				
6'	13.50	27.00	19.25	30.00	60.00	90.00	49.25	98.50	147.75
7'	11.60	23.20	16.50	25.75	51.50	77.25	42.25	84.50	126.75
8'	10.15	20.30	14.45	22.55	45.10	67.65	37.00	74.00	111.00
9'	9.00	18.00	12.85	20.00	40.00	60.00	32.85	65.70	98.55
10'	8.10	16.20	11.55	18.00	36.00	54.00	29.55	59.10	88.65
11'	7.40	14.80	10.50	16.40	32.80	49.20	26.90	53.80	80.70
12'	6.80	13.60	9.65	15.00	30.00	45.00	24.65	49.30	73.95
13'	6.25	12.50	8.90	13.85	27.70	41.55	22.75	45.50	68.25
14'	5.80	11.60	8.25	12.90	25.80	38.70	21.15	42.30	63.45
15'	5.00	10.00	6.45	10.10	20.20	30.30	16.55	33.10	49.65
16'	4.70	9.40	6.05	9.45	18.90	28.35	15.50	31.00	46.50
17'	4.40	8.80	5.70	8.90	17.80	26.70	14.60	29.20	43.80
18'	4.15	8.30	5.40	8.40	16.80	25.20	13.80	27.60	41.40
19'	3.95	7.90	5.10	7.95	15.90	23.85	13.05	26.10	39.15
20'	3.75	7.50	4.85	7.55	15.10	22.65	12.40	24.80	37.20

SIGN CENTROID IS DISTANCE FROM GROUND LEVEL TO BOTTOM OF SIGN *PLUS* HALF THE HEIGHT OF SIGN.
EXAMPLE: 24" X 48" SIGN THAT IS 7 FEET FROM GROUND TO BOTTOM OF SIGN. ADD HALF OF 48" (24" OR 2 FT) *PLUS* 7 FT. = 9' CENTROID.

SIGN PLATE SHALL NOT EXCEED 48" IN WIDTH ON A SINGLE POST.

* TYPE 9 INSERT SHALL BE A CONTINOUS POST INSERTED INTO THE TYPE 8 POST WHERE REQUIRED. THE INSERT POST SHALL EXTEND FROM THE BOTTOM OF THE SLIP BASE UPPER ASSEMBLY TO 4" BELOW THE BOTTOM OF THE SIGN. THE INSERT POST SHALL NOT EXTEND ABOVE THE BOTTOM OF THE SIGN. PAYMENT FOR THE INSERT POST SHALL BE PER LINEAR FOOT OF TYPE 9 POST.

GROUND MOUNTED BREAKAWAY SIGN SUPPORT WILL BE MEASURED AND PAID FOR SEPARATELY. THE COST FOR THIS WORK SHALL INCLUDE THE UPPER AND LOWER ASSEMBLY, STUB POST, CLASS "A" CONCRETE, ALL HARDWARE NECESSARY TO COMPLETE THE INSTALLATION, AND BE INCLUDED IN THE BID PRICE SUBMITTED FOR ITEM 636-3010.

DATE	REVISIONS

GEORGIA DEPARTMENT OF TRANSPORTATION
OFFICE OF TRAFFIC SAFETY & DESIGN

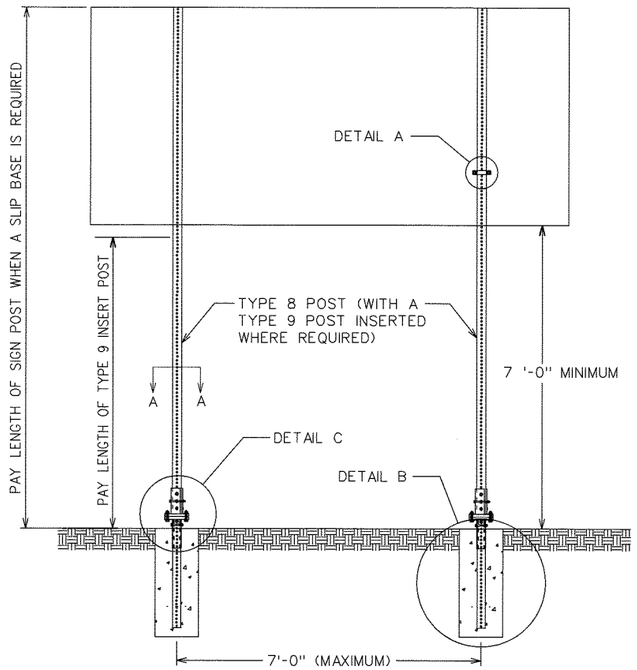
TYPE 7, 8, AND 9
SQUARE TUBE POST
INSTALLATION DETAIL

NO SCALE JULY 2002

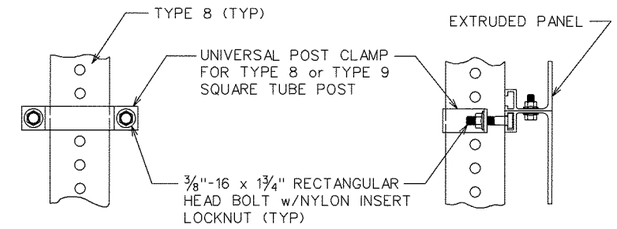
T-3A

PCBDTB

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

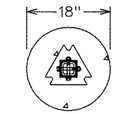


BACK VIEW

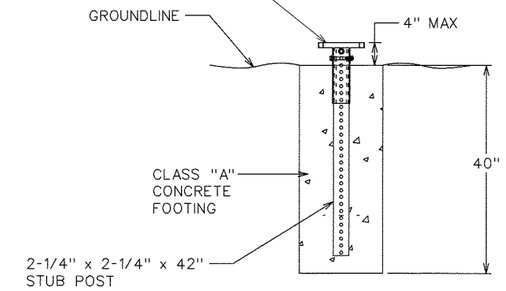


BACK VIEW SIDE VIEW

DETAIL A

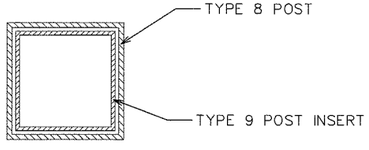


TOP VIEW



DETAIL B

GROUND MOUNTED BREAKAWAY SIGN SUPPORT



SECTION A-A

SIGN POST SELECTION CHART

70 MPH Wind Load Chart + 15% Gust Factor

	SLIP BASE NOT REQUIRED				GROUND MOUNTED BREAKAWAY SIGN SUPPORT REQUIRED				
	TYPE 7 2" 14 ga.		TYPE 9 2-1/4" 14 ga.	TYPE 8 2-1/2" 12 ga.	TYPE 8 2-1/2" 12 ga.		TYPE 8 w/TYPE 9 Insert* 2-1/2" 12 ga. W/2-1/4" 14 ga.		
Sign Centroid	1 Post	2 Post	1 Post	1 Post	2 Post	3 Post	1 Post	2 Post	3 Post
	SQUARE FOOTAGE				SQUARE FOOTAGE				
6'	13.50	27.00	19.25	30.00	60.00	90.00	49.25	98.50	147.75
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8'	10.15	20.30	14.45	22.55	45.10	67.65	37.00	74.00	111.00
9'	9.00	18.00	12.85	20.00	40.00	60.00	32.85	65.70	98.55
10'	8.10	16.20	11.55	18.00	36.00	54.00	29.55	59.10	88.65
11'	7.40	14.80	10.50	16.40	32.80	49.20	26.90	53.80	80.70
12'	6.80	13.60	9.65	15.00	30.00	45.00	24.65	49.30	73.95
13'	6.25	12.50	8.90	13.85	27.70	41.55	22.75	45.50	68.25
14'	5.80	11.60	8.25	12.90	25.80	38.70	21.15	42.30	63.45
15'	5.00	10.00	6.45	10.10	20.20	30.30	16.55	33.10	49.65
16'	4.70	9.40	6.05	9.45	18.90	28.35	15.50	31.00	46.50
17'	4.40	8.80	5.70	8.90	17.80	26.70	14.60	29.20	43.80
18'	4.15	8.30	5.40	8.40	16.80	25.20	13.80	27.60	41.40
19'	3.95	7.90	5.10	7.95	15.90	23.85	13.05	26.10	39.15
20'	3.75	7.50	4.85	7.55	15.10	22.65	12.40	24.80	37.20

SIGN CENTROID IS DISTANCE FROM GROUND LEVEL TO BOTTOM OF SIGN *PLUS* HALF THE HEIGHT OF SIGN.
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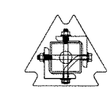
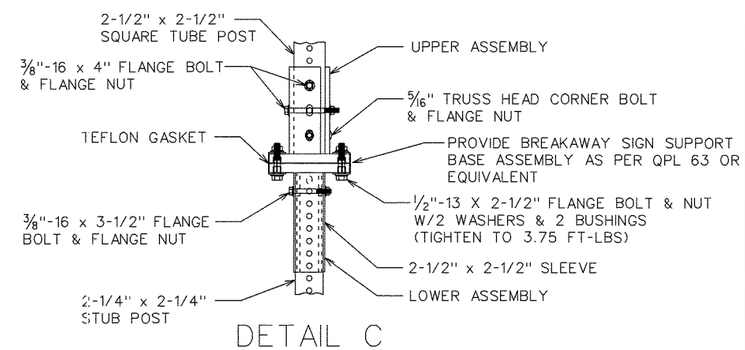


TOP VIEW



DETAIL C

(CONCRETE NOT SHOWN)

DATE	REVISIONS

GEORGIA DEPARTMENT OF TRANSPORTATION
OFFICE OF TRAFFIC SAFETY & DESIGN

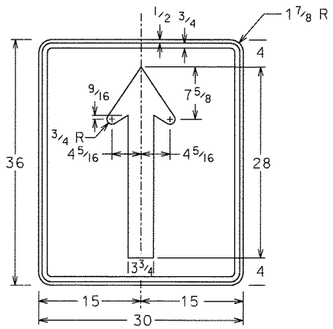
DETAILS OF
SQUARE TUBE POST
(BREAKAWAY SIGN SUPPORT)

NO SCALE July 2002

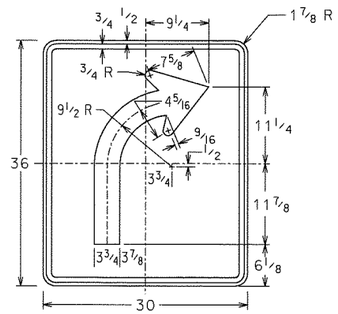
PC80T8

T-3B

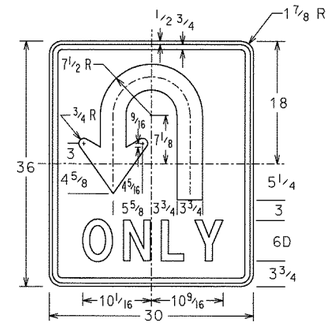
STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			



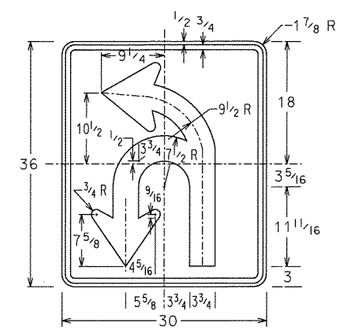
R3-5Ta



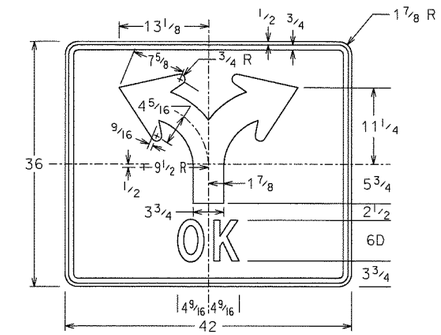
R3-5a



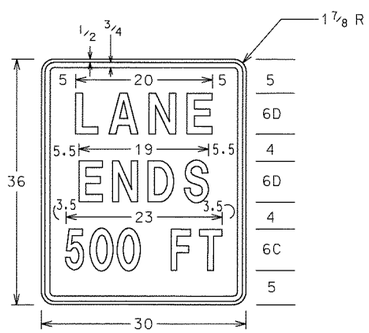
R553-5



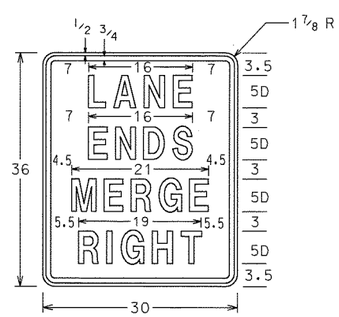
R553-6



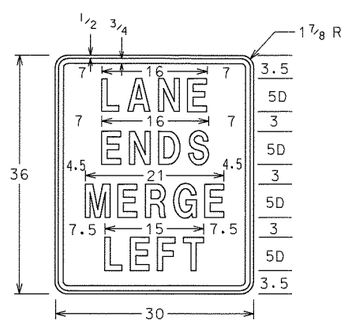
R553-8



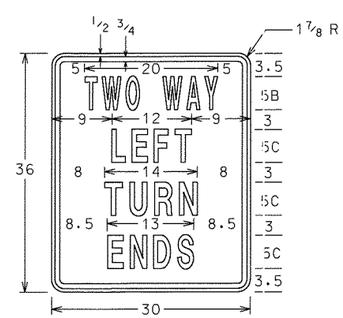
W559-1



W559-2R



W559-2L



W553-9

GENERAL NOTES:

1. R SIGNS SHALL HAVE WHITE REFLECTORIZED BACKGROUNDS WITH BLACK LEGENDS, BORDERS, AND SYMBOLS.
2. W SIGNS SHALL HAVE YELLOW REFLECTORIZED BACKGROUNDS WITH BLACK LEGENDS AND BORDERS.
3. ALL DIMENSIONS ARE IN INCHES.

DATE	REVISIONS

GEORGIA DEPARTMENT OF TRANSPORTATION
OFFICE OF TRAFFIC SAFETY & DESIGN

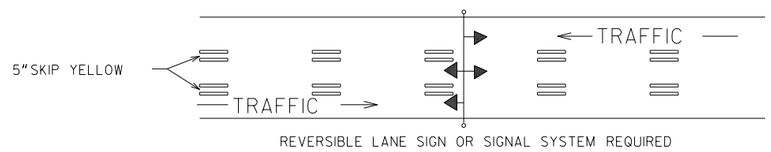
DETAILS OF OVERHEAD SIGNS

NO SCALE JANUARY 2000

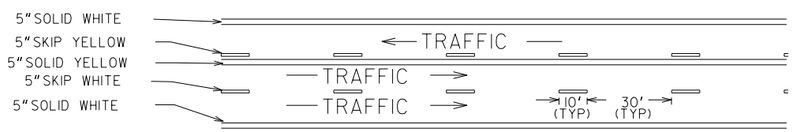
PCBDTB

T-6

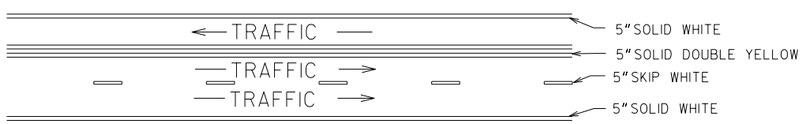
STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			



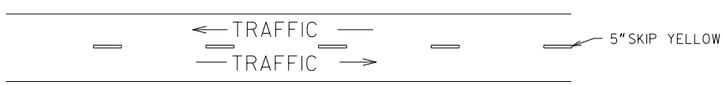
TWO-WAY TRAFFIC WITH A REVERSIBLE CENTER LANE



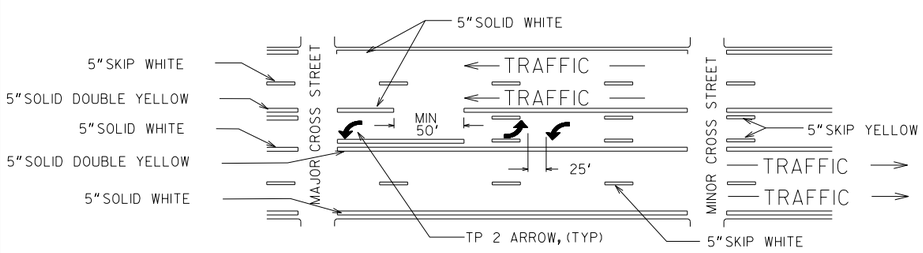
TWO-WAY TRAFFIC WHERE MOTORISTS IN A SINGLE LANE ARE PERMITTED TO PASS



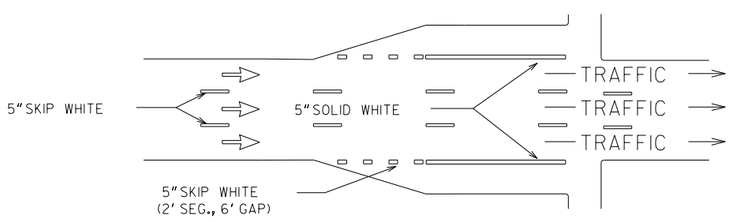
TWO-WAY TRAFFIC WHERE MOTORISTS IN A SINGLE LANE ARE NOT PERMITTED TO PASS



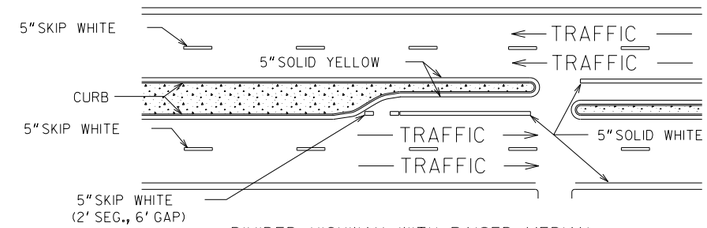
TWO-LANE, TWO-WAY TRAFFIC WITH PASSING PERMITTED



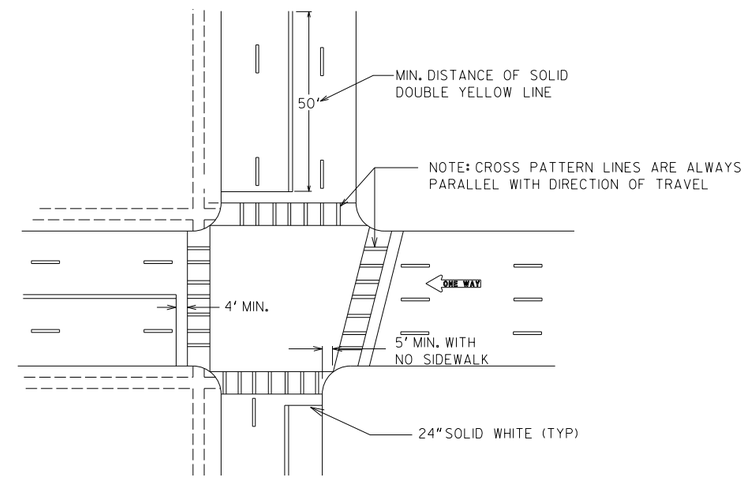
MULTI-LANE, TWO-WAY TRAFFIC WITH SINGLE LANE, TWO-WAY LEFT TURN CHANNELIZATION



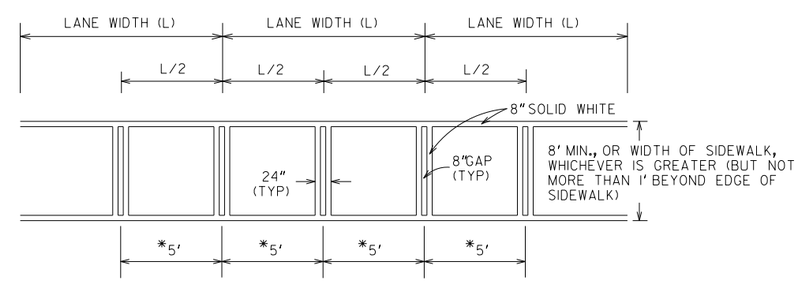
ONE-WAY TRAFFIC WITH ADDED TURN LANES



DIVIDED HIGHWAY WITH RAISED MEDIAN



TYPICAL LOCATION OF CROSSWALKS AND STOP BARS



*USE WHERE THE LANE WIDTH EXCEEDS 12' OR WHERE LANE LINES HAVE BEEN OMITTED

CROSSWALK DETAIL

GENERAL NOTES:

1. SPACING BETWEEEN DOUBLE LINES SHALL BE EQUAL TO THE LINE WIDTH.
2. EDGE LINES SHALL BE PLACED A MINIMUM OF 4 INCHES FROM THE NORMAL EDGE OF PAVEMENT.
3. CONTRAST MARKINGS FOR SKIP STRIPING SHALL BE AS SHOWN IN DETAIL T-11B.

REVISION	BY	DATE
ADDED GENERAL NOTE 3	CDR	9-15-16

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

CONSTRUCTION DETAILS

PAVEMENT MARKING PLACEMENT
NON-LIMITED ACCESS ROADWAY

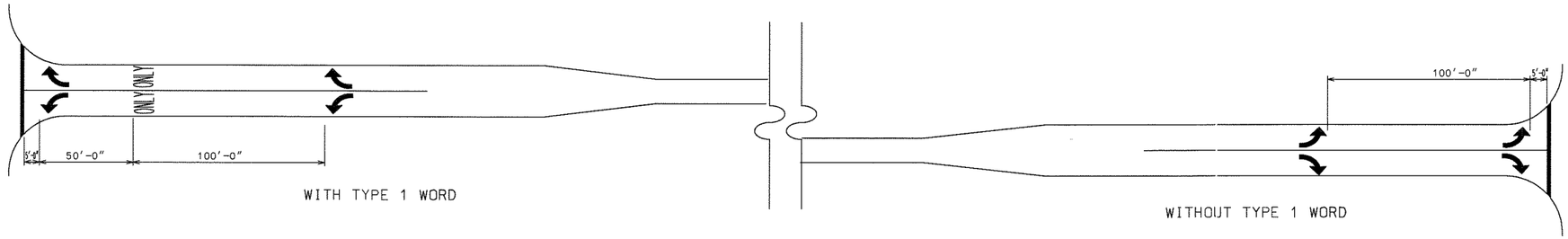
NO SCALE — JANUARY 2000

DESIGNED ____
DRAWN ____
TRACED ____
CHECKED ____

NUMBER T-11A

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

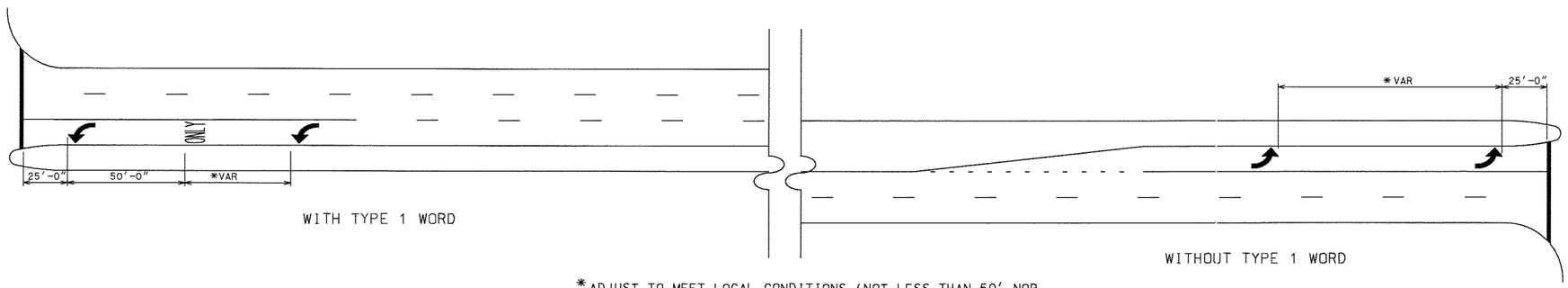
EXIT RAMPS



WITH TYPE 1 WORD

WITHOUT TYPE 1 WORD

SHORT TURN LANES

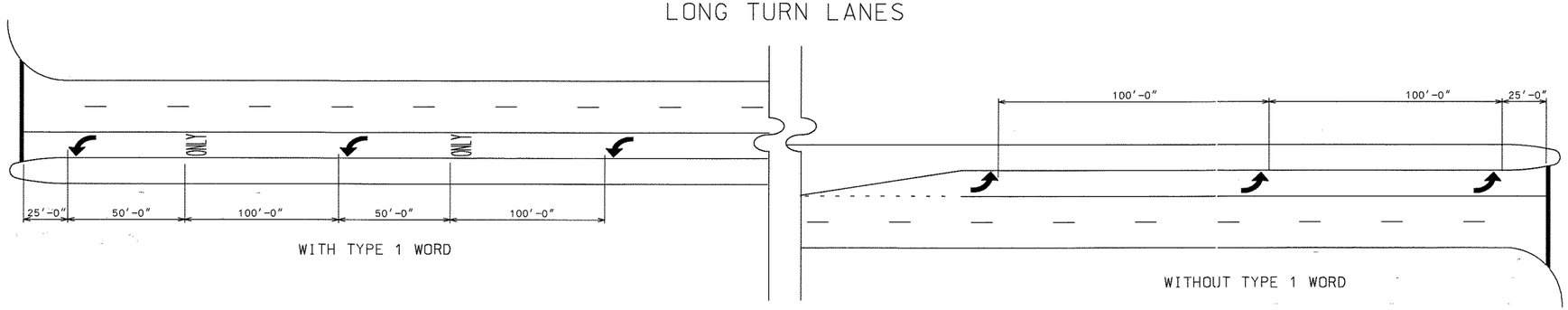


WITH TYPE 1 WORD

WITHOUT TYPE 1 WORD

*ADJUST TO MEET LOCAL CONDITIONS (NOT LESS THAN 50' NOR MORE THAN 100')

LONG TURN LANES



WITH TYPE 1 WORD

WITHOUT TYPE 1 WORD

GENERAL NOTES:

1. SPACING OF TYPE 2 ARROW IS REPRESENTATIVE OF SPACING FOR TYPE 1, TYPE 3, TYPE 4, & TYPE 5 ARROWS.
2. ALL TURNING LANES SHALL HAVE A MINIMUM OF 2 ARROWS.
3. GROUND MOUNTED OR OVERHEAD SIGNING SHALL BE SUPPLEMENTED BY TYPE 1 WORD.

DATE	REVISIONS

GEORGIA DEPARTMENT OF TRANSPORTATION
OFFICE OF TRAFFIC SAFETY & DESIGN

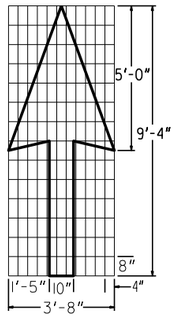
DETAILS OF PAVEMENT MARKING ARROW LOCATION

NO SCALE — JANUARY 2000

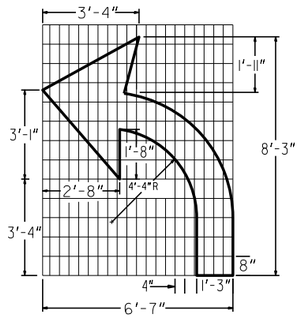
PCBOTB

T-12A

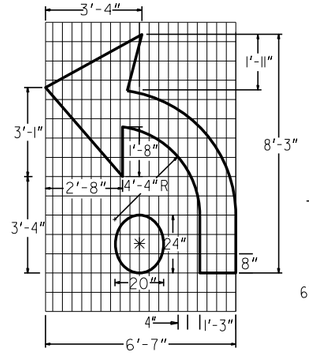
STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			



PAVEMENT MARKING, ARROW, TYPE 1
WHITE



PAVEMENT MARKING, ARROW, TYPE 2
WHITE



PAVEMENT MARKING, ARROW, TYPE 2A
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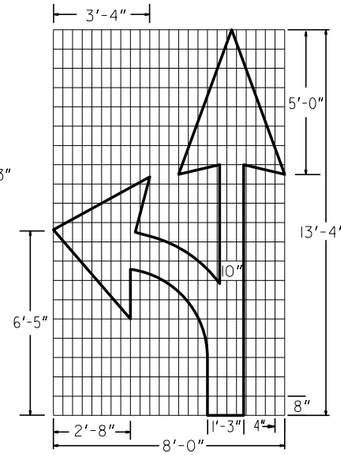
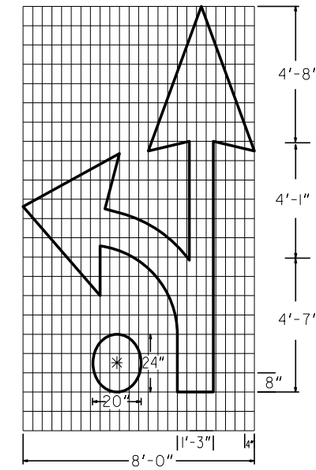
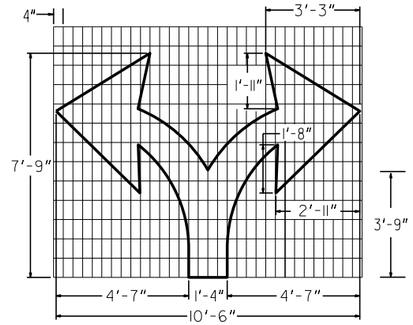


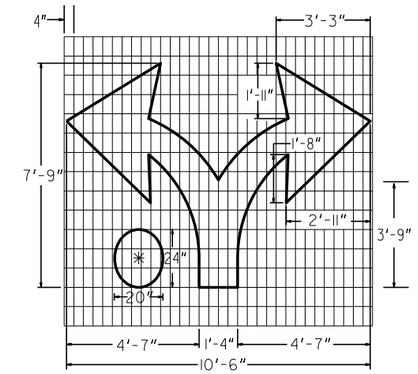
PAVEMENT MARKING, ARROW, TYPE 3
WHITE



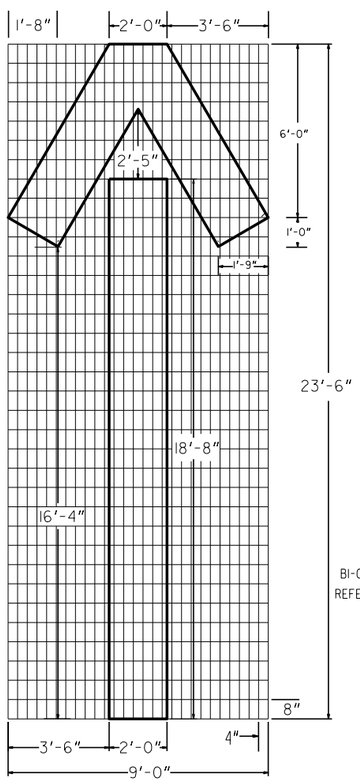
PAVEMENT MARKING, ARROW, TYPE 3A
WHITE



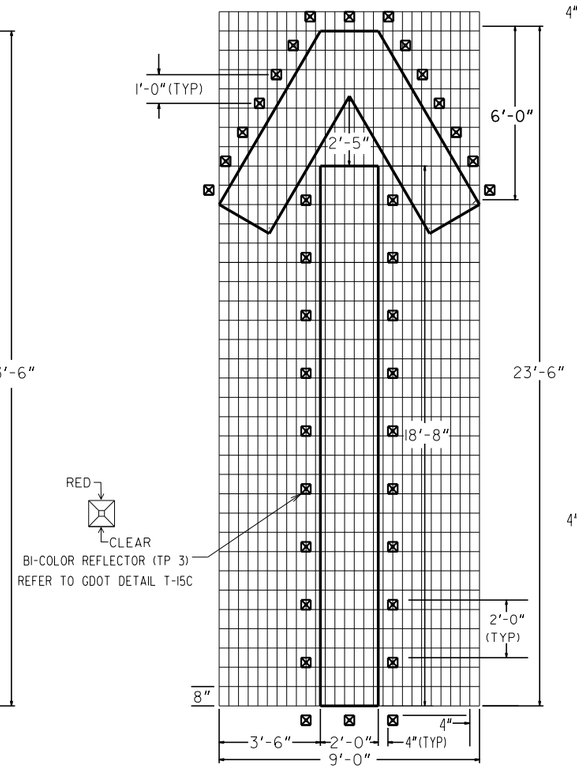
PAVEMENT MARKING, ARROW, TYPE 5
WHITE



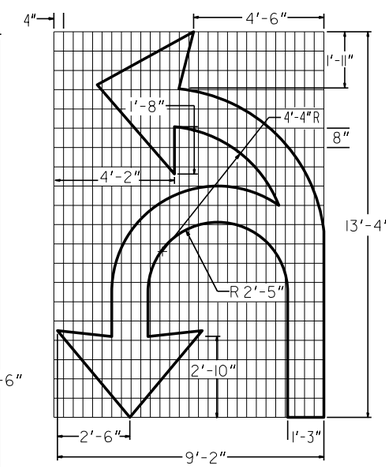
PAVEMENT MARKING, ARROW, TYPE 5A
WHITE



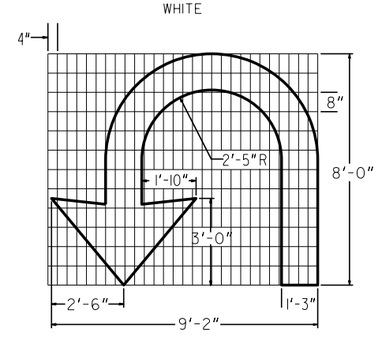
PAVEMENT MARKING, ARROW, TYPE 4
WHITE



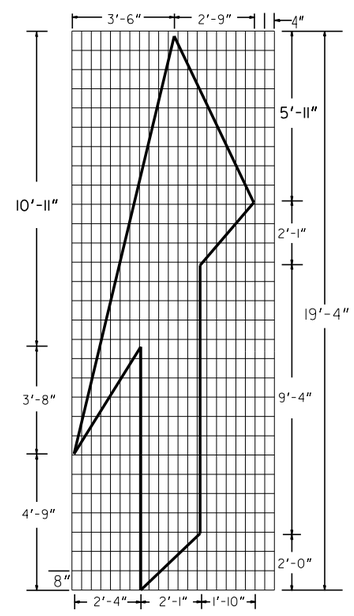
PAVEMENT MARKING, ARROW, WRONG WAY
WHITE



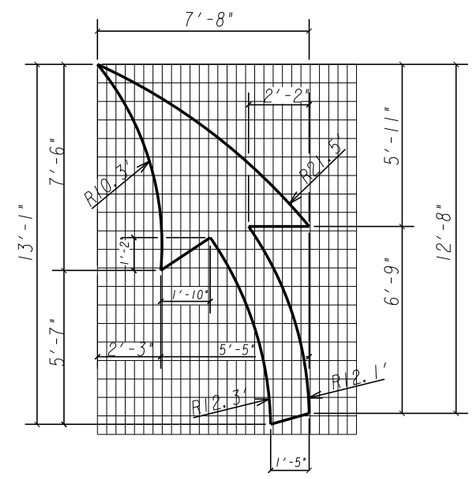
PAVEMENT MARKING, ARROW, TYPE 6
WHITE



PAVEMENT MARKING, ARROW, TYPE 7
WHITE



PAVEMENT MARKING, ARROW, TYPE 8
WHITE



PAVEMENT MARKING, ARROW, TYPE 9
WHITE (MINI ROUNDABOUTS)

NOTES
1. PAVEMENT MARKING ARROWS WITH A DOT (2A, 3A, 5A) SHALL BE USED ALONG MULTI-LANE ROUNDABOUT APPROACHES ALONG THE INSIDE LANE ONLY

REVISION	BY	DATE
ADDED TP 9 PAVEMENT MARKING ARROWS FOR MINI ROUNDABOUTS	ACP	11-04-20
ADDED PAVEMENT MARKING ARROW 5 FOR ROUNDABOUTS	ACP	05-30-19
CHANGED LOCATION OF RPM'S ON WRONG WAY ARROW	ACP	04-11-00

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

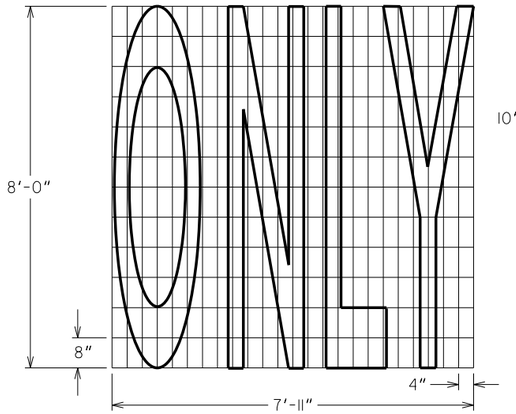
CONSTRUCTION DETAILS
PAVEMENT MARKINGS - ARROWS

NO SCALE
APRIL 2000

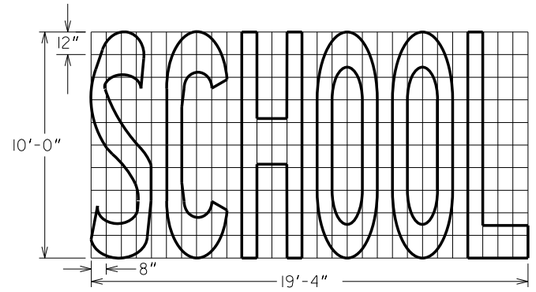
DESIGNED ____
DRAWN ____
TRACED ____
CHECKED ____

NUMBER
T-12B

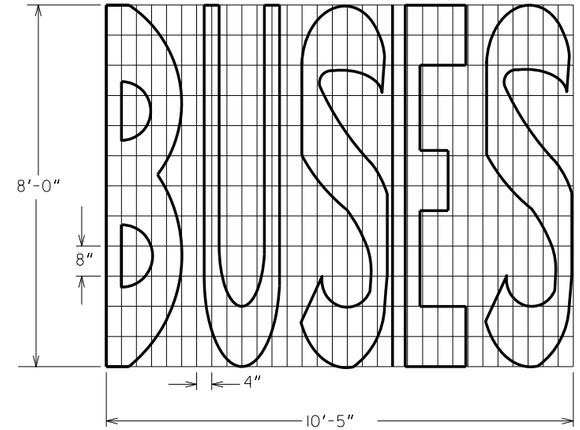
STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			



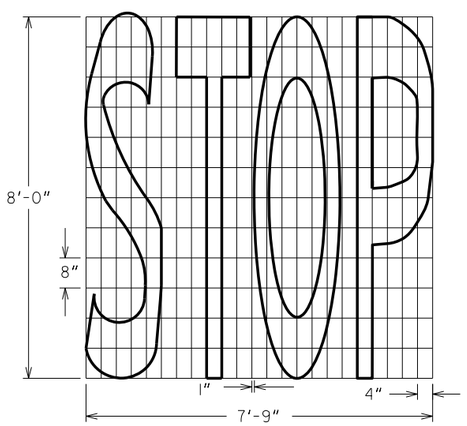
TYPE 1



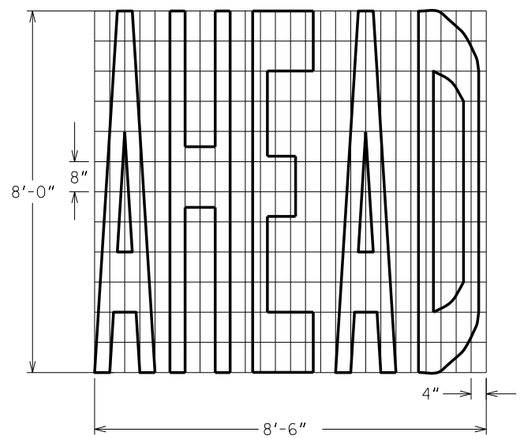
TYPE 3B
(TWO LANES)



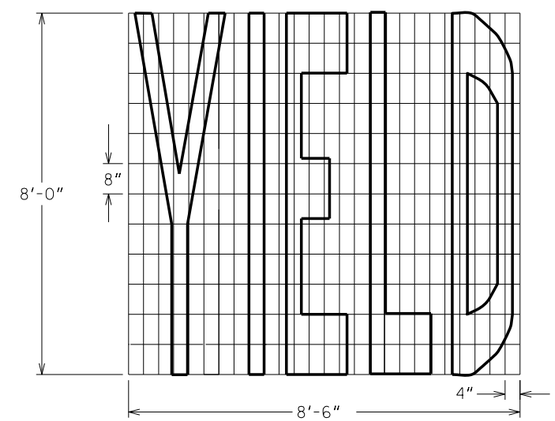
TYPE 6



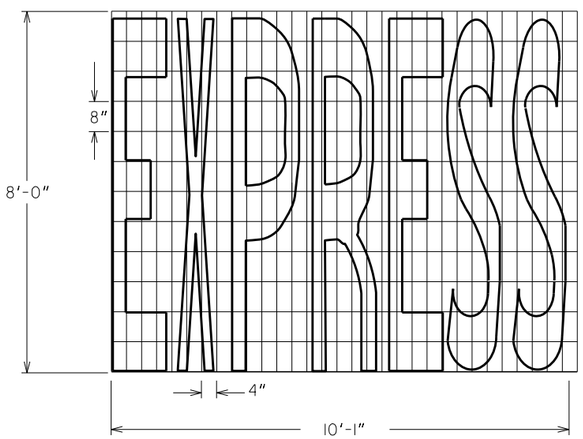
TYPE 2



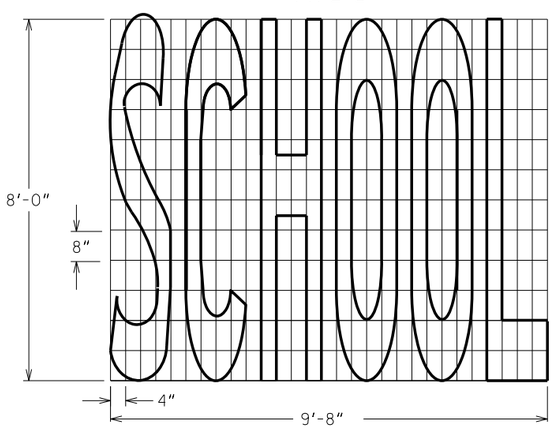
TYPE 4



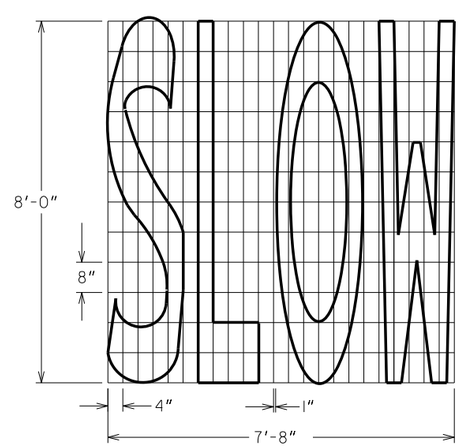
TYPE 15



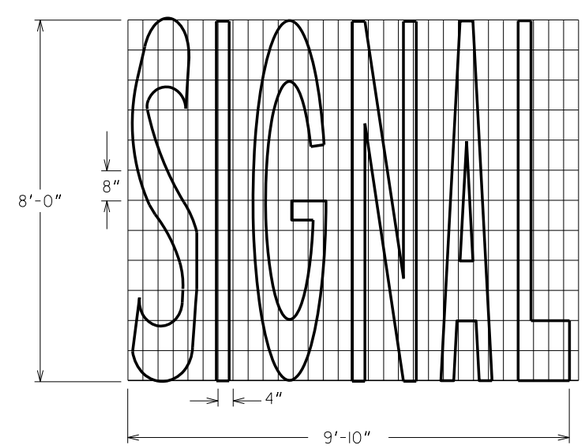
TYPE 20



TYPE 3A (SINGLE LANE)



TYPE 5



TYPE 16

ACP	11-04-20	BY	DATE
ADDED "EXPRESS" PAVEMENT MARKING	ADDED "SIGNAL" PAVEMENT MARKING	REVISION	

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

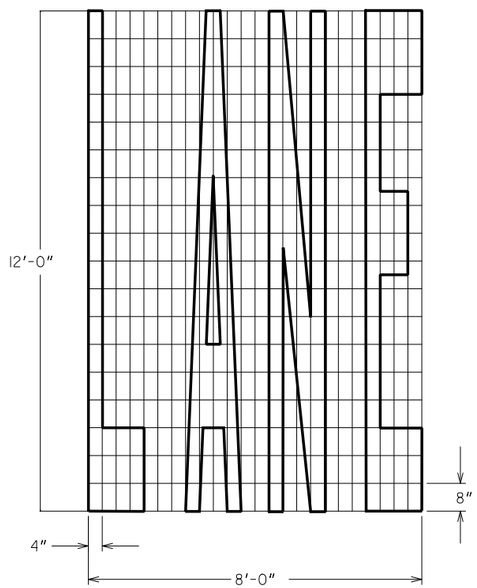
CONSTRUCTION DETAILS
PAVEMENT MARKINGS WORDS
SHEET 1 OF 2

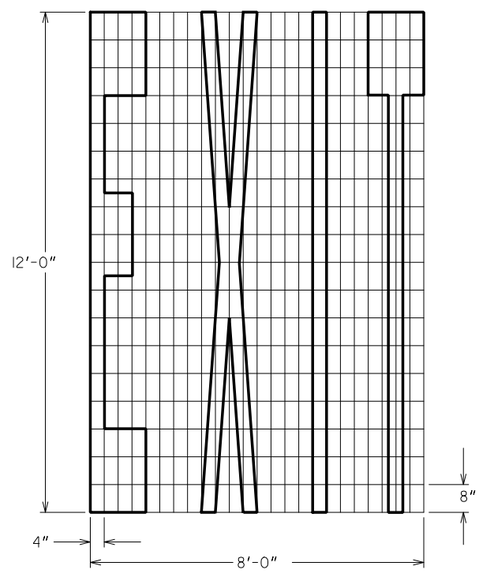
NO SCALE — JAN. 2000

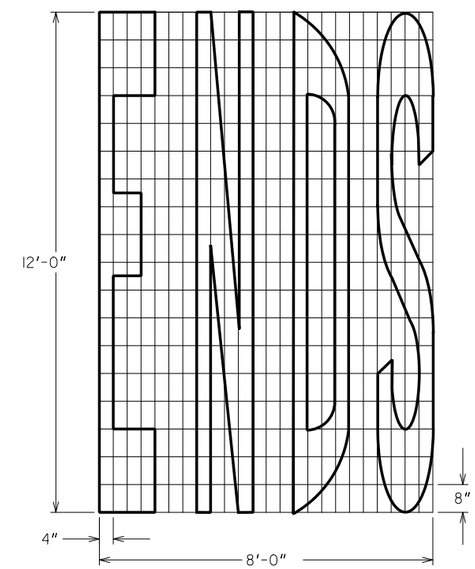
DESIGNED ____
DRAWN ____
TRACED ____
CHECKED ____

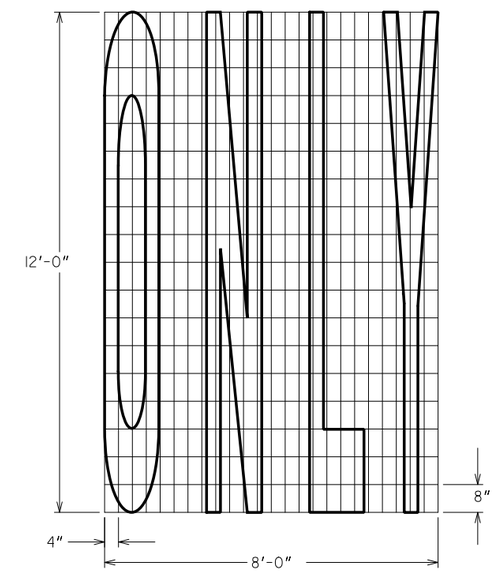
NUMBER T-13A

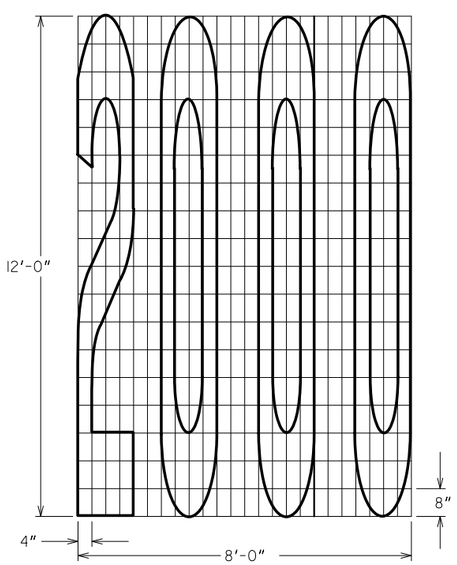
STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

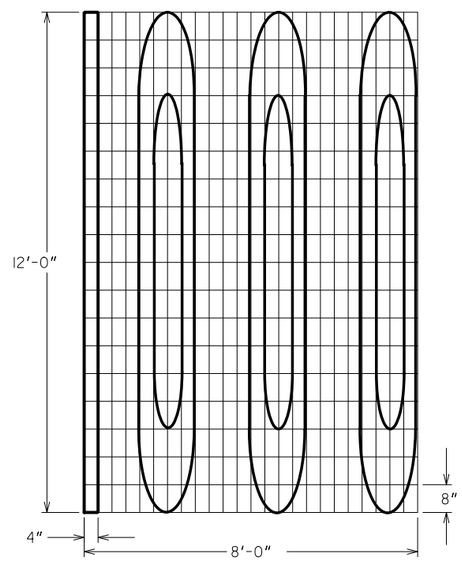


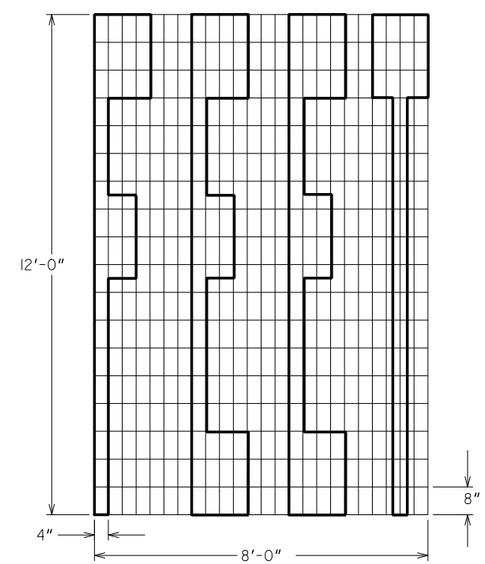












NOTE:
EACH OF THE PAVEMENT WORDS ON THIS DETAIL DEPICTS WORDS BASED ON A DESIGN SPEED OF 50-70 MPH. (A= 12 FT DISTANCE).

FOR DESIGN SPEEDS OF 35-45 MPH (A=8 FT DISTANCE), USE PAVEMENT WORDS WITH THE FOLLOWING DIMENSIONS: VERTICAL 8'-0" AND HORIZONTAL 5'-4".

SEE CONSTRUCTION DETAIL T-13C FOR SPEED LIMIT DISTANCE TABLE.

BY	REVISION	DATE
CDR	ADD PVMT WORD "ONLY"	9-15-16
	REM. (AREA .SF) PER WORD	
	ADD WORD DIM NOTE A=8 FT	
	RENUMBER TO SH 2 OF 3	

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

CONSTRUCTION DETAILS

DETAILS OF
PAVEMENT MARKING WORDS

NO SCALE

SHEET 2 OF 3

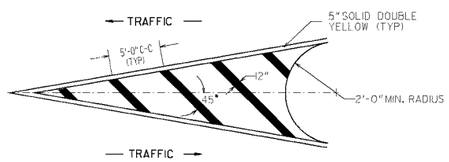
JANUARY 2000

DESIGNED ____
DRAWN ____
TRACED ____
CHECKED ____

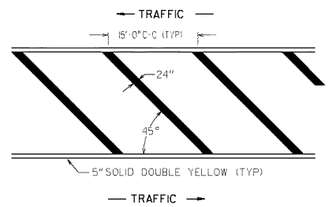
NUMBER
T-13B

COUNTY	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS

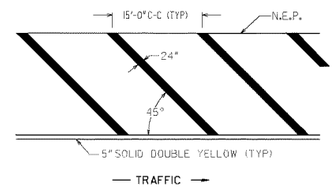
DETAIL "A" (YELLOW)



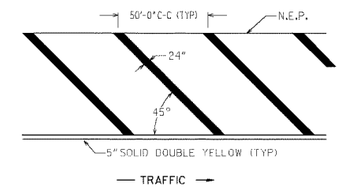
DETAIL "B" (YELLOW)



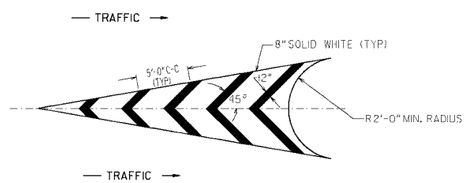
DETAIL "C" (YELLOW)



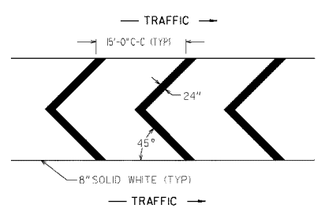
DETAIL "D" (YELLOW)



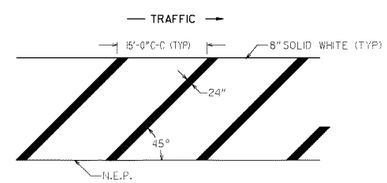
DETAIL "A" (WHITE)



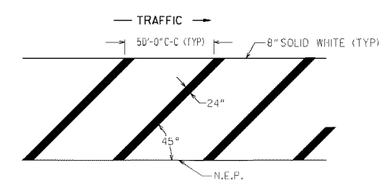
DETAIL "B" (WHITE)



DETAIL "C" (WHITE)



DETAIL "D" (WHITE)



GENERAL NOTES:

1. FOR YELLOW STRIPING, THE SQUARE YARDS SHOWN ON PLAN, SUMMARY AND DETAILED ESTIMATE SHEETS INCLUDE THE AREA WITHIN THE BORDERS AND THE 5" SOLID DOUBLE YELLOW BORDER.
2. FOR WHITE STRIPING, THE SQUARE YARDS SHOWN ON PLAN, SUMMARY AND DETAILED ESTIMATE SHEETS INCLUDES THE AREA WITHIN THE BORDERS AS WELL AS THE 8" SOLID WHITE BORDER.

GEORGIA
DEPARTMENT OF TRANSPORTATION

- NO SCALE -

DATE	REVISIONS
6/25/04	Modified general note 1
1/18/05	CHANGED BORDER
11/21/08	Modified general note 1

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: TRAFFIC OPERATIONS
SIGNING AND MARKING PLANS

T-14

DETAIL OF PAVEMENT MARKING HATCHING

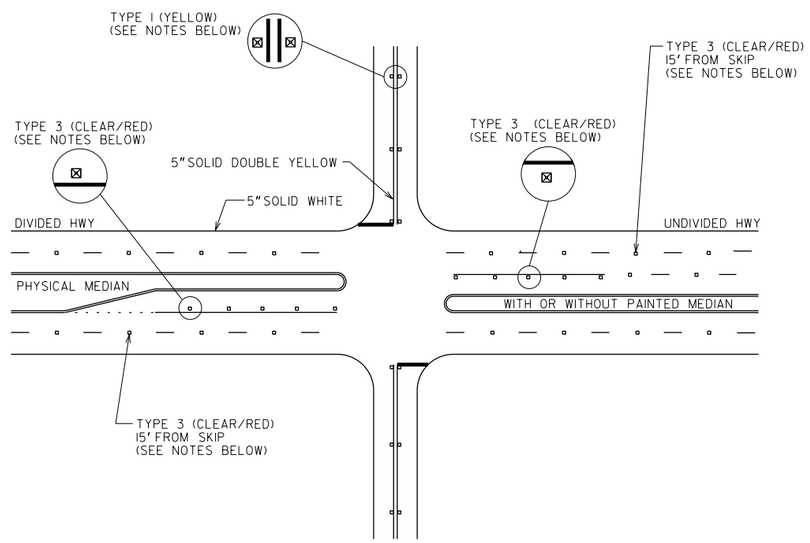
JANUARY 2000

NUMBER T -14

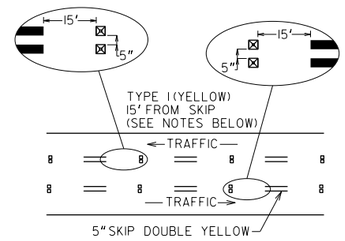
...IT1-HMATCHING2.DGN 12/11/2008 1:27:13 PM jaleeb0

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

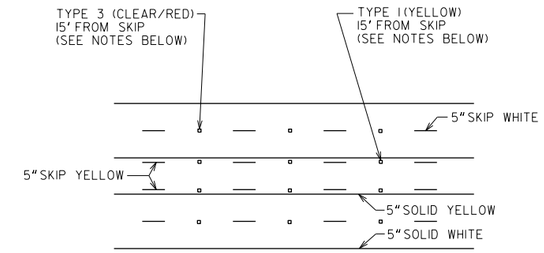
DIVIDED / UNDIVIDED HIGHWAY



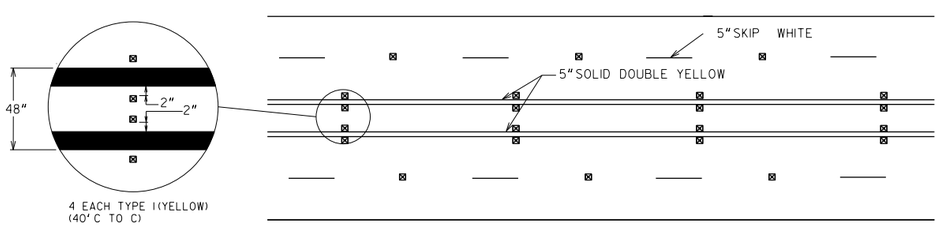
REVERSIBLE LANE



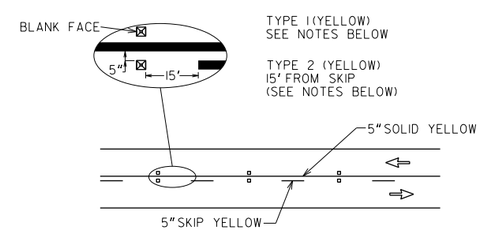
TWO WAY LEFT TURN LANE



4'-0" STRIPED FLUSH MEDIAN



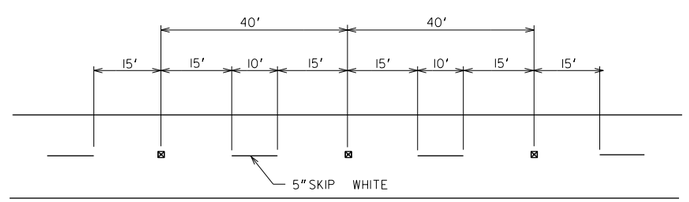
NO PASSING ZONE



GENERAL NOTES:

1. RAISED PAVEMENT MARKERS SHALL BE SPACED EVERY 40 FT UNLESS OTHERWISE SPECIFIED.
2. ON SOLID WHITE TURN BAY LINES, SPACING SHALL BE 20 FT.
3. RAISED PAVEMENT MARKERS SHALL BE OFFSET 5 INCHES FROM SOLID LANE LINES.
4. CLEAR FACE OF TYPE 3 RAISED PAVEMENT MARKERS SHALL BE ORIENTED TOWARD ONCOMING TRAFFIC.

TYPICAL RPM/STRIPE SPACING

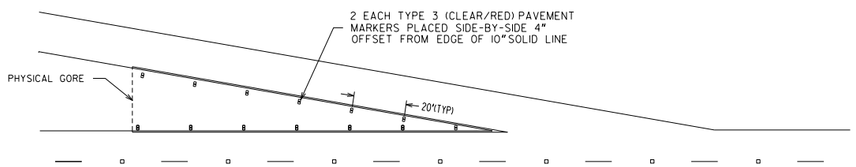


REV. RPM SPACING TO 40'	9-15-2016	DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA	
REVISION	DATE	CONSTRUCTION DETAILS RAISED PAVEMENT MARKER LOCATION NON-LIMITED ACCESS ROADWAY	
		NO SCALE	REV. AND REDRAWN, JUNE 2015
CDR	BY	DESIGNED ____ DRAWN ____ TRACED ____ CHECKED ____	NUMBER T-15A

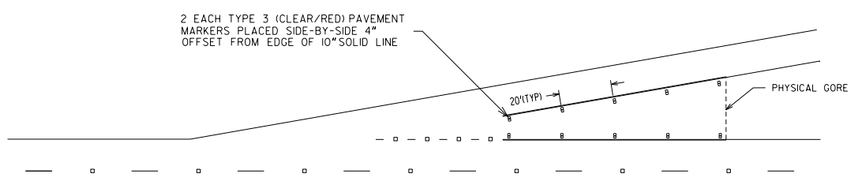
STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

GORE AREA RPM SPACING

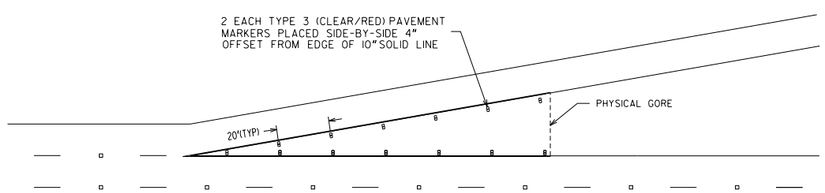
EXIT RAMP

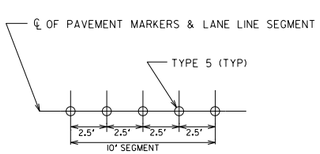


ENTRANCE RAMP



FREE-FLOW RAMP

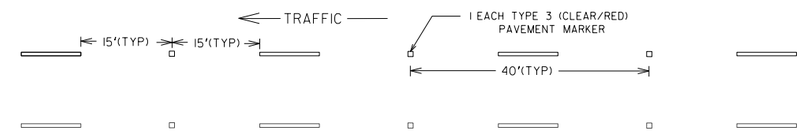




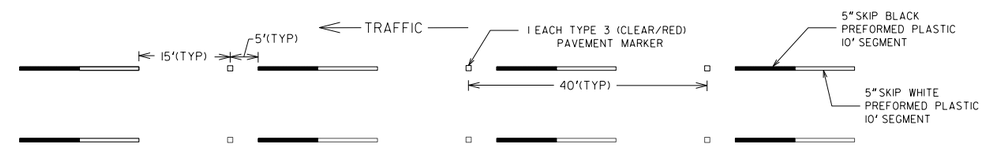
ALTERNATE PAVEMENT MARKER INSTALLATION
(USE ON ALL LANE LINES WHEN LANE LINES CROSS LONGITUDINAL CONCRETE PAVEMENT JOINTS)

MAINLINE RPM SPACING

SKIP WHITE 10' SEGMENT (30' GAP)



SKIP WHITE W/ CONTRAST 20' SEGMENT (20' GAP)



SKIP WHITE 3' SEGMENT (9' GAP)

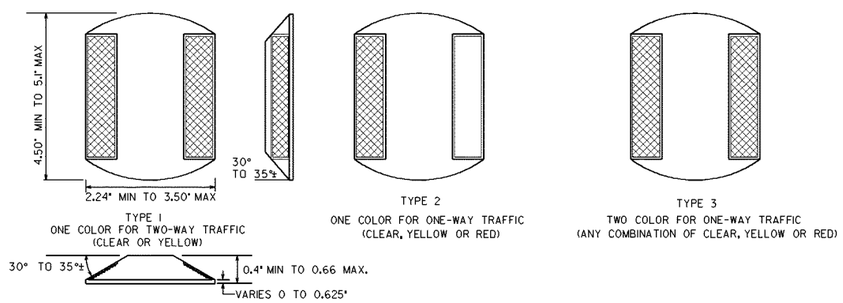
SKIP WHITE W/ CONTRAST 6' SEGMENT (6' GAP)

GENERAL NOTES:

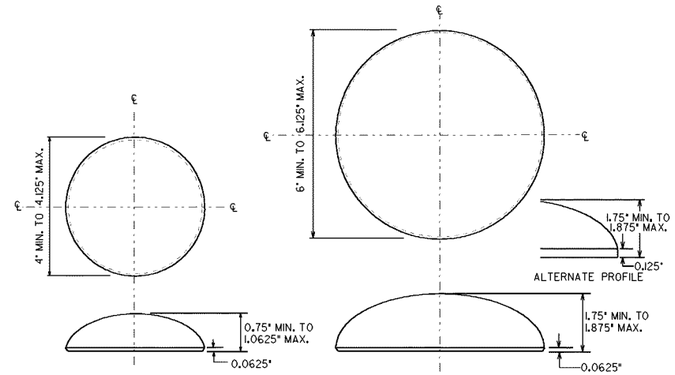
1. FOR SPECIFICATIONS REFER TO STANDARD SPECIFICATIONS; SECTION 654-RAISED PAVEMENT MARKERS.
2. CENTERLINE OF TYPE 3 RAISED PAVEMENT MARKERS SHALL COINCIDE WITH CENTERLINE OF MARKINGS.
3. CLEAR FACE OF TYPE 3 RAISED PAVEMENT MARKERS SHALL BE ORIENTED TOWARD APPROACHING TRAFFIC.

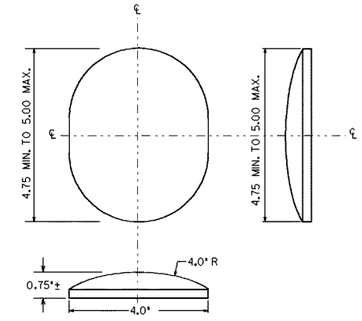
		9-15-2016	DATE	DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA
		REDRAWN	REVISION	CONSTRUCTION DETAILS RAISED PAVEMENT MARKER LOCATION LIMITED ACCESS ROADWAY NO SCALE — JANUARY 2000
		CDR	BY	DESIGNED ____ DRAWN ____ TRACED ____ CHECKED ____ — NUMBER T-15B

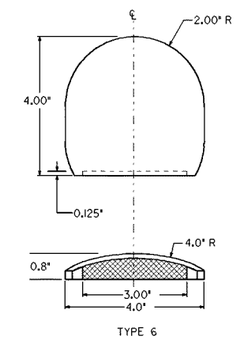
STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

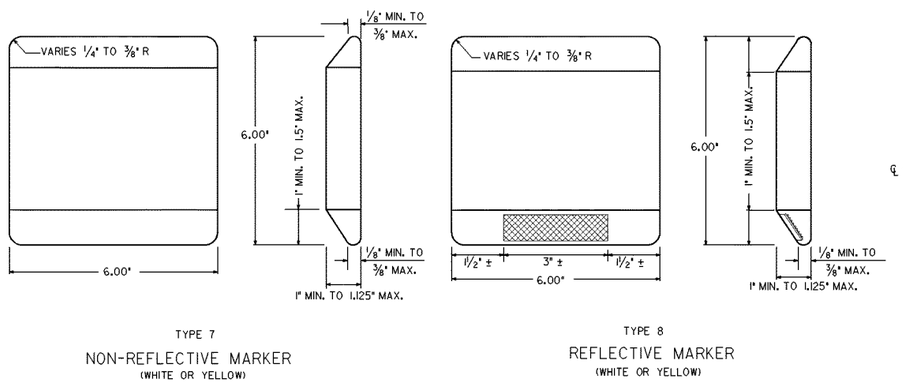


RAISED REFLECTIVE MARKERS

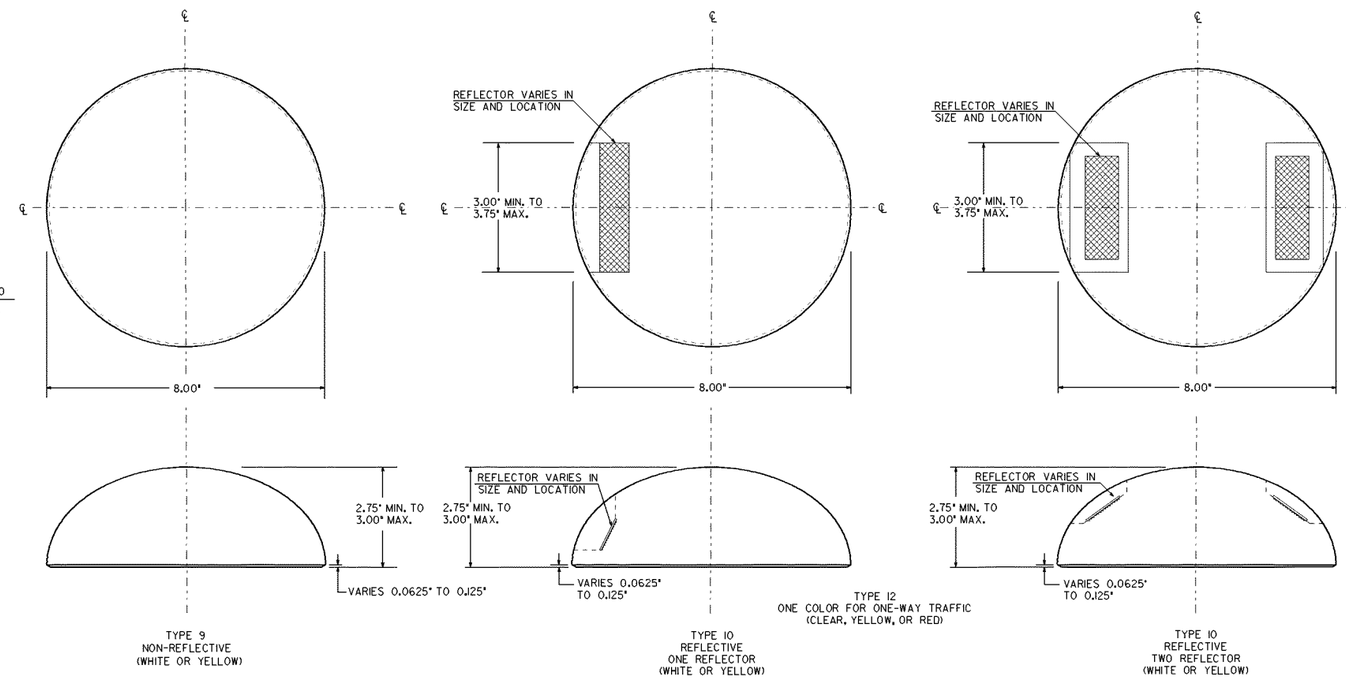




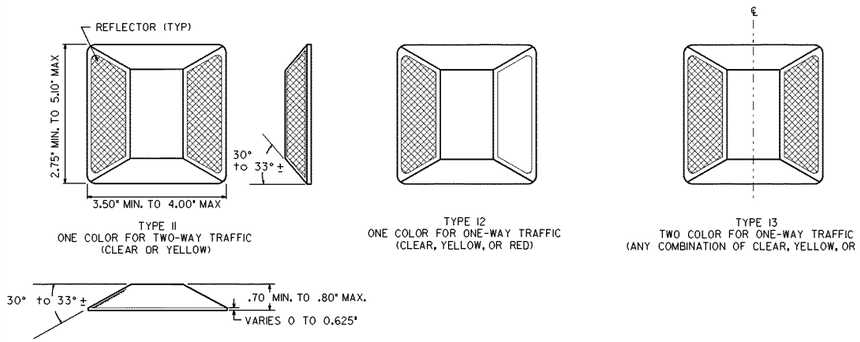




CERAMIC JIGGLE BAR MARKER



CERAMIC CHANNEL MARKER



ALTERNATE RAISED REFLECTIVE MARKERS

GENERAL NOTES:

1. SPECIFICATIONS: GEORGIA STANDARD, CURRENT EDITION, AND SUPPLEMENTS THERE TO.
2. THE CONTRACTOR SHALL USE RAISED PAVEMNT MAKER SOURCES AS LISTED IN OPL 76.
3. COLORS FOR REFLECTIVE ELEMENTS SHALL BE EITHER CLEAR, YELLOW, OR RED AS SPECIFIED.
4. THE SHELL OF THE REFLECTIVE MARKERS SHALL BE OF ONE COLOR OR OF A COMBINATION OF TWO COLORS, WHICH SHALL BE THE SAME AS THE REFLECTIVE ELEMENT.
5. THE SURFACE OF OPAQUE CERAMIC MARKERS SHALL BE GLAZED AND OF THE COLOR SPECIFIED IN THE PLANS WITH A WHITE, VITREOUS, CERAMIC BASE.
6. COLORS FOR ALL RAISED PAVEMENT MARKERS SHALL BE AS SPECIFIED IN THE PLANS.

DATE	REVISIONS
9-22-11	REV. DIMENSIONS, ADDED
	NOTES TO MARKERS
	AND REV. GEN. NOTES.

GEORGIA DEPARTMENT OF TRANSPORTATION
OFFICE OF TRAFFIC SAFETY & DESIGN

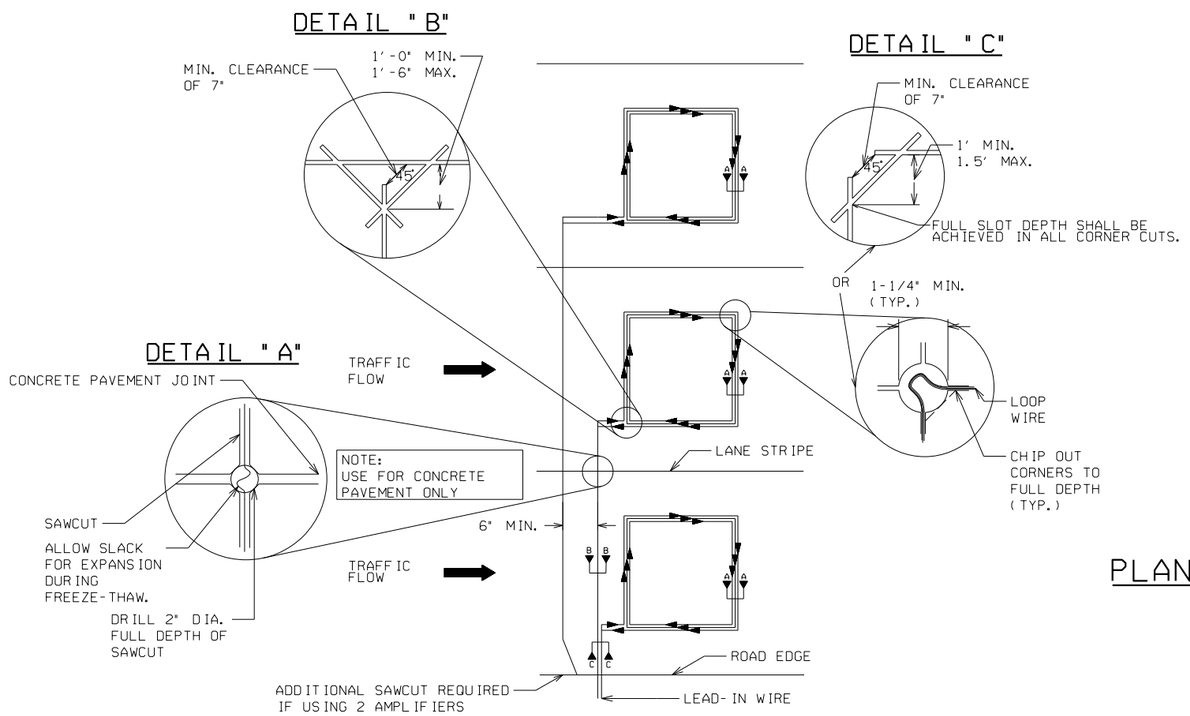
DETAILS OF RAISED PAVEMENT MARKERS

NO SCALE — JANUARY 2000

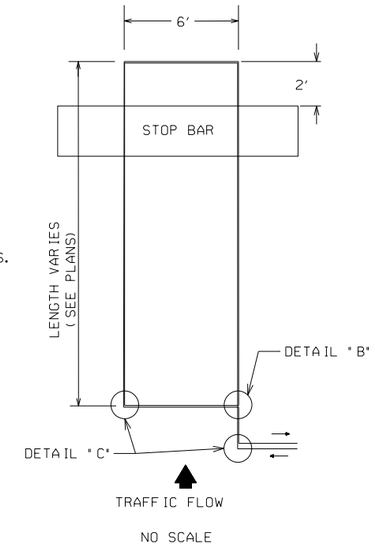
PCRASH

PCBDTB

T-15C



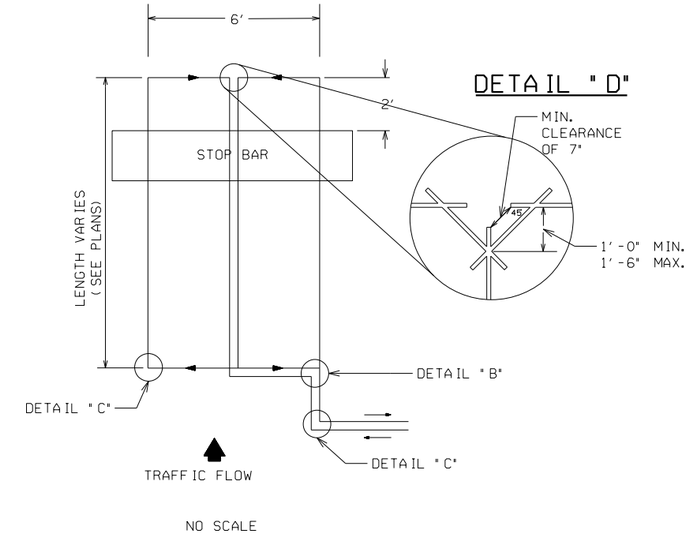
PLAN VIEW OF STANDARD LOOP SAW CUTS



PLAN VIEW OF DIPOLE LOOP

LOOP WIRE CONFIGURATION

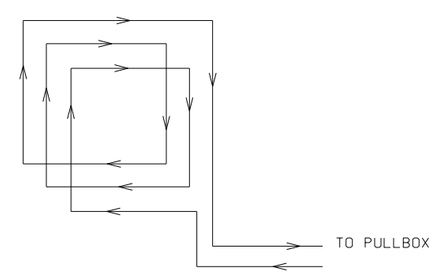
THE DOUBLE LAYER CONFIGURATION (2-2) SHOWN IS A MINIMUM DESIGN. FOR NORMAL INSTALLATIONS WHEN REQUIRED BY THE PLANS.



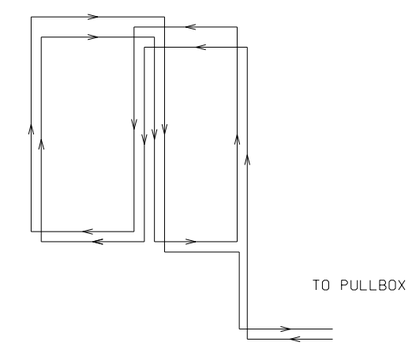
PLAN VIEW OF QUADRUPOLE

LOOP WIRE CONFIGURATION

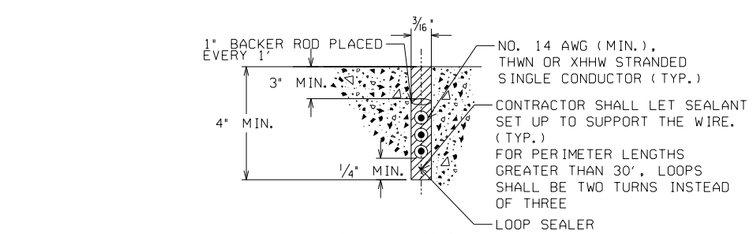
THE DOUBLE LAYER CONFIGURATION (2-4-2) SHOWN IS A MINIMUM DESIGN. FOR NORMAL INSTALLATIONS WHEN REQUIRED BY THE PLANS.



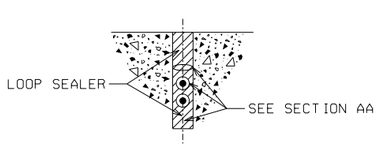
DIPOLE LOOP WIRE PLAN



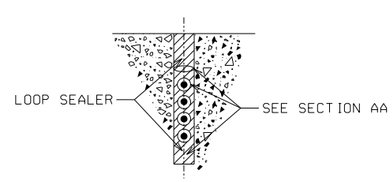
QUADRUPOLE LOOP WIRE PLAN



SECTION AA



SECTION BB



SECTION CC

GENERAL NOTES:

1. INDUCTANCE LOOPS SHALL NOT BE INSTALLED IN A BRIDGE DECK. LOOPS MAY BE INSTALLED IN A BRIDGE APPROACH SLAB.
2. NO INDUCTANCE LOOP LEADS THROUGH TURNING RADIUS AT INTERSECTION.
3. INDUCTANCE LOOPS SHALL BE WOUND IN OPPOSITE DIRECTIONS IN ADJACENT LANES.
4. INDUCTANCE LOOPS SHALL NOT CROSS PAVEMENT TYPES (ASPHALT TO CONCRETE).

DATE	REVISION	BY

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

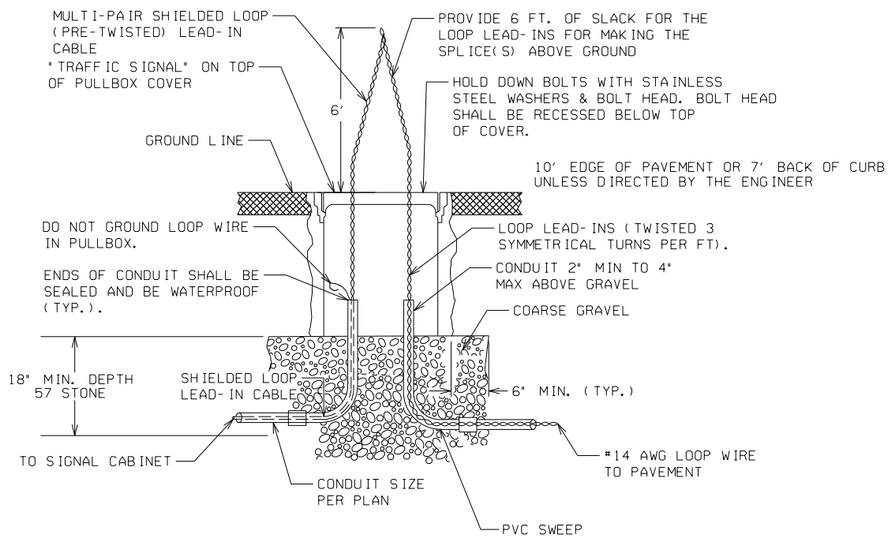
CONSTRUCTION DETAIL

INDUCTIVE LOOP DETECTOR INSTALLATION

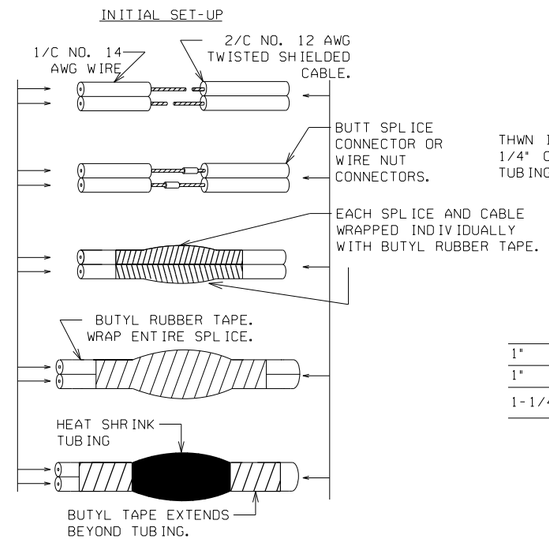
NOVEMBER 2020
NO SCALE

NUMBER TS-01A

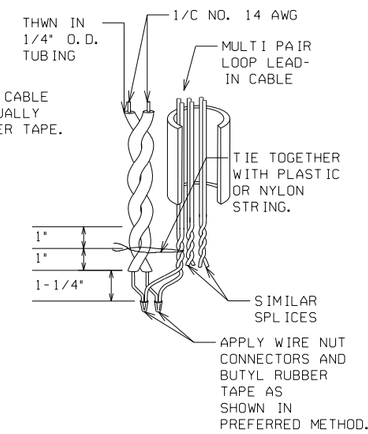
TYPICAL CONDUIT ENTRANCE DETAILS
TYPE 1, 2, 3, 4S, & 5S PULLBOX



SPLICE DETAILS

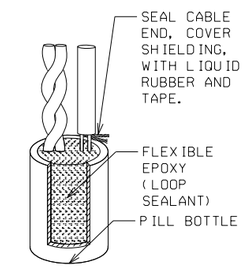


FINISHED SPLICE (PREFERRED METHOD)



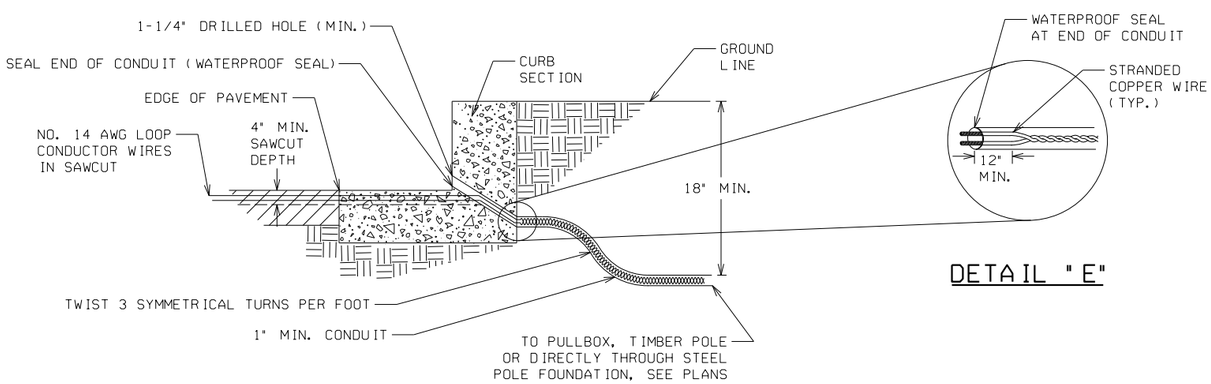
SPLICE ALTERNATE #1

NOTE:
FINISHED SPLICES MUST BE WATERPROOF



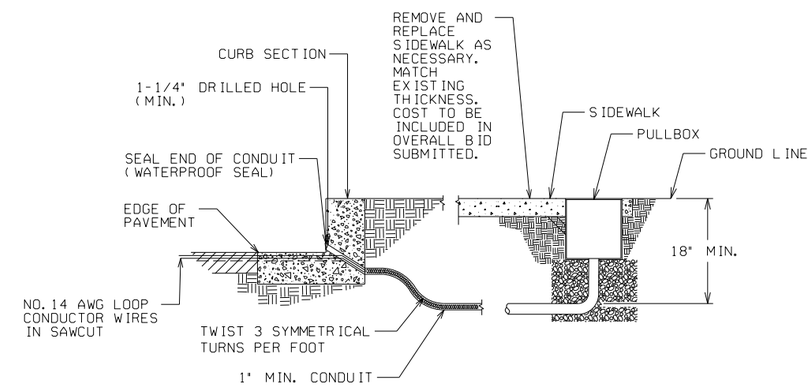
SPLICE ALTERNATE #2

EDGE OF PAVEMENT DETAILS

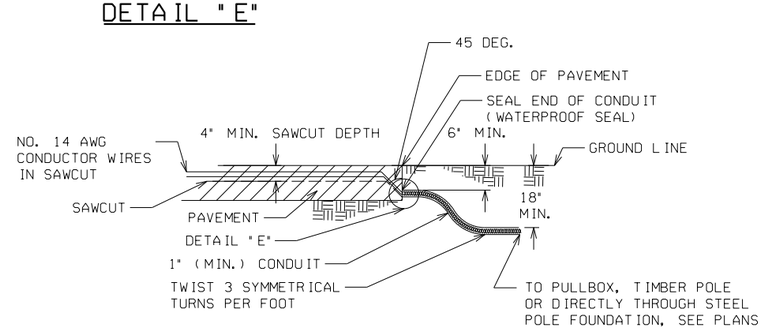


TYPICAL CURB DETAIL (WITHOUT SIDEWALK)

DETAIL "E"

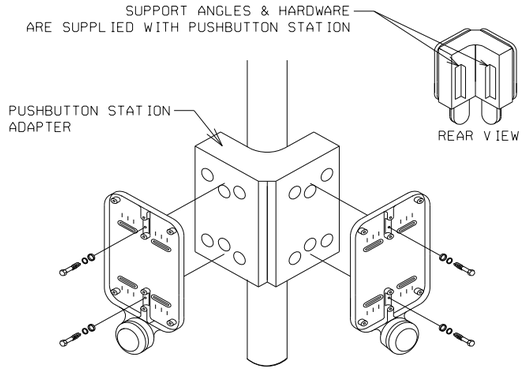


TYPICAL CURB DETAIL (WITH SIDEWALK)

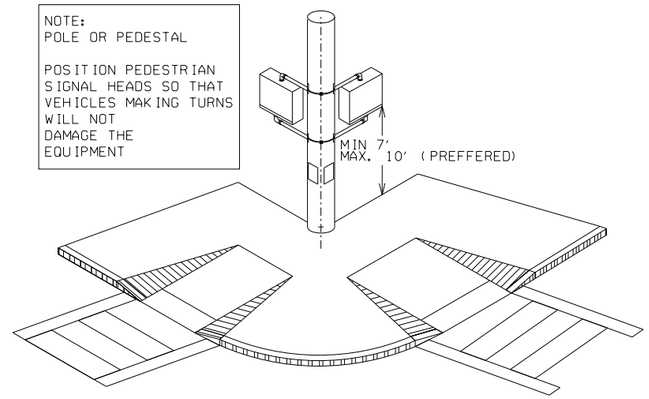


DETAIL WHERE NO CURB EXISTS

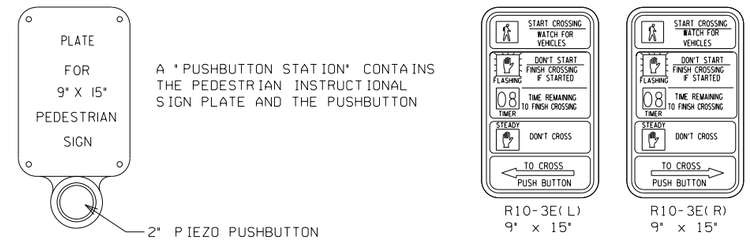
					DATE	DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA
					REVISION	CONSTRUCTION DETAIL INDUCTIVE LOOP DETECTOR INSTALLATION
					BY	NOVEMBER 2020 NO SCALE
						NUMBER TS-01B



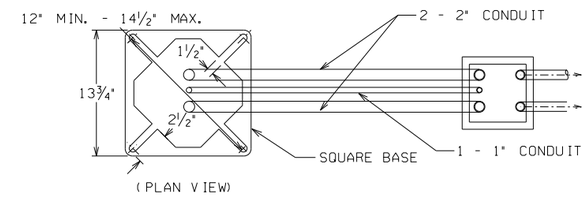
DOUBLE PUSHBUTTON STATION ADAPTER
FOR 4" DIA. PEDESTRIAN PEDESTAL



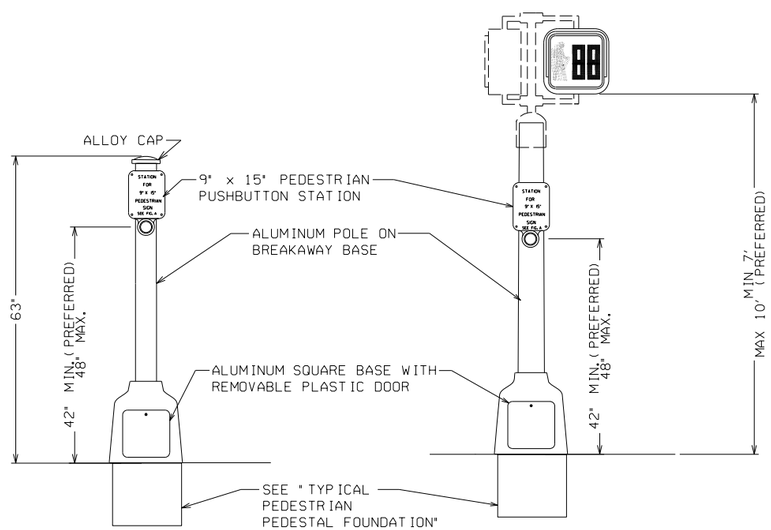
PEDESTRIAN SIGNAL HEAD ORIENTATION
FOR SIDE OF POLE MOUNTING



PEDESTRIAN PUSHBUTTON STATION AND SIGNS

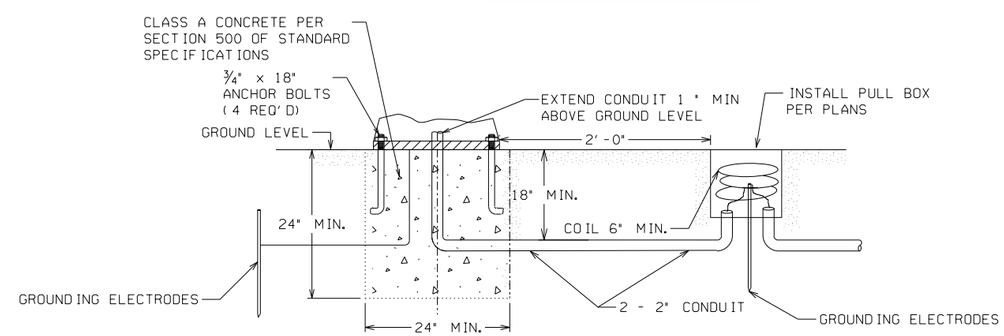


CROSS SECTION A-A



PEDESTRIAN
PUSHBUTTON POST

PEDESTRIAN
SIGNAL PEDESTAL



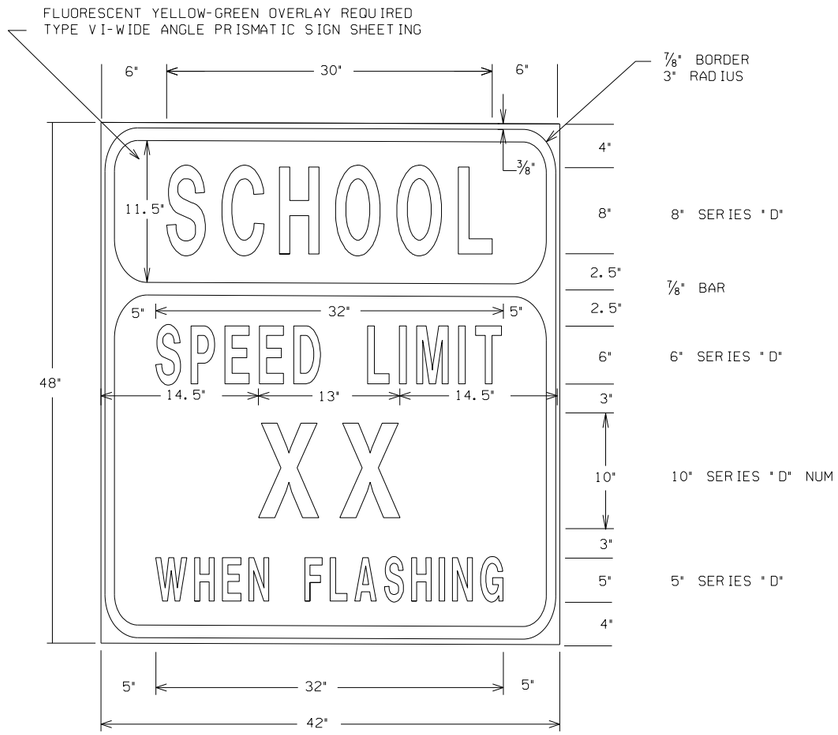
TYPICAL PEDESTRIAN
PEDESTAL FOUNDATION

NOTE: SEE TS-06
FOR GROUNDING
DETAILS

NOTE:
DETAILS SHOWN ARE FOR TOP POST MOUNTING ASSEMBLY ON 10' PEDESTRIAN POLE.
A CLAMSHELL MOUNTING ASSEMBLY (NOT SHOWN) MAY BE USED AS APPROVED BY THE DEPARTMENT.
THE CLAMSHELL MOUNTING HARDWARE ASSEMBLY SHALL MEET THE SAME GDOT STANDARDS AS
THE PEDESTRIAN SIGNAL HOUSING IN PAINT AND MATERIAL.

DATE	DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA	
REVISION	CONSTRUCTION DETAIL PEDESTRIAN FACILITIES INSTALLATION	
BY	NOVEMBER 2020 NO SCALE	NUMBER TS-03

GDOT Georgia Department of Transportation | P. I. No.

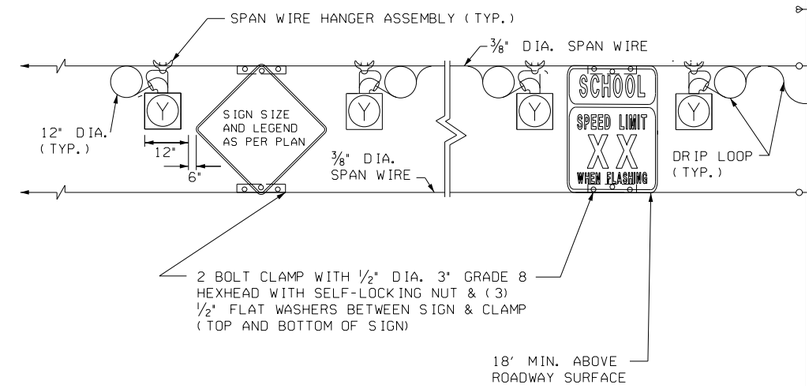


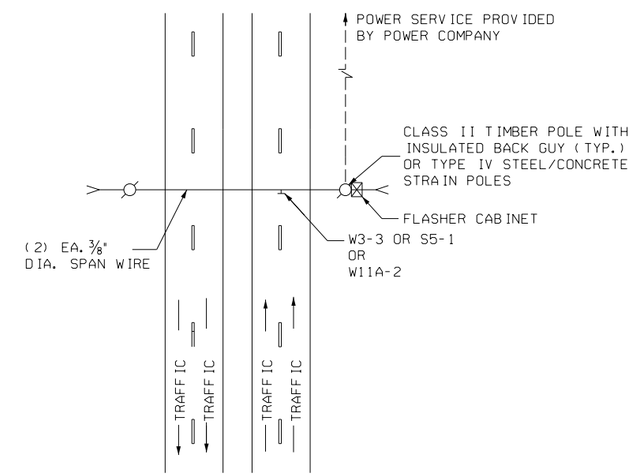
S5-1D SPECIAL
42" X 48"

WHITE REFLECTORIZED BACKGROUND WITH BLACK LEGENDS, BORDERS, AND SYMBOLS

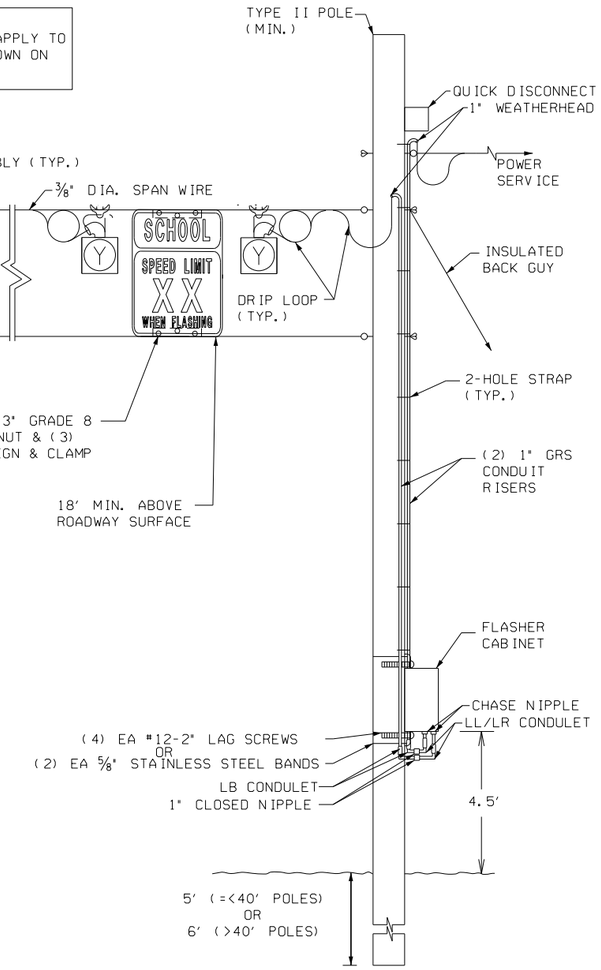
NOTE: THE SPECIAL S5-1D (42" X 48") SCHOOL SPEED LIMIT SIGN DETAIL, SHOWN ABOVE MAY BE USED WITH POST MOUNTED INSTALLATION; SEE DETAIL FOR "FLASHING SCHOOL ASSEMBLY" WHEN SIGN IS USED FOR GROUND/POST MOUNTED INSTALLATION WITH FLASHING BEACON.

NOTE:
SPAN MOUNTING DETAILS APPLY TO ALL SIGN ASSEMBLIES SHOWN ON THIS SHEET





SITE LAYOUT



FRONT VIEW

STANDARD SIGN SUMMARY GENERAL NOTES

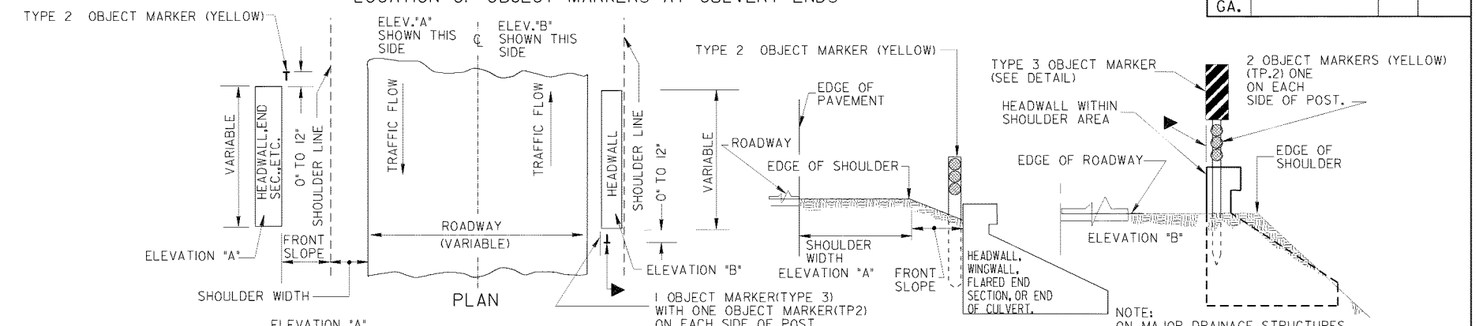
1. ALL STANDARD HIGHWAY SIGNS SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH THE DETAILS SHOWN IN THE PLANS, THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (CURRENT EDITION) AND GEORGIA'S STANDARD SPECIFICATIONS, SUPPLEMENTAL SPECIFICATIONS, AND/OR SPECIAL PROVISIONS.
2. ALL STANDARD HIGHWAY SIGNS SHALL BE ERECTED AT A HEIGHT OF 7 FEET ABOVE THE NORMAL EDGE OF PAVEMENT TO THE BOTTOM OF THE SIGN OR ASSEMBLY.
3. IN ORDER TO MEET CLEAR ZONE REQUIREMENTS, FIXED OBJECTS SHALL BE PLACED WITH APPROPRIATE OFFSET AS DEFINED IN THE GDOT DESIGN POLICY MANUAL OR AASHTO'S "ROADSIDE DESIGN GUIDE", OR BE PROTECTED BY GUARDRAIL. FOR GUARDRAIL APPLICATIONS, PROVIDE A MINIMUM SPACING OF 6 FEET BETWEEN THE FACE OF THE GUARDRAIL AND THE FACE OF ALL OBJECTS BEHIND THE GUARDRAIL.
4. TYPE 9 REFLECTIVE SHEETING SHALL BE USED FOR ALL STANDARD HIGHWAY SIGNS REQUIRING REFLECTORIZED BACKGROUNDS OR SPECIFIED OTHERWISE IN IN THE PLANS. EITHER CLASS 1 OR CLASS 2 ADHESIVE BACKING IS PERMISSIBLE.
5. TYPE XI (VERY HIGH INTENSITY) YELLOW-GREEN FLOURESCENT BACKGROUND SHALL BE USED FOR ALL SCHOOL WARNING SIGNS. THE "SCHOOL" PORTION OF THE SCHOOL SPEED LIMIT (S5-1 OR S5-1D SPECIAL) SIGNS AND ANY SUPLLEMENTAL PLAQUES USED IN ASSOCIATION WITH THESE WARNING SIGNS SHALL USE A TYPE XI (VERY HIGH INTENSITY) FLOURESCENT YELLOW-GREEN BACKGROUND WITH BLACK LEGEND AND BORDER UNLESS OTHERWISE NOTED IN THE M.U.T.C.D.
6. REFER TO GDOT TRAFFIC SIGNAL STANDARD DETAILS AND GDOT STANDARD SPECIFICATIONS 647 AND 925.

DATE	REVISION	BY	DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA	
			CONSTRUCTION DETAIL FLASHING BEACON ASSEMBLY SPAN WIRE INSTALLATION	
			NOVEMBER 2020 NO SCALE	NUMBER TS-10A

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

SEE T-22A and T-22B FOR BRIDGE DELINEATION DETAILS

LOCATION OF OBJECT MARKERS AT CULVERT ENDS



ELEVATION "A"
ONE OBJECT MARKER (YELLOW) (TYPE 2) SHALL BE USED WHERE HEADWALLS, FLARED END SECTIONS, OR CULVERT ENDS ARE LOCATED WITHIN THE FRONT SLOPE AS SHOWN IN ELEVATION "A" DETAIL.

ELEVATION "B"
A COMBINATION OF ONE OBJECT MARKER (TYPE 3) AND TWO OBJECT MARKERS (YELLOW) (TYPE 2), ONE ON EACH SIDE OF THE POST, SHALL BE USED WHERE HEADWALLS OF CULVERTS ARE LOCATED WITHIN THE EXISTING SHOULDER AREA AS SHOWN IN ELEVATION "B" DETAIL.

▶=THE INSIDE EDGE OF THE MARKER SHALL BE IN LINE WITH THE INNER EDGE OF THE OBSTRUCTION

NOTE:
ON MAJOR DRAINAGE STRUCTURES ON FEDERAL RESURFACING PROJECTS, WHEN ELEVATION " B" EXISTS, THE FIELD REVIEW TEAM WILL RECOMMEND WHICH TO USE; GUARDRAIL, ADDITIONAL DELINEATION, OR EXTENSION OF DRAINAGE STRUCTURE.

RECOMMENDED SPACING FOR DELINEATORS

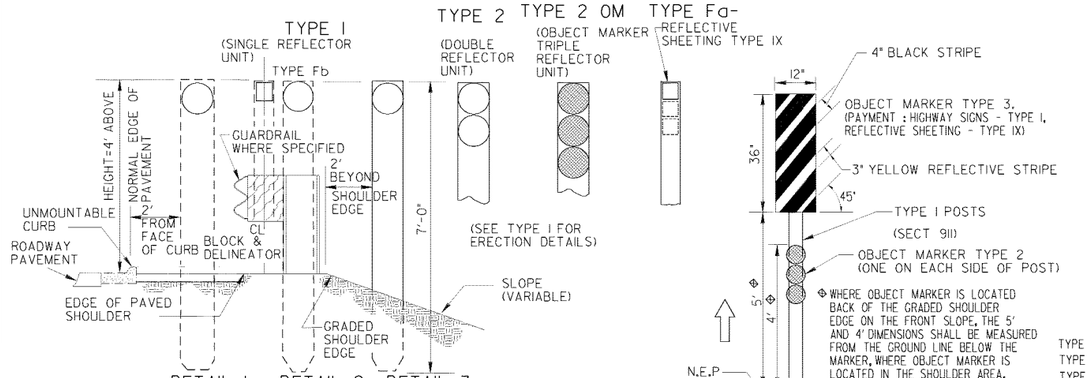
DELINEATORS SHOULD NORMALLY BE SPACED 528' APART. WHERE SUCH IS INTERRRUPTED BY DRIVEWAYS, CROSSROADS, ETC., AND WHERE UNDER THE NORMAL SPACING, A DELINEATOR WOULD FALL WITHIN SUCH AN AREA, THAT DELINEATOR MAY BE MOVED IN EITHER DIRECTION A DISTANCE NOT EXCEEDING 1/4 (132') OF THE NORMAL SPACING. IF SUCH DELINEATOR STILL FALLS WITHIN THAT AREA, IT SHOULD BE ELIMINATED. SEE TABLE BELOW FOR RECOMMENDED SPACING OF HORIZONTAL CURVES.

TABLE SPACING (1) FOR DELINEATORS ON HORIZONTAL CURVES

RADIUS OF CURVE (IN FEET)	SPACING ON CURVE (IN FEET)	SPACING IN ADVANCE & BEYOND CURVE (IN FEET) (MAINLINE ONLY)		
		1ST	2ND	3RD
50	20	40	65	125
150	30	60	90	180
200	35	70	110	215
250	40	85	125	250
300	50	95	145	290
400	55	110	170	300
500	65	125	190	300
600	70	140	210	300
700	75	150	230	300
800	80	165	245	300
900	85	175	260	300
1000	90	185	275	300

(1) SPACING, S, FOR SPECIFIC RADII NOT SHOWN MAY BE INTERPOLATED FROM THE TABLE OR COMPUTED FROM THE FORMULA $S=3\sqrt{R-50}$, WHERE R IS THE RADIUS OF CURVATURE IN FT. AND S IS ROUNDED TO THE NEAREST 5 FT. THE SPACING TO THE FIRST DELINEATOR IN ADVANCE OF THE CURVE IS 2S, TO THE SECOND 3S, AND THE THIRD 6S, BUT NONE TO EXCEED 300 FEET. MINIMUM SPACING IS 20 FEET.

DELINEATOR ERECTION DETAILS

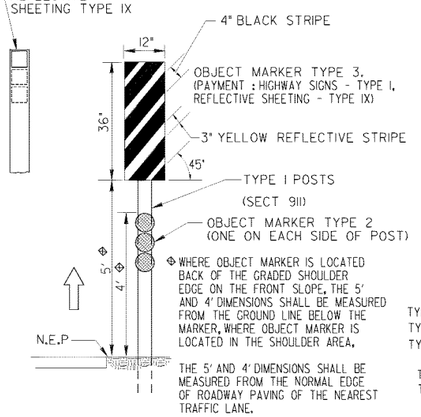


NOTE: ERECTION DETAILS ABOVE ARE TYPICAL FOR ALL TYPES EXCEPT 1A, 2A, 3A, & Fb, WHICH ARE MOUNTED ON THE POST OR STRUCTURE ALREADY IN PLACE.

DETAIL 1: ERECTION FOR ROADWAYS HAVING UNMOUNTABLE CURBS.

DETAIL 2: ERECTION FOR ROADWAY WITH GUARDRAIL, DELINEATOR POST SHALL BE IN THE SAME PLANE AS FACE OF GUARDRAIL POSTS, EXCEPT FOR TYPE Fb, AS SHOWN, AND POSSIBLY AT BRIDGE ENDS AS INDICATED ABOVE.

DETAIL 3: ERECTION FOR ROADWAYS HAVING SHOULDERS(WITHOUT CURBS).WITH MOUNTABLE CURBS, ERECTION SHALL BE SAME AS DETAIL 3.



WHERE OBJECT MARKER IS LOCATED BACK OF THE GRADED SHOULDER EDGE ON THE FRONT SLOPE, THE 5' AND 4' DIMENSIONS SHALL BE MEASURED FROM THE GROUND LINE BELOW THE MARKER, WHERE OBJECT MARKER IS LOCATED IN THE SHOULDER AREA.

THE 5' AND 4' DIMENSIONS SHALL BE MEASURED FROM THE NORMAL EDGE OF ROADWAY PAVING OF THE NEAREST TRAFFIC LANE.

DETAIL OF OBJECT MARKER

TYPES OF DELINEATORS

TYPE 1- ALUMINUM OR GALVANIZED STEEL FLANGED "U" CHANNEL POST WITH SINGLE REFLECTOR UNIT. REFLECTOR UNIT TO CONSIST OF: (A) ONE 3" DIAMETER SEALED PRISMATIC REFLEX REFLECTOR WITH PLATE AND FRAME, OR, (B) ONE 4" X 5" RECTANGULAR TYPE 1, LEVEL A REFLECTIVE SHEETING REFLECTOR WITH PLATE AND FRAME, OR (C) ONE 3 1/4" DIAMETER CENTER MOUNT SEALED PRISMATIC REFLEX REFLECTOR HOUSED IN ALUMINUM BACKING WITH SINGLE GROMMETTED HOLE IN CENTER OF REFLECTOR.

TYPE 2 - ALUMINUM OR GALVANIZED STEEL FLANGED "U" CHANNEL POST WITH DOUBLE REFLECTOR UNIT. REFLECTOR UNIT TO CONSIST OF: (A) TWO 3" DIAMETER SEALED PRISMATIC REFLEX REFLECTORS WITH PLATE AND FRAME, OR, (B) TWO 4" X 5" RECTANGULAR TYPE 1, LEVEL A REFLECTIVE SHEETING REFLECTORS WITH PLATE AND FRAME, OR (C) TWO 3 1/4" DIAMETER CENTER MOUNT SEALED PRISMATIC REFLEX REFLECTOR HOUSED IN ALUMINUM BACKING WITH SINGLE GROMMETTED HOLE IN CENTER OF EACH REFLECTOR.

TYPE 3 - ALUMINUM OR GALVANIZED STEEL FLANGED "U" CHANNEL POST WITH TRIPLE REFLECTOR UNIT. REFLECTOR UNIT TO CONSIST OF: (A) THREE 3" DIAMETER SEALED PRISMATIC REFLEX REFLECTORS WITH PLATE AND FRAME, OR, (B) THREE 4" X 5" RECTANGULAR TYPE 1, LEVEL A REFLECTIVE SHEETING REFLECTORS WITH PLATE AND FRAME, OR (C) THREE 3 1/4" DIAMETER CENTER MOUNT SEALED PRISMATIC REFLEX REFLECTORS HOUSED IN ALUMINUM BACKING WITH SINGLE GROMMETTED HOLE IN CENTER OF EACH REFLECTOR.

TYPE 1A-SINGLE
TYPE 2A-DOUBLE
TYPE 2 OM-TRIPLE
} REFLECTOR UNIT ONLY MOUNTED ON POST OR STRUCTURE ALREADY IN PLACE. REFLECTOR UNIT SAME AS FOR TYPE 1, 2, AND 2 OM, RESPECTIVELY.

TYPE Fa -
TYPE Fb -
} FLEXIBLE DELINEATOR POSTS SHALL BE USED AT LOCATIONS WHERE HIGH FREQUENCY OF HITS ARE CONTEMPLATED , SUCH AS GORE AREAS, OUTSIDE OF SHARP CURVES, ETC., AND MAY ALSO BE USED AS ALTERNATIVES TO EITHER TYPE 1, TYPE 2, OR TYPE 3 DELINEATORS WHEN SPECIFIED ON THE PLANS.DIFFERENT DESIGN FLEXIBLE DELINEATORS PERMITTED,IF APPROVED BY THE GA. D.O.T. OFFICE OF MATERIALS AND RESEARCH.

GENERAL NOTES:

A- SPECIFICATIONS: GA. STANDARD, CURRENT EDITION, & SUPPLEMENTS THERETO.

B- REFLECTORS FOR TYPES 1 AND 1A SHALL BE CRYSTAL (WHITE) .YELLOW OR RED, AS SPECIFIED ON THE PLANS. REFLECTORS FOR TYPES 2 AND 2A SHALL BE CRYSTAL (WHITE) OR YELLOW AS SPECIFIED ON THE PLANS. REFLECTORS FOR TYPE 3 AND 3A SHALL BE YELLOW ONLY AS SPECIFIED ON THE PLANS.

C- WHEN POSTS ARE SET IN CONCRETE, METAL RODS SHALL BE INSERTED IN 3,1/2" DIA. HOLES LOCATED AT BOTTOM OF POST. MIN SIZE OF RODS SHALL BE 1/4" DIA. X 3" LONG.

D- MONODIRECTIONAL DELINEATORS SHALL BE USED AND ERECTED AT THE RECOMMENDED SPACING, UNLESS OTHERWISE SPECIFIED ON THE PLANS.

E- FOR ADDITIONAL DATA ON DELINEATORS, REFER TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND ALL SUPPLEMENTS THERETO.

F- DRILL OR PUNCH 17, 3/8" DIA. HOLES ON 1" CENTERS FOR A DISTANCE OF 17" MINIMUM FROM TOP POST.

LOCATION OF DELINEATORS ON FREEWAY & EXPRESSWAY TYPE HIGHWAYS

TYPES OF DELINEATORS, ERECTION LOCATION , AND SPACING SHALL BE AS FOLLOWS.

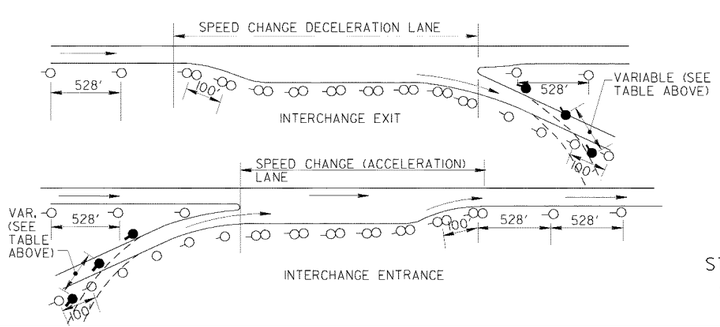
○ SINGLE CRYSTAL(WHITE) REFLECTOR UNITS (TYPE 1DELINEATOR) ON RIGHT SIDE OF MAINLINE AT 528 FOOT SPACING & ON RT. SIDE OF RAMP TGT. SECTIONS AT 100 FOOT SPACING FROM PHYSICAL CORE TO RAMP TERMINUS.

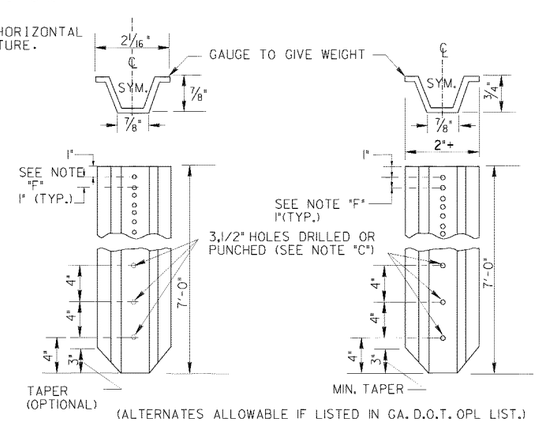
○○ DOUBLE CRYSTAL(WHITE) REFLECTOR UNITS (TYPE 2 DELINEATOR) ON RIGHT SIDE OF SPEED CHANGE (ACCELERATION & DECELERATION) LANES THAT ARE ON RIGHT SIDE OF MAINLINE AT 100 FOOT SPACING FROM TAPER TO PHYSICAL CORE.

● (YELLOW) SINGLE YELLOW REFLECTOR UNITS (TYPE 1 DELINEATOR) ON LEFT SIDE OF RAMP HORIZONTAL CURVES & ON LEFT SIDE OF MAINLINE HORIZONTAL CURVES GREATER THAN 3° CURVATURE.

●● (YELLOW) DOUBLE YELLOW REFLECTOR UNITS (TYPE 2 DELINEATOR) ON LEFT SIDE OF SPEED CHANGE (ACCELERATION & DECELERATION) LANES THAT ARE ON LEFT SIDE OF MAINLINE AT 100 FOOT SPACING FROM TAPER TO PHYSICAL CORE.

● (RED) SINGLE REFLECTOR UNITS (TYPE 1 DELINEATOR) ON LEFT SIDE OF EXIT RAMPS AT 100 FOOT SPACING FROM "WRONG WAY" SIGN TO RAMP TERMINUS. USE TYPE 1A RED DELINEATORS ON RIGHT OR LEFT SIDE OF EXIT RAMPS WHERE TYPE 1WHITE OR YELLOW DELINEATORS ARE USED FACE OF RED DELINEATORS ORIENTED OPPOSITE TO NORMAL TRAFFIC FLOW.

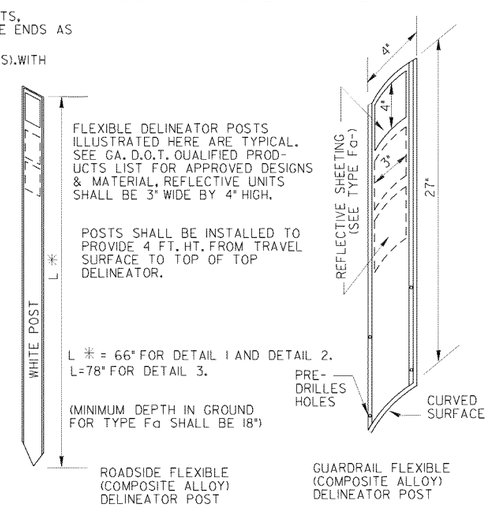




(ALTERNATES ALLOWABLE IF LISTED IN GA. D.O.T. OPL LIST.)

STEEL FLANGED "U" CHANNEL POST (1.12 LBS./FT.) (GALVANIZED)

ALUMINUM FLANGED "U" CHANNEL POST (0.78 LBS/FT.)



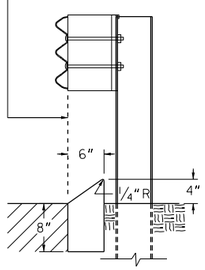
TYPE Fa-1(ONE REFLECT.)
TYPE Fa-2 (TWO REFLECT.)
TYPE Fa-2 OM (THREE REFLECT.)

TYPE Fb-1(ONE REFLECT.)
TYPE Fb-2 (TWO REFLECT.)
TYPE Fb-2 OM (THREE REFLECT.)

REV. OBJECT MARKER TYPE, DELETED DETAIL AND REV. REFLECTIVE SHEETING TYPE.	4-10-06	DATE	DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA
		REVISION	STANDARD DELINEATORS & MARKERS AND ALTERNATE POSTS
			NO SCALE — REV. & REDR. MAR., 2001
GLC	BY	DES. / REV. / TRA. / CHK.	(SUBMITTED) STATE ROAD & AIRPORT DESIGN ENGINEER (APPROVED) CHIEF ENGINEER — NUMBER 9030C

GDOT Georgia Department of Transportation | P. I. Number

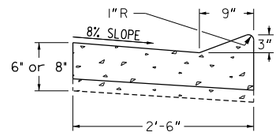
FACE OF CURB MUST ALIGN WITH BACK EDGE OF GUARDRAIL AND THE FACE OF THE OFFSET BLOCK.



TYPE 8

TYPE 8 HEADER CURB IS USED IN CONJUNCTION WITH GUARDRAIL CONNECTIONS TO CONCRETE BARRIER AS NOTED ON GA. STD. 4382.

RAISED EDGE WITH CONCRETE GUTTER

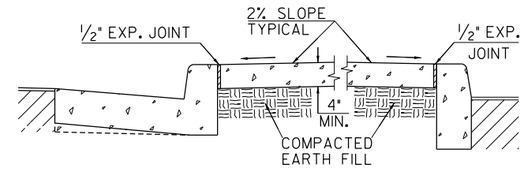


RAISED EDGE TO BE CONSTRUCTED WITH SAME CONCRETE MIX AS THE GUTTER AND SHALL BE FORMED MONOLITHIC WITH GUTTER. JOINTS IN RAISED EDGE SHALL MATCH THOSE IN THE GUTTER.

NOTE:
IF CONCRETE MEDIAN INTERCEPTS PEDESTRIAN CROSSWALKS, WHEELCHAIR RAMPS (CONSTRUCTION DETAIL A-3 AND A-4) WILL BE REQUIRED.

CONCRETE MEDIAN (Between Curbs)

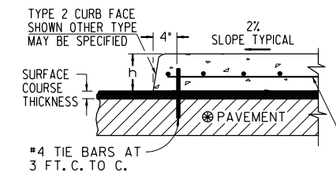
NOTE: CURB TYPES SHOWN ARE TYPICAL. OTHER TYPES MAY BE SPECIFIED.



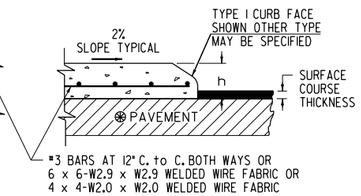
NOTE:
WIDTH OF CONCRETE MEDIAN WILL BE AS SHOWN IN PLANS

CONCRETE MEDIANS (Integral)

-WITH TIE BARS-



-WITHOUT TIE BARS-

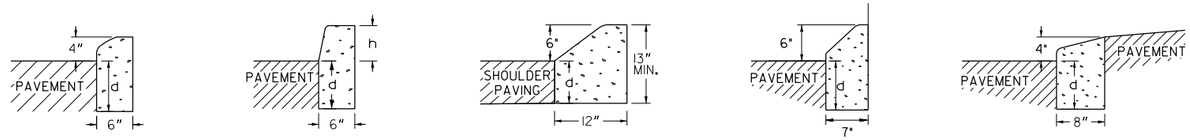


NOTE:
IF FINAL SURFACE COURSE IS PRESENT OR MUST BE INSTALLED BEFORE THE CONCRETE MEDIAN CAN BE INSTALLED, THEN DOWELED IN CONCRETE MEDIAN IS REQUIRED.

CONCRETE HEADER CURBS

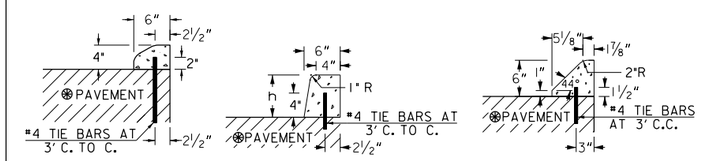
CURB TYPE	h	d
1	4"	6" min.
2	6"	8" min.
3	8"	10" min.
4	10"	12" min.
6	6"	7" min.
7	6"	8" min.
9	4"	8" min.

THE DIMENSION d MAY BE INCREASED AT CONTRACTOR'S OPTION SO BOTTOM OF HEADER CURB WILL ALIGN WITH BOTTOM OF PAVEMENT TYPICAL SECTION.

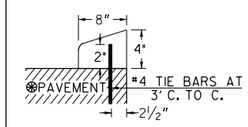


TYPE 1 | TYPE 2, 3 OR 4 | TYPE 6 | TYPE 7 | TYPE 9 TRUCK APRON IN ROUNDABOUTS

CONCRETE DOWELED INTEGRAL CURBS



TYPE 1 | TYPE 2, 3 OR 4 | TYPE 7



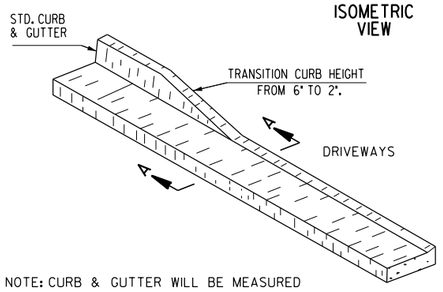
TYPE 9

⊛ NOTES:
1. CONCRETE CURB CAN BE INSTALLED AFTER INTIAL SET AS LONG AS TIE BARS ARE DRILLED INTO UNDERLAYING CONCRETE PAVEMENT.
2. CONCRETE CURB CAN BE INSTALLED BEFORE INITIAL SET WITH DOWELS THAT ARE DRIVEN INTO UNDERLYING CONCRETE PAVMENT.
3. JOINTS IN CURB AND CONCRETE MEDIAN WILL MATCH THOSE IN THE CONCRETE PAVEMENT.
4. ALL TYPES OF CONCRETE CURB CAN BE PLACED ON ASPHALT PAVEMENTS WHERE TIE BARS MAY BE EITHER DRIVEN OR DRILLED INTO THE UNDERLYING PAVEMENT. CONTRACTION JOINTS SHALL BE CONSTRUCTED IN CURB OR CONCRETE MEDAIN AT 20 FT. SPACING.

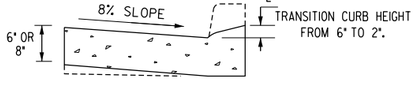
NOTE:
TIE BARS FOR DOWELED CURBS MAY BE UNCOATED PLAIN OR DEFORMED BILLET-STEEL BARS (GRADE 40) AS USED FOR CONCRETE REINFORCEMENT. (AASHTO M-31)

MINIMUM TIE BAR LENGTHS (FOR CONC. DOWELED CURBS OR CONC. MEDIAN)		
CURB TYPE	P.C. CONC. PAV.	ASPHALT PAV.
1	6"	8"
2, 3 or 4	8"	12"
7	6"	8"
9	6"	8"

DETAILS OF RECESSED CURB FOR DRIVEWAYS



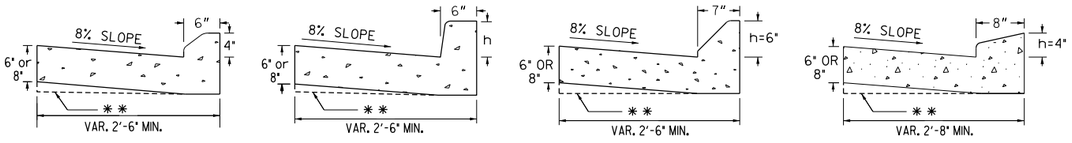
NOTE: CURB & GUTTER WILL BE MEASURED FOR PAYMENT THRU THE DRIVE



SECTIONAL VIEW
SECTION A-A

(SEE SEPARATE CONSTRUCTION DETAILS FOR DRIVEWAYS)

CONCRETE CURB & GUTTER

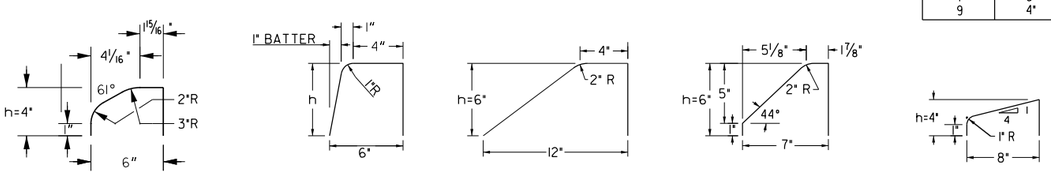


TYPE 1 | TYPE 2, 3 OR 4 | TYPE 7 | TYPE 9

** AT CONTRACTOR'S OPTION THE GUTTER THICKNESS MAY BE INCREASED AT EDGE OF PAVEMENT TO MAKE BOTTOM OF GUTTER PARALLEL WITH PAVING OF BASE COURSE, BUT THE GUTTER THICKNESS MUST NOT BE LESS THAN THE SPECIFIED 6" OR 8" AT ANY POINT.

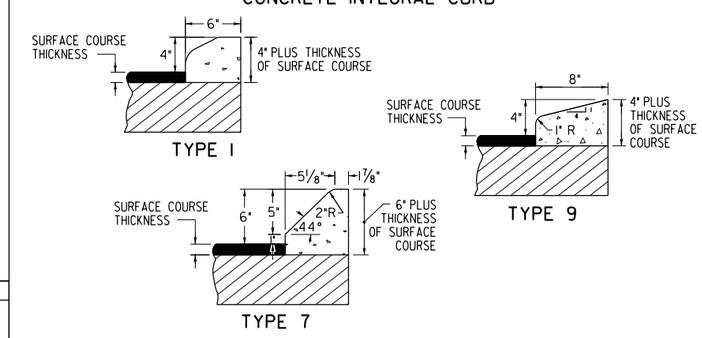
CURB FACE DESIGN

TYPE	h
1	4"
2	6"
3	8"
4	10"
6	6"
7	6"
9	4"



TYPE 1 | TYPE 2, 3 OR 4 | TYPE 6 | TYPE 7 | TYPE 9

CONCRETE INTEGRAL CURB



BY	REVISION	DATE
HAC	REV TP 1 CFD. RADIUS DIMS	01-25-21
	REV TP 9 CFD. DIM HT TO 1" FROM GR. LEVEL TO RADIUS	
JAHR	REV. TYP. 1 CFD. TYP. 8 OFFSET BLOCK & TYP. 9 CDJC.	02-10-20
	ADDED TP 9 CURB & GUTTER	
TC	REV. TYPE 9 CURB DETAIL & REV. OVERALL LAYOUT	11-15-11
GLO	REV. MEDIAN NOTE AND ADDED TYPE 9 CURB DETAIL	1-27-11
	ADDED TYPE 9 DETAIL	3-03

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

STANDARD
CONCRETE CURB & GUTTER
CONCRETE CURBS, CONCRETE MEDIANS

NOT TO SCALE | OCT. 2011

DES. ____ DRW. ____ TRA. ____ CHK. ____

(SUBMITTED) STATE DESIGN POLICY ENGINEER
(APPROVED) CHIEF ENGINEER

NUMBER 9032B

ITB #2021-018 Chamblee Tucker Road Lane Diet

BID SUBMISSION SHEET

The below listed firms submitted bids which were turned in at the time indicated.

Any bid or proposal submitted after the due date and time may not be considered for award.

	COMPANY	RECEIVED	BID AMOUNT
1.	CW Matthews Contracting	11/4/2021 8:46am	$ 2,243,251.37
2.	MHB Paving	11/4/2021 10:40am	$ 2,325,801.64
3.	Stewart Brothers Inc.	11/4/2021 12:00pm	$ 3,309,904.90
4.	E.R Snell Contractor Inc.	11/4/2021 12:39pm	$ 2,282,699.96
5.	Multiplex LLC	11/4/2021 1:04pm	$ 3,168,200.15
6.	Pittman Construction	11/4/2021 1:19pm	$ 2,113,130.44
7.	Blount Construction	11/4/2021 1:27pm	$ 2.340,068.56
8.	CMES Inc.	11/4/2021 1:34pm	$ 2,811,811.11

Opened/Verified by: Lisa Owen 11-04-2021

Ken Hildebrandt

City of Tucker

Invitation to Bid
ITB # 2021-018

CHAMBLEE TUCKER ROAD LANE DIET

BID MANUAL

City of Tucker
1975 Lakeside Parkway, Suite 350
Tucker, Georgia 30084

City of Tucker Invitation to Bid
ITB #2021-018
CHAMBLEE TUCKER ROAD LANE DIET

INVITATION: The City of Tucker, Georgia requests that interested parties submit proposals for the Chamblee Tucker Road Lane Diet Project. Proposals will be accepted until through the date and time listed below and will be awarded to the responsive and responsible bidder whose bid, conforming with all the material terms and conditions of the ITB, is the lowest in price. Addenda and updates to this bid manual will be posted on the City of Tucker website http://tuckerga.gov or may be requested by email procurement@tuckerga.gov.

BID ACTIVITY SCHEDULE	
Bid Issued	October 5, 2021
Pre-Bid Conference	October 19, 2021 at 1:00 p.m. EDT (virtually)
Deadline for Questions	October 20, 2021 at 5:00 p.m.
Responses to Questions Posted (Addenda)	October 22, 2021
Bid Deadline	**November 4, 2021, at 2:00 p.m. EDT**
Award at Council Meeting	TBD
Completion from Date of Award	June 15, 2022

SCOPE OF WORK: Refer to Exhibit A.

QUESTIONS: Submit all questions in writing to procurement@tuckerga.gov reference Bid #.

PRE-BID CONFERENCE: A pre-bid conference is scheduled for Tuesday, October 19, 2021, at 10:00 a.m. EDT (VIRTUALLY). **To Join by Phone:** (508)556-4407, 148035062#

To Join via Microsoft Teams Link: https://teams.microsoft.com/l/meetup-join/19%3ameeting_MDE2YmMzNDMtODgxNC00MDllLThmOTQtNzQxYmE2ZGVmYTA5%40thread.v2/0?context=%7b%22Tid%22%3a%22365c5e99-f68f-4beb-89d9-abecb41b1a1b%22%2c%22Oid%22%3a%226a8bc640-056f-4c68-ade5-77aa4369a66e%22%7d

ADDENDA: Responses to the questions received will be by addenda and will be posted on the City website www.tuckerga.gov. The signed acknowledgement must be submitted with the proposal. It is the vendors responsibility to verify if any addenda were created.

SUBMITTAL REQUIREMENTS: Vendor shall submit ITB Response electronically to procurement@tuckerga.gov with the subject line ITB #2021-018. The email must contain the vendor contact information.

REQUESTS FOR BID TABULATION: Send an email request to procurement@tuckerga.gov.

Your response must be received by the date and time specified. (Addenda will show any schedule updates) Late receipt of bids will not be considered regardless of postmark/carrier or email issues. Proposals received after the opening time will be filed unopened. The City of Tucker reserves the right to reject any and all proposals or any part, to waive any formalities or informalities to make an award and to re-advertise in the best interest of the City. No proposals received orally/phone.

Exhibit A:
Project Specifications / Scope of Work
ITB #2021-018 Chamblee Tucker Road Lane Diet

PURPOSE, INTENT AND PROJECT DESCRIPTION

The City of Tucker (City), requests that interested parties submit formal electronic bids for the construction of the Chamblee Tucker Road Lane Diet project.

Chamblee Tucker Road is to be improved from Lavista Road to Tucker Norcross Road (approx. 2.1 miles). Improvements include asphalt patching, milling, paving, curb & gutter, sidewalk, traffic signal installation, signage, and pavement markings. The complete scope, plans, and other relevant information for ITB 2021-018 Chamblee Tucker Road Lane Diet is available for download on the City of Tucker website: http://tuckerga.gov or request via email to procurement@tuckerga.gov .

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;
- The Contract Documents including but not limited to the scope of work, plans, and specifications;
- City of Tucker ordinances and regulations;
- OSHA standards and guidelines
- MUTCD 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.

10% retainage will be withheld from the total amount due the contractor until Final Acceptance of work is issued by the City. The City will inspect the work as it progresses.

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 June 15, 2022. 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 7:00AM to 7:00PM and the normal workweek shall be Monday through Friday. Lane closures on Chamblee Tucker Road are limited to the hours of 9:00AM to 4:00PM. 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.). Hours of operation for subdivision streets shall be 8:00AM to 7:00PM.

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 contractor's expense prior to issuance of Final Acceptance.

The contractor shall be assessed liquidated damages in the amount of $200.00 per calendar day for any contract work (excluding punch list and permanent striping) that is not completed by June 15, 2022. Liquidated damages shall be deducted from the 10% retainage held by the City. The contractor will also be assessed liquidated damages for not completing any required Punch List work within 45 calendar days.

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 2:00p.m**, detailing scheduled activities for the following week.

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.

BONDING AND INSURANCE REQUIREMENTS

No bid may be withdrawn for a period of ninety (90) days after the time has been called on the

date of opening.

All bids must be accompanied by a bid bond of a reputable bonding company authorized to do business in the State of Georgia, in an amount equal to at least five percent (5%) of the total amount of the bid.

Upon Notice of Award, the successful contractor shall submit a Performance Bond payable to the City of Tucker in the amount of 100% of the total contract price. The successful contractor shall also 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.

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.

PUBLIC NOTIFICATION

The contractor shall be responsible for installing variable message signs at each end of the project one week prior to commencement of work. Payment for this will be included in the item for Traffic Control. The City will be responsible for notification to individual property owners.

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 Contractor's 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, at all times, 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 includes 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 signing) on the project at all times, particularly during inclement weather, to ensure that ingress and egress are safely provided when and where needed.

Two-way traffic shall be maintained at all times, unless otherwise specified or approved by the City. In the event of an emergency situation, 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 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, except as otherwise called for in the plans. 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. Payment for temporary pavement markings should be included in the items for the permanent thermoplastic markings.

The contractor shall be responsible for providing and installing variable message boards at each end of Chamblee Tucker Road. The message boards shall be installed at least one week prior to the commencement of work. and at least one month prior to the conversion to a 3-lane section. Wording to be used on the message boards shall be provided by the City. The boards shall remain in place until all contract work (excluding punch list) has been completed and accepted. Payment for this will be included in the item for Traffic Control.

PROTECTION AND RESTORATION OF PROPERTY AND LANDSCAPE

The contractor shall be responsible for the preservation of all public and private property, crops, fish ponds, 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

All sewer manholes and water valves are to be adjusted by the DeKalb County Department of Watershed Management. The contractor shall coordinate required utility adjustments with the CEI inspector.

THERMOPLASTIC PAVEMENT MARKINGS

This work shall include Thermoplastic Pavement Markings. Final (thermoplastic) pavement markings shall be placed at least 15 calendar days but no more than 60 calendar days after placement of final asphalt lift. These final pavement markings shall match the signing & marking plans including center lines, lane lines, turn arrows, crosswalks, stop bars, etc. unless specifically directed otherwise by the City. Final pedestrian crosswalk markings shall adhere to the latest standards. Pavement marking materials shall meet GDOT standard specifications and be on the qualified products list.

Temporary pavement markings, where required, shall be included in the pay item for thermoplastic pavement markings. There is no separate pay item for temporary pavement markings.

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. Asphalt and other debris shall be removed from gutters, sidewalks, yards, driveways, etc. Failure to perform clean-up activities may result in suspension of the work. Milling operation shall be followed immediately by clean-up at which the contractor is to provide power brooms, vacuum sweepers, power blowers, or other means to remove loose debris or dust. Do not allow dust control to restrict visibility of passing traffic or to disrupt adjacent property owners. All pavement areas shall be clean and dry prior to placing tack coat, asphaltic concrete or other materials.

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

See construction plans.

Revised by Addenda #1 Exhibit B

Exhibit B: Cost Proposal

ITB #2021-018 Chamblee Tucker Road Lane Diet					
ITEM NO.	**UNITS**	**ITEM DESCRIPTION**	**QUANTITY**	**UNIT PRICE**	**AMOUNT**
150-1000	LS	TRAFFIC CONTROL	1		
210-0100	LS	GRADING COMPLETE	1		
402-1802	TN	RECYCLED ASPH CONC PATCHING, INCL BITUM MATL & H LIME	1,000		
402-3190	TN	RECYCLED ASPH CONC 19 MM SUPERPAVE, GP 1 OR 2,INCL BITUM MATL & H LIME	5,696		
402-4510	TN	RECYCLED ASPH CONC 12.5 MM SUPERPAVE, GP 2 ONLY, INCL POLYMER-MODIFIED BITUM MATL & H LIME	4,779		
413-0750	GL	TACK COAT	2,975		
432-0212	SY	MILL ASPH CONC PVMT, 3 IN DEPTH	59,068		
432-5010	SY	MILL ASPH CONC PVMT, VARIABLE DEPTH	3,907		
441-0104	SY	CONC SIDEWALK, 4 IN	293		
441-0108	SY	CONC SIDEWALK, 8 IN	68		
441-0748	SY	CONCRETE MEDIAN, 6 IN	793		
441-4020	SY	CONC VALLEY GUTTER, 6 IN	29		
441-6222	LF	CONC CURB & GUTTER, 8 IN X 30 IN, TP 2	248		
500-9999	CY	CLASS B CONC, BASE OR PVMT WIDENING	20		
636-1033	SF	HIGHWAY SIGNS, TP 1 MATL, REFL SHEETING, TP 9	378		
636-1036	SF	HIGHWAY SIGNS, TP 1 MATL, REFL SHEETING, TP 11	221		
636-2070	LF	GALV STEEL POSTS, TP 7	660		
636-2090	LF	GALV STEEL POSTS, TP 9	408		
636-4104	EA	PLASTIC FLEXIBLE DELINEATOR, TP 2B	137		
647-1000	LS	TRAFFIC SIGNAL INSTALLATION NO - 1 - LIVSEY RD AT CHAMBLEE TUCKER RD	1		
647-1000	LS	TRAFFIC SIGNAL INSTALLATION NO - 2 - TUCKER NORCROSS RD AT CHAMBLEE TUCKER RD	1		
647-1030	EACH	RRFB INSTALLATION - INSTALL CITY PROVIDED RRFB ASSEMBLY - SINGLE SIDED RRFB, SOLAR POWERED	28		

Revised by Addenda #1 Exhibit B

647-1030	EA	RRFB INSTALLATION -PROVIDE AND INSTALL RRFB ASSEMBLY - SINGLE SIDED SUPPLEMENTAL RRFB, HIGH CAPACITY SOLAR POWERED	1		
647-6200	EA	LOOP DETECTOR, 6 FT X 6 FT, BIPOLE	13		
647-6300	EA	LOOP DETECTOR, 6 FT X 40 FT, QUADRUPOLE	10		
653-0120	EA	THERMOPLASTIC PVMT MARKING, ARROW, TP 2	96		
653-0130	EA	THERMOPLASTIC PVMT MARKING, ARROW, TP 3	1		
653-0210	EA	THERMOPLASTIC PVMT MARKING, WORD, TP 1	8		
653-0132	EA	THERMOPLASTIC PVMT MARKING, ARROW, TP 3A	2		
653-1501	LF	THERMOPLASTIC SOLID TRAF STRIPE, 5 IN, WHITE	21,166		
653-1502	LF	THERMOPLASTIC SOLID TRAF STRIPE, 5 IN, YELLOW	14,642		
653-1704	LF	THERMOPLASTIC SOLID TRAF STRIPE, 24 IN, WHITE	618		
653-1804	LF	THERMOPLASTIC SOLID TRAF STRIPE, 8 IN, WHITE	3,519		
653-3501	GLF	THERMOPLASTIC SKIP TRAF STRIPE, 5 IN, WHITE	4,031		
653-3502	GLF	THERMOPLASTIC SKIP TRAF STRIPE, 5 IN, YELLOW	8,429		
653-6004	SY	THERMOPLASTIC TRAF STRIPING, WHITE	636		
653-6006	SY	THERMOPLASTIC TRAF STRIPING, YELLOW	1,954		
654-1001	EA	RAISED PVMT MARKERS TP 1	576		
654-1003	EA	RAISED PVMT MARKERS TP 3	201		
			PROJECT TOTAL	**$**	

Company Name:_____

Address: _____

Contact Person: _____

Phone Number:_____

Email Address: _____

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 B: Cost Proposal

ITB #2021-018 Chamblee Tucker Road Lane Diet					
Pittman Construction Company					
ITEM NO.	UNITS	ITEM DESCRIPTION	QUANTITY	UNIT PRICE	AMOUNT
150-1000	LS	TRAFFIC CONTROL	1	$153,300.00	$153,300.00
210-0100	LS	GRADING COMPLETE	1	$93,900.00	$93,900.00
402-1802	TN	RECYCLED ASPH CONC PATCHING, INCL BITUM MATL & H LIME	1,000	$148.45	$148,450.00
402-3190	TN	RECYCLED ASPH CONC 19 MM SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME	6,603	$95.70	$631,907.10
402-4510	TN	RECYCLED ASPH CONC 12.5 MM SUPERPAVE, GP 2 ONLY, INCL POLYMER-MODIFIED BITUM MATL & H LIME	5,294	$97.20	$514,576.80
413-0750	GL	TACK COAT	2,975	$4.50	$13,387.50
432-0214	SY	MILL ASPH CONC PVMT, 3 ½ IN DEPTH	59,068	$3.70	$218,551.60
432-5010	SY	MILL ASPH CONC PVMT, VARIABLE DEPTH	3,907	$3.32	$12,971.24
441-0104	SY	CONC SIDEWALK, 4 IN	293	$54.00	$15,822.00
441-0108	SY	CONC SIDEWALK, 8 IN	68	$138.00	$9,384.00
441-0748	SY	CONCRETE MEDIAN, 6 IN	793	$87.00	$68,991.00
441-4020	SY	CONC VALLEY GUTTER, 6 IN	29	$84.00	$2,436.00
441-6222	LF	CONC CURB & GUTTER, 8 IN X 30 IN, TP 2	448	$42.00	$10,416.00
500-9999	CY	CLASS B CONC, BASE OR PVMT WIDENING	20	$285.00	$5,700.00
636-1033	SF	HIGHWAY SIGNS, TP 1 MATL, REFL SHEETING, TP 9	378	$18.90	$7,144.20
636-1036	SF	HIGHWAY SIGNS, TP 1 MATL, REFL SHEETING, TP 11	221	$19.80	$4,375.80
636-2070	LF	GALV STEEL POSTS, TP 7	660	$8.35	$5,511.00
636-2090	LF	GALV STEEL POSTS, TP 9	408	$10.00	$4,080.00
636-4104	EA	PLASTIC FLEXIBLE DELINEATOR, TP 2B	137	$140.00	$19,180.00

647-1000	LS	TRAFFIC SIGNAL INSTALLATION NO - 1 - LIVSEY RD AT CHAMBLEE TUCKER RD	1	$10,925.00	$10,925.00
647-1000	LS	TRAFFIC SIGNAL INSTALLATION NO - 2 - TUCKER NORCROSS RD AT CHAMBLEE TUCKER RD	1	$3,780.00	$3,780.00
647-1030	EACH	RRFB INSTALLATION - INSTALL CITY PROVIDED RRFB ASSEMBLY - SINGLE SIDED RRFB, SOLAR POWERED	28	$2,160.00	$60,480.00
647-1030	EACH	RRFB INSTALLATION -PROVIDE AND INSTALL RRFB ASSEMBLY - SINGLE SIDED SUPPLEMENTAL RRFB, HIGH CAPACITY SOLAR POWERED	1	$7,025.00	$7,025.00
647-6200	EA	LOOP DETECTOR, 6 FT X 6 FT, BIPOLE	13	$580.00	$7,540.00
647-6300	EA	LOOP DETECTOR, 6 FT X 40 FT, QUADRUPOLE	10	$1,135.00	$11,350.00
653-0120	EA	THERMOPLASTIC PVMT MARKING, ARROW, TP 2	96	$92.50	$8,880.00
653-0130	EA	THERMOPLASTIC PVMT MARKING, ARROW, TP 3	1	$300.00	$300.00
653-0210	EA	THERMOPLASTIC PVMT MARKING, WORD, TP 1	8	$250.00	$2,000.00
653-0132	EA	THERMOPLASTIC PVMT MARKING, ARROW, TP 3A	2	$575.00	$1,150.00
653-1501	LF	THERMOPLASTIC SOLID TRAF STRIPE, 5 IN, WHITE	21,166	$0.50	$10,583.00
653-1502	LF	THERMOPLASTIC SOLID TRAF STRIPE, 5 IN, YELLOW	14,642	$0.50	$7,321.00
653-1704	LF	THERMOPLASTIC SOLID TRAF STRIPE, 24 IN, WHITE	618	$5.75	$3,553.50
653-1804	LF	THERMOPLASTIC SOLID TRAF STRIPE, 8 IN, WHITE	3,519	$2.30	$8,093.70
653-3501	GLF	THERMOPLASTIC SKIP TRAF STRIPE, 5 IN, WHITE	4,031	$0.45	$1,813.95
653-3502	GLF	THERMOPLASTIC SKIP TRAF STRIPE, 5 IN, YELLOW	8,429	$0.45	$3,793.05
653-6004	SY	THERMOPLASTIC TRAF STRIPING, WHITE	636	$4.70	$2,989.20
653-6006	SY	THERMOPLASTIC TRAF STRIPING, YELLOW	1,954	$4.70	$9,183.80
654-1001	EA	RAISED PVMT MARKERS TP 1	576	$5.00	$2,880.00
654-1003	EA	RAISED PVMT MARKERS TP 3	201	$5.00	$1,005.00
Pittman Construction Company				PROJECT TOTAL:	$2,104,730.44

Company Name: PITTMAN CONSTRUCTION COMPANY

Address: 1487 FARMER ROAD, CONYERS GA 30012

Contact Person: LOUIE A. PITTMAN, III

Phone Number: 770-922-8660

Email Address: apittman@pittman-construction.com

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

CITY OF TUCKER

ACKNOWLEDGE RECEIPT OF ADDENDUM #1 FORM

RFP #2021-018
Chamblee Tucker Road Lane Diet

Upon receipt, please print and add to your proposal

I hereby acknowledge receipt of the supplement pertaining to the above referenced bid.

COMPANY NAME: Pittman Construction Company

CONTACT PERSON: Louie A. Pittman, III

ADDRESS: 1487 Farmer Rd

CITY: Conyers **STATE:** GA **ZIP:** 30012

PHONE: (770) 922-8660 **FAX:** N/A

EMAIL ADDRESS: apittman@pittman-construction.com

Louie A. Pittman III — Nov. 4, 2021

SIGNATURE **DATE**

ADDENDUM #1

1. Q: Will the City of Tucker consider letting the contractor perform this work at night

   A: Night work will be allowed, subject to final approval of the City. Proper lighting and traffic control will apply. No additional traffic control pay item will be given for this.

2. Q: Based on the plans it looks like there will be only (2) side roads (Ball Park Dr. & Chamblee Tucker Rd.) for the contractor to mill and pave – is this correct?

   A: No. Tie ins will also need to be made to recently resurfaced streets such as Brown Road, Ball Park Drive, and Deland Road. All side streets will be tied in per the direction of the City inspector.

3. Q: On page 7 of the proposal, it states that the Dekalb Co. Department of Watershed will adjust all sewer manholes and water valves. Does this include lowering the manholes and water valves before the milling operation begins?

   A: No. Utility adjustments will be made after resurfacing operations are completed. The binder should be applied immediately after milling.

4. Q: On the Typical Sections it looks like the total width of the road is based on paving into the gutter with the 12.5mm asphalt – is this correct?

   A: Yes. There is existing asphalt in the gutter. This is to be milled (variable depth) and overlaid with 12.5 mm.

5. Q: The depths of the 19mm (190#) and the 12.5mm (150#) are at the minimum that GDOT allows. These depths generally create compaction problems. GDOT usually goes with 220# of 19mm and 165# of 12.5mm. Would the City of Tucker consider going with the 220# of 19mm and 165# of 12.5mm.

   A: This specification is being amended. The plans and Exhibit B Cost Proposal have been amended to show 3.5" of milling, 220# of 19mm, and 165# of 12.5mm. The amended Exhibit B is to be submitted with the bid response. Bids failing to respond with amended Exhibit B Cost Proposal will be rejected.

6. Q: Will the contractor be required to use a MTV (Shuttle Buggy) when placing the 12.5mm asphalt on this project?

   A: No.

7. Q: Will the Advanced Warning Signs on this project be post mounted or will the contractor be allowed to place these signs on tripod stands?

A: Post mounted signs will be required. In addition, a portable changeable message sign is required on each end of the project per Note #24 of Sheet 04-002.

8. Q: I understood that GDOT is giving the City of Tucker the 28 RRFB's and they are made by a company in FL called TCS, which is not the normal Lanelite company that everyone uses, I am assuming that we need to Provide only ONE POLE with THE RRFB CABINET and NOT a FULL Cross Walk which consist of FOUR POLES according to the plans. Can YOU please confirm that we only need ONE POLE WITH HARDWARE to buy and install, as if that is the case, we will have to buy it from TCS as well so the radios will talk to each other, and we also need to make sure to get the same Solar Panel and Battery.

   A: Correct, GDOT will provide the poles with the exception of the supplemental RRFB that was added. The supplemental RRFB called for in the plans is only one pole and shall be compatible with the equipment to be provided GDOT and must activate when the pedestrian button is pushed at the crosswalk. See General Note 40 in the plans for additional specifications.

9. Q: General note 25 in the plans states that we are to patch the roadway prior to milling 3" and placing 19mm. If this sequencing is adhered to, we will mill the top 3" of the patch in stage 2. Please provide the patching depth and clarify if the intention is to patch and then remove the top 3" of the patch

   A: Patching shall be a minimum of 6" depth, subject to the direction of the City inspector. Then the surface is to be milled 3.5".

10. Q: What depth is required for the Patching?

    A: 6 inches.

11. Q: The Water Valves and Manholes, assuming those will be adjusted to the new pavement grade? And will it be required to "box out" and place concrete per Dekalb County Watershed Management?

    A: DeKalb Watershed will adjust manholes and valves after the resurfacing operations are completed. DWM will box out and place concrete.

12. Q: Can the completion date be extended to October 15, 2022?

    A: The completion date is June 15, 2022, however additional days may be considered due to weather delays.

13. Q: Will the GDOT Asphalt Index apply to this project?

    A: No. Submitted unit pricing will be applied for the length of the contract.

14. Q: There are a few areas in the plans where class b widening and/or sidewalk is getting replaced. There will be some fine grading in these areas resulting in disturbed

areas. Can perm grassing or sod pay items be added for final stabilization in these areas?

A: There is only minor grading and grassing required. Per General Note #6 in the plans, the cost for grassing shall be included in the price bid for Grading Complete.

15. Q: General note #12 on drawing 04-001 states all existing electrical boxes, water meter boxes, valve boxes and other utility structures to be adjusted shall be paid for in grading complete. Will the City not handle this per the note in the bid manual about adjusting utility structures? If not, can pay items be added to accurately quantify these items?

    A: No. The contractor is required to coordinate with the utility companies. These potential adjustments are minimal and considered incidental to grading complete.

16. Q Will traffic be allowed to ride on milled surfaces for any period? If so, for how long?

    A: Per General Note #25b in the plans, milling and placement of the binder course shall be completed in the same day. Traffic riding on milled surfaces should be avoided. Traffic will be allowed to ride on the binder surface.

17. Q: Will the Contractor be allowed to install lane closures along Chamblee Tucker Road from the hours of 9 AM to 4 PM as long as one lane in each direction is maintained?

    A: Yes, as long as MUTCD guidelines are adhered to in terms of tapers and signage. Access to driveways and side streets shall be maintained.

18. Q: Just to verify, all raised concrete medians are to be installed on top of the new 12.5 mm asphalt topping?

    A: Yes, concrete islands are to be dowelled into the new 12.5mm surface coarse per the detail on Sheet 05-006.

19. Q: Per the details on drawing 05-006, there are several areas where concrete medians get installed that have removal of 30" sub-base and backfill with 30" suitable soil with 3" mulch. How will the 30" backfill material and 3" of mulch be paid for? Can pay items be added?

    A: This should be included in Grading Complete.

20. Q: Are the only areas on the project requiring asphalt removal the ones shown on drawing 05-006 for the raised median planting areas?

    A: Yes.

21. Q: Will plantings in the concrete medians be part of this project?

A: No plantings. For the medians the detail calls for sawcut and removal of existing asphalt pavement base and sub-base to a depth of 30". Backfill with suitable soil for plantings. Cover with 3" of hardwood mulch.

22. Q: Have any asphalt cores been done along Chamblee Tucker Road that can be made available to the Contractor? If not, what is the approximate thickness of existing asphalt and GAB along Chamblee Tucker Road?

    A: No cores have been done.

23. Q: How will the ADA detectable warning domes be paid for?

    A: The cost for detectable warnings shall be included in the price bid for sidewalk or concrete median. See detail on Sheet A4.

24. Q: The variable depth milling pay item is only for the milling of existing asphalt in the gutter sections correct? If the existing curb & gutter is not in good condition after milling is performed, will the City pay for replacement of the curb & gutter?

    A: Correct. There is a pay item for 24" curb & gutter, but this replacement should be minimal. These areas will be determined by the City inspector.

25. Q: Was the pre-bid meeting mandatory? Can a list of the attendees be sent out?

    A: The pre-bid meeting was not mandatory. As this was a Teams meeting, no list of attendees was compiled.

ITB# 2021-018
EXHIBIT C

CITY OF TUCKER DISCLOSURE FORM

BIDDERS MUST RETURN THIS FORM WITH THE SUBMITTED PROPOSAL

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

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

Name of Bidder Pittman Construction Company

Name and the official position of the Tucker Official/Employee 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.)

NONE

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 Tucker Official.

Amount/Value:	Description:
n/a	n/a

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

Name:	Relation:
n/a	n/a

Signature 11/4/21 Date Louie A. Pittman, III Print Name

ITB# 2021-018
EXHIBIT D

BID BOND

KNOW ALL MEN BY THESE PRESENTS, THAT

(Name of Contractor) Pittman Construction Company at

(Address of Contractor) P. O. Box 155, Conyers, GA 30012-0155

(Corporation, ~~Partnership and / or Individual~~) hereinafter called Principal, and

(Name of Surety) Travelers Casualty and Surety Company of America

(Address of Surety) One Tower Square, Hartford, CT 06183

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

(Name of Obligee) City of Tucker Georgia

(Address of Obligee) 1975 Lakeside Parkway, Suite 350, Tucker, Georgia 30084

Hereinafter referred to as Obligee, in the penal sum of Five (5%) Percent of Principal's Bid _____ 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 Tucker, Georgia, a proposal for furnishing materials, labor, and equipment for:

Chamblee Tucker Road Lane Diet

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 Tucker, Georgia, and execute a sufficient and satisfactory Performance Bond and Payment Bond payable to the City of Tucker, Georgia, each in an

amount of 100% of the total Contract Price, in form and with security satisfactory to said the City of Tucker, 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 Tucker, 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 4th day of November A.D., 2021.

ATTEST:

(Principal Secretary) Jennifer Pittman-Cantrell

(SEAL)

Pittman Construction Company

(Principal) Louie A. Pittman III, President

BY:

(Witness to Principal) Hugh J. Braughton, Jr.

P. O. Box 155, Conyers, GA 30012-0155

(Address)

P. O. Box 155, Conyers, GA 30012-0155

(Address)

Travelers Casualty and Surety Company of America

(Surety)

ATTEST:

BY:

(Attorney-in-Fact) and Resident Agent Daniel Yates

(Attorney-in-Fact) Betsy J. Holmes

2800 Century Parkway NE, Suite 300, Atlanta, GA 30345

(Address)

(SEAL)

(Witness as to Surety) Dana D. Rutledge

2800 Century Parkway NE, Suite 300, Atlanta, GA 30345

(Address)

TRAVELERS	Travelers Casualty and Surety Company of America Travelers Casualty and Surety Company St. Paul Fire and Marine Insurance Company

POWER OF ATTORNEY

KNOW ALL MEN BY THESE PRESENTS: That Travelers Casualty and Surety Company of America, Travelers Casualty and Surety Company, and St. Paul Fire and Marine Insurance Company are corporations duly organized under the laws of the State of Connecticut (herein collectively called the "Companies"), and that the Companies do hereby make, constitute and appoint **Daniel Yates** of **ATLANTA**, **Georgia**, their true and lawful Attorney-in-Fact to sign, execute, seal and acknowledge any and all bonds, recognizances, conditional undertakings and other writings obligatory in the nature thereof on behalf of the Companies in their business of guaranteeing the fidelity of persons, guaranteeing the performance of contracts and executing or guaranteeing bonds and undertakings required or permitted in any actions or proceedings allowed by law.

IN WITNESS WHEREOF, the Companies have caused this instrument to be signed, and their corporate seals to be hereto affixed, this **17th** day of **January, 2019.**

State of Connecticut

City of Hartford ss.

By: _____
Robert L. Raney, Senior Vice President

On this the **17th** day of **January, 2019**, before me personally appeared **Robert L. Raney**, who acknowledged himself to be the Senior Vice President of Travelers Casualty and Surety Company of America, Travelers Casualty and Surety Company, and St. Paul Fire and Marine Insurance Company, and that he, as such, being authorized so to do, executed the foregoing instrument for the purposes therein contained by signing on behalf of said Companies by himself as a duly authorized officer.

IN WITNESS WHEREOF, I hereunto set my hand and official seal.

My Commission expires the **30th** day of **June, 2021**

_____
Anna P. Nowik, Notary Public

This Power of Attorney is granted under and by the authority of the following resolutions adopted by the Boards of Directors of Travelers Casualty and Surety Company of America, Travelers Casualty and Surety Company, and St. Paul Fire and Marine Insurance Company, which resolutions are now in full force and effect, reading as follows:

RESOLVED, that the Chairman, the President, any Vice Chairman, any Executive Vice President, any Senior Vice President, any Vice President, any Second Vice President, the Treasurer, any Assistant Treasurer, the Corporate Secretary or any Assistant Secretary may appoint Attorneys-in-Fact and Agents to act for and on behalf of the Company and may give such appointee such authority as his or her certificate of authority may prescribe to sign with the Company's name and seal with the Company's seal bonds, recognizances, contracts of indemnity, and other writings obligatory in the nature of a bond, recognizance, or conditional undertaking, and any of said officers or the Board of Directors at any time may remove any such appointee and revoke the power given him or her; and it is

FURTHER RESOLVED, that the Chairman, the President, any Vice Chairman, any Executive Vice President, any Senior Vice President or any Vice President may delegate all or any part of the foregoing authority to one or more officers or employees of this Company, provided that each such delegation is in writing and a copy thereof is filed in the office of the Secretary; and it is

FURTHER RESOLVED, that any bond, recognizance, contract of indemnity, or writing obligatory in the nature of a bond, recognizance, or conditional undertaking shall be valid and binding upon the Company when (a) signed by the President, any Vice Chairman, any Executive Vice President, any Senior Vice President or any Vice President, any Second Vice President, the Treasurer, any Assistant Treasurer, the Corporate Secretary or any Assistant Secretary and duly attested and sealed with the Company's seal by a Secretary or Assistant Secretary; or (b) duly executed (under seal, if required) by one or more Attorneys-in-Fact and Agents pursuant to the power prescribed in his or her certificate or their certificates of authority or by one or more Company officers pursuant to a written delegation of authority; and it is

FURTHER RESOLVED, that the signature of each of the following officers: President, any Executive Vice President, any Senior Vice President, any Vice President, any Assistant Vice President, any Secretary, any Assistant Secretary, and the seal of the Company may be affixed by facsimile to any Power of Attorney or to any certificate relating thereto appointing Resident Vice Presidents, Resident Assistant Secretaries or Attorneys-in-Fact for purposes only of executing and attesting bonds and undertakings and other writings obligatory in the nature thereof, and any such Power of Attorney or certificate bearing such facsimile signature or facsimile seal shall be valid and binding upon the Company and any such power so executed and certified by such facsimile signature and facsimile seal shall be valid and binding on the Company in the future with respect to any bond or understanding to which it is attached.

I, **Kevin E. Hughes**, the undersigned, Assistant Secretary of Travelers Casualty and Surety Company of America, Travelers Casualty and Surety Company, and St. Paul Fire and Marine Insurance Company, do hereby certify that the above and foregoing is a true and correct copy of the Power of Attorney executed by said Companies, which remains in full force and effect.

Dated this **4th** day of **November**, **2021**.

_____
Kevin E. Hughes, Assistant Secretary

To verify the authenticity of this Power of Attorney, please call us at 1-800-421-3880.
Please refer to the above-named Attorney-in-Fact and the details of the bond to which this Power of Attorney is attached.

TRAVELERS	Travelers Casualty and Surety Company of America Travelers Casualty and Surety Company St. Paul Fire and Marine Insurance Company

POWER OF ATTORNEY

KNOW ALL MEN BY THESE PRESENTS: That Travelers Casualty and Surety Company of America, Travelers Casualty and Surety Company, and St. Paul Fire and Marine Insurance Company are corporations duly organized under the laws of the State of Connecticut (herein collectively called the "Companies"), and that the Companies do hereby make, constitute and appoint **Betsy J. Holmes** of **ATLANTA**, **Georgia**, their true and lawful Attorney-in-Fact to sign, execute, seal and acknowledge any and all bonds, recognizances, conditional undertakings and other writings obligatory in the nature thereof on behalf of the Companies in their business of guaranteeing the fidelity of persons, guaranteeing the performance of contracts and executing or guaranteeing bonds and undertakings required or permitted in any actions or proceedings allowed by law.

IN WITNESS WHEREOF, the Companies have caused this instrument to be signed, and their corporate seals to be hereto affixed, this **17th** day of **January, 2019.**

State of Connecticut

City of Hartford ss.

By: _____
Robert L. Raney, Senior Vice President

On this the **17th** day of **January, 2019**, before me personally appeared **Robert L. Raney**, who acknowledged himself to be the Senior Vice President of Travelers Casualty and Surety Company of America, Travelers Casualty and Surety Company, and St. Paul Fire and Marine Insurance Company, and that he, as such, being authorized so to do, executed the foregoing instrument for the purposes therein contained by signing on behalf of said Companies by himself as a duly authorized officer.

IN WITNESS WHEREOF, I hereunto set my hand and official seal.

My Commission expires the **30th** day of **June, 2021**

_____
Anna P. Nowik, Notary Public

This Power of Attorney is granted under and by the authority of the following resolutions adopted by the Boards of Directors of Travelers Casualty and Surety Company of America, Travelers Casualty and Surety Company, and St. Paul Fire and Marine Insurance Company, which resolutions are now in full force and effect, reading as follows:

RESOLVED, that the Chairman, the President, any Vice Chairman, any Executive Vice President, any Senior Vice President, any Vice President, any Second Vice President, the Treasurer, any Assistant Treasurer, the Corporate Secretary or any Assistant Secretary may appoint Attorneys-in-Fact and Agents to act for and on behalf of the Company and may give such appointee such authority as his or her certificate of authority may prescribe to sign with the Company's name and seal with the Company's seal bonds, recognizances, contracts of indemnity, and other writings obligatory in the nature of a bond, recognizance, or conditional undertaking, and any of said officers or the Board of Directors at any time may remove any such appointee and revoke the power given him or her; and it is

FURTHER RESOLVED, that the Chairman, the President, any Vice Chairman, any Executive Vice President, any Senior Vice President or any Vice President may delegate all or any part of the foregoing authority to one or more officers or employees of this Company, provided that each such delegation is in writing and a copy thereof is filed in the office of the Secretary; and it is

FURTHER RESOLVED, that any bond, recognizance, contract of indemnity, or writing obligatory in the nature of a bond, recognizance, or conditional undertaking shall be valid and binding upon the Company when (a) signed by the President, any Vice Chairman, any Executive Vice President, any Senior Vice President or any Vice President, any Second Vice President, the Treasurer, any Assistant Treasurer, the Corporate Secretary or any Assistant Secretary and duly attested and sealed with the Company's seal by a Secretary or Assistant Secretary; or (b) duly executed (under seal, if required) by one or more Attorneys-in-Fact and Agents pursuant to the power prescribed in his or her certificate or their certificates of authority or by one or more Company officers pursuant to a written delegation of authority; and it is

FURTHER RESOLVED, that the signature of each of the following officers: President, any Executive Vice President, any Senior Vice President, any Vice President, any Assistant Vice President, any Secretary, any Assistant Secretary, and the seal of the Company may be affixed by facsimile to any Power of Attorney or to any certificate relating thereto appointing Resident Vice Presidents, Resident Assistant Secretaries or Attorneys-in-Fact for purposes only of executing and attesting bonds and undertakings and other writings obligatory in the nature thereof, and any such Power of Attorney or certificate bearing such facsimile signature or facsimile seal shall be valid and binding upon the Company and any such power so executed and certified by such facsimile signature and facsimile seal shall be valid and binding on the Company in the future with respect to any bond or understanding to which it is attached.

I, **Kevin E. Hughes**, the undersigned, Assistant Secretary of Travelers Casualty and Surety Company of America, Travelers Casualty and Surety Company, and St. Paul Fire and Marine Insurance Company, do hereby certify that the above and foregoing is a true and correct copy of the Power of Attorney executed by said Companies, which remains in full force and effect.

Dated this **4th** day of **November**, **2021**.

_____
Kevin E. Hughes, Assistant Secretary

To verify the authenticity of this Power of Attorney, please call us at 1-800-421-3880.
Please refer to the above-named Attorney-in-Fact and the details of the bond to which this Power of Attorney is attached.

PITTMAN CONSTRUCTION COMPANY

1487 Farmer Road, Conyers Georgia 30012 770-922-8660

City of Jefferson, Georgia

Full Depth Reclamation on a city street. Approximately 12,000 syds and asphalt paving

Project Time: June 2017 - March 2018

Contact Person: Jerry Hood, City Engineer, 706-367-5121

City of Greensboro, Georgia

Full Depth Reclamation on several city streets. Approximately 10,000 syds and asphalt paving

Project Time: February 2015 – September 2015

Contact Person: Larry Postell, City Manager 706-453-7967 Richard Pendergrass, Consultant Engineer 770-785-7853

Jasper County, Georgia

Full Depth Reclamation on Avant Road. Included approximately 23,700 syds and asphalt paving

Project Time: February 2015 - December 2015

Contact Person: Mike Benton, County Manager 706-468-4900 Mark Whitley, Consultant Engineer 678-614-4218

PITTMAN CONSTRUCTION COMPANY

Newton County Public Works

0.50 miles of widening and intersection reconstruction on SR 142 at Airport Road, involved grading, storm drainage, milling, asphalt paving, signage and striping, also involved coordination with GDOT and staged construction

Completion Date: September 2015

Contract Amount: $579,249

Contact Person: Chester Clegg, Director of Public Works 678-625-1325

Hancock County Public Works

7.80 miles of patching, milling and resurfacing on various county roads

Completion Date: September 2017

Contract Amount: $757,941.00

Contact Person: Borderick Foster, Director of Public Works 706-444-5746

Greene County Public Works

10.00 miles of resurfacing on various county roads

Completion Date: July 2017

Contract Amount: $2,014,561

Contact Person: Scott Allen, Director of Public Works 706-453-3342

Georgia Department of Transportation

8.50 miles of resurfacing on SR 24 in Baldwin County

Completion Date: January 2021

Contract Amount: $763,575

Contact Person: Danielle Hollinshead, Asst. Area Manager 478-445-5130