



4800 Ashford Dunwoody Road  
Dunwoody, Georgia 30338  
dunwoodyga.gov | 678.382.6700

## **MEMORANDUM**

**To:** Mayor and City Council

**From:** Michael Smith, Public Works Director

**Date:** March 11, 2019

**Subject:** **Funding Authorization for Stormwater and Pedestrian Improvements at Tilly Mill Road and Andover Drive**

### **BACKGROUND**

The existing non-signalized pedestrian crossing on Tilly Mill Road at Andover Drive is challenging for pedestrians due to the volume and speed of vehicles on Tilly Mill Road. Based on a traffic volume of over 11,000 vehicles per day and an 85<sup>th</sup> percentile speed of 44 miles per hour on this section of Tilly Mill Road, guidance from Federal Highway Administration (FHWA) research suggests that there is a possible increase in pedestrian crash risk at crosswalks under these traffic conditions without other pedestrian enhancements.

For these conditions, FHWA recommends considering curb extensions, pedestrian refuge islands or pedestrian hybrid beacons. The number of pedestrians crossing at Andover is well below the thresholds needed to meet the warrants for a hybrid beacon. Therefore, a refuge island was deemed to be the most appropriate crosswalk enhancement at this location. Where traffic volumes are high, refuge islands allow pedestrians to cross traffic one lane at a time and provide increased visibility of the crossing. The island also serves to reduce the perceived roadway width, which can help to lower speeds. The city has previously installed refuge islands in front of Dunwoody Elementary School and on Chamblee Dunwoody Road at Redfield.

The proposed refuge island will be constructed by shifting the northbound through lane onto what is currently an auxiliary right turn lane. To safely transition the northbound lane around the new island, the curb and sidewalk north of the intersection will need to be shifted slightly to the east. During the design of the improvements it has been determined that the roadway drainage does not meet current standards even in the existing condition. As a result, the project includes increasing the capacity of the existing pipes through a combination of pipe lining and replacement with larger pipe. Several new roadway drains will also be added.

Georgia Development Partners' estimated cost for the grading, curb, sidewalk, refuge island and drainage improvements using their existing unit price contract is \$253,295 including \$72,000 for upgrades to the stormwater system. Because the stormwater work is to address deficiencies that predate the crosswalk improvements, staff recommends funding that portion of the work from the stormwater utility repairs and maintenance budget. The



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remaining costs exceed the amount budgeted for this project but can be covered by surplus funds from previous crosswalk projects that were completed under budget.

#### **RECOMMENDED ACTION**

To provide adequate funding for the project, staff recommends reallocating surplus capital funds from the Chamblee Dunwoody at Redfield and North Peachtree at Barclay crosswalk projects to the Tilly Mill at Andover crosswalk project. Staff also requests authorization to provide funding through Georgia Development Partner's existing unit price contract in the amount \$253,000 plus a 10% contingency to construct the proposed crosswalk improvements.



### Estimate

**Tilly Mill @ Andover**  
**Dunwoody, Georgia**  
**12/17/2018 (Revised 3-5-19)**

1.00	ea	Mobilization	\$2,400.00	\$2,400.00
45.00	day	Traffic Control	\$750.00	\$33,750.00
0.41	ac	Clearing	\$4,500.00	\$1,845.00
0.15	mi	Grading per mile	\$52,800.00	\$7,920.00
212.00	tn	GAB	\$29.00	\$6,148.00
0.41	ac	Temporary Grassing	\$950.00	\$389.50
1.00	ac	Permenant Grassing	\$1,450.00	\$1,450.00
2.00	tn	Mulch	\$350.00	\$700.00
0.25	ac	Pine Straw	\$5,257.80	\$1,314.45
11.00	ea	Construct & Remove Inlet Sediment Trap	\$225.00	\$2,475.00
909.00	lf	Silt Fence Type C	\$3.25	\$2,954.25
11.00	ea	Maintenance of Inlet Sediment Trap	\$50.00	\$550.00
909.00	lf	Maintenance of Type C	\$1.00	\$909.00
160.00	lf	Tree Save Fence	\$1.50	\$240.00
950.00	lf	24" Curb and Gutter and Demolition	\$8.50	\$8,075.00
3,250.00	sf	Sidewalk Demolition	\$1.84	\$5,980.00
623.00	lf	Sawcutting	\$3.25	\$2,024.75
1,242.00	sf	Asphalt Demolition	\$5.20	\$6,458.40
2,082.00	sf	Driveway Demolition	\$5.20	\$10,826.40
90.00	lf	18" Pipe Demolition	\$44.50	\$4,005.00
4.00	ea	Storm Structure Demolition	\$950.00	\$3,800.00
146.00	lf	18" RCP	\$35.50	\$5,183.00
73.00	lf	24" RCP	\$45.50	\$3,321.50
250.00	lf	30" RCP	\$58.50	\$14,625.00
8.00	ea	Catch Basins GP1 with Curb Inlet	\$2,950.00	\$23,600.00
1.00	ea	Drop Inlet, GP1	\$2,250.00	\$2,250.00
2.00	ea	Junction Box	\$1,950.00	\$3,900.00
5.00	vf	GP1, Addl Depth	\$195.00	\$975.00
1.00	ea	Reconstruct Junction Box	\$1,500.00	\$1,500.00
19.00	cy	Class B Pavement Widening	\$215.00	\$4,085.00
293.00	sy	Sidewalk 4"	\$33.50	\$9,815.50
340.00	sf	8" Handicap Ramp	\$6.00	\$2,040.00
921.00	lf	24" Curb and Gutter 6 in x 24 in, TP 2	\$18.50	\$17,038.50
16.20	sy	Concrete Median, 6 in	\$39.50	\$639.90
73.00	lf	Header Curb 6"	\$18.00	\$1,314.00
255.00	sy	Driveway Concrete, 6 in TK,High Early	\$56.80	\$14,484.00
1.00	ea	Reset Highway Sign Standard	\$150.00	\$150.00
2.00	ea	Adjust Valve to Grade	\$300.00	\$600.00
1.00	ea	Adjust Water Meter Box to Grade	\$300.00	\$300.00
120.00	lf	Water Service Line 1 in	\$15.50	\$1,860.00
3.00	ea	Relocate Water Meter, incl box	\$350.00	\$1,050.00



8,925.00	sf	Sod	\$0.61	\$5,444.25
0.00	ls	Asphalt	\$26,000.00	\$0.00
0.00	ls	Milling and Overlay	\$0.00	\$0.00
60.00	lf	Reinstall Sprinkler Line	\$8.00	\$480.00
6.00	ea	Reinstall Sprinkler Head	\$550.00	\$3,300.00
20.00	tn	Type 2 Backfill (#57 Stone)	\$36.50	\$730.00
34.00	cy	Flowable Fill	\$295.00	\$10,030.00
150.00	cy	Unclassified Excavation	\$15.00	\$2,250.00
422.00	cy	Dirt Import Allowance	\$22.50	\$9,495.00
1.00	ls	Surveying Allowance	\$8,620.00	\$8,620.00

<b>Total</b>	<b>\$253,295.40</b>
<b>10% Contingency</b>	<b>\$25,329.54</b>

**\$278,624.94**

#### Unit Prices For Additional Work If Required

Mass Rock - \$30.00/cy  
 Rippable Rock - \$8.00/cy  
 Trench Rock - \$75.00/cy  
 Haul topsoil/unsuitable off site - \$16.50/cy  
 Import Structural fill - \$16.50/cy  
 Export Material - \$16.50/cy  
 Undercutting and Demucking - \$6.50/cy  
 Spreading/Compaction of Import - \$1.50/cy  
 GAB - \$38.00/tn

#### Notes

The proposal is based on plans by Columbia Engineering dated 11-7-18.  
 Any under cutting, mucking, additional topsoil, soil drying and haul in/haul off is excluded.  
 Permitting has not been included.  
 Pipe lining by others.  
 All items not specifically noted are considered excluded.



IN WITNESS WHEREOF THE CONTRACTOR and THE OWNER have executed this AGREEMENT  
this 17th day of December 2018.

CONTRACTOR:

Georgia Development Partners

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Printed Name & Title

\_\_\_\_\_  
Date

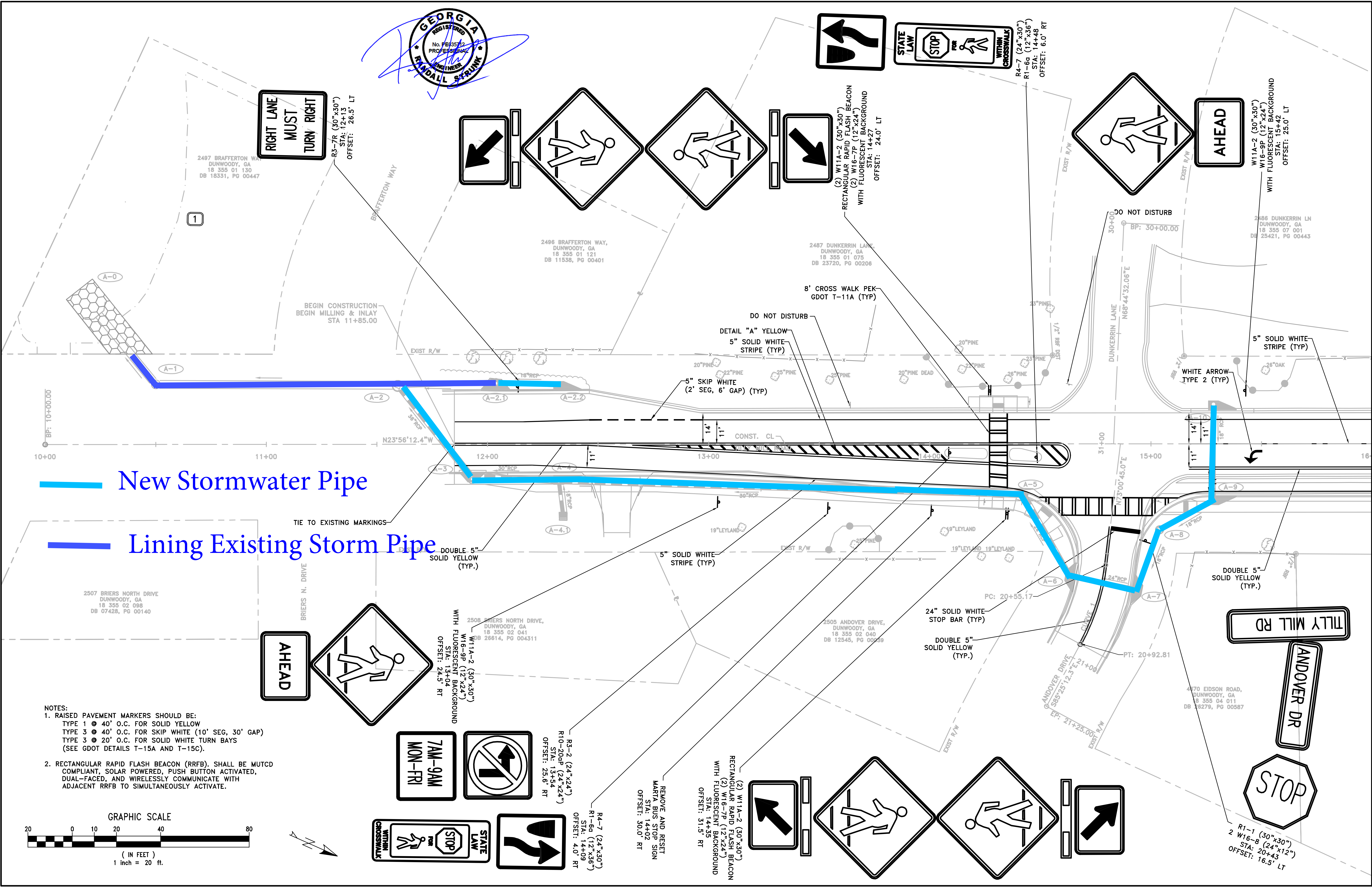
OWNER:

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Printed Name & Title

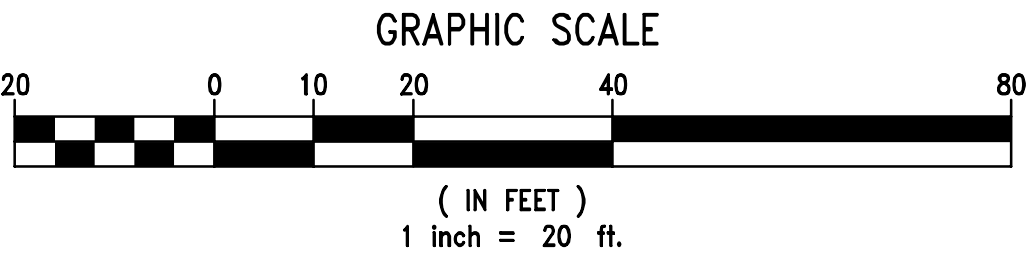
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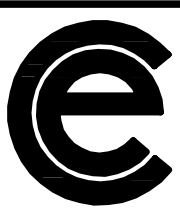


MATCHLINE A SHEET 26-02

- NOTES:
1. RAISED PAVEMENT MARKERS SHOULD BE:  
TYPE 1 @ 40' O.C. FOR SOLID YELLOW  
TYPE 3 @ 40' O.C. FOR SKIP WHITE (10' SEG, 30' GAP)  
TYPE 3 @ 20' O.C. FOR SOLID WHITE TURN BAYS  
(SEE GDOT DETAILS T-15A AND T-15C).
  2. RECTANGULAR RAPID FLASH BEACON (RRFB), SHALL BE MUTCD COMPLIANT, SOLAR POWERED, PUSH BUTTON ACTIVATED, DUAL-FACED, AND WIRELESSLY COMMUNICATE WITH ADJACENT RRFB TO SIMULTANEOUSLY ACTIVATE.



DATE	REVISIONS	DATE	REVISIONS

 **COLUMBIA ENGINEERING**  
2862 BUFORD HIGHWAY  
SUITE 200  
DULUTH, GA 30096  
(770) 925-0357

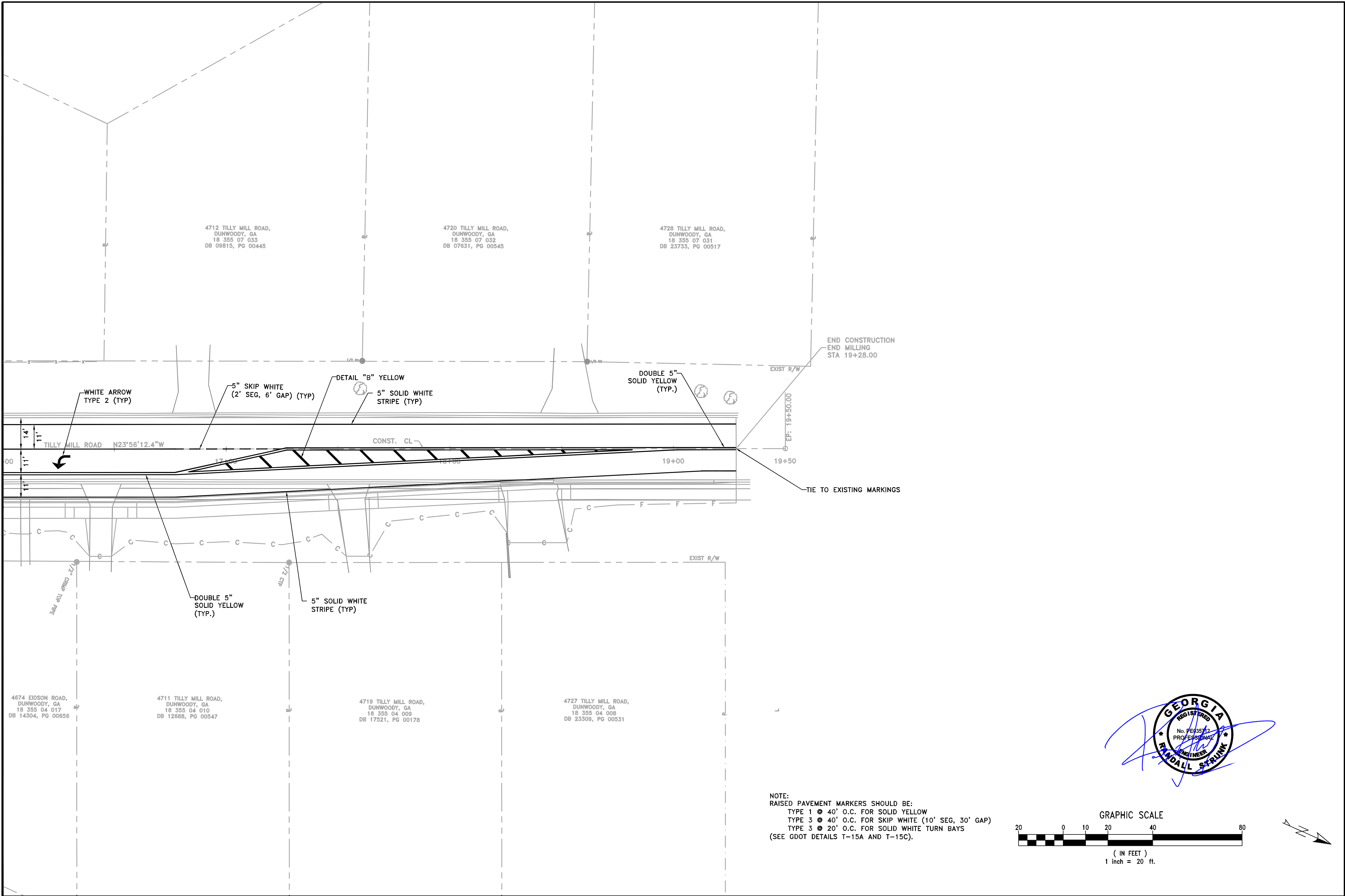
**CITY OF DUNWOODY  
PUBLIC WORKS**  
4800 ASHFORD DUNWOODY ROAD  
DUNWOODY, GEORGIA 30338

**TILLY MILL ROAD AT ANDOVER DRIVE  
PEDESTRIAN REFUGE ISLAND AND SOUTHBOUND LEFT TURN LANE PROJECT  
SIGNING AND MARKING PLANS**

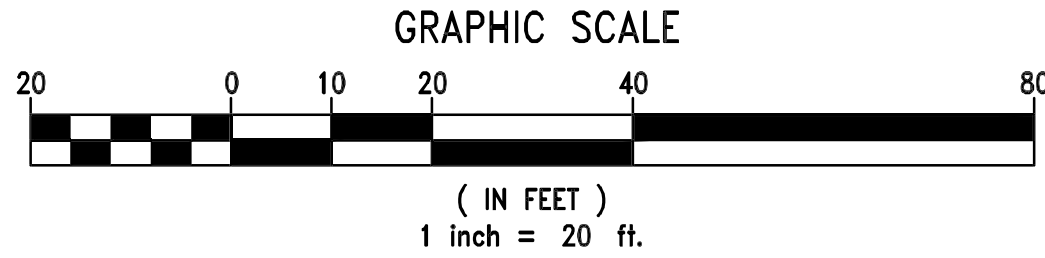
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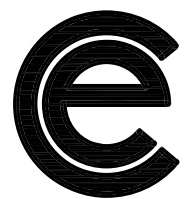
MATCHLINE A SHEET 26-01



NOTE:  
RAISED PAVEMENT MARKERS SHOULD BE:  
TYPE 1 ● 40' O.C. FOR SOLID YELLOW  
TYPE 3 ● 40' O.C. FOR SKIP WHITE (10' SEG, 30' GAP)  
TYPE 3 ● 20' O.C. FOR SOLID WHITE TURN BAYS  
(SEE GDOT DETAILS T-15A AND T-15C).



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4800 ASHFORD DUNWOODY ROAD  
DUNWOODY, GEORGIA 30338

TILLY MILL ROAD AT ANDOVER DRIVE  
INTERSECTION IMPROVEMENT AND ACCESS CONTROL PROJECT  
SIGNING AND MARKING PLANS

DESIGNED BY MJP	CES JOB NO. 5112.00	DRAWING NUMBER
DRAWN BY DEW	DATE 1/22/2019	
CHECKED BY RWS	SCALE AS NOTED	

26-02