

ORIGINAL TO GENERAL FILES

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

**OFFICE OF DESIGN POLICY & SUPPORT
INTERDEPARTMENTAL CORRESPONDENCE**

FILE P.I. #0009444 **OFFICE** Design Policy & Support
GDOT District 1 - Gainesville
Gwinnett County **DATE** 10/31/11
Lawrenceville & Margaret Winn Holt
Elementary Schools – Safe Routes to School

FROM  for Brent Story, State Design Policy Engineer

TO SEE DISTRIBUTION

SUBJECT APPROVED CONCEPT REPORT

Attached is the approved Concept Report for the above subject project.

Attachment

DISTRIBUTION:

Genetha Rice-Singleton, Program Control Administrator
Bobby Hilliard, State Program Delivery Engineer
Cindy VanDyke, State Transportation Planning Administrator
Angela Robinson, Financial Management Administrator
Glenn Bowman, State Environmental Administrator
Kathy Zahul, State Traffic Engineer
Georgene Geary, State Materials & Research Engineer
Ron Wishon, State Project Review Engineer
Jeff Baker, State Utilities Engineer
Ken Thompson, Statewide Location Bureau Chief
Michael Henry, Systems & Classification Branch Chief
Todd McDuffie, District Engineer
Robert Mahoney, District Preconstruction Engineer
Allen Ferguson, District Utilities Engineer
Derrick Cameron, Project Manager
BOARD MEMBER - 7th Congressional District

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA
PROJECT CONCEPT REPORT
SAFE ROUTES TO SCHOOL

County: Gwinnett
P. I. Number: 0009444
Federal Route Number: N/A
State Route Number: N/A

Lawrenceville & Margaret Winn Holt Elementary Schools- SRTS

Submitted for approval: (Submit to "Concept Reports" in Outlook)

DATE 12 AUGUST 2011

Sean Johnston, Kimley-Horn and Associates, Inc.
Design Consultant Name and Firm Name

DATE 12 AUGUST 2011

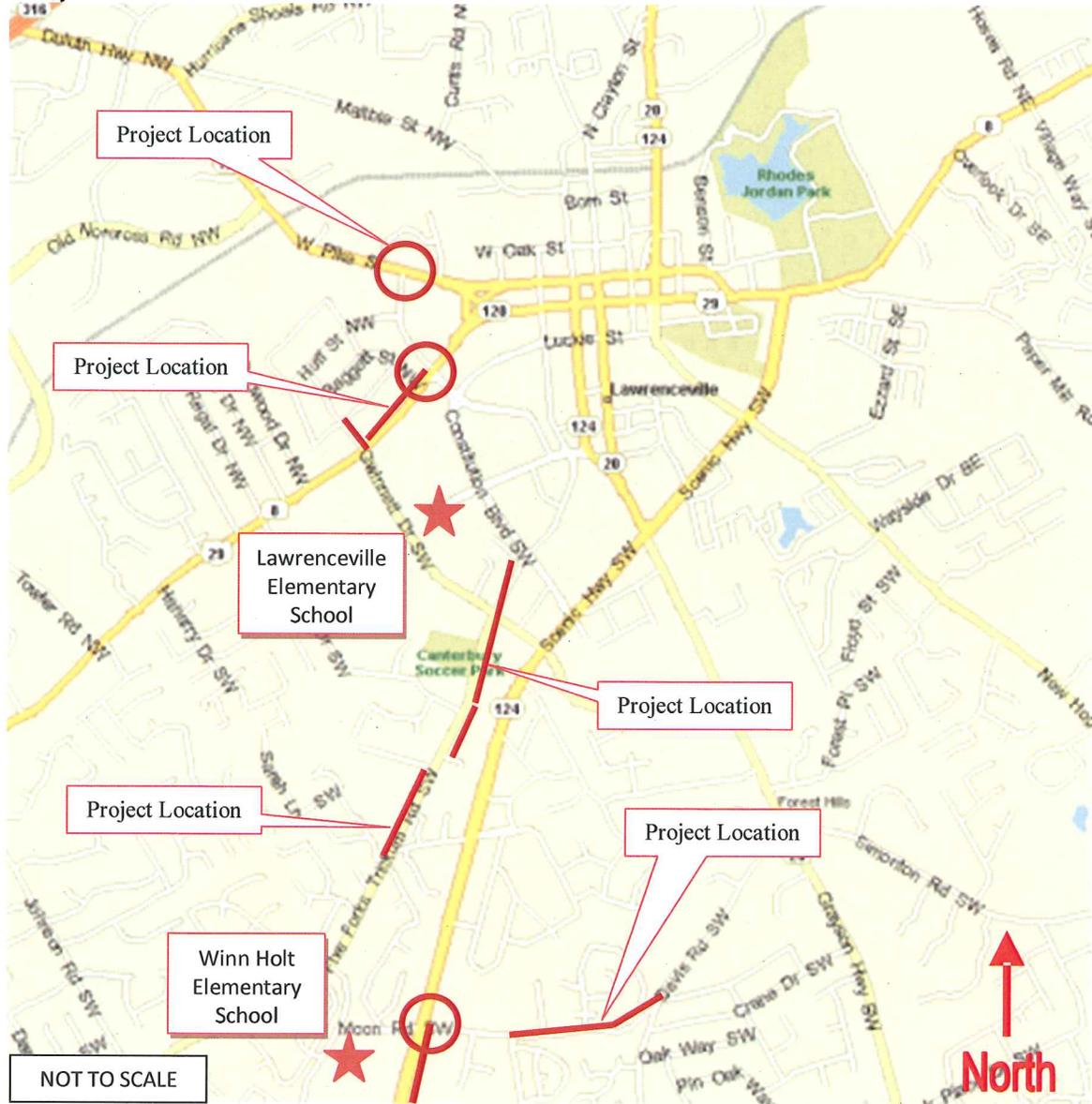
[Signature]
Project Manager

Approvals:

Concur: Bobby Hilliard Date: 8-19-2011
State Program Delivery Engineer

Approve: [Signature] Date: 10-30-11
Director of Engineering

Project Concept Report Page 2
Project Number: N/A
P. I. Number: 0009444
County: Gwinnett



Legend:



School Location



Project Location

Project Location Map

Project Number: N/A
P.I. Number: 0009444
Gwinnett County, GA

Lawrenceville & Margaret Winn Holt Elementary
Schools - Safe Routes to School

Source: Microsoft Streets & Trips 2008

Need and Purpose:

This project is a Safe Routes to School (SRTS) infrastructure project that will improve pedestrian and bicycling accessibility for students within a two-mile radius of Lawrenceville Elementary School and Margaret Winn Holt Elementary School in Gwinnett County. Lawrenceville Elementary School is located on Gwinnett Drive between W Crogan Street and Stone Mountain Street. Winn Holt Elementary School is located at the intersection of Old Snellville Highway and Moon Road.

The SRTS infrastructure program administered by the Federal Highway Administration is intended to promote walking and bicycling by students living within a two-mile radius of a school. The desired outcomes of the SRTS infrastructure program include increased health and fitness for students, as well as accessibility and environmental benefits for the community at large.

The City of Lawrenceville has identified a need to upgrade the existing sidewalk network in the vicinity of the schools. This project will improve pedestrian accessibility through installation of sidewalks and improved crosswalks and traffic signal features. The project will also improve bicycle accessibility, as Georgia code states that local jurisdictions may allow operation of bicycles on sidewalks by persons less than 12 years of age through local ordinance.

Other Projects in the Area:

- ITS project along SR 120 between Lawrenceville Suwannee Road and SR 20; GDOT Project No. CSSTP-0006-00(830); PI No. 0006830
- Reconstruction/Rehabilitation project along SR 20; GDOT Project No. MLP00-0020-00(100); PI No. 161900
- Multi-use Trail Project along Atha Street; GDOT Project No. CSTE-0008-00(150); PI No. 0008150
- Milling and resurfacing SR 124 from Clower Blvd to SR 8/US29/Winder Highway; GDOT Project No. CSNHS-M003-00(729); PI No. M003729

Description of the proposed project:

This project consists of pedestrian improvements in the vicinity of Lawrenceville Elementary and Margaret Winn Holt Elementary in Gwinnett County, Georgia. New crosswalks, curb ramps and count-down pedestrian signal heads will be installed at the intersections of SR 120/W Pike Street at Langley Drive, Langley Drive at US 29/SR 8/W Crogan Street, and Moon Road at SR 124/Scenic Highway. The existing crosswalk near Lawrenceville Elementary School on Gwinnett Drive will be upgraded with improved signage and markings, and new crosswalks with curb ramps will be installed at the unsignalized intersections of Moon Road at Old Snellville Highway and Moon Road at Charleston Lane. New sidewalk will be installed on the west side of W Crogan Street/SR 8/US 29 from the intersection with Langley Drive to the intersection of Ridgecrest Drive, and along the east side of Ridgecrest Drive from W Crogan Street/SR 8/US 29 to Stark Street. New sidewalk will be installed on the east side of Stone Mountain Street from Gwinnett Drive to Salem Drive, and on the west side of Stone Mountain Street from Gwinnett

Project Number: N/A

P. I. Number: 0009444

County: Gwinnett

Drive to Constitution Boulevard and Nottingham Drive to Somerset Drive. Existing gaps in sidewalk will be completed along the north side of Moon Road from SR 124/Scenic Highway to Davis Road, and along SR 124/Scenic Highway from Channel Drive to Moon Road

See attachment #2 for project concept typical intersection improvement layout.

Is the project located in a PM 2.5 Non-attainment area? Yes No

Is this project located in an Ozone Non-attainment area? Yes No

PDP Classification: Major (), Minor (X)

Federal Oversight: Full Oversight (), Exempt(X), State Funded(), or Other ()

Functional Classification:

US 29/SR8/W Crogan Street: Urban Minor Arterial

SR 124/Scenic Highway: Urban Principal Arterial

Ridgecrest Drive: Urban Local Street

Gwinnett Drive: Urban Local Street

Stone Mountain Street: Urban Minor Arterial

Moon Road: Urban Local Street

U. S. Route Number(s): W Crogan Street: US 29

State Route Number(s): W Crogan Street: SR8
Scenic Highway: SR 124

Traffic (ADT): N/A

Existing design features:

- Existing Typical Section:
 - US 29/SR 8/W Crogan Street: Two 12' minimum travel lanes in each direction, 14' two-way left turn lane, urban shoulders with curb and gutter
 - Ridgecrest Drive: One 12' minimum travel lane in each direction, graded shoulders with ditches
 - Stone Mountain Street: One 12' minimum travel lane in each direction, graded shoulders with ditches
 - Moon Road: One 12' minimum travel lane in each direction, graded shoulders with ditches
 - SR 124/Scenic Highway: Two 12' minimum travel lanes in each direction with 24-foot raised median and approximate urban shoulders with curb and gutter

- Posted Speed
 - Langley Drive: 35 mph
 - W Crogan Street: 40 mph
 - Ridgecrest Drive: 25 mph (Not Posted)
 - Gwinnett Drive: 40 mph
 - Stone Mountain Street: 35 mph
 - Moon Road: 35 mph
 - Scenic Highway: 45 mph
- Width of Right of Way

In order to be eligible for Safe Routes to School funding, the local government has demonstrated that adequate existing right-of-way is available to construct the proposed project.

 - US 29/SR 8/W Crogan Street: 85' (approximate)
 - Ridgecrest Drive: 50' (approximate)
 - Gwinnett Drive: 70' (approximate)
 - Stone Mountain Street: 50' (approximate)
 - Moon Road: 50' (approximate)
 - SR 124/Scenic Highway: 100' (approximate)
- Major structures: None
- Major interchanges or intersections along project
 - Major Intersections:
 - W Pike Street/SR 120 at Langley Drive
 - Langley Drive at W Crogan Street/SR 8/US 29
 - W Crogan Street/SR 8/US 29 at Gwinnett Drive
 - Scenic Highway/SR 124 at Moon Road

Proposed Design Features:

- Proposed Typical Section:
 - US 29/SR 8/W Crogan Street: Two 12' minimum travel lanes in each direction, 14' two-way left turn lane, urban shoulders with curb and gutter, variable width (0' to 5') grassed strip and 5' sidewalk on the west side of the road
 - Ridgecrest Drive: One 12' minimum travel lane in each direction, graded shoulders with variable width (2' to 5') grassed strip with 5' sidewalk on the east side of the road
 - Stone Mountain Street: One 12' minimum travel lane in each direction, urban shoulders with header curb and 5' sidewalks
 - Moon Road: One 12' minimum travel lane in each direction, urban shoulders with curb and gutter, variable width (0' to 5') grassed strip and 5' sidewalk on the north side of the road
 - SR 124/Scenic Highway: Two 12' minimum travel lanes in each direction with 24-foot raised median and urban shoulders with curb and gutter, 2' grassed strip and 5' sidewalk on the east side of the roadway

- Proposed Design Speed:
 - Langley Drive: 35 mph
 - US 29/SR 8/W Crogan Street: 40 mph
 - Ridgecrest Drive: 25 mph
 - Gwinnett Drive: 40 mph
 - Stone Mountain Street: 35 mph
 - Moon Road: 35 mph
 - SR 124/Scenic Highway: 45 mph
- Proposed Sidewalk Width: 5' typical, 4' minimum
- Proposed Maximum Sidewalk Cross Slope: 2%
- Proposed Minimum Crosswalk Width: 8 feet
- Right of way
 - Easements: Temporary (), Permanent (), Utility (), Other ().
 - Type of access control: NA
 - Number of parcels: 0
 - Number of displacements:
 - Business: None
 - Residences: None
 - Mobile homes: None
 - Other: None
- Structures: N/A
- Major intersections along the project:
 - W Pike Street/SR 120 at Langley Drive
 - Langley Drive at W Crogan Street/SR 8/US 29
 - W Crogan Street/SR 8/US 29 at Gwinnett Drive
 - Scenic Highway/SR 124 at Moon Road
- Traffic control during construction: Minimal impact lane closures are anticipated along W. Crogan Street, Ridgecrest Drive, Gwinnett Drive, Stone Mountain Street, Scenic Highway and Moon Road during crosswalk striping installation.
- Design Exceptions to controlling criteria anticipated:

	<u>UNDETERMINED</u>	<u>YES</u>	<u>NO</u>
HORIZONTAL ALIGNMENT:	()	()	(X)
ROADWAY WIDTH:	()	()	(X)
SHOULDER WIDTH:	()	()	(X)
VERTICAL GRADES:	()	()	(X)
CROSS SLOPES:	()	()	(X)
STOPPING SIGHT DISTANCE:	()	()	(X)
SUPERELEVATION RATES:	()	()	(X)
HORIZONTAL CLEARANCE:	()	()	(X)
SPEED DESIGN:	()	()	(X)
VERTICAL CLEARANCE:	()	()	(X)
BRIDGE WIDTH:	()	()	(X)
BRIDGE STRUCTURAL CAPACITY:	()	()	(X)
LATERAL OFFSET TO OBSTRUCTION	()	()	(X)

- Design Variances: None Anticipated
- Environmental concerns:
 - There is an existing crossing of Pew Creek on Stone Mountain Street south of Gwinnett Drive. Construction of sidewalk along Stone Mountain Street may require a stream buffer variance or US Army Corp of Engineers 404 Permit
- Level of environmental analysis:
 - Are Time Savings Procedures appropriate? Yes (X), No (),
 - Categorical exclusion: Anticipated
 - Environmental Assessment/Finding of No Significant Impact(FONSI): ()
 - Environmental Impact Statement (EIS) ().
- Utility involvements:
 - Utility facilities located within the project limits include:
 - Gas (Atlanta Gas Light)
 - Power (Georgia Power)
 - Water (Gwinnett County)
 - Telecommunications (AT&T, Comcast, Verizon)

VE Study Required: Yes () No (X)

Benefit/Cost Ratio: N/A

Project Cost Estimate and Funding Responsibilities:

	PE	ROW	UTILITY	CST	MITIGATION
By Whom	GDOT	N/A	N/A	GDOT	N/A
\$ Amount	\$55,000.00	N/A	N/A	\$457,904.47	N/A

**CST Cost includes: Construction and Engineering and Inspection*

Project responsibilities:

- Design: Consultant/GDOT
- Right of Way Acquisition: N/A
- Right of Way funding (real property): N/A
- Relocation of Utilities: GDOT/Utility Owner
- Letting to contract: GDOT
- Supervision of construction: GDOT
- Providing material pits: Construction Contractor
- Providing detours: N/A
- Environmental Studies/Documents/Permits: Consultant/GDOT
- Environmental Mitigations: GDOT

Coordination

- Concept Meeting date and brief summary: 05/23/2011 - Minutes Attached
- P. A. R. meetings, dates and results: None Required
- FEMA, USCG, and/or TVA: N/A
- Public involvement: N/A
- Local government comments: N/A
- Other projects in the area:
 - ITS project along SR 120 between Lawrenceville Suwannee Road and SR 20; GDOT Project No. CSSTP-0006-00(830); PI No. 0006830
 - Reconstruction/Rehabilitation project along SR 20; GDOT Project No. MLP00-0020-00(100); PI No. 161900
 - Multi-use Trail Project along Atha Street; GDOT Project No. CSTEE-0008-00(150); PI No. 0008150
 - Milling and resurfacing SR 124 from Clower Blvd to SR 8/US29/Winder Highway; GDOT Project No. CSNHS-M003-00(729); PI No. M003729
- Other coordination to date: N/A

Scheduling – Responsible Parties’ Estimate

- | | | |
|---|--------------|-----------|
| • Time to complete the environmental process: | Begin: 5/11 | End: 4/12 |
| • Time to complete preliminary construction plans: | Begin: 10/11 | End: 6/12 |
| • Time to complete right-of-way plans: | Begin: n/a | End: n/a |
| • Time to complete the Section 404 Permit: | Begin: n/a | End: n/a |
| • Time to complete final construction plans: | Begin: 7/12 | End: 2/13 |
| • Time to complete the purchase of right-of-way: | Begin: n/a | End: n/a |
| • List other major items that will affect the project schedule: | Begin: n/a | End: n/a |

Alternates considered: (1) Install new crosswalks, curb ramps and count-down pedestrian signal heads at the signalized intersections of W Pike Street/SR 120 and Langley Drive, Langley Drive and W Crogan Street/SR 8/US 29, and Moon Road and Scenic Highway/SR 124. Install an enhanced crosswalk near Lawrenceville Elementary School on Gwinnett Drive, and install curb ramps with crosswalks at the unsignalized intersection of Moon Road at Old Snellville Highway and Moon Road at Charleston Lane. Install new sidewalk on the west side of W Crogan Street/SR 8/US 29 from the intersection with Langley Drive to the intersection of Ridgecrest Drive, and along the east side of Ridgecrest Drive from W Crogan Street/SR 8/US 29 to Stark Street. Install new sidewalk on the east side of Stone Mountain Street from Gwinnett Drive to Salem Drive, and on the west side of Stone Mountain Street from Gwinnett Drive to Constitution Boulevard and from Nottingham Drive to Somerset Drive. Complete existing gaps in sidewalk the north side of Moon Road from Scenic Highway/SR 124 to Davis Road, and along Scenic Highway from Channel Drive to Moon Road.

(2) In addition to the proposed improvements described in Alternative 1, install sidewalk along the east side of Ridgecrest Drive from Stark Street to Huff Street, along the north side of SR 120/W. Pike Street from the CSX Railroad bridge to Langley Drive, and along the south side of US 29/SR 8/E. Crogan Street from Stanley Court to Village Way.

(3) No Build.

Comments:

Comparison Summary of Alternates 1-3

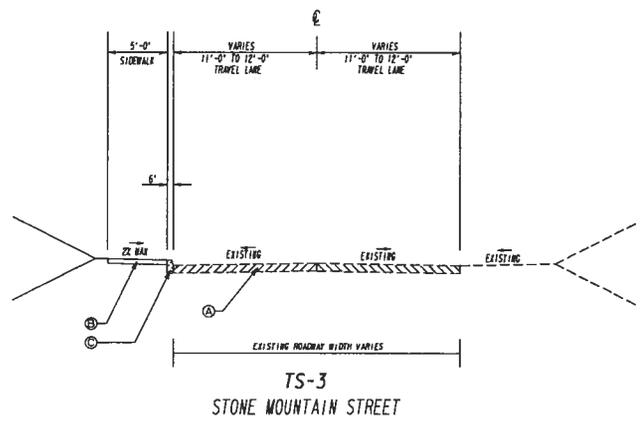
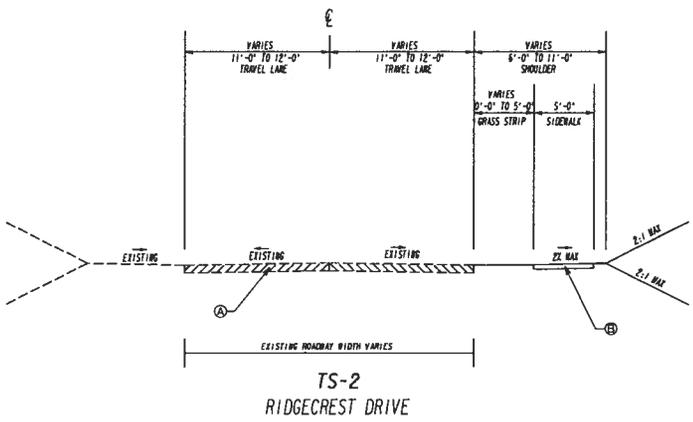
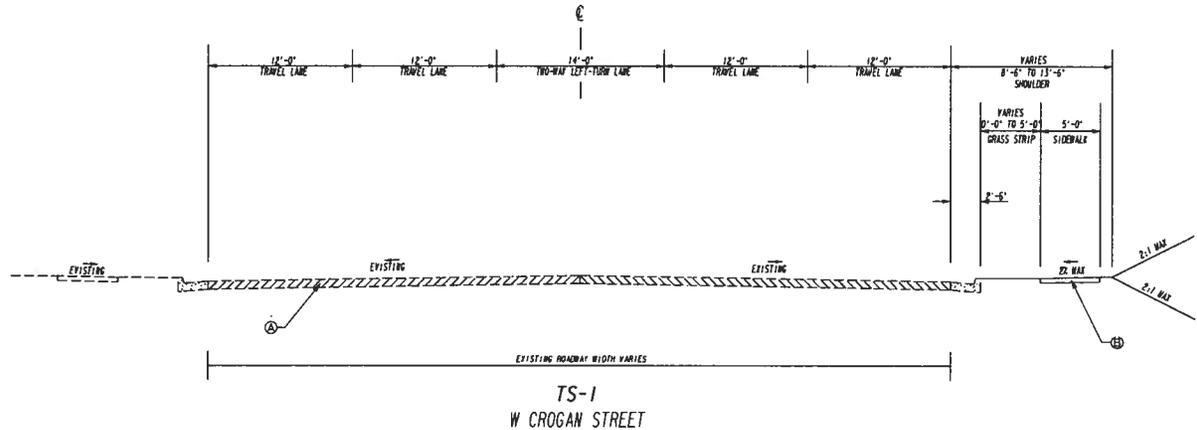
Alternate (1) is recommended for this concept.

Alternate (2) is not recommended for this concept. Sidewalks along W. Pike Street, E. Crogan Street and Ridgecrest Drive would likely require additional right-of-way and create impacts to adjacent properties. Furthermore, cost of the additional improvements would likely exceed the available Safe Routes to School funding.

Alternate (3) is not recommended for this concept. The no-build alternate would not promote safe walking and bicycling for children attending Lawrenceville Elementary School and Winn Holt Elementary School as stated in the project need and purpose.

Attachments:

1. Construction Cost Estimate
2. Concept Typical Sections
3. Concept Plan Layouts
4. Concept Team Meeting Minutes (05/23/2011)



- REQUIRED PAVEMENT
- Ⓐ EXISTING PAVEMENT, TO BE RETAINED
 - Ⓑ CONC SIDEWALK, 4 IN.
 - Ⓒ CONCRETE HEADER CURB, 6 IN, TP 2

**Kimley-Horn
and Associates, Inc.**
 Engineering, Planning, and Environmental Consultants
 817 W. Peachtree Street NW, Suite 801
 Atlanta, GA 30308

NOT TO SCALE

REVISION DATES	

STATE OF GEORGIA
 DEPARTMENT OF TRANSPORTATION
 OFFICE: TRAFFIC OPERATIONS

TYPICAL SECTIONS

DRAWING No. **5-01**



<p>Kimley-Horn and Associates, Inc. Engineering, Planning, and Construction Services 317 W. Peachtree Street, Suite 501 Atlanta, GA 30309</p>		<p>REVISION DATES</p> <table border="1"> <tr><td> </td><td> </td></tr> </table>																		<p>STATE OF GEORGIA DEPARTMENT OF TRANSPORTATION OFFICE: PROGRAM DELIVERY CONCEPT PLAN MOON RD</p>		<p>DRAWING NO. 8</p>
<p>SCALE IN FEET 0 100 200 400</p>		<p>DATE: 7/25/2011</p>																				



<p> Kimley-Horn and Associates, Inc. Engineering Planning Architecture 817 W. Peachtree Street NW, Suite 601 Atlanta, GA 30308 </p>	<p> SCALE IN FEET 0 100 200 400 </p>	<p> REVISION DATES STATE OF GEORGIA DEPARTMENT OF TRANSPORTATION PROGRAM DELIVERY CONCEPT PLAN MOON RD DRAWING NO. 9 </p>
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LAWRENCEVILLE SRTS CONCEPT MEETING MINUTES

Date: May 23, 2011
Project: Safe Routes to School Infrastructure Projects
County: Gwinnett
Subject: Concept Team Meeting

Attendees:

Bob Baroni	City of Lawrenceville
Paul Austin	City of Lawrenceville
Steve Gay	Gwinnett County Public Schools
Brent Redmon	Gwinnett County Public Schools
Lisa Johnson	Lawrenceville Elementary School
Andy Pittman	GDOT Safe Routes to School Resource Center
Stuart Day	Kimley-Horn and Associates (KHA)
Sean Johnston	KHA

This Safe Routes to School concept team meeting was held on Monday, May 23, 2011 at Lawrenceville City Hall and in the vicinity of Lawrenceville Elementary School, Winn Holt Elementary School, and Jenkins Elementary School in Lawrenceville, Georgia to discuss the sponsor's application and concepts for proposed infrastructure improvements in the vicinity of the school. The proposed project consists of sidewalk and intersection modifications to improve conditions for children walking and bicycling to school.

The meeting began with a group discussion at City Hall, which included the following key items:

- KHA gave an overview of plan development process milestones, which include concept development (i.e. 30% design), environmental documentation, construction drawing preparation (including a Final Field Plan Review at 90% design), and letting to construction. It is GDOT and KHA's goal to complete this process within two years, with six to nine months expected for construction. This is an expedited timeframe for a process that could normally take three to six years.
- KHA explained the requirement of constructing the entire project within existing right-of-way, and also gave an explanation of historic boundaries that could impact the project scope. The construction budget of \$500,000 was also discussed.
- KHA gave an overview of the design team's understanding of the project. Input was given from the City of Lawrenceville to develop the scope of the project. The scope of the project will involve: Constructing sidewalk along on the east side of Stone Mountain Street from Gwinnett Drive to Salem Drive and the west side from Nottingham Drive to Somerset Drive; A crossing at the intersection of Old Snellville Highway and Moon Road will be provided, along with a crossing at Moon Road and Charleston Lane; new sidewalk will be constructed between existing gaps along the north side of Moon Road between Scenic Highway and David Road; Sidewalks will be constructed along the south side of Scenic Highway from Channel Drive to Mood Road; Sidewalks will be constructed along Ridgecrest Drive from West Crogan Street to Stark Street.; Sidewalks will also be constructed along the north side of West Crogan Street from Ridgecrest Drive to Langley Drive;

Pedestrian improvements will be installed at the intersection of US 29 and Langley Drive, SR 120 and Langley Drive, and SR 124 and Moon Road.

- If additional construction funds remain, the City of Lawrenceville requested that the design team evaluate constructing new sidewalk beginning at the National Guard Facility on the east side US 29, just north of Stanley Court to the intersection of Village Way. This sidewalk would connect to the existing Jenkins Elementary School Sidewalk.

Kimley-Horn then performed a site walk along the proposed project limits. Multiple options for improvements within the project limits were discussed. This discussion resulted in the following recommendations:

- Crosswalks at the intersection of Scenic Highway and Moon Road need up be upgraded on the west and south legs.
- Curb and gutter will likely be needed on Stone Mountain Street between Somerset Drive and Nottingham Drive.
- The stream and culvert crossing Stone Mountain Street near Gwinnett Drive may create environmental challenges related to installing sidewalk.
- Rectangular rapid flashing beacons or other treatment should be considered at mid-block crossing near Lawrenceville Elementary School.
- The intersection of US 29 and Langley Drive will need crosswalk and pedestrian improvements on the south and west legs.
- The intersection of SR 120 and Langley Drive will need crosswalks and pedestrian improvements on the south and east legs.

These minutes contain the understanding of KHA representatives regarding discussions, decisions, action items, etc. at the meeting.