

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

INTERDEPARTMENT CORRESPONDENCE

FILE P. I. No. 0006809, DeKalb County **OFFICE** Preconstruction
CSCMQ-0006-00(809)
South Indian Creek Drive and Redan Road-
Traffic Signal Upgrade **DATE** July 18, 2008

FROM  Genetha Rice-Singleton, Assistant Director of Preconstruction

TO  SEE DISTRIBUTION

SUBJECT APPROVED PROJECT CONCEPT REPORT

Attached for your files is the approval for subject project.

Attachment

DISTRIBUTION:

Brian Summers
Glenn Bowman
Ken Thompson
Michael Henry
Keith Golden
Paul Liles
Bryant Poole
Mike Lobdell
BOARD MEMBER

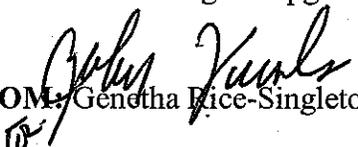
**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

INTERDEPARTMENTAL CORRESPONDENCE

FILE: P.I. No. 0006809, DeKalb County
CSCMQ-0006-00(809)
South Indian Creek Drive and Redan Road-
Traffic Signal Upgrade

OFFICE: Preconstruction

DATE: July 14, 2008


FROM: Genetha Rice-Singleton, Assistant Director of Preconstruction

TO: Gerald M. Ross, P.E., Chief Engineer

SUBJECT: PROJECT CONCEPT REPORT

This project is the traffic signal upgrades and interconnects along a 1.1 mile section of South Indian Creek Drive and Redan Road at the following intersections:

- (1) South Indian Creek Drive and Durham Park Road
- (2) South Indian Creek Drive and Rowland Road
- (3) South Indian Creek Drive and Redan Road
- (4) Redan Road and Indian Creek Marta Station Entrance
- (5) Redan Road and Holcombe Road

A combination of growth and aging traffic control equipment within the corridor has created unacceptable levels of congestions. Upgrades to traffic signal control equipment and communications hardware are needed to allow coordination of signals, reduce congestion and improve safety.

The proposed project will provide traffic signalization upgrades and pedestrian improvements including wheelchair ramps, pedestrian signals, and crosswalk striping to make the intersection ADA compliant. Traffic signals will be timed to maintain coordinated traffic flow progression through the synchronized intersection. The progression of vehicles along the major roadway will be given the priority even when the characteristics of the roadway traffic flow and control changes. Once a signal timing plan has been completed to optimize traffic flow, any modification to the signal timing to increase green time on minor streets will not adversely affect the traffic progression in the major roadway. Traffic will be maintained during construction.

Environmental concerns include requiring a Categorical Exclusion will be prepared; a Public hearing is not required; Time saving procedures is appropriate.

The estimated costs for this project are:

	<u>PROPOSED</u>	<u>APPROVED</u>	<u>FUNDING</u>	<u>PROG DATE</u>
Construction (includes E&C)	\$ 408,000	\$ 532,000	L230	2009
Right-of-way & utilities	Local	Local	Local	Local

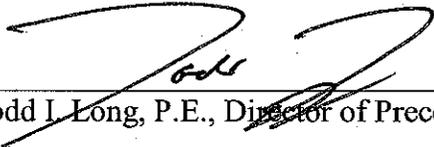
* PFA sent 10-10-2006 requesting DeKalb County do PE, right-of-way, utilities and 20% of construction costs, 100% construction costs over \$251K

I recommend this project concept be approved and the project description be revised to reflect the project herein.

GRS: JDQ

Attachment

CONCUR

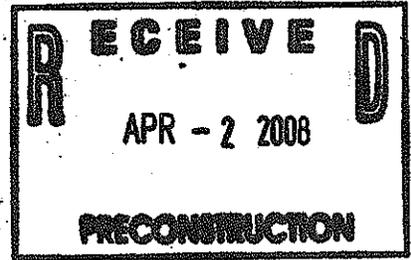


Todd I. Long, P.E., Director of Preconstruction

APPROVED



Gerald M. Ross, P.E., Chief Engineer



DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA
District 7

PROJECT CONCEPT REPORT

Project Number: CSCMQ-0006-00(809)

County: DeKalb
P. I. Number: 0006809
Federal Route Number: None
State Route Number: None

Recommendation for approval:

DATE 3/19/08

[Signature]
Project Manager

DATE 3/19/08

[Signature]
State Traffic Engineer

The concept as presented herein and submitted for approval is consistent with that which is included in the Regional Transportation Plan (RTP) and/or the State Transportation Improvement Program (STIP).

DATE 3/31/08

[Signature]
State Transportation Planning Administrator

DATE _____

Office of Financial Management Administrator

DATE _____

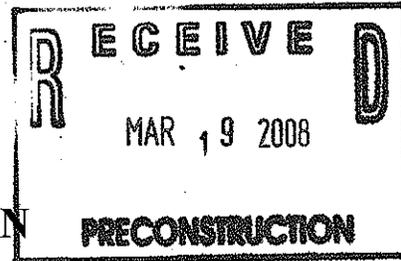
State Environmental/Location Engineer

DATE _____

District Engineer

DATE _____

Project Review Engineer



DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA
District 7

PROJECT CONCEPT REPORT

Project Number: CSCMQ-0006-00(809)

County: DeKalb
P. I. Number: 0006809
Federal Route Number: None
State Route Number: None

Recommendation for approval:

DATE _____

Project Manager

DATE _____

District Engineer

The concept as presented herein and submitted for approval is consistent with that which is included in the Regional Transportation Plan (RTP) and/or the State Transportation Improvement Program (STIP).

DATE _____

State Transportation Planning Administrator

DATE _____

Office of Financial Management Administrator

DATE _____

State Environmental/Location Engineer

DATE 3-18-08



State Traffic Safety and Design Engineer

DATE _____

Project Review Engineer

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA
District 7

PROJECT CONCEPT REPORT

Project Number: CSCMQ-0006-00(809)

County: DeKalb
P. I. Number: 0006809
Federal Route Number: None
State Route Number: None

Recommendation for approval:

DATE _____

Project Manager

DATE _____

State Traffic Engineer

The concept as presented herein and submitted for approval is consistent with that which is included in the Regional Transportation Plan (RTP) and/or the State Transportation Improvement Program (STIP).

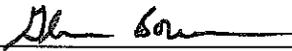
DATE _____

State Transportation Planning Administrator

DATE _____

Office of Financial Management Administrator

DATE 4/2/08



State Environmental/Location Engineer

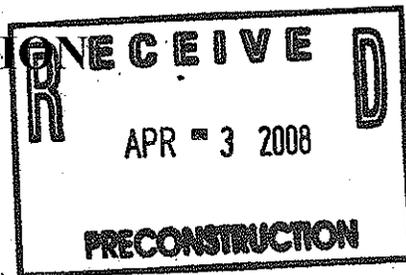
DATE _____

District Engineer

DATE _____

Project Review Engineer

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

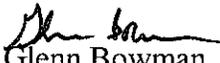


INTERDEPARTMENT CORRESPONDENCE

FILE: P.I. No. 0006809

OFFICE: Environment/Location

DATE: March 31, 2008

FROM: 
Glenn Bowman, P.E., State Environmental/Location Engineer

TO: Genetha Rice-Singleton, Assistant Director of Preconstruction

SUBJECT: **PROJECT CONCEPT REPORT**
CSCMQ-0006-00(809) / DeKalb County

The above subject Concept Report has been reviewed and appears satisfactory subject to the following comment:

1. Two historic structures are located just north of the Redan/Holcombe intersection. They may be within the project view shed.
2. Process time of four (4) months may not be adequate for the CE.

If you have any questions, please contact me at (404) 699-4401.

GB/lc

Attachment

cc: Brian Summers
Bryant Poole
Keith Golden
Angela Alexander
Jamie Simpson

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA
District 7

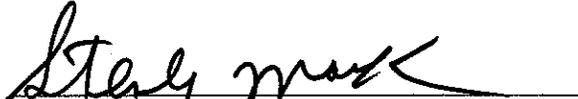
PROJECT CONCEPT REPORT

Project Number: CSCMQ-0006-00(809)

County: DeKalb
P. I. Number: 0006809
Federal Route Number: None
State Route Number: None

Recommendation for approval:

DATE 3/19/08


Project Manager

DATE 3/19/08


State Traffic Engineer

The concept as presented herein and submitted for approval is consistent with that which is included in the Regional Transportation Plan (RTP) and/or the State Transportation Improvement Program (STIP).

DATE _____

State Transportation Planning Administrator

DATE _____

Office of Financial Management Administrator

DATE _____

State Environmental/Location Engineer

DATE _____

District Engineer

DATE _____

Project Review Engineer

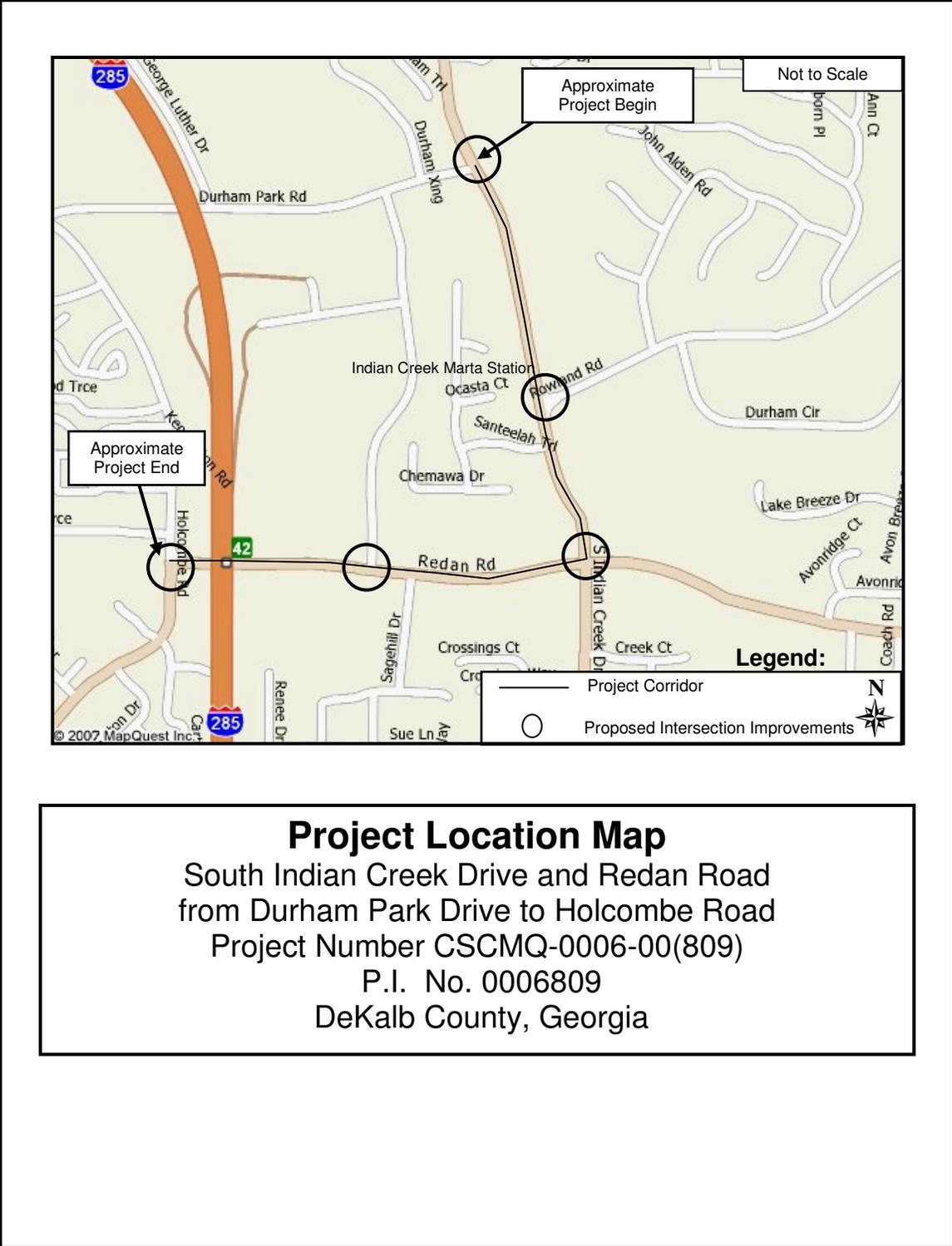


Figure 1: Project Location Map

Need and Purpose:

The project consists of traffic signal upgrades and interconnect along a 1.1 mile section of South Indian Creek Drive and Redan Road corridors from Durham Park Drive to Holcombe Road. The project area is located within DeKalb County. The purpose of this project is to provide traffic signalization upgrades and pedestrian improvements including wheelchair ramps, pedestrian signals, and crosswalk striping to make the intersections ADA compliant and to reduce emissions by creating more efficient traffic operations.

Accident Data

Not provided.

Description of the proposed project:

The proposed project is entirely contained within Dekalb County. The project consists of the South Indian Creek Drive and Redan Road corridors from Durham Park Drive to Holcombe Road. The total project length is approximately 1.1 mile. The project encompasses signal upgrades and pedestrian improvements at the following signalized intersections along the corridor:

1. South Indian Creek Drive and Durham Park Road
2. South Indian Creek Drive and Rowland Road
3. South Indian Creek Drive and Redan Road
4. Redan Road and Indian Creek Marta Station Entrance
5. Redan Road and Holcombe Road

Is the project located in a non-attainment area? Yes No

This project is not a capacity adding project. As such, this project is considered exempt.

PDP Classification: Minor Project

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

Functional Classification: Indian Creek Drive –Urban Collector Street
Redan Road– Urban Minor Arterial

U. S. Route Number(s): None **State Route Number(s):** None

2006 Traffic (AADT)

South Indian Creek Drive- Durham Park Drive to Redan Road	13,740 vehicles
Redan Road- South Indian Creek Drive to Holcombe Road	7,870 vehicles

Existing design features:

- Typical Section:
 - South Indian Creek Drive between Durham Park Drive to Redan Road: 3-lane undivided section with one through lane in each direction and a continuous two way left turn lane between intersections.

- Redan Road between South Indian Creek Drive to Holcombe Road: 5-lane undivided section with center left turn lane near South Indian Creek Drive, and reduces to a 2-lane road near Holcombe Road
- Posted speed: 35 mph
- Maximum degree of curvature: Not measured
- Maximum grade: Not measured
- Width of right-of-way: Varies from 70 feet to 90 feet
- Major structures: Redan Road bridge over I-285
- Major interchanges or intersections along the project:
 - Indian Creek Drive and Durham Park Road
 - Indian Creek Drive and Rowland Road
 - Indian Creek Drive and Redan Road
 - Redan Road and Indian Creek Marta Station Entrance
 - Redan Road and Holcombe Road

Proposed Design Features:

- Typical Section:
 - Same as existing with minor additions of channelizing islands
- Right of way
 - Width: Same as existing
 - Easements: Temporary (X), Permanent (), Utility (), Other ().
 - Type of access control: Full (), Partial (), By Permit (X), Other ().
 - Number of parcels: 0
 - Number of displacements: Business: 0 Residences: 0 Mobile homes: 0 Other: 0 .
- Structures: Same as existing
- Major intersections and interchanges: Same as existing
- Traffic control during construction: Traffic to remain on existing streets with limited lane closures and shifts.
- 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)

- Design Variances:
None anticipated

- Environmental concerns:

Historic Resources

Existing information on previously identified historic properties has been checked to determine if any are located within the Area of Potential Effect (APE) of this undertaking. The APE of the project has been defined as the area in which the proposed project could physically or visually affect any structural resources aged 50 years old or older. This review of existing information revealed that although there are several brick ranch homes that were 50 years or older, there are no facilities on the National Register of Historic Places.

Underground Storage Tanks

Review of the Georgia Department of Natural Resources' leaking UST locations did not reveal any property within the project area that had reported or confirmed leaking underground storage sites.

The following facilities may produce hazardous waste: an unnamed dry cleaner located at 1046 Holcombe Road, an unnamed dry cleaner located at 4091 Redan Road and Fashion Cleaners located at 4112 Redan Road.

Environmental concerns within the project corridor other than those previously addressed would be minimal.

No other significant environmental concerns have been identified.

- Level of environmental analysis:
 - Are Time Savings Procedures appropriate? Yes (X), No (),
 - Categorical exclusion (X)
 - Environmental Assessment/Finding of No Significant Impact (FONSI) ()
 - or
 - Environmental Impact Statement (EIS) ().

Utility involvements: The following utility companies may have facilities affected by the proposed project:

- Atlanta Gas Light
- AGL Networks, LLC
- Bellsouth
- Comcast
- Georgia Power Company
- DeKalb County Water & Sewer

Project responsibilities:

- Design: DeKalb County
- Right-of-Way Acquisition: None
- Relocation of Utilities: DeKalb County
- Letting to contract: DeKalb County
- Supervision of construction: DeKalb County
- Providing material pits: Not applicable
- Providing detours: Not applicable

Coordination

Other projects in the area.

- GDOT # 0006809 – South Indian Creek Drive/Redan Road Traffic Signal Upgrade
- GDOT # 751230 (DK-023a) – Redan Road from I-285 to South Stone Mountain-Lithonia Road widening and multi-use facility that incorporates bike lanes, sidewalks with pedestrian features
- Kensington Road/Camp Road/Porter Road Intersection/Pedestrian Improvements, DeKalb County Bond Project, CST 2007
- Railroad: *None anticipated*
- Other coordination to date:
 - Traffic Signal Timing and Coordination - Traffic signals will be timed to maintain coordinated traffic flow progression through the synchronized intersections. The signal timing will be designed to minimize the overall total delay of the roadway segment. The major street typically carries the larger volumes, thus the signal timing will provide the majority of the green time to the major roadway approaches. The progression of vehicles along the major roadway will be given the priority even when the characteristics of the roadway traffic flow and control changes. Once a signal timing plan has been completed to optimize traffic flow, any modification to the signal timing to increase green time on minor streets will not adversely affect the traffic flow progression on the major roadway.

Scheduling – Responsible Parties' Estimate

- Time to complete the environmental process: 12 ¹⁰⁰⁰ Months.
- Time to complete preliminary construction plans: 2 Months.
- Time to complete right of way plans: N/A Months.
- Time to complete the Section 404 Permit: N/A Months.
- Time to complete final construction plans: 2 Months.
- Time to complete to purchase right of way: N/A Months.
- List other major items that will affect the project schedule: N/A.

Other alternatives considered:

Attachment: Construction Cost Estimate

Estimate Report for file "CSCMAQ-0006-00(809)..."

Section Detailed Estimate					
Item Number	Quantity	Units	Unit Price	Item Description	Cost
150-1000	1	LS	28000.00	TRAFFIC CONTROL - CSCMAQ-0006-00(809)	28000.00
210-0100	1	LS	15000.00	GRADING COMPLETE - CSCMAQ-0006-00(809)	15000.00
441-0104	185	SY	34.31	CONC SIDEWALK, 4 IN	6347.35
441-6222	215	LF	19.27	CONC CURB & GUTTER, 8 IN X 30 IN, TP 2	4143.05
615-1200	180	LF	11.77	DIRECTIONAL BORE - 5 IN	2118.60
636-1041	141	SF	37.12	HIGHWAY SIGNS, TP 2 MATL, REFL SHEETING, TP 9	5233.92
639-2001	6400	LF	2.37	STEEL WIRE STRAND CABLE, 1/4 IN	15168.00
639-3004	4	EA	10853.70	STEEL STRAIN POLE, TP IV	43414.80
647-1000	1	LS	36437.73	TRAFFIC SIGNAL INSTALLATION NO - 4	36437.73
647-1000	1	LS	40829.10	TRAFFIC SIGNAL INSTALLATION NO - 1	40829.10
647-1000	1	LS	66859.56	TRAFFIC SIGNAL INSTALLATION NO - 3	66859.56
647-1000	1	LS	39051.62	TRAFFIC SIGNAL INSTALLATION NO - 2	39051.62
647-2140	4	EA	1100.00	PULL BOX, PB-6	4400.00
653-0120	7	EA	73.82	THERMOPLASTIC PVMT MARKING, ARROW, TP 2	516.74
653-0210	1	EA	119.45	THERMOPLASTIC PVMT MARKING, WORD, TP 1	119.45
653-1704	162	LF	4.12	THERMOPLASTIC SOLID TRAF STRIPE, 24 IN, WHITE	667.44
653-1804	1616	LF	2.13	THERMOPLASTIC SOLID TRAF STRIPE, 8 IN, WHITE	3442.08
682-6120	25	LF	14.45	CONDUIT, RIGID, 2 IN	361.25
682-6223	840	LF	5.95	CONDUIT, NONMETL, TP 2, 3 IN	4998.00
687-1050	1	LS	7500.00	TRAFFIC SIGNAL DATABASE CONVERSION	7500.00
935-1116	7200	LF	1.67	OUTSIDE PLANT FIBER OPTIC CABLE, LOOSE TUBE, SINGLE MODE, 72 FIBER	12024.00
935-1511	1000	LF	2.75	OUTSIDE PLANT FIBER OPTIC CABLE, DROP, SINGLE MODE, 6 FIBER	2750.00
935-3206	5	EA	505.00	FIBER OPTIC CLOSURE, AERIAL (SEALED), 72 FIBER	2525.00
935-3602	5	EA	568.81	FIBER OPTIC CLOSURE, FDC PRE-TERMINATED, TYPE A, 6-FIBER	2844.05
935-4010	16	EA	43.93	FIBER OPTIC SPLICE, FUSION	702.88
935-5060	10	EA	175.35	FIBER OPTIC SNOWSHOE	1753.50
935-8000	1	LS	4815.66	TESTING	4815.66
939-2305	5	EA	2892.61	FIELD SWITCH, TYPE C	14463.05
Section Sub Total:					\$366,486.83

Total Estimated Cost: \$366,486.83

ENGINEERING @ 5% - 18,324

CONTINGENCY @ 6% - 23,089

TOTAL CONST COST = \$407,900