## Estimate SCI823-PID79977

Estimated Cost: \$137,301,912.88

Contingency: 15.00%

Estimated Total: \$157,897,199.81

PHASE II: SCI-823-10.13 Preferred Hill Alternative - Four lane new construction, approx. 7 miles (Mainline Stations 537+50 to US 23 Interchange). Construction Costs were based upon ODOT's "Procedure for Construction Budget Estimating", January 2007, and with Current Budget Price Estimates Quoted from Vendors and Major Contractors. Estimate excludes R/W and Utility Relocations. This Estimated Construction Cost is Present Worth Dollars for year 2007.

Letting Date: 11/27/07

Spec Year: 05

Unit System: E

Work Type: GEN CONST: INVLVS 2 OR MOR MAJ WRK TYPE

Highway Type: 446 ON 301

Urban/Rural Type: RURAL CLASS

Season: SPRING

County: SCIOTO

Estimate Type: C-1

Prepared by TranSystems on 11/27/07 Checked by TranSystems on 11/27/07 <u>Line # Item Number</u> <u>Quantity Units</u> <u>Unit Price</u> <u>Extension</u>

<u>Description</u> <u>Supplemental Description</u>

Group 0001: Pavement Removal

0001 A-MC-RDWY 0.000 SY \$0.00000 \$0.00

MAJOR COST DRIVERS, ROADWAY

Total for Group 0001: \$0.00

Group 0002: Excavation - Rock

0002 A-MC-RDWY 14,217,000.000 CY \$3.30000 \$46,916,100.00

MAJOR COST DRIVERS, ROADWAY

Item Alternate Code: H1 0161 A-OC-RDWY 12,882,100.000 CY \$1.10000 \$14,170,310.00

OTHER COSTS, ROADWAY

Waste (Calculated by applying a swell factor of 30% to the rock excavation quantity.) = (14,217,000 cy\*1.30) -

5,600,000 = 12,882,100 cy

Total for Group 0002: \$61,086,410.00

Group 0003: Excavation - Soil

0006 A-MC-RDWY 0.000 CY \$0.00000 \$0.00

MAJOR COST DRIVERS, ROADWAY

Did not differentiate between soil and rock excavation for this estimate.

Total for Group 0003: \$0.00

Group 0004: Excavation - Hazardous

0007 A-MC-RDWY 1.000 LS \$0.00000 \$0.00

MAJOR COST DRIVERS, ROADWAY

Total for Group 0004: \$0.00

Group 0005: Fill - Embankment

0008 A-MC-RDWY 5,600,000.000 CY \$0.60000 \$3,360,000.00

MAJOR COST DRIVERS, ROADWAY

Total for Group 0005: \$3,360,000.00

Group 0006: Fill - Lime Modified Soil

0012 A-MC-RDWY 1.000 LS \$0.0000 \$0.00

MAJOR COST DRIVERS, ROADWAY

Total for Group 0006: \$0.00

Group 0007: Fill - Borrow

0013 A-MC-RDWY 1.000 LS \$0.00000 \$0.00

MAJOR COST DRIVERS, ROADWAY

0162 0.000 \$0.00000 \$0.00

Total for Group 0007: \$0.00

Group 0008: Concrete Barrier

0014 A-MC-RDWY 35,800.000 FT \$80.0000 \$2,864,000.00

MAJOR COST DRIVERS, ROADWAY

Item Alternate Code: H1

Total for Group 0008: \$2,864,000.00

4:26:46PM

Friday, January 11, 2008

**Quantity Units** 

Description Supplemental Description

Line # Item Number

Group 0009: Subgrade Treatment - Lime

0016 A-MC-RDWY 1.000 LS \$0.00000 \$0.00

MAJOR COST DRIVERS, ROADWAY

Total for Group 0009: \$0.00

**Extension** 

**Unit Price** 

Group 0010: Subgrade Treatment - Cement

A-MC-RDWY 0017 1.000 LS \$0.00000 \$0.00

MAJOR COST DRIVERS, ROADWAY

Total for Group 0010: \$0.00

Group 0011: Subgrade Treatment - Undercut & Backfill

0018 A-MC-RDWY 1.000 LS \$0.00000 \$0.00

MAJOR COST DRIVERS, ROADWAY

Total for Group 0011: \$0.00

Group 0012: Other Roadway Costs

0019 A-OC-RDWY 500.000 ACRE \$1.500,00000 \$750,000.00 OTHER COSTS, ROADWAY

Clearing & Grubbing

A-OC-RDWY 288.000 ACRE \$6,000.00000 \$1,728,000.00 OTHER COSTS, ROADWAY

Trees & Stumps Removed

A-OC-RDWY 1.000 LS \$1,599,600.00000 \$1,599,600.00

OTHER COSTS, ROADWAY Mitigation

A-OC-RDWY 72,653.000 \$10.00000 \$726,530.00 0154 FT

OTHER COSTS, ROADWAY

GUARDRAIL - approx. 32 MI

Total for Group 0012: \$4,804,130.00

Group 0013: Seeding & Mulching / Sodding

**B-MC-ERCO** 2.421.760.000 SY 0020 \$1.00000 \$2,421,760.00

MAJOR COST DRIVERS, EROSION CONTROL

Total for Group 0013: \$2,421,760.00

Group 0014: Rock Channel Protection

**B-MC-ERCO** 0021 3.440.000 CY \$50.00000 \$172,000.00

MAJOR COST DRIVERS, EROSION CONTROL

Total for Group 0014: \$172,000.00

Group 0015: Erosion Control - Item 832

**B-MC-ERCO** 1.000 LS \$1,290,000.00000 \$1,290,000.00

MAJOR COST DRIVERS, EROSION CONTROL

Total for Group 0015: \$1,290,000.00

Group 0016: Other Erosion Control Costs

0023 **B-OC-ERCO** 1.000 LS \$21,500.00000 \$21,500.00

OTHER COSTS, EROSION CONTROL

<u>Line # Item Number</u> <u>Quantity Units</u> <u>Unit Price</u> <u>Extension</u>

Description

Supplemental Description

Total for Group 0016: \$21,500.00

Group 0017: Underdrains

0024 C-MC-DRNG 6.966 MILE \$100,000.00000 \$696,600.00

MAJOR COST DRIVERS, DRAINAGE

four lane divided with inside and outside shoulder drainage

Total for Group 0017: \$696,600.00

Group 0018: Culverts - Type A: < 5'

0025 C-MC-DRNG 0.000 LS \$0.00000 \$0.00

MAJOR COST DRIVERS, DRAINAGE

Total for Group 0018: \$0.00

Group 0019: Culverts, Type A: 5' - 10'

0026 C-MC-DRNG 1.000 LS \$0.0000 \$0.00

MAJOR COST DRIVERS, DRAINAGE

Total for Group 0019: \$0.00

Group 0020: Culverts, Type A: 10' - 20'

0027 C-MC-DRNG 1.000 LS \$0.00000 \$0.00

MAJOR COST DRIVERS, DRAINAGE

Total for Group 0020: \$0.00

Group 0021: Median Drainage

0160 C-MC-DRNG 1.000 LS \$2,190,000.00000 \$2,190,000.00

MAJOR COST DRIVERS, DRAINAGE

All Storm Sewer System Drainage Items are Lumped into this, Including Median Drains, Catch Basins, Closed

Storm System, etc.

Total for Group 0021: \$2,190,000.00

Group 0022: BMP's

0032 C-MC-DRNG 1.000 LS \$0.00000 \$0.00

MAJOR COST DRIVERS, DRAINAGE

Total for Group 0022: \$0.00

Group 0023: WICK DRAINS

0163 C-OC-DRNG 174,833.000 LF \$1.00000 \$174,833.00

OTHER COSTS, DRAINAGE

Quantity is for the US 23 Interchange. The quantities are based on 5' wick drain spacing. (5' is the worst case

scenario)

Total for Group 0023: \$174,833.00

Group 0024: Other Drainage Costs - CULVERTS

0034 C-OC-DRNG 1.000 LS \$4,604,000.00000 \$4,604,000.00

OTHER COSTS, DRAINAGE

Includes Costs for Special Culverts (high-fill), Cast-in-Place Concrete Culverts, and Standard Type Culverts.

Total for Group 0024: \$4,604,000.00

1.000

LS

\$0.00000

0045

Group 0032: Joint Repair

D-MC-PVMT

MAJOR COST DRIVERS, PAVEMENT

\$0.00

			Total for Group 0036. Sc	7.00
Group 0039: Water Works				
0052 E-MC-WATR MAJOR COST DRIVERS, WATER LINE	1.000	LS	\$0.00000	\$0.00

Total for Group 0039: \$0.00

## Group 0040: Sanitary Line

0054	F-MC-SANI	1.000	LS	\$0.00000	\$0.00
MAJ	OR COST DRIVERS, SANITARY SEWE	:R			
0055	F-OC-SANI	1.000	LS	\$0.00000	\$0.00
OTH	ER COSTS, SANITARY SEWER				

Total for Group 0040: \$0.00

## Group 0041: Lighting - Full Interchange

4:26:46PM Friday, January 11, 2008 Line # Item NumberQuantityUnitsUnit PriceExtensionDescription<br/>Supplemental Description1.000LS\$300,000.00000\$300,000.000056<br/>MAJOR COST DRIVERS, LIGHTING1.000LS\$300,000.00000\$300,000.00Total for Group 0041:<br/>Total for Group 0041:\$300,000.00

Group 0042: Lighting - Partial Interchange

0057 G-MC-LTNG 0.000 LS \$0.00000 \$0.000 MAJOR COST DRIVERS, LIGHTING

Total for Group 0042: \$0.00

Group 0043: Lighting - Continuous Roadway

0058 G-MC-LTNG 1.000 LS \$0.00000 \$0.00

MAJOR COST DRIVERS, LIGHTING

Total for Group 0043: \$0.00

Group 0044: Other Lighting Costs

0059 G-OC-LTNG 1.000 LS \$0.00000 \$0.00
OTHER COSTS, LIGHTING
Total for Group 0044: \$0.00

Group 0045: Traffic Surveillance

 0060 H-MC-SURV
 1.000 LS
 \$0.00000
 \$0.00

 MAJOR COST DRIVERS, TRAFFIC SURVEILLANCE
 0061 H-OC-SURV
 1.000 LS
 \$0.00000
 \$0.00

 OTHER COSTS, TRAFFIC SURVEILLANCE
 \$0.00000
 \$0.00
 \$0.00

Total for Group 0045: \$0.00

Group 0046: Signs

0091 J-MC-TRAF 7.700 MILE \$25,000.00000 \$192,500.00

MAJOR COST DRIVERS, TRAFFIC CONTROL

Rural Area

Total for Group 0046: \$192,500.00

Group 0047: Pavement Marking

0062 J-MC-TRAF 30.960 MILE \$2,500.00000 \$77,400.00 MAJOR COST DRIVERS, TRAFFIC CONTROL

Edge Line

MAJOR COST DRIVERS, TRAFFIC CONTROL

Lane Line

Item Alternate Code: LL

Total for Group 0047: \$98,295.00

Group 0048: Other Traffic Control Costs

0063 J-OC-TRAF 1.000 LS \$0.00000 \$0.00
OTHER COSTS, TRAFFIC CONTROL

Total for Group 0048: \$0.00

Estimate: SCI823-PID79977			Ohio Department of	Transportation
Line # Item Number  Description Supplemental Description	Quantity	<u>Units</u>	<u>Unit Price</u>	Extension
Group 0049: Signals - Intersectio  0064 K-MC-SGNL  MAJOR COST DRIVERS, SIGNALS  SR140	ns 0.000	LS	\$80,000.00000	\$0.00
3/(140			Total for Group 0049	: \$0.00
Group 0050: Other Traffic Signal	Costs			
0065 K-OC-SGNL OTHER COSTS, SIGNALS	1.000	LS	\$0.00000	\$0.00
			Total for Group 0050	: \$0.00
Group 0051: Landscaping				
0066 L-MC-LSCP MAJOR COST DRIVERS, LANDSCAPIN	1.000 IG	LS	\$0.00000	\$0.00
0067 L-OC-LSCP OTHER COSTS, LANDSCAPING	1.000	LS	\$0.00000	\$0.00
·			Total for Group 0051	: \$0.00
Group 0052: Retaining Walls				
0068 M-MC-WALL  MAJOR COST DRIVERS, RETAINING V  H1	1.000 VALLS	LS	\$5,000,000.00000	\$5,000,000.00
0069 M-MC-WALL	0.000	SF	Item Alter \$52,00000	nate Code: H1 \$0.00
MAJOR COST DRIVERS, RETAINING V H1	VALLS		· Item ∆lter	nate Code: H4
			Total for Group 0052: \$5,000	
Crown 0053: Other Detaining We	II Cooto			
Group 0053: Other Retaining Wa  0070 M-OC-WALL OTHER COSTS, RETAINING WALLS	1.000	LS	\$0.00000	\$0.00
OTTLER GGGTG, NET/ III III III WA WALLO			Total for Group 0053	: \$0.00
Croup 0054: Building Domolition				
Group 0054: Building Demolition  0072 N-MC-DEMO	1.000	LS	\$132,000.00000	\$132,000.00
MAJOR COST DRIVERS, BUILDING DE		20		
			Total for Group 0054: \$132	nate Code: H1 ,000.00
Onesia OOFF: Nata - Davids			•	
Group 0055: Noise Barrier	1.000	1.0	\$0.0000	\$0.00
MAJOR COST DRIVERS, NOISE BARR		LO	•	
			Total for Group 0055	: \$0.00
Group 0056: Other Noise Barrier	Costs			

1.000

LS

\$0.00000

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0076 P-OC-NSBR OTHER COSTS, NOISE BARRIER

\$0.00

**Extension** 

Estimate: SCI823-PID79977 **Quantity Units** 

Description

Line # Item Number

Supplemental Description

Total for Group 0056: \$0.00

**Unit Price** 

	Type Study (BTS)	from Bridge	taken	w Structures - Cost	0057: New	Group
\$3,730,000.00	\$3,730,000.00000	LS	1.000	,	R-MC-STRC	0141
				RIVERS, STRUCTURES	JOR COST DRI	MAJ
			L/R	sville-Minford Rd (CR 28) L	823 over Lucas	SR
Item Alternate Code: H3						
\$2,490,000,00	\$2,490,000,00000	LS	1.000		R-MC-STRC	0142

MAJOR COST DRIVERS. STRUCTURES SR 823 over Blue Run Rd (CR 29) L/R Item Alternate Code: H3 R-MC-STRC 1.000 LS \$4,189,000.00000 \$4,189,000.00

MAJOR COST DRIVERS, STRUCTURES SR 823 over Morris Lane-Blue Run Rd (CR 54) L/R

Item Alternate Code: H4 0144 R-MC-STRC 1.000 LS \$5,098,100.00000 \$5,098,100.00 MAJOR COST DRIVERS, STRUCTURES Flatwood-Fallen Timber Rd. (CR 184) over SR 823

Item Alternate Code: H4 R-MC-STRC LS \$1,102,500.00000 0145 1.000 \$1,102,500.00 MAJOR COST DRIVERS, STRUCTURES

SR 823 over Fairground Rd (CR 55) by CH2MHILL

Item Alternate Code: H4 0146 R-MC-STRC 1.000 LS \$3,516,450.00000 \$3,516,450.00 MAJOR COST DRIVERS. STRUCTURES SR 823 over RR and US 23 by CH2MHILL

Item Alternate Code: H4 R-MC-STRC 1.000 \$573,300.00000 0147 LS \$573,300.00 MAJOR COST DRIVERS, STRUCTURES

Ramp B over Fairground Rd (CR 55) by CH2MHILL

Item Alternate Code: H4 0148 R-MC-STRC 1.000 LS \$3,066,000.00000 \$3,066,000.00 MAJOR COST DRIVERS, STRUCTURES

Ramp B over Norfolk and Western Railroad by CH2MHILL

Item Alternate Code: H4 0149 R-MC-STRC 1.000 LS \$619,500.00000 \$619,500.00 MAJOR COST DRIVERS, STRUCTURES

Ramp C over Fairground Rd (CR 55) by CH2MHILL

Item Alternate Code: H4 R-MC-STRC 1.000 LS \$3,856,650.00000 \$3,856,650.00

MAJOR COST DRIVERS, STRUCTURES

Ramp C over Norfolk and Western Railroad by CH2MHILL

Item Alternate Code: H4 Total for Group 0057: \$28,241,500.00

Group 0058: Rehabilitated Structures

0077 R-MC-STRC 1.000 LS \$0.00000 \$0.00

MAJOR COST DRIVERS, STRUCTURES

Total for Group 0058: \$0.00

Group 0060: Temporary Road and Pavement Costs

0078 S-MC-MNTC \$0.00000 \$0.00 MAJOR COST DRIVERS, MAINTENANCE OF TRAFFIC

Total for Group 0060: \$0.00

Estimate: SCI823-PID79977	Ohio Department o	f Transportation  Extension
Line # Item Number Quantity Units  Description Supplemental Description	Unit Price	Extension
Supplemental Description		
Group 0061: Portable Concrete Barrier (PCB)  0079 S-MC-MNTC 0.000 FT	\$0.00000	\$0.00
MAJOR COST DRIVERS, MAINTENANCE OF TRAFFIC	Total for Group 006	·
	Total for Group 000	ι. ψυ.υυ
Group 0062: Impact Attenuators  0080 S-MC-MNTC 1.000 LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, MAINTENANCE OF TRAFFIC		
	Total for Group 0062	2. φυ.υυ
Group 0063: Sheeting  0081 S-MC-MNTC 1.000 LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, MAINTENANCE OF TRAFFIC	·	•
	Total for Group 0063	3: \$0.00
Group 0064: Temporary Signals		
0082 S-MC-MNTC 1.000 LS MAJOR COST DRIVERS, MAINTENANCE OF TRAFFIC	\$0.00000	\$0.00
	Total for Group 0064	4: \$0.00
Group 0065: Work Zone Lighting		
0083 S-MC-MNTC 1.000 LS MAJOR COST DRIVERS, MAINTENANCE OF TRAFFIC	\$0.00000	\$0.00
	Total for Group 0068	5: \$0.00
Group 0066: Innovative Contracting Incentatives		
0084 S-MC-MNTC 1.000 LS MAJOR COST DRIVERS, MAINTENANCE OF TRAFFIC	\$0.00000	\$0.00
	Total for Group 0066	6: \$0.00
Group 0068: Wetland Construction		
0085 T-MC-WTLD 0.860 ACRE MAJOR COST DRIVERS, WETLAND CONSTRUCTION	\$16,000.00000	\$13,760.00
0086 T-OC-WTLD 7,045.000 LF OTHER COSTS, WETLAND CONSTRUCTION	\$160.00000	\$1,127,200.00
Stream Restoration	Total for Group 0068: \$1,140	0.960.00
Croup 0060: Mico Cooto	γ τ, τ τ	, , , , , , , ,
Group 0069: Misc. Costs  0093 U-OC-MISC 41.000 MNTH	\$2,500.00000	\$102,500.00
OTHER COSTS, MISCELLANEOUS COSTS Field Office		
0094 U-OC-MISC 1.000 LS OTHER COSTS, MISCELLANEOUS COSTS Maintaining Traffic - INCLUDES ALL MOT	\$215,000.00000	\$215,000.00
0098 U-OC-MISC 1.000 LS OTHER COSTS, MISCELLANEOUS COSTS Mobilization	\$860,000.00000	\$860,000.00
0099 U-OC-MISC 1.000 LS 4:26:46PM	\$43,000.00000	\$43,000.00
4:26:46PM Friday, January 11, 2008		Page 10 of 11

Estimate:	SCI823-P	ID79977
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Line # Item Number

**Quantity Units** 

**Unit Price** 

Extension

**Description** 

Supplemental Description

OTHER COSTS, MISCELLANEOUS COSTS
Pailroad Incurance Rond

U-OC-MISC

1.000

LS \$679,712.44000

\$679,712.44

OTHER COSTS, MISCELLANEOUS COSTS

bond

0100

0115 **U-OC-MISC** 1.000 LS \$679,712.44000 \$679,712.44

OTHER COSTS, MISCELLANEOUS COSTS

Layout Stakes

Total for Group 0069: \$2,579,924.88

**Group 0070: Design Contingency Costs** 

0087 V-MC-CNTG LS \$0.00000 \$0.00

MAJOR COST DRIVERS, CONTINGENCY COSTS

8800 V-OC-CNTG 1.000 LS \$0.00000 \$0.00

OTHER COSTS, CONTINGENCY COSTS

Total for Group 0070: \$0.00

**Group 0071: Inflation Contingency** 

0089 V-OC-CNTG \$0.00000 \$0.00 1.000 LS

OTHER COSTS, CONTINGENCY COSTS

Not applied to this estimate since it is intended to be a 2005 Present Worth Value.

Total for Group 0071: \$0.00