

CUY-77-4.79

Item 410 - Traffic Compacted Surface, Type A or B

To be used to maintain drive access during construction.

	Avg. W	Avg. L	Avg. D	Total
23 Drives	10 FT	30 FT	1 FT	256 CY
			Total =	256 CY
			USE	275 CY

Item 614 - Asphalt Concrete for Maintaining Traffic

To be used for wedging at longitudinal & transverse joints, and ramping at structures (MH, CB)

for longitudinal joints:

estimated length	3410 FT	<i>*see Note A below</i>
wedge depth	1.25 IN	
wedge width	1 FT	<i>(3:1 slope for wedge per MT-101.90; round up to an even foot width)</i>
subtotal =	7 CY	

for transverse joints:

estimated length	250 FT	<i>*see Note B below</i>
wedge depth	1.25 IN	
wedge width	19 FT	<i>(15' per inch of depth)</i>
subtotal =	9 CY	

**Note A: 3410' [For purposes of this, assuming the full length of the project per phase.]*

**Note B: 250' [Approximately 50 FT for each side street/ramp]*

for ramping at structures: **10 CY**

TOTAL =	26 CY
USE	50 CY

CUY-77-4.79

Item 615 - Pavement for Maintaining Traffic, Class B

To be used as temporary pavement to maintain traffic

Phase Constructed	Station Begin	Station End	Side	Width		SY
2	98+00	98+33	LT	12 FT		44
2	98+72	102+03	LT	15.5 FT to 2.5 FT		454 *
2	26+65	29+72	LT	2 FT to 26.5 FT		563 *
3B	53+36	55+32	LT	10 FT to 2 FT		135 *

TOTAL = 1,196 SY

* CADD Areas used for irregular Areas

CUY-77-4.79

Item 616 - Water

Water for Dust Control:

	ROADWAY EARTHWORK	TEMP. PAVEMENT EARTHWORK
ITEM	TOTALS (CY)	TOTALS (CY)
Excavation	2,833	415
Embankment	543	415
Excav. of Subgrade	628	0
Subtotal	4,004	830

Note: This project is urban in nature, so use 0.004 MGAL/CY of earthwork moving activities per TEM note 642-19

$$4,834 \text{ CY} \times .004 \text{ MGAL/CY} = 19 \text{ MGAL}$$

USE **20 MGAL**

Water for Item 410:

Note: Water is required for Item 410-Traffic Compacted Surface, Type A or B per TEM note 642-9; application rate is 1 MGAL per 50 CY of Item 410; 50 MGAL minimum required per TEM note 642-9

$$275 \text{ CY} \times 1 \text{ MGAL}/50 \text{ CY} = 6 \text{ MGAL}$$

USE **50 MGAL**

CUY-77-4.79

Item 614 - Law Enforcement Officer with Patrol Car for Assistance

Minimum show-up time = 4 HRS

of times/days

Phase 1	Set up Wallings Closure Detour	1 x	2 Officers x	4 HR =	8 HR
Phase 1	Set up I-77 Ramp Closures and Detour signing in Phase 1	1 x	2 Officers x	4 HR =	8 HR
Phase 1	Set up two temporary signals	2 x	2 Officers x	4 HR =	16 HR
Phase 1	Short duration closures of I-77 for bridge construction	8 x	2 Officers x	4 HR =	64 HR
Phase 1	Tear down I-77 Ramp Closures and Detour signing	1 x	2 Officers x	4 HR =	8 HR
Phase 3	Tear down Phase 1/2 and set up Phase 3	1 x	2 Officers x	4 HR =	8 HR
Phase 3A	Set up Phase 3A on Mill Road	1 x	1 Officer x	4 HR =	4 HR
Phase 4	Tear down Phase 3/3A and set up Phase 4	1 x	2 Officers x	4 HR =	8 HR
Phase 4	Set up proposed signal at NB Ramps	1 x	1 Officers x	4 HR =	4 HR
Phase 4	Set up Phase 4A	1 x	1 Officer x	4 HR =	4 HR
Phase 4	Tear down Phase 4/4A	1 x	2 Officers x	4 HR =	8 HR
Phase 5	Paving (<i>see note</i>)	4 x	2 Officers x	8 HR =	64 HR

TOTAL = 204 HR

USE **200 HR**

Note: LEOs are only required for traffic control through intersections during milling/paving operations, otherwise these operations operate under flagger control.

CUY-77-4.79

MOT Earthwork - For Information Only

STATION	COMMENTS	EARTHWORK END AREA (SF)		EARTHWORK VOLUME (CY)	
		CUT	FILL	CUT	FILL
Wallings Road - Phase 3					
98+00.		18	18		
				17	17
98+50.		0	0		
				21	21
99+00.		23	23		
				43	43
99+50.		23	23		
				53	53
100+00.		34	34		
				49	49
100+50.		19	19		
				18	18
101+00.		0	0		
				2	2
101+50.		2	2		
				3	3
102+00.		1	1		
				1	1
102+50.		0	0		
Ramp D3 - Phase 4					
53+50.		8	8		
				14	14
54+00.		7	7		
				9	9
54+50.		3	3		
				4	4
55+00.		1	1		
				2	2
56+00.		0	0		
Mill Road - Phase 3					
27+00.		0	0		
				4	4
27+50.		4	4		
				16	16
28+00.		13	13		
				38	38
28+50.		28	28		
				68	68
29+00.		45	45		
				53	53
29+64.		0	0		
TOTALS				415	415

CUY-77-4.79

12" Conduit, Type D - For Information Only

Paid for under 615-Roads for Maintaining Traffic

To be used for temporary drive pipe

# of Drives	Avg. Ex. Width (FT)	Total
23	26	598

USE **600 FT**

CUY-77-4.79

Local Detour Route Restoration

Item 301 - Asphalt Concrete Base, PG64-22, (449)

50 CY

Length (FT)	Average Width (FT)	Average Depth (FT)	Estimated % Restoration	
3000	20	0.5	5%	= 56 CY

(West Mill Road Only)

Item 304 - Aggregate Base

50 CY

Length (FT)	Average Width (FT)	Average Depth (FT)	Estimated % Restoration	
3000	20	0.5	5%	= 56 CY

(West Mill Road Only)

Item 441 - Asphalt Concrete Surface Course, Type 1, (446), PG64-22

60 CY

Length (FT)	Average Width (FT)	Average Depth (FT)	Estimated % Restoration	
5836	24	0.25	5%	= 65 CY

(West Mill Road and Mill Road)

Item 407 - Non-Tracking Tack Coat

200 SY

Length (FT)	Average Width (FT)	Application Rate (GAL/SY)	Estimated % Restoration	
5836	24	0.085	5%	= 195 SY

(West Mill Road and Mill Road)

Item 617 - Compacted Aggregate

30 CY

Length (FT)	Average Width (FT)	Average Depth (FT)	Estimated % Restoration	
3000	2	0.5	30%	= 33 CY

(West Mill Road Only for shoulder repair)

CUY-77-4.79

Local Detour Route Restoration

Item 617 - Water

1 MGAL

Compacted Aggregate (CY)	Application Rate		
30	1 MGAL/ 50 CY	=	1 MGAL
(West Mill Road Only for shoulder repair)			

Item 642 - Center Line, Type 1

1 MILE

Length of Detour (FT)	Estimated % Restoration		
5836	100%	=	1 MILE
(West Mill Road and Mill Road)			