OHIO DEPARTMENT OF TRANSPORTATION
Project Plan Package Submittal Form

DATE: 12/1/08

TO: Jeffrey M. Hisem, Administrator, Office of Estimating
Attn: Debra Neal-Harris

FROM: Saleh Eldabaja, District Deputy Director/Production Administrator

BY: Joshua Booher, District Contract Person - Phone Ext. 568-3961

SUBJECT: Submission Plan Package for ATH-33/50-15.05/11.46
(county, route, section)

PID NUMBER	21904	STATE JOB NUMBER	502370
FEDERAL NUMBER (FAN)	E040 (437)	TOTAL PLAN SHEETS 1 thru	222
C-2 AMOUNT	16,695,218.86		

The following documents are required and have been included with the package. Place a (X) in front of all items that apply. Place (NA) on items not applicable.

NA	Reservoir (year) ____	X	CAP Project
NA	Emergency	NA	FOR Project
NA	Facilities	NA	Pre-Bid Meeting
		NA	Design-Build (Attach Design-Build Supplement Form)

NA Warranty

	Item	Spec #	Period
☐	Asphalt Overlay	SS 1059	3 Years
☐	Asphalt Pavement	SS 880	7 Years
☐	Bridge Painting	SS 885	5 Years
☐	Chip Seal	SS 882	2 Years
☐	Concrete Pavement	SS 884	7 Years
☐	Hot Recycling	SS 886	3 Years
☐	Microsurfacing	SS 881	3 Years
☐	New Deck	SS 894	7 Years

NA **Mylar Plan Submittal to Include:**

___ Design Plans (bound originals + 2 copies bounded)
___ Right-of-Way Plans (tracings)
___ Foundation Investigation (tracings) - Sheets 1 thru _____
___ Soil Profile (tracings) - Sheets 1 thru _____

X **Electronic Plan Submittal to Include:**

X Design Plans
NA Right-of-Way Plans
NA Foundation Investigation - Sheets 1 thru _____
NA Soil Profile - Sheets 1 thru _____

X LD-4 Estimating Information Form (copy)
X C-2 Estimate (copy)
X Temporary Roadway Earthwork Tabulation, X (copy) _____ (note in plan)
X Job Tailored Proposal Notes and a List of Recommended Standard Proposal Notes
X Special Provisions (type of document)
Item 832
_____

NA Railroad Agreement(s), No. of (originals) _____
NA Railroad Clause(s), No. of (originals) _____
NA Railroad Detail Estimate(s), No of (originals) _____
NA Accident Analysis Information (copy)
NA FAA Coordination, _____(copy) _____ (note in plan)
NA Park Board Resolution (original)
* Preliminary Legislation - No. of (originals) 1

County/Municipality: ATHENS CITY

Resolution/Ordinance No. _____ Date: _____

County/Municipality _____

Resolution/Ordinance No. _____ Date: _____

NA Interstate Route Maintenance Agreement (copy)
NA Local Agreements (copy) - example: OPWC, ODOD, etc. **(must be in Ellis)**
NA Funding Max Information - example: MPO, Local, District, CMAQ, etc. **(must be in Ellis)**
NA Local Right-of-Way Deposit Information **(must be in Ellis)**

X Right-of-Way Certification **(original and 1 copy)**

0 No. of Parcels
0 Encroachments
X Utility Owner's Names/Addresses (on tracings)
X Utility Clearance Date: 9/23/08
NA Utility Note (copy)

X Environmental Consultation Form **(original and 1 copy)**
Note: Project design must be in accordance with environmental document approval

NA Non-Federal Funded CE A1 or CE Level 1, with no Corps of Engineers/404 Permit Required
Approval Date_____

X Ohio EPA Notice of Intent sent to EPA (copy).

* Approved Design Exceptions (copy)

NA Emergency Project Documentation
___ Emergency Project Request Form
___ Emergency Declaration
___ Bidder's List (minimum of 3) – Type B Only
___ FHWA Waiver of Advertising – Federal Projects Only

NA Electronic Design Files

X GASB Asset Management Form

Project on the approved STIP/TIP: ID No.: 2357 construction year: 09, MPO NA

Design Agency: District 10

Structure Plans Certified by: B&N ☐, URS ☐, District ☐

Sale/Completion Date Information:

The District requests a 2/25/09 Sale Date. A Construction Completion Date of 10/31/10 is requested based on _____ days required for construction.

Special Considerations/Remarks: * pending

c: _____

Revised: March 2007

LD-4
Rev 7-05

OHIO DEPARTMENT OF TRANSPORTATION
ESTIMATING INFORMATION

COUNTY: ATH ROUTE: 33/50 SECTION: 15.05/11.46

1. ITEM 201: TREES AND STUMPS TO BE REMOVED AND DISPOSED OF:

SIZES	<12 in[0.3m]	18 in [0.5 m]	30 in [0.8 m]	48 in [1.2 m]	60 in [1.2 m]
No of Trees	NA				
No. of stumps					

2. ITEM 202: EXISTING PAVEMENT TO BE REMOVED AND DISPOSED OF:

Type	Reinf. Concrete				
Thickness	9"				
Quantity	39805 SY				

3. ITEM 202: EXISTING PIPE REMOVED:

Size and Type of Pipe	NA				
Quantity					
Avg. Depth of Trench (ft)[m]					

4. ITEM 202: EXISTING STRUCTURES (OR PORTIONS OF) REMOVED AND DISPOSED OF:

Culvert or Structure No.		See Attached Sheet				
Plain Conc.	(y d^3)[m^3]					
Reinf. Conc.	(yd^3)[m^3]					
Stone Masonry	(yd^3)[m^3]					
Structural Steel	(lb)[kg]					
Timber Deck	(in thick & ft^2)					
	[mm thick & m^2]					
Asphalt Surface	(in thick & ft^2)					
	[mm thick & m^2]					
Other						

NOTE: The above information is for structures of any span and not limited to the definition of a structure.

5. ITEM 203: CLASSIFICATION OF ROADWAY EXCAVATION INTO:

(a) Earth	100%	(b) Silt, Peat, Waterbearing Sand	
(c) Shale (laminated,broken)		(d) Shale (firm, solid)	
(e) Sandstone (laminated, broken)		(f) Sandstone (firm, solid)	
(g) Limestone (laminated, broken)		(h) Limestone (firm, solid)	
(i) Other			

6. ITEM 203: BORROW

Required (yd^3)[m^3] 26996 CY ; Average Haul (miles) 1.5 mi

7. ITEM 254: PAVEMENT PLANING, ASPHALT CONCRETE:

Depth (in)[mm]	2"				

8. AGGREGATE INFORMATION:

Size	304				
Cost/yd^3 [Cost/m^3]	40.00				
Avg. Haul					

9. ITEM 446 OR 448: ASPHALT CONCRETE:

Item	442 Surface	442 Int.			
Cost/yd^3 [Cost/m^3]	150.00	135.00			
Avg. Haul					

10. ITEM 502: STRUCTURE FOR MAINTAINING TRAFFIC:

Description: NA

NOTE: Describe the structure, include estimated quantities (if not detailed in the plans).

202, PORTIONS OF EXISTING STRUCTURE REMOVED

	APPROACH SLAB (CY)	SUPERSTRUCTURE REINF. CONC. (CY)
ATH-50-1168	56	4.6
ATH-50-1185 L	56	14.4
ATH-50-1185 R	56	9.4
ATH-33-1760 L	119	1.4
ATH-33-1760 R	75	2.1
ATH-33-1631 L	56	3.6
ATH-33-1631 R	56	3.6
ATH-33-1627 L	123	6.7
ATH-33-1627 R	56	5.5
ATH-50-1592 L	89	1.6
ATH-50-1592 R	89	0.7
ATH-50-1681 L	132	1.4
ATH-50-1681 R	89	1.0

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OHIO DEPARTMENT OF TRANSPORTATION
ESTIMATING INFORMATION

11. ITEM 503: UNCLASSIFIED EXCAVATION:

Structure No.		NA				
Required (yd^3)[m^3]						

NOTE: Provide a quantity when this item is bid as lump sum.

12. ITEM 509: REINFORCING STEEL

Structure No. or Type			NA				
Deck	(lb)[kg]						
Footing	(lb)[kg]						
Piers	(lb)[kg]						
Abutments	(lb)[kg]						
Walls	(lb)[kg]						

NOTE: Provide a quantity when this item is bid as Lump Sum.

13. ITEM 511: CONCRETE

Type	Class S				
Cost/yd^3 [Cost/m^3]					
Avg. Haul	6 mi				

14. ITEM 513: STRUCTURAL STEEL:

Structure No.	NA				
Pound[Kilogram]					

NOTE: Provide a quantity when this item is bid as Lump Sum.

15. ITEM 514: STEEL SURFACES TO BE PAINTED:

Structure No.		NA				
OZEU	(ft^2)[m^2]					
IZEU	(lb)[kg]					

NOTE: Provide a quantity when this item is bid as Lump Sum.

16. ITEM 518: POROUS BACKFILL:

Structure No.	NA				
Required (yd^3)[m^3]					

NOTE: Provide a quantity when this item is bid as lump sum.

17. ITEM 603: PIPE CULVERTS, SEWERS AND DRAINS:

Size and Type of Conduit	4" F	6" F			
Avg. Depth(Ex. ground to flowline)	3'	4'			
Size and Type of Conduit					
Avg. Depth(Ex. ground to flowline)					

18. ITEM 604: MANHOLES, CATCH BASINS, INLETS:

Type	CB Reconstructed				
Quantity	45				
Avg. Depth	4'				

19. ITEM 615: ROADS AND PAVEMENTS FOR MAINTAINING TRAFFIC:

Excavation:	4682 CY					
Embankment:	0					
Guardrail:	0					
Drainage:	0					
Other:	0		Description:			

OHIO DEPARTMENT OF TRANSPORTATION
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20. ITEM SPECIAL: ARES RETAINING WALL SYSTEM
ITEM SPECIAL: REINFORCED EARTH WALL SYSTEM
ITEM SPECIAL: RETAINED EARTH WALL SYSTEM
ITEM SPECIAL: MSE PLUS RETAINING WALL SYSTEM

Wall Designation	NA			
Leveling Pad Concrete, f'c = 2500 psi (yd3):				
Select Granular Fill Material, CMS 304 or CMS 703.11 Type 2 (yd3):				
Embankment Material, CMS 203 (yd3):				
Porous Backfill with Filter Fabric, CMS 518 (yd3):				
6" Perforated Plastic Pipe, CMS 707.33 (ft):				
Excavation, CMS 503 (yd3):				
Pile sleeves, CMS 707.33 or 707.42 (ft):				
Epoxy Urethane Sealer, CMS 512 (yd2):				

21. ITEM SPECIAL: CONCRETE COPING
ITEM SPECIAL: CONCRETE COPING INCLUDING SLEEPER SLAB

Wall Designation	NA			
Class C Concrete, CMS 511 (yd3)				
Epoxy Urethane Sealer, CMS 512 (yd2)				
Epoxy Coated Reinforcing Steel, CMS 509 (lb)				

22. MISCELLANEOUS ITEMS:

Item:	690	603	605		
Unit:	Lump	Ft	Ft		

SUBMITTED BY: Alan Craig **DATE:** 11-25-08

Estimate 21904

Estimated Cost:$15,411,445.45

Contingency: 8.33%

Estimated Total: $16,695,218.86

ATH-33/50-15.05/11.46

Base Date: 08/01/08

Spec Year: 05

Unit System: E

Work Type: ASPHALT

Highway Type: SUPERPAVE ASPHALT CONCRETE

Urban/Rural Type: RURAL CLASS

Season: SUMMER

County: ATHENS

Midpoint of Latitude:

Midpoint of Longitude:

District: 10

Federal/State Project Number: E040 (437)

Prepared by Joshua Booher on 12/01/08

Line #	Item Number / Description / *Supplemental Description*	Quantity	Units	Unit Price	Extension

Group 0100: Roadway

0169	202E23000 PAVEMENT REMOVED	39,805.000	SY	$5.34604	$212,799.12
0170	202E30700 CONCRETE BARRIER REMOVED	142.000	FT	$20.77438	$2,949.96
0171	202E38000 GUARDRAIL REMOVED	24,188.000	FT	$0.83444	$20,183.43
0172	202E38300 GUARDRAIL REMOVED, BARRIER DESIGN	2,654.000	FT	$0.97871	$2,597.50
0173	204E10000 SUBGRADE COMPACTION	50,660.000	SY	$1.00183	$50,752.71
0174	204E13000 EXCAVATION OF SUBGRADE	36,385.000	CY	$8.34017	$303,457.09
0175	204E30020 GRANULAR MATERIAL, TYPE C	19,112.000	CY	$20.61584	$394,009.93
0176	204E45000 PROOF ROLLING	26.000	HOUR	$136.79478	$3,556.66
0177	209E60501 LINEAR GRADING, AS PER PLAN	19.230	MILE	$6,588.49084	$126,696.68
0178	209E70000 BORROW	26,996.000	CY	$8.00000	$215,968.00
0179	606E13000 GUARDRAIL, TYPE 5	19,166.000	FT	$10.69752	$205,028.67
0180	606E13050 GUARDRAIL, TYPE 5A	175.000	FT	$19.11540	$3,345.20
0181	606E14000 GUARDRAIL, TYPE 8	512.500	FT	$17.55187	$8,995.33
0182	606E15500 GUARDRAIL, BARRIER DESIGN, TYPE 5	2,475.000	FT	$17.50802	$43,332.35
0183	606E17500 POST END ANCHOR (OR CONCRETE BLOCK END ANCHOR)	2.000	EACH	$637.23872	$1,274.48
0184	606E22000 ANCHOR ASSEMBLY, TYPE B-98	22.000	EACH	$1,642.91925	$36,144.22
0185	606E22010 ANCHOR ASSEMBLY, TYPE E-98	2.000	EACH	$1,955.46578	$3,910.93
0186	606E26500 ANCHOR ASSEMBLY, TYPE T	38.000	EACH	$596.19444	$22,655.39
0187	606E35000 BRIDGE TERMINAL ASSEMBLY, TYPE 1	34.000	EACH	$1,151.12866	$39,138.37
0188	606E35100 BRIDGE TERMINAL ASSEMBLY, TYPE 2	14.000	EACH	$358.39594	$5,017.54
0189	606E60010 IMPACT ATTENUATOR, TYPE 1-98 (BIDIRECTIONAL)	30.000	EACH	$3,330.02585	$99,900.78
0190	622E10160 CONCRETE BARRIER, SINGLE SLOPE, TYPE D	225.000	FT	$97.13233	$21,854.77
0191	622E24001 CONCRETE BARRIER, TYPE D, AS PER PLAN	146.000	FT	$50.00000	$7,300.00
0192	622E25000 CONCRETE BARRIER END SECTION, TYPE D	9.000	EACH	$2,414.45268	$21,730.07
0193	690E98400 SPECIAL - MISC.: *BRIDGE SCAN SYSTEM*	1.000	LS	$28,290.00000	$28,290.00

Total for Group 0100:$1,880,889.18

Group 0200: Erosion Control

0194	659E10000 SEEDING AND MULCHING	186,309.000	SY	$0.22836	$42,545.52

Line #	Item Number / Description / *Supplemental Description*	Quantity	Units	Unit Price	Extension
0195	659E14000 REPAIR SEEDING AND MULCHING	9,300.000	SY	$0.19118	$1,777.97
0196	659E20000 COMMERCIAL FERTILIZER	25.150	TON	$313.42338	$7,882.60
0197	659E31000 LIME	38.500	ACRE	$47.12501	$1,814.31
0198	659E35000 WATER	202.000	MGAL	$0.65734	$132.78
0199	670E00700 DITCH EROSION PROTECTION	5,500.000	SY	$1.65367	$9,095.19
0200	832E15000 STORM WATER POLLUTION PREVENTION PLAN	1.000	LS	$10,000.00000	$10,000.00
0201	832E30000 EROSION CONTROL	442,000.000	EACH	$1.00000	$442,000.00

Total for Group 0200:$515,248.37

Group 0300: Drainage

0202	603E00410 4" CONDUIT, TYPE F FOR UNDERDRAIN OUTLET	1,464.000	FT	$11.40218	$16,692.79
0203	603E00510 6" CONDUIT, TYPE F FOR UNDERDRAIN OUTLETS	380.000	FT	$12.80012	$4,864.05
0204	603E98300 CONDUIT, MISC.: *SLOTTED DRAIN EXTENSION*	360.000	FT	$100.00000	$36,000.00
0205	604E09501 CATCH BASIN RECONSTRUCTED TO GRADE, AS PER PLAN	45.000	EACH	$1,763.33159	$79,349.92
0206	604E09910 CATCH BASIN FRAME AND GRATE *CATCH BASIN, NO. 5*	1.000	EACH	$250.00000	$250.00
0207	604E09910 CATCH BASIN FRAME AND GRATE *CATCH BASIN, NO. 8*	4.000	EACH	$250.00000	$1,000.00
0208	604E36600 PRECAST REINFORCED CONCRETE OUTLET	9.000	EACH	$186.22396	$1,676.02
0209	605E05101 4" SHALLOW PIPE UNDERDRAINS, AS PER PLAN *707.31*	24,683.000	FT	$4.79227	$118,287.60
0210	605E98000 UNDERDRAINS, MISC.: *4" UNCLASSIFIED PIPE UNDERDRAINS, 707.31, AS PER PLAN*	885.000	FT	$6.00000	$5,310.00
0211	605E98000 UNDERDRAINS, MISC.: *6" SLOPE DRAIN*	350.000	FT	$50.00000	$17,500.00

Total for Group 0300:$280,930.38

Group 0400: Pavement

0212	254E01000 PAVEMENT PLANING, ASPHALT CONCRETE	2,341.000	SY	$3.68664	$8,630.42
0213	255E10101 FULL DEPTH PAVEMENT REMOVAL AND RIGID REPLACEMENT, CLASS FS, AS PER PLAN *AS PER PLAN A*	2,843.000	SY	$101.95653	$289,862.41
0214	255E10101 FULL DEPTH PAVEMENT REMOVAL AND RIGID REPLACEMENT, CLASS FS, AS PER PLAN *AS PER PLAN B*	1,116.000	SY	$101.95653	$113,783.49
0215	255E20000 FULL DEPTH PAVEMENT SAWING	17,706.000	FT	$2.32247	$41,121.65

Line #	Item Number / Description / *Supplemental Description*	Quantity	Units	Unit Price	Extension
0216	256E10100 BONDED PATCHING OF PORTLAND CEMENT CONCRETE PAVEMENT, TYPE B	268.000	SF	$50.00000	$13,400.00
0217	301E46000 ASPHALT CONCRETE BASE, PG64-22	6,721.000	CY	$125.00000	$840,125.00
0218	304E20000 AGGREGATE BASE	10,068.000	CY	$37.45842	$377,131.37
0219	407E10000 TACK COAT	2,724.000	GAL	$1.45683	$3,968.40
0220	407E14000 TACK COAT FOR INTERMEDIATE COURSE	11,147.000	GAL	$1.33944	$14,930.74
0221	408E10000 PRIME COAT	19,806.000	GAL	$2.27508	$45,060.23
0222	422E20001 DOUBLE CHIP SEAL WITH POLYMER BINDER, AS PER PLAN	188,394.000	SY	$2.00000	$376,788.00
0223	442E10050 ASPHALT CONCRETE SURFACE COURSE, 12.5MM, TYPE B (446)	11,663.000	CY	$150.00000	$1,749,450.00
0224	442E10100 ASPHALT CONCRETE INTERMEDIATE COURSE, 19MM, TYPE A (446)	35,991.000	CY	$135.00000	$4,858,785.00
0225	448E46061 ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1, UNDER GUARDRAIL, PG64-22, AS PER PLAN	409.000	CY	$163.67322	$66,942.35
0226	451E20000 REINFORCED CONCRETE PAVEMENT, MISC.: *BREAKING AND SEATING EXISTING REINFORCED CONCRETE PAVEMENT*	202,300.000	SY	$1.00000	$202,300.00
0227	617E10100 COMPACTED AGGREGATE	26.000	CY	$64.10525	$1,666.74
0228	618E40100 RUMBLE STRIPS, (ASPHALT CONCRETE)	122,906.000	FT	$0.13178	$16,196.55

Total for Group 0400:$9,020,142.35

Group 0700: Lighting

Line #	Item Number / Description / *Supplemental Description*	Quantity	Units	Unit Price	Extension
0229	625E30707 PULL BOX, 725.08, 24", AS PER PLAN	25.000	EACH	$770.40109	$19,260.03

Total for Group 0700:$19,260.03

Group 0800: Traffic Control

Line #	Item Number / Description / *Supplemental Description*	Quantity	Units	Unit Price	Extension
0231	620E00500 DELINEATOR, POST MOUNTED	453.000	EACH	$22.00000	$9,966.00
0232	620E11000 DELINEATOR, TYPE C, BRACKET MOUNTED	20.000	EACH	$67.51874	$1,350.37
0233	620E31200 DELINEATOR REMOVED FOR DISPOSAL	150.000	EACH	$3.02878	$454.32
0234	621E10020 RPM, LOW PROFILE WHITE/RED	1,208.000	EACH	$15.93246	$19,246.41
0235	621E10030 RPM, LOW PROFILE YELLOW/RED	283.000	EACH	$21.04265	$5,955.07
0236	202E54000 RAISED PAVEMENT MARKER REMOVED *621E54000 RAISED PAVEMENT MARKER REMOVED*	1,491.000	EACH	$5.47243	$8,159.39
0237	626E00100 BARRIER REFLECTOR, TYPE A	596.000	EACH	$5.30771	$3,163.40
0238	630E03100 GROUND MOUNTED SUPPORT, NO. 3 POST	250.000	FT	$7.56686	$1,891.72
0239	630E80100 SIGN, FLAT SHEET	154.300	SF	$14.34816	$2,213.92
0240	630E84900 REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL	1.000	EACH	$13.69997	$13.70

Line #	Item Number / Description / *Supplemental Description*	Quantity	Units	Unit Price	Extension
0241	630E86002 REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL	1.000	EACH	$12.98664	$12.99
0242	642E00090 EDGE LINE	9.330	MILE	$654.20913	$6,103.77
0243	642E00390 CHANNELIZING LINE	350.000	FT	$0.72265	$252.93
0244	642E00490 STOP LINE	124.000	FT	$2.82326	$350.08
0245	642E01290 LANE ARROW	2.000	EACH	$91.02875	$182.06
0246	644E00100 EDGE LINE	25.810	MILE	$1,971.76830	$50,891.34
0247	644E00200 LANE LINE	13.870	MILE	$990.07064	$13,732.28
0248	644E00300 CENTER LINE	0.150	MILE	$7,572.14013	$1,135.82
0249	644E00400 CHANNELIZING LINE	8,025.000	FT	$1.19219	$9,567.32
0250	644E00500 STOP LINE	25.000	FT	$9.59481	$239.87
0251	644E00700 TRANSVERSE/DIAGONAL LINE	120.000	FT	$5.73341	$688.01

Total for Group 0800:$135,570.77

Group 0810: Traffic Surveillance

Line #	Item Number / Description / *Supplemental Description*	Quantity	Units	Unit Price	Extension
0230	632E26500 DETECTOR LOOP	1.000	EACH	$1,107.79056	$1,107.79

Total for Group 0810:$1,107.79

Group 1200: Maintenance of Traffic

Line #	Item Number / Description / *Supplemental Description*	Quantity	Units	Unit Price	Extension
0150	614E11100 LAW ENFORCEMENT OFFICER WITH PATROL CAR	400.000	HOUR	$51.58300	$20,633.20
0151	614E11500 WORKSITE TRAFFIC SUPERVISOR	16.000	MNTH	$4,087.87951	$65,406.07
0152	614E12336 WORK ZONE IMPACT ATTENUATOR (UNIDIRECTIONAL)	33.000	EACH	$2,670.66993	$88,132.11
0153	614E12470 WORK ZONE SPEED LIMIT SIGN	61.000	EACH	$159.62601	$9,737.19
0154	614E12484 WORK ZONE INCREASED PENALTIES SIGN	17.000	EACH	$204.28133	$3,472.78
0155	614E12500 REPLACEMENT SIGN	8.000	EACH	$185.41454	$1,483.32
0156	614E12600 REPLACEMENT DRUM	100.000	EACH	$62.16216	$6,216.22
0158	614E13300 BARRIER REFLECTOR, TYPE B	1,961.000	EACH	$4.48146	$8,788.14
0159	614E13350 OBJECT MARKER, ONE WAY	1,961.000	EACH	$10.00000	$19,610.00
0160	614E18601 PORTABLE CHANGEABLE MESSAGE SIGN, AS PER PLAN	12.000	SNMT	$1,063.41791	$12,761.01
0161	614E22000 WORK ZONE EDGE LINE, CLASS I	168.210	MILE	$2,863.66525	$481,697.13
0162	614E24000 WORK ZONE DOTTED LINE, CLASS I	46,821.000	FT	$0.48403	$22,662.77
0163	615E10000 ROADS FOR MAINTAINING TRAFFIC	1.000	LS	$10,000.00000	$10,000.00

Line #	Item Number / Description / *Supplemental Description*	Quantity	Units	Unit Price	Extension
0164	615E20000 PAVEMENT FOR MAINTAINING TRAFFIC, CLASS A	5,347.000	SY	$34.78163	$185,977.38
0165	622E40020 PORTABLE CONCRETE BARRIER, 32"	42,560.000	FT	$8.00214	$340,571.08
0166	616E10000 WATER	105.000	MGAL	$14.97257	$1,572.12
0167	614E13000 ASPHALT CONCRETE FOR MAINTAINING TRAFFIC	400.000	CY	$93.01745	$37,206.98
0168	614E12420 DETOUR SIGNING	1.000	LS	$5,000.00000	$5,000.00
0252	615E20001 PAVEMENT FOR MAINTAINING TRAFFIC, CLASS A, AS PER PLAN	6,692.000	SY	$31.30000	$209,459.60

Total for Group 1200:$1,530,387.10

Group 1500: ATH-50-1168

0002	202E11201 PORTIONS OF STRUCTURE REMOVED, AS PER PLAN	1.000	LS	$10,000.00000	$10,000.00
0003	503E11101 COFFERDAMS, CRIBS AND SHEETING, AS PER PLAN	1.000	LS	$5,000.00000	$5,000.00
0004	509E20001 REINFORCING STEEL, REPLACEMENT OF EXISTING REINFORCING STEEL, AS PER PLAN	50.000	LB	$1.49452	$74.73
0005	511E34000 CLASS S CONCRETE, SUPERSTRUCTURE	4.640	CY	$433.79549	$2,012.81
0006	512E10100 SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	542.000	SY	$9.94694	$5,391.24
0007	516E31000 JOINT SEALER	77.000	FT	$3.09281	$238.15
0008	519E11100 PATCHING CONCRETE STRUCTURE	49.000	SF	$100.00000	$4,900.00
0009	526E25000 REINFORCED CONCRETE APPROACH SLABS (T=15")	134.000	SY	$190.51395	$25,528.87

Total for Group 1500:$53,145.80

Group 1501: ATH-50-1185L

0010	202E11201 PORTIONS OF STRUCTURE REMOVED, AS PER PLAN	1.000	LS	$20,000.00000	$20,000.00
0011	503E11101 COFFERDAMS, CRIBS AND SHEETING, AS PER PLAN	1.000	LS	$15,000.00000	$15,000.00
0012	509E20001 REINFORCING STEEL, REPLACEMENT OF EXISTING REINFORCING STEEL, AS PER PLAN	50.000	LB	$2.04956	$102.48
0013	511E34000 CLASS S CONCRETE, SUPERSTRUCTURE	14.360	CY	$433.79549	$6,229.30
0014	512E10100 SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	1,056.000	SY	$9.81921	$10,369.09
0015	516E10900 ELASTOMERIC COMPRESSION SEAL	25.000	FT	$60.00000	$1,500.00
0016	516E31000 JOINT SEALER	130.000	FT	$3.09281	$402.07
0017	519E11100 PATCHING CONCRETE STRUCTURE	22.000	SF	$100.00000	$2,200.00
0018	526E25000 REINFORCED CONCRETE APPROACH SLABS (T=15")	134.000	SY	$192.39948	$25,781.53

Total for Group 1501:$81,584.47

Group 1502: ATH-50-1185R

Line #	Item Number / Description / *Supplemental Description*	Quantity	Units	Unit Price	Extension
0019	202E11201 PORTIONS OF STRUCTURE REMOVED, AS PER PLAN	1.000	LS	$20,000.00000	$20,000.00
0020	503E11101 COFFERDAMS, CRIBS AND SHEETING, AS PER PLAN	1.000	LS	$15,000.00000	$15,000.00
0021	509E20001 REINFORCING STEEL, REPLACEMENT OF EXISTING REINFORCING STEEL, AS PER PLAN	50.000	LB	$2.04956	$102.48
0022	511E34000 CLASS S CONCRETE, SUPERSTRUCTURE	9.390	CY	$433.79549	$4,073.34
0023	512E10100 SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	1,230.000	SY	$9.81921	$12,077.63
0024	516E10900 ELASTOMERIC COMPRESSION SEAL	25.000	FT	$60.00000	$1,500.00
0025	516E31000 JOINT SEALER	129.000	FT	$3.09281	$398.97
0026	519E11100 PATCHING CONCRETE STRUCTURE	84.000	SF	$100.00000	$8,400.00
0027	526E25000 REINFORCED CONCRETE APPROACH SLABS (T=15")	134.000	SY	$192.39948	$25,781.53

Total for Group 1502:$87,333.95

Group 1626: ATH-33-1760R

0028	202E11201 PORTIONS OF STRUCTURE REMOVED, AS PER PLAN	1.000	LS	$20,000.00000	$20,000.00
0029	503E11101 COFFERDAMS, CRIBS AND SHEETING, AS PER PLAN	1.000	LS	$10,000.00000	$10,000.00
0030	509E20001 REINFORCING STEEL, REPLACEMENT OF EXISTING REINFORCING STEEL, AS PER PLAN	50.000	LB	$1.49452	$74.73
0031	511E34000 CLASS S CONCRETE, SUPERSTRUCTURE	2.050	CY	$433.79549	$889.28
0032	512E10100 SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	524.000	SY	$9.94694	$5,212.20
0033	516E13200 1/2" PREFORMED EXPANSION JOINT FILLER	65.000	SF	$2.96303	$192.60
0034	516E31000 JOINT SEALER	135.000	FT	$3.09281	$417.53
0035	516E46701 RESET BEARING, AS PER PLAN	5.000	EACH	$501.31209	$2,506.56
0036	516E47001 JACKING AND TEMPORARY SUPPORT OF SUPERSTRUCTURE, AS PER PLAN	1.000	LS	$25,000.00000	$25,000.00
0049	526E25000 REINFORCED CONCRETE APPROACH SLABS (T=15")	280.000	SY	$190.51395	$53,343.91

Total for Group 1626:$117,636.81

Group 1641: ATH-33-1760L

0038	202E11201 PORTIONS OF STRUCTURE REMOVED, AS PER PLAN	1.000	LS	$20,000.00000	$20,000.00
0039	503E11101 COFFERDAMS, CRIBS AND SHEETING, AS PER PLAN	1.000	LS	$10,000.00000	$10,000.00
0040	509E20001 REINFORCING STEEL, REPLACEMENT OF EXISTING REINFORCING STEEL, AS PER PLAN	50.000	LB	$2.04956	$102.48
0041	511E34000 CLASS S CONCRETE, SUPERSTRUCTURE	1.410	CY	$433.79549	$611.65
0042	512E10100 SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	602.000	SY	$9.81921	$5,911.16
0043	516E13200 1/2" PREFORMED EXPANSION JOINT FILLER	80.000	SF	$2.96303	$237.04

Line #	Item Number / Description / *Supplemental Description*	Quantity	Units	Unit Price	Extension
0044	516E31000 JOINT SEALER	154.000	FT	$3.09281	$476.29
0045	516E46701 RESET BEARING, AS PER PLAN	2.000	EACH	$501.31209	$1,002.62
0046	516E47001 JACKING AND TEMPORARY SUPPORT OF SUPERSTRUCTURE, AS PER PLAN	1.000	LS	$10,000.00000	$10,000.00
0047	526E25000 REINFORCED CONCRETE APPROACH SLABS (T=15")	286.000	SY	$190.51395	$54,486.99

Total for Group 1641:$102,828.23

Group 1649: ATH-33-1631R

Line #	Item Number / Description	Quantity	Units	Unit Price	Extension
0051	202E11201 PORTIONS OF STRUCTURE REMOVED, AS PER PLAN	1.000	LS	$10,000.00000	$10,000.00
0052	503E11101 COFFERDAMS, CRIBS AND SHEETING, AS PER PLAN	1.000	LS	$5,000.00000	$5,000.00
0053	509E20001 REINFORCING STEEL, REPLACEMENT OF EXISTING REINFORCING STEEL, AS PER PLAN	50.000	LB	$1.49452	$74.73
0054	512E10100 SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	237.000	SY	$9.94694	$2,357.42
0055	516E31250 SPECIAL - SAWING AND SEALING CONCRETE JOINTS	50.000	FT	$16.09472	$804.74
0056	526E25000 REINFORCED CONCRETE APPROACH SLABS (T=15")	134.000	SY	$190.51395	$25,528.87
0057	848E10000 MICRO SILICA MODIFIED CONCRETE OVERLAY USING HYDRODEMOLITION	512.000	SY	$33.98532	$17,400.48
0058	848E20000 SURFACE PREPARATION USING HYDRODEMOLITION	512.000	SY	$26.94087	$13,793.73
0059	848E30000 MICRO SILICA MODIFIED CONCRETE OVERLAY (VARIABLE THICKNESS), MATERIAL ONLY	2.100	CY	$149.66519	$314.30
0060	848E50000 HAND CHIPPING	2.600	SY	$100.79185	$262.06
0061	848E50100 TEST SLAB	1.000	LS	$1,000.00000	$1,000.00
0062	848E50200 FULL-DEPTH REPAIR	1.500	CY	$226.20909	$339.31
0063	848E50320 EXISTING CONCRETE OVERLAY REMOVED	512.000	SY	$7.71665	$3,950.92
0064	848E50340 REMOVAL OF DEBONDED OR DETERIORATED EXISTING VARIABLE THICKNESS CONCRETE OVERLAY	26.000	SY	$8.84646	$230.01

Total for Group 1649:$81,056.57

Group 1657: ATH-33-1631L

Line #	Item Number / Description	Quantity	Units	Unit Price	Extension
0065	202E11201 PORTIONS OF STRUCTURE REMOVED, AS PER PLAN	1.000	LS	$10,000.00000	$10,000.00
0066	503E11101 COFFERDAMS, CRIBS AND SHEETING, AS PER PLAN	1.000	LS	$5,000.00000	$5,000.00
0067	509E20001 REINFORCING STEEL, REPLACEMENT OF EXISTING REINFORCING STEEL, AS PER PLAN	50.000	LB	$2.04956	$102.48
0068	512E10100 SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	237.000	SY	$9.81921	$2,327.15
0069	516E31250 SPECIAL - SAWING AND SEALING CONCRETE JOINTS	50.000	FT	$15.46045	$773.02
0070	519E11100 PATCHING CONCRETE STRUCTURE	6.000	SF	$100.00000	$600.00
0071	526E25000 REINFORCED CONCRETE APPROACH SLABS (T=15")	134.000	SY	$192.39948	$25,781.53

Line #	Item Number / Description / *Supplemental Description*	Quantity	Units	Unit Price	Extension
0072	848E10000 MICRO SILICA MODIFIED CONCRETE OVERLAY USING HYDRODEMOLITION	512.000	SY	$33.98532	$17,400.48
0073	848E20000 SURFACE PREPARATION USING HYDRODEMOLITION	512.000	SY	$26.94087	$13,793.73
0074	848E30000 MICRO SILICA MODIFIED CONCRETE OVERLAY (VARIABLE THICKNESS), MATERIAL ONLY	2.100	CY	$150.84342	$316.77
0075	848E50000 HAND CHIPPING	2.600	SY	$131.87265	$342.87
0076	848E50100 TEST SLAB	1.000	LS	$1,000.00000	$1,000.00
0077	848E50200 FULL-DEPTH REPAIR	1.500	CY	$226.20909	$339.31
0078	848E50320 EXISTING CONCRETE OVERLAY REMOVED	512.000	SY	$7.71665	$3,950.92
0079	848E50340 REMOVAL OF DEBONDED OR DETERIORATED EXISTING VARIABLE THICKNESS CONCRETE OVERLAY	26.000	SY	$8.84646	$230.01

Total for Group 1657:$81,958.27

Group 1688: ATH-33-1600R

0081	202E11201 PORTIONS OF STRUCTURE REMOVED, AS PER PLAN	1.000	LS	$10,000.00000	$10,000.00
0082	503E11101 COFFERDAMS, CRIBS AND SHEETING, AS PER PLAN	1.000	LS	$5,000.00000	$5,000.00
0083	509E20001 REINFORCING STEEL, REPLACEMENT OF EXISTING REINFORCING STEEL, AS PER PLAN	50.000	LB	$2.04956	$102.48
0084	512E10100 SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	204.000	SY	$9.81921	$2,003.12
0085	516E31250 SPECIAL - SAWING AND SEALING CONCRETE JOINTS	48.000	FT	$15.46045	$742.10
0086	519E11100 PATCHING CONCRETE STRUCTURE	50.000	SF	$100.00000	$5,000.00
0087	526E25000 REINFORCED CONCRETE APPROACH SLABS (T=15")	134.000	SY	$192.39948	$25,781.53
0088	848E10000 MICRO SILICA MODIFIED CONCRETE OVERLAY USING HYDRODEMOLITION	536.000	SY	$33.98532	$18,216.13
0089	848E20000 SURFACE PREPARATION USING HYDRODEMOLITION	536.000	SY	$26.94087	$14,440.31
0090	848E30000 MICRO SILICA MODIFIED CONCRETE OVERLAY (VARIABLE THICKNESS), MATERIAL ONLY	2.200	CY	$150.84342	$331.86
0091	848E50000 HAND CHIPPING	2.700	SY	$131.87265	$356.06
0092	848E50100 TEST SLAB	1.000	LS	$1,000.00000	$1,000.00
0093	848E50200 FULL-DEPTH REPAIR	3.300	CY	$226.20909	$746.49
0094	848E50320 EXISTING CONCRETE OVERLAY REMOVED	536.000	SY	$7.71665	$4,136.12
0095	848E50340 REMOVAL OF DEBONDED OR DETERIORATED EXISTING VARIABLE THICKNESS CONCRETE OVERLAY	27.000	SY	$8.84646	$238.85

Total for Group 1688:$88,095.05

Group 1703: ATH-33-1600L

0096	202E11201 PORTIONS OF STRUCTURE REMOVED, AS PER PLAN	1.000	LS	$40,000.00000	$40,000.00
0097	503E11101 COFFERDAMS, CRIBS AND SHEETING, AS PER PLAN	1.000	LS	$20,000.00000	$20,000.00

Line #	Item Number / Description / *Supplemental Description*	Quantity	Units	Unit Price	Extension
0098	509E10000 EPOXY COATED REINFORCING STEEL	2,469.000	LB	$1.40785	$3,475.98
0099	509E20001 REINFORCING STEEL, REPLACEMENT OF EXISTING REINFORCING STEEL, AS PER PLAN	50.000	LB	$2.04956	$102.48
0100	510E10000 DOWEL HOLES WITH NONSHRINK, NONMETALLIC GROUT	28.000	EACH	$22.29568	$624.28
0101	512E10100 SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	204.000	SY	$9.81921	$2,003.12
0102	512E44400 TYPE B WATERPROOFING	13.000	SY	$43.91579	$570.91
0103	516E31250 SPECIAL - SAWING AND SEALING CONCRETE JOINTS	106.000	FT	$15.46045	$1,638.81
0104	519E11100 PATCHING CONCRETE STRUCTURE	65.000	SF	$100.00000	$6,500.00
0105	526E25000 REINFORCED CONCRETE APPROACH SLABS (T=15")	294.000	SY	$192.39948	$56,565.45
0106	848E10000 MICRO SILICA MODIFIED CONCRETE OVERLAY USING HYDRODEMOLITION	718.000	SY	$33.98532	$24,401.46
0107	848E20000 SURFACE PREPARATION USING HYDRODEMOLITION	718.000	SY	$26.94087	$19,343.54
0108	848E30000 MICRO SILICA MODIFIED CONCRETE OVERLAY (VARIABLE THICKNESS), MATERIAL ONLY	2.200	CY	$150.84342	$331.86
0109	848E50000 HAND CHIPPING	3.600	SY	$131.87265	$474.74
0110	848E50100 TEST SLAB	1.000	LS	$1,000.00000	$1,000.00
0111	848E50200 FULL-DEPTH REPAIR	4.500	CY	$226.20909	$1,017.94
0112	848E50320 EXISTING CONCRETE OVERLAY REMOVED	718.000	SY	$7.71665	$5,540.55
0113	848E50340 REMOVAL OF DEBONDED OR DETERIORATED EXISTING VARIABLE THICKNESS CONCRETE OVERLAY	36.000	SY	$8.84646	$318.47

Total for Group 1703:$183,909.59

Group 1711: ATH-33-1713

Line #	Item Number / Description / *Supplemental Description*	Quantity	Units	Unit Price	Extension
0253	254E01000 PAVEMENT PLANING, ASPHALT CONCRETE	753.000	SY	$3.68664	$2,776.04
0254	442E10050 ASPHALT CONCRETE SURFACE COURSE, 12.5MM, TYPE B (446)	27.000	CY	$133.66425	$3,608.93
0255	446E46040 ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, PG64-28	37.000	CY	$141.85445	$5,248.61
0256	512E10100 SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	465.000	SY	$9.94694	$4,625.33
0257	530E00400 SPECIAL - STRUCTURE, MISC.: *Testing with repair*	1.000	EACH	$1,000.00000	$1,000.00
0258	530E00800 SPECIAL - STRUCTURE, MISC.: *Surface preparation of concrete surfaces*	753.000	SY	$5.00000	$3,765.00
0259	530E00800 SPECIAL - STRUCTURE, MISC.: *Primer for spray-applied elastomeric waterproofing membrane*	753.000	SY	$3.00000	$2,259.00
0260	530E00800 SPECIAL - STRUCTURE, MISC.: *Spray-applied elastomeric waterproofing membrane*	753.000	SY	$20.00000	$15,060.00

Total for Group 1711:$38,342.91

Line #	Item Number / Description / *Supplemental Description*	Quantity	Units	Unit Price	Extension

Group 1719: ATH-50-1592L

0113	202E11201 PORTIONS OF STRUCTURE REMOVED, AS PER PLAN	1.000	LS	$15,000.00000	$15,000.00
0114	503E11101 COFFERDAMS, CRIBS AND SHEETING, AS PER PLAN	1.000	LS	$5,000.00000	$5,000.00
0115	509E20001 REINFORCING STEEL, REPLACEMENT OF EXISTING REINFORCING STEEL, AS PER PLAN	50.000	LB	$1.49452	$74.73
0116	511E34000 CLASS S CONCRETE, SUPERSTRUCTURE	1.630	CY	$433.79549	$707.09
0117	512E10100 SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	947.000	SY	$9.94694	$9,419.75
0118	516E13200 1/2" PREFORMED EXPANSION JOINT FILLER	103.000	SF	$2.96303	$305.19
0119	516E31000 JOINT SEALER	93.000	FT	$3.09281	$287.63
0120	519E11100 PATCHING CONCRETE STRUCTURE	5.000	SF	$100.00000	$500.00
0121	526E25000 REINFORCED CONCRETE APPROACH SLABS (T=15")	213.000	SY	$190.51395	$40,579.47

Total for Group 1719:$71,873.86

Group 1727: ATH-50-1592R

0122	202E11201 PORTIONS OF STRUCTURE REMOVED, AS PER PLAN	1.000	LS	$15,000.00000	$15,000.00
0123	503E11101 COFFERDAMS, CRIBS AND SHEETING, AS PER PLAN	1.000	LS	$5,000.00000	$5,000.00
0124	509E20001 REINFORCING STEEL, REPLACEMENT OF EXISTING REINFORCING STEEL, AS PER PLAN	50.000	LB	$2.04956	$102.48
0125	511E34000 CLASS S CONCRETE, SUPERSTRUCTURE	0.680	CY	$433.79549	$294.98
0126	512E10100 SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	947.000	SY	$9.81921	$9,298.79
0127	516E13200 1/2" PREFORMED EXPANSION JOINT FILLER	103.000	SF	$2.96303	$305.19
0128	516E31000 JOINT SEALER	93.000	FT	$3.09281	$287.63
0129	519E11100 PATCHING CONCRETE STRUCTURE	9.000	SF	$100.00000	$900.00
0130	526E25000 REINFORCED CONCRETE APPROACH SLABS (T=15")	213.000	SY	$192.39948	$40,981.09

Total for Group 1727:$72,170.16

Group 1735: ATH-50-1681L

0131	202E11201 PORTIONS OF STRUCTURE REMOVED, AS PER PLAN	1.000	LS	$15,000.00000	$15,000.00
0132	503E11101 COFFERDAMS, CRIBS AND SHEETING, AS PER PLAN	1.000	LS	$5,000.00000	$5,000.00
0133	509E20001 REINFORCING STEEL, REPLACEMENT OF EXISTING REINFORCING STEEL, AS PER PLAN	50.000	LB	$2.04956	$102.48
0134	511E34000 CLASS S CONCRETE, SUPERSTRUCTURE	1.380	CY	$433.79549	$598.64
0135	512E10100 SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	934.000	SY	$9.81921	$9,171.14
0136	516E13200 1/2" PREFORMED EXPANSION JOINT FILLER	71.000	SF	$2.96303	$210.38

Line #	Item Number / Description / *Supplemental Description*	Quantity	Units	Unit Price	Extension
0137	516E31000 JOINT SEALER	180.000	FT	$3.09281	$556.71
0139	526E25000 REINFORCED CONCRETE APPROACH SLABS (T=15")	316.000	SY	$192.39948	$60,798.24

Total for Group 1735:$91,437.59

Group 1743: ATH-50-1681R

Line #	Item Number / Description / *Supplemental Description*	Quantity	Units	Unit Price	Extension
0140	202E11201 PORTIONS OF STRUCTURE REMOVED, AS PER PLAN	1.000	LS	$15,000.00000	$15,000.00
0141	503E11101 COFFERDAMS, CRIBS AND SHEETING, AS PER PLAN	1.000	LS	$5,000.00000	$5,000.00
0142	509E20001 REINFORCING STEEL, REPLACEMENT OF EXISTING REINFORCING STEEL, AS PER PLAN	50.000	LB	$2.04956	$102.48
0143	511E34000 CLASS S CONCRETE, SUPERSTRUCTURE	1.020	CY	$433.79549	$442.47
0144	512E10100 SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	935.000	SY	$9.81921	$9,180.96
0145	516E13200 1/2" PREFORMED EXPANSION JOINT FILLER	72.000	SF	$2.96303	$213.34
0146	516E31000 JOINT SEALER	127.000	FT	$3.09281	$392.79
0147	526E25000 REINFORCED CONCRETE APPROACH SLABS (T=15")	214.000	SY	$192.39948	$41,173.49

Total for Group 1743:$71,505.53

Group 1745: ATH-682-0004

Line #	Item Number / Description / *Supplemental Description*	Quantity	Units	Unit Price	Extension
0261	254E01000 PAVEMENT PLANING, ASPHALT CONCRETE	1,578.000	SY	$3.68664	$5,817.52
0262	442E10050 ASPHALT CONCRETE SURFACE COURSE, 12.5MM, TYPE B (446)	55.000	CY	$133.66425	$7,351.53
0263	446E46040 ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, PG64-28	77.000	CY	$141.85445	$10,922.79
0264	512E10100 SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	651.000	SY	$9.94694	$6,475.46
0265	530E00400 SPECIAL - STRUCTURE, MISC.: *Testing with repair*	1.000	EACH	$1,000.00000	$1,000.00
0266	530E00800 SPECIAL - STRUCTURE, MISC.: *Surface preparation of concrete surfaces*	1,578.000	SY	$5.00000	$7,890.00
0267	530E00800 SPECIAL - STRUCTURE, MISC.: *Primer for spray-applied elastomeric waterproofing membrane*	1,578.000	SY	$3.00000	$4,734.00
0268	530E00800 SPECIAL - STRUCTURE, MISC.: *Spray-applied elastomeric waterproofing membrane*	1,578.000	SY	$20.00000	$31,560.00

Total for Group 1745:$75,751.30

Group 1747: ATH-682-0014

Line #	Item Number / Description / *Supplemental Description*	Quantity	Units	Unit Price	Extension
0269	254E01000 PAVEMENT PLANING, ASPHALT CONCRETE	571.000	SY	$3.68664	$2,105.07
0270	442E10050 ASPHALT CONCRETE SURFACE COURSE, 12.5MM, TYPE B (446)	20.000	CY	$133.66425	$2,673.29
0271	446E46040 ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, PG64-28	28.000	CY	$141.85445	$3,971.92

Line #	Item Number / Description / *Supplemental Description*	Quantity	Units	Unit Price	Extension
0272	512E10100 SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	356.000	SY	$9.94694	$3,541.11
0273	530E00400 SPECIAL - STRUCTURE, MISC.: *Testing with repair*	1.000	EACH	$1,000.00000	$1,000.00
0274	530E00800 SPECIAL - STRUCTURE, MISC.: *Surface preparation of concrete surfaces*	571.000	SY	$5.00000	$2,855.00
0275	530E00800 SPECIAL - STRUCTURE, MISC.: *Primer for spray-applied elastomeric waterproofing membrane*	571.000	SY	$3.00000	$1,713.00
0276	530E00800 SPECIAL - STRUCTURE, MISC.: *Spray-applied elastomeric waterproofing membrane*	571.000	SY	$20.00000	$11,420.00

Total for Group 1747:$29,279.39

Group 2001: INCEDENTALS

0277	614E11000 MAINTAINING TRAFFIC	1.000	LS	$100,000.00000	$100,000.00
0278	619E16020 FIELD OFFICE, TYPE C	20.000	MNTH	$2,500.00000	$50,000.00
0279	623E10000 CONSTRUCTION LAYOUT STAKES	1.000	LS	$75,000.00000	$75,000.00
0280	624E10000 MOBILIZATION	1.000	LS	$400,000.00000	$400,000.00
0281	103E05000 PREMIUM FOR CONTRACT PERFORMANCE BOND AND FOR PAYMENT BOND	1.000	LS	$75,000.00000	$75,000.00

Total for Group 2001:$700,000.00

FY08'-09' Business Plan Inflation Calculator:

Last Modified: July 23rd, 2008

ENTER VALUES in the Yellow Areas Only:

Today's Date:
December 1, 2008

Estimation Start Date:
Less than or Equal to Today's Date
(mm/dd/yyyy)

12/1/2008
Start Date:

Enter Construction Mid-Point Date:
(cannot exceed 06/01/2025)
(mm/dd/yyyy)

1/1/2010
Construction Mid-Point Date:

Present-Day Estimated Cost:

$ 15,411,445.45
Estimated Dollar Amount:

Estimate Start Date to Construction Mid-Point Date: **13** **Months**

Inflation - Start to Mid-Point of Construction:

(Semi-annually compounded growth)

Business Plan **8.3%**

Inflated Dollar Amount:

$ 16,695,218.86

Estimator's Name:

County - Route - Section: ATH-33/50-15.05/11.46

PID: 21904

Estimator's Notes: NONE

TEMPORARY ROADWAY EARTHWORK TABULATION

EXCAVATION = (5347 SY + 6692 SY)*9*14”/12 *1/27 = 4682 CY

EMBANKMENT = 0 CY

Temporary Erosion Control Estimating
English Units

Version 11/2/2006

Project Name	ATH-33/50-15.05/11.46
PID	21904
Estimated Construction Cost	$10,000,000
Project Type	Resurfacing, Divided System
Planned Construction Seasons	2
Total of Temporary Erosion Control	$442,202
Percentage of Costruction Cost	4.422%

Sediment Basins	CLICK FOR INPUT HELP	
Project Earth Disturbed Area (acres)	48.5	Settling Basin May Be Needed
Est. Contractor Disturbed Area (acres)	4	
Total Acres	52.5	

Contributing Drainage Area to Culverts	CLICK FOR INPUT HELP	Drainage Area (acres)	Settling Basin Size (cyd.)	Temporary Sediment & Erosion Cost
	Culvert 1		0	
	Culvert 2		0	
	Culvert 3		0	
	Culvert 4		0	
	Culvert 5		0	
	Culvert 6		0	
	Culvert 7		0	
	Culvert 8		0	
	Culvert 9		0	
	Culvert 10		0	
	Culvert 11		0	
	Culvert 12		0	
	Culvert 13		0	
	Culvert 14		0	
	Culvert 15		0	
	Culvert 16		0	
	Culvert 17		0	
	Culvert 18		0	
	Culvert 19		0	
	Culvert 20		0	
	Culvert 21		0	
	Culvert 22		0	
	Culvert 23		0	
	Culvert 24		0	
	Culvert 25		0	
	Total Sediment Basins (cyd.)		0	$0
	Sediment Removal		0	$0

Constuction Seeding and Mulching	CLICK FOR INPUT HELP (Square. yd.)	($/Square Yard)	
Seeding Area	186309	$0.50	$279,464

Perimeter Filter Fabric Fence	CLICK FOR INPUT HELP	($/Foot)		
	Length of project (ft)	31891	$1.70	$81,322

Temporary Erosion Control Estimating
English Units

Version 11/2/2006

Filter Fabric Ditch Check	CLICK FOR INPUT HELP	Length (Ft)		
	Length of project (ft)	31891		
	Number of Filter Ditch Checks		128	
	Length of Filter Ditch Checks (ft)		1,531	$12,246
Rock Channel Protection w/ Filter	CLICK FOR INPUT HELP			
	Rock (cubic yards)		57	$3,969
Existing Stream Protection	CLICK FOR INPUT HELP			
Average Right of Way Width	400			
Number of Existing Streams	0			
		($/Foot)		
	Silt Fence Length (Ft)	$1.70	0	$0
		($/Square Yard)		
	Seeding (square yd)	$0.50	0	$0
Inlet Protection	CLICK FOR INPUT HELP			
Catch Basins				
New	0			
Adjusted	45			
	Catch Basin Protection (Ft.)		720	$6,480
Construction Entrance	CLICK FOR INPUT HELP			
	Length of project (ft)	31891		
	Number of Entrances		18	$58,722

PROPOSAL NOTE LIST

2008 CMS

PRODUCTION OFFICE DIST. NO. 10

CRS: ATH-33/50-15.05/11.46

PID: 21904

DATE: 11-25-08

BY: Alan Craig **EXT:** 568-3954

100 - GENERAL OR MISCELLANEOUS

NUMBER	DATE	ITEM	DESCRIPTION
☐ 4A	———		UTILITIES
☐ 100	12-16-93		SPECIALTY ITEMS (FOR CENTRAL OFFICE USE ONI
☑ 103	1-7-98		VALUE ENGINEERING - CONSTRUCTION COSTS
☐ 104	1-7-98		VALUE ENGINEERING - CONSTRUCTIONS COSTS &
☐ 105	1-18-08		CRITICAL PATH METHOD PROGRESS SCHEDULE F(DURATION PROJECTS
☐ 106	1-18-08		ENVIRONMENTAL MITIGATION BAR CHART SCHE
☑ 107	4-18-08		CRITICAL PATH METHOD PROGRESS SCHEDULE
☐ 108	1-20-06		DISPUTE REVIEW BOARD
☑ 109	10-17-08		DISPUTE RESOLUTION AND ADMINISTRATIVE CL/ PROCESS
☐ 110	4-18-08		ESCROW BID DOCUMENTS
☐ 120	10-19-07		WORK DAY - FOR USE WITH INNOVATIVE CONTRA
☐ 121	10-19-07		INCENTIVE/DISINCENTIVE - FOR USE WITH INNOV CONTRACTING
☐ 122	7-18-03		LIQUIDATED SAVINGS - FOR USE WITH INNOVATI CONTRACTING
☐ 123	10-19-07		LUMP SUM - FOR USE WITH INNOVATIVE CONTRA
☐ 124	4-18-08		SPECIAL CLAUSES FOR CALENDAR DAYS OF CONT TIME FOR OPENING TO UNRESTRICTED TRAFFIC - BIDDING
☐ 125	10-19-07		A PLUS B WITH MULTIPLE SECTIONS
☐ 126	1-18-08		REVISIONS TO THE 2008 C&MS FOR DESIGN BUILD PROJECTS
☐ 127	10-19-07		LANE VALUE
☐ 128	10-19-07		UNAUTHORIZED LANE USE
☐ 129	10-19-07		WINDOW NOTE

☐ 130	7-21-06		EXTENSION TO THE COMPLETION DATE FOR WEA
☐ 140	10-17-08		RESTRICTIONS ON USE OF FUTURE MITIGATION P/ LOCATED OUTSIDE OF THE PROJECT RIGHT OF W/
☐	———		RAILROAD SPECIAL CLAUSES
☐			
☐			

400 - PAVEMENT

NUMBER	DATE	ITEM	DESCRIPTION
☐ 415	10-21-05		ASPHALT PAVEMENT LONGITUDINAL JOINT CONSTRUCTION
☑ 416	7-15-05	301,402,403,404 412,446 AND 448	DESIGN REQUIREMENTS FOR PLANT MIX PAVEM (HEAVY TRAFFIC)
☐ 417	7-15-05	301,402,403,404 412,446 AND 448	DESIGN REQUIREMENTS FOR PLANT MIX PAVEM (MEDIUM TRAFFIC)
☐ 418	7-15-05	301,402,403,404 412,446 AND 448	DESIGN REQUIREMENTS FOR PLANT MIX PAVEM (LIGHT TRAFFIC)
☐ 419	7-15-05	301,402,403,404 412,446 AND 448	DESIGN REQUIREMENTS FOR PLANT MIX PAVEM (MULTIPLE TRAFFIC)
☑ 420	4-18-08		SURFACE SMOOTHNESS REQUIREMENTS
☐ 461	7-21-06		NIGHT PAVING: USING MATERIAL TRANSFER DE
☐ 463	4-20-07		JOINT REPAIR USING RAPID STRENGTH CONCRE MATURITY TESTING
☐ 470	4-18-08		THIN LIFT ASPHALT SMOOTHNESS REQUIREMEN
☐			
☐			
☐			
☐			

500 - STRUCTURES

NUMBER	DATE	ITEM	DESCRIPTION
☐ 511	4-15-05		PATCHING CONCRETE BRIDGE DECK OVERLA MIRCO-SILICA MODIFIED CONCRETE
☐ 512	7-20-07	SPECIAL	PATCHING CONCRETE BRIDGE DECKS
☑ 520	3-1-06		FUEL PRICE ADJUSTMENT NOTE
☑ 525	8-2-04		STEEL PRICE ADJUSTMENT NOTE
☐ 527	4-15-05	515	HIGH EARLY STRENGTH KEYWAY GROUT FO PRESTRESSED/POST TENSIONED CONCRETE M
☐ 531	4-19-02	511	ITEMS 511.11 ANTI-WASHOUT ADMIXTURE FC UNDERWATER CONCRETING/GROUTING
☐			
☐			
☐			
☐			

600 - TRAFFIC CONTROL, LIGHTING & M O T INCIDENTALS

NUMBER	DATE	ITEM	DESCRIPTION
☐ 621b	4-16-96	632, 633	SIGNAL MAINTENANCE PERSONNEL REQUIREMEN'
☐ 623	4-15-05		PROVIDING ELECTRONIC EQUIPMENT FOR CONSTRUCTION LAYOUT
☐			

650 - ROADSIDE

NUMBER	DATE	ITEM	DESCRIPTION
☐ 651	6-13-03		HERBICIDAL PRODUCT DATA
☐			

OTHER

NUMBER	DATE	ITEM	DESCRIPTION
☐ 860	4-8-74		GUARANTIES AND WARRANTIES
☐			
☐			
☐			

CONTINUED FROM SECTION

NUMBER	DATE	ITEM	DESCRIPTION
☐			
☐			
☐			

SPECIALTY ITEMS (108.01) ***(For Central Office to fill)***

The following items in this contract, **if sublet,** will be treated as "Specialty Items"

NUMBER	DATE	ITEM	DESCRIPTION

Revised 03-02-06

SPECIAL PROVISIONS

Supplemental Specification 832

CO-RT-SEC: ATH-33/50-15.05/11.46
PID: 21904

DATE: 5-20-08

SUPPLEMENTAL SPECIFICATION 832 UPDATE FOR COVERAGE UNDER OHIO EPA PERMIT NO. OHC000003

ALL REFERENCES TO THE OHIO ENVIRONMENTAL PROTECTION AGENCY (OEPA) NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) CONSTRUCTION EFFLUENT GUIDELINES PERMIT NO. OHC000002 IN SUPPLEMENTAL SPECIFICATION 832 (SS832) AND APPENDIX E WILL BE REPLACED WITH THE OEPA GENERAL PERMIT NO. OHC000003, AUTHORIZATION FOR STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY UNDER THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM ("THE OHC000003 PERMIT"). A COPY OF THE OHC000003 PERMIT IS ATTACHED.

THE CONTRACTOR NEEDS TO FULLY UNDERSTAND ALL REQUIREMENTS OF THE OHC000003 PERMIT BEFORE BEGINNING ANY WORK. FOR ANY DISCREPENCIES BETWEEN SS832 AND THIS SPECIAL PROVISION, RESOLUTION SHOULD BE BASED ON THE OHC000003 PERMIT.

ALL ITEMS COVERED IN SS832 WILL APPLY WITH THE EXCEPTION OF THE ITEMS NOTED BELOW:

A. SECTION 832.06 - EARTH DISTURBING ACTIVITY (EDA) REQUIREMENTS

1. DELETE THE SECOND SENTENCE IN THE FIRST PARAGRAPH, "COMPLY WITH C&MS 105.16 WHEN EDA (INCLUDING BORROW AND WASTE AREAS) ARE INVOLVED, UNLESS THE AREAS IN QUESTION HAVE BEEN CLEARED THROUGH PRIOR ENVIRONMENTAL STUDIES".

B. SECTION 832.08(I) - LOCATE AND FURNISH BMP (SEDIMENT BASINS AND DAMS

1. CONSTRUCT BASINS ACCORDING TO THE CONDITIONS AND VOLUME REQUIREMENTS INDICATED IN THE OHC000003 PERMIT.

C. SECTION 832.13 – SWPPP ACCEPTANCE

1. ADD THE FOLLOWING TO THE EXISTING LIST OF ITEMS THAT MAY BE CRITICALLY ASSESED BY THE DEPARTMENT:

   a. THE VOLUME, GEOMETRY AND LOCATION OF SEDIMENT BASINS.
   b. IF REQUIRED BY THE OHC000003 PERMIT, CALCULATIONS VERIFYING THE DRAIN TIME OF SEDIMENT PONDS MEETS THE REQUIREMENTS OF THE OHC000003 PERMIT.

May 20, 2008

Ohio EPA Permit No.: OHC000003

Effective Date: April 21, 2008
Expiration Date: April 20, 2013

OHIO ENVIRONMENTAL PROTECTION AGENCY

AUTHORIZATION FOR STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY UNDER THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

In compliance with the provisions of the federal Water Pollution Control Act, as amended (33 U.S.C. Section 1251 et. seq. hereafter referred to as "the Act") and the Ohio Water Pollution Control Act [Ohio Revised Code ("ORC") Chapter 6111], dischargers of storm water from sites where construction activity is being conducted, as defined in Part I.B of this permit, are authorized by the Ohio Environmental Protection Agency, hereafter referred to as "Ohio EPA," to discharge from the outfalls at the sites and to the receiving surface waters of the State identified in their Notice of Intent ("NOI") application form on file with Ohio EPA in accordance with the conditions specified in Parts I through VII of this permit.

It has been determined that a lowering of water quality of various waters of the State associated with granting coverage under this permit is necessary to accommodate important social and economic development in the state of Ohio. In accordance with OAC 3745-1-05, this decision was reached only after examining a series of technical alternatives, reviewing social and economic issues related to the degradation, and considering all public and intergovernmental comments received concerning the proposal.

This permit is conditioned upon payment of applicable fees, submittal of a complete NOI application form and written approval of coverage from the director of Ohio EPA in accordance with Ohio Administrative Code ("OAC") Rule 3745-38-06.

Laura H. Powell

Laura H. Powell
Assistant Director

I certify this to be a true and accurate copy of the official documents as filed in the records of the Ohio Environmental Protection Agency.

By: _____ Date: 4-21-08

TABLE OF CONTENTS

PART I. COVERAGE UNDER THIS PERMIT

A. Permit Area.

This permit covers the entire State of Ohio.

B. Eligibility.

1. Construction activities covered. Except for storm water discharges identified under Part I.B.2, this permit may cover all new and existing discharges composed entirely of storm water discharges associated with construction activity that enter surface waters of the State or a storm drain leading to surface waters of the State.

   For the purposes of this permit, construction activities include any clearing, grading, excavating, grubbing and/or filling activities that disturb one or more acres of land. Discharges from trench dewatering are also covered by this permit as long as the dewatering activity is carried out in accordance with the practices outlined in Part III.G.2.g.iv of this permit. The threshold acreage includes the entire area disturbed in the larger common plan of development or sale.

   This permit also authorizes storm water discharges from support activities (e.g., concrete or asphalt batch plants, equipment staging yards, material storage areas, excavated material disposal areas, borrow areas) provided:

   a. The support activity is directly related to a construction site that is required to have NPDES permit coverage for discharges of storm water associated with construction activity;

   b. The support activity is not a commercial operation serving multiple unrelated construction projects and does not operate beyond the completion of the construction activity at the site it supports;

   c. Appropriate controls and measures are identified in a storm water pollution prevention plan (SWP3) covering the discharges from the support activity; and

   d. The support activity is on or contiguous with the property defined in the NOI (off-site borrow pits and soil disposal areas, which serve only one project, do not have to be contiguous with the construction site);

Part I.B

2. Limitations on coverage. The following storm water discharges associated with construction activity are not covered by this permit:

   a. Storm water discharges that originate from the site after construction activities have been completed, including any temporary support activity, and the site has achieved final stabilization. Industrial post-construction storm water discharges may need to be covered by an NPDES permit;

   b. Storm water discharges associated with construction activity that the director has shown to be or may reasonably expect to be contributing to a violation of a water quality standard; and

   c. Storm water discharges authorized by an individual NPDES permit or an alternative NPDES general permit;

3. Waivers. After March 10, 2003, sites whose larger common plan of development or sale have at least one, but less than five acres of land disturbance, which would otherwise require permit coverage for storm water discharges associated with construction activities, may request that the director waive their permit requirement. Entities wishing to request such a waiver must certify in writing that the construction activity meets one of the two waiver conditions:

   a. **Rainfall erosivity waiver.** For a construction site to qualify for the rainfall erosivity waiver, the cumulative rainfall erosivity over the project duration must be five or less and the site must be stabilized with at least a 70 percent vegetative cover or other permanent, non-erosive cover. The rainfall erosivity must be calculated according to the method in U.S. EPA Fact Sheet 3.1 Construction Rainfall Erosivity Waiver dated January 2001. If it is determined that a construction activity will take place during a time period where the rainfall erosivity factor is less than five, a written waiver certification must be submitted to Ohio EPA at least 21 days before construction activity is scheduled to begin. If the construction activity will extend beyond the dates specified in the waiver certification, the operator must either: (a) recalculate the waiver using the original start date with the new ending date (if the R factor is still less than five, a new waiver certification must be submitted) or (b) submit an NOI application form and fee for coverage under this general permit at least seven days prior to the end of the waiver period (see Attachment A); or

Part I.B.3

b. **TMDL (Total Maximum Daily Load) waiver.** Storm water controls are not needed based on a TMDL approved or established by U.S. EPA that addresses the pollutant(s) of concern or, for non-impaired waters that do not require TMDLs, an equivalent analysis that determines allocations for small construction sites for the pollutant(s) of concern or that determines that such allocations are not needed to protect water quality based on consideration of existing in-stream concentrations, expected growth in pollutant contributions from all sources, and a margin of safety. The pollutant(s) of concern include sediment or a parameter that addresses sediment (such as total suspended solids, turbidity or siltation) and any other pollutant that has been identified as a cause of impairment of any water body that will receive a discharge from the construction activity. The operator must certify to the director of Ohio EPA that the construction activity will take place, and storm water discharges will occur, within the drainage area addressed by the TMDL or equivalent analysis. A written waiver certification must be submitted to Ohio EPA at least 21 days before the construction activity is scheduled to begin.

4. Prohibition on non-storm water discharges. All discharges covered by this permit must be composed entirely of storm water with the exception of the following: discharges from fire fighting activities; fire hydrant flushings; potable water sources including waterline flushings; irrigation drainage; lawn watering; routine external building washdown which does not use detergents; pavement washwaters where spills or leaks of toxic or hazardous materials have not occurred (unless all spilled material has been removed) and where detergents are not used; air conditioning condensate; springs; uncontaminated ground water from trench or well point dewatering and foundation or footing drains where flows are not contaminated with process materials such as solvents. Dewatering activities must be done in compliance with Part III.G.2.g.iv of this permit. Discharges of material other than storm water or the authorized non-storm water discharges listed above must comply with an individual NPDES permit or an alternative NPDES general permit issued for the discharge.

Except for flows from fire fighting activities, sources of non-storm water listed above that are combined with storm water discharges associated with construction activity must be identified in the SWP3. The SWP3 must identify and ensure the implementation of appropriate pollution prevention measures for the non-storm water component(s) of the discharge.

Part I.B

5. Spills and unintended releases (Releases in excess of Reportable Quantities). This permit does not relieve the permittee of the reporting requirements of 40 CFR Part 117 and 40 CFR Part 302. In the event of a spill or other unintended release, the discharge of hazardous substances in the storm water discharge(s) from a construction site must be minimized in accordance with the applicable storm water pollution prevention plan for the construction activity and in no case, during any 24-hour period, may the discharge(s) contain a hazardous substance equal to or in excess of reportable quantities.

   40 CFR Part 117 sets forth a determination of the reportable quantity for each substance designated as hazardous in 40 CFR Part 116. The regulation applies to quantities of designated substances equal to or greater than the reportable quantities, when discharged to surface waters of the State. 40 CFR Part 302 designates under section 102(a) of the Comprehensive Environmental Response, Compensation and Liability Act of 1980, those substances in the statutes referred to in section 101(14), identifies reportable quantities for these substances and sets forth the notification requirements for releases of these substances. This regulation also sets forth reportable quantities for hazardous substances designated under section 311(b)(2)(A) of the Clean Water Act (CWA).

C. Requiring an individual NPDES permit or an alternative NPDES general permit.

1. The director may require an alternative permit. The director may require any operator eligible for this permit to apply for and obtain either an individual NPDES permit or coverage under an alternative NPDES general permit in accordance with OAC Rule 3745-38-04. Any interested person may petition the director to take action under this paragraph.

   The director will send written notification that an alternative NPDES permit is required. This notice shall include a brief statement of the reasons for this decision, an application form and a statement setting a deadline for the operator to file the application. If an operator fails to submit an application in a timely manner as required by the director under this paragraph, then coverage, if in effect, under this permit is automatically terminated at the end of the day specified for application submittal.

Part I.C

2. Operators may request an individual NPDES permit. Any owner or operator eligible for this permit may request to be excluded from the coverage of this permit by applying for an individual permit. The owner or operator shall submit an individual application with reasons supporting the request to the director in accordance with the requirements of 40 CFR 122.26. If the reasons adequately support the request, the director shall grant it by issuing an individual NPDES permit.

3. When an individual NPDES permit is issued to an owner or operator otherwise subject to this permit or the owner or operator is approved for coverage under an alternative NPDES general permit, the applicability of this permit to the individual NPDES permittee is automatically terminated on the effective date of the individual permit or the date of approval for coverage under the alternative general permit, whichever the case may be.

D. Permit requirements when portions of a site are sold

If an operator obtains a permit for a development, and then the operator (permittee) sells off lots or parcels within that development, permit coverage must be continued on those lots until a Notice of Termination (NOT) in accordance with Part IV.B is submitted. For developments which require the use of centralized sediment and erosion controls (i.e., controls that address storm water runoff from one or more lots) for which the conveyance of permit coverage for a portion of the development will either prevent or impair the implementation of the controls and therefore jeopardize compliance with the terms and conditions of this permit, the permittee will be required to maintain responsibility for the implementation of those controls. For developments where this is not the case, it is the permittee's responsibility to temporarily stabilize all lots sold to individual lot owners unless an exception is approved in accordance with Part III.G.4. In cases where permit coverage for individual lot(s) will be conveyed, the permittee shall inform, in writing, the individual lot owner of the obligations under this permit and ensure that the Individual Lot NOI application is submitted to Ohio EPA.

E. Authorization

1. Obtaining authorization to discharge. Operators that discharge storm water associated with construction activity must submit an NOI application form in accordance with the requirements of Part II of this permit to obtain authorization to discharge under this general permit. As required under OAC Rule 3745-38-06(E), the director, in response to the NOI submission, shall notify the applicant in writing that he/she has been granted general permit coverage to discharge storm water associated with construction activity under the terms and conditions of this permit or that the applicant must apply for an individual NPDES permit or coverage under an alternate general NPDES permit as described in Part I.C.1.

Part I.E

2. No release from other requirements. No condition of this permit shall release the permittee from any responsibility or requirements under other environmental statutes or regulations. Other permit requirements commonly associated with construction activities include, but are not limited to, section 401 water quality certifications, isolated wetland permits, permits to install sanitary sewers or other devices that discharge or convey polluted water, permits to install drinking water lines, single lot sanitary system permits and disturbance of land which was used to operate a solid or hazardous waste facility (i.e., coverage under this NPDES general permit does not satisfy the requirements of OAC Rule 3745-27-13 or ORC Section 3734.02(H)). This permit does not relieve the permittee of other responsibilities associated with construction activities such as contacting the Ohio Department of Natural Resources, Division of Water, to ensure proper well installation and abandonment of wells.

Part II. NOTICE OF INTENT REQUIREMENTS

A. Deadlines for notification.

Initial coverage: Operators who intend to obtain initial coverage for a storm water discharge associated with construction activity under this general permit must submit a complete and accurate NOI application form and appropriate fee at least 21 days prior to the commencement of construction activity. If more than one operator, as defined in Part VII of this general permit, will be engaged at a site, each operator shall seek coverage under this general permit. Where one operator has already submitted an NOI prior to other operator(s) being identified, the additional operator shall request modification of coverage to become a co-permittee. In such instances, the co-permittees shall be covered under the same facility permit number. No additional permit fee is required.

Individual lot transfer of coverage: Operators must each submit an individual lot notice of intent (Individual Lot NOI) application form (no fee required) to Ohio EPA at least seven days prior to the date that they intend to accept responsibility for permit requirements for their portion of the original permitted development from the previous permittee. The original permittee may submit an Individual Lot NOT at the time the Individual Lot NOI is submitted. Transfer of permit coverage is not granted until an approval letter from the director of Ohio EPA is received by the applicant.

B. Failure to notify.

Operators who fail to notify the director of their intent to be covered and who discharge pollutants to surface waters of the State without an NPDES permit are in violation of ORC Chapter 6111. In such instances, Ohio EPA may bring an enforcement action for any discharges of storm water associated with construction activity.

Part II

C. Where to submit an NOI.

Operators seeking coverage under this permit must submit a signed NOI form, provided by Ohio EPA, to the address found in the associated instructions.

D. Additional notification.

The permittee shall make NOIs and SWP3s available upon request of the director of Ohio EPA, local agencies approving sediment and erosion control plans, grading plans or storm water management plans, local governmental officials, or operators of municipal separate storm sewer systems (MS4s) receiving drainage from the permitted site. Each operator that discharges to an NPDES permitted MS4 shall provide a copy of its Ohio EPA NOI submission to the MS4 in accordance with the MS4's requirements, if applicable.

E. Renotification.

Upon renewal of this general permit, the permittee is required to notify the director of his intent to be covered by the general permit renewal. Permittees covered under the previous NPDES general permits for storm water discharges associated with construction activity (NPDES permit numbers OHR100000 and OHC000002) shall have continuing coverage under this permit. The permittees covered under OHR100000 or OHC000002 shall submit a letter within 90 days of receipt of written notification by Ohio EPA expressing their intent that coverage be continued. There is no fee associated with these letters of intent for continued coverage. Permit coverage will be terminated after the 90-day period if the letter is not received by Ohio EPA. Ohio EPA will provide instructions on the contents of the letter and where it is to be sent within the notification letter.

PART III. STORM WATER POLLUTION PREVENTION PLAN (SWP3)

A. Storm Water Pollution Prevention Plans.

A SWP3 shall be developed for each site covered by this permit. For a multi-phase construction project, a separate NOI shall be submitted when a separate SWP3 will be prepared for subsequent phases. SWP3s shall be prepared in accordance with sound engineering and/or conservation practices by a professional experienced in the design and implementation of standard erosion and sediment controls and storm water management practices addressing all phases of construction. The SWP3 shall identify potential sources of pollution which may reasonably be expected to affect the quality of storm water discharges associated with construction activities. The SWP3 shall be a comprehensive, stand-alone document, which is not complete unless it contains the information required by Part III.G of this permit. In addition, the SWP3 shall describe and ensure the implementation of best management practices (BMPs) that reduce the pollutants in storm water discharges during construction and pollutants associated with post-construction activities to ensure compliance with ORC Section 6111.04, OAC Chapter 3745-1 and the terms and conditions of this permit.

B. Timing

A SWP3 shall be completed prior to the timely submittal of an NOI and updated in accordance with Part III.D. Upon request and good cause shown, the director may waive the requirement to have a SWP3 completed at the time of NOI submission. If a waiver has been granted, the SWP3 must be completed prior to the initiation of construction activities. The SWP3 must be implemented upon initiation of construction activities.

Permittees continuing coverage from the previous generations of this permit (OHR100000 and OHC000002) that have initiated construction activity prior to the receipt of the first written notification from Ohio EPA to submit a letter of intent to continue coverage, as required in Part II.E, are not required to update their SWP3 as a result of this renewal (OHC000003). Permittees continuing coverage from the previous generations of this permit (OHR100000 and OHC000002) that have not initiated construction activity prior to the receipt of the first written notification from Ohio EPA to submit a letter of intent to continue coverage, as required in Part II.E, are required to update their SWP3 as a result of this renewal (OHC000003).

C. SWP3 Signature and Review.

1. Plan Signature and Retention On Site. The SWP3 shall include the certification in Part V.H., be signed in accordance with Part V.G., and be retained on site during working hours.

Part III.C

2. Plan Availability

   a. On-site: The plan shall be made available immediately upon request of the director or his authorized representative during working hours. A copy of the NOI and letter granting permit coverage under this general permit also shall be made available at the site.

   b. By written request: The permittee must provide a copy of the SWP3 within 10 days upon written request by any of the following:

      i. The director or the director's authorized representative;

      ii. A local agency approving sediment and erosion plans, grading plans or storm water management plans; or

      iii. In the case of a storm water discharge associated with construction activity which discharges through a municipal separate storm sewer system with an NPDES permit, to the operator of the system.

   c. To the public: All NOIs, general permit approval for coverage letters, and SWP3s are considered reports that shall be available to the public in accordance with the Ohio Public Records law. The permittee shall make documents available to the public upon request or provide a copy at public expense, at cost, in a timely manner. However, the permittee may claim to Ohio EPA any portion of an SWP3 as confidential in accordance with Ohio law.

3. Plan Revision. The director or authorized representative, may notify the permittee at any time that the SWP3 does not meet one or more of the minimum requirements of this part. Within 10 days after such notification from the director (or as otherwise provided in the notification) or authorized representative, the permittee shall make the required changes to the SWP3 and, if requested, shall submit to Ohio EPA the revised SWP3 or a written certification that the requested changes have been made.

D. Amendments

The permittee shall amend the SWP3 whenever there is a change in design, construction, operation or maintenance, which has a significant effect on the potential for the discharge of pollutants to surface waters of the State or if the SWP3 proves to be ineffective in achieving the general objectives of controlling pollutants in storm water discharges associated with construction activity. Amendments to the SWP3 may be reviewed by Ohio EPA in the same manner as Part III.C.

Part III

E. Duty to inform contractors and subcontractors

The permittee shall inform all contractors and subcontractors not otherwise defined as "operators" in Part VII of this general permit, who will be involved in the implementation of the SWP3, of the terms and conditions of this general permit. The permittee shall maintain a written document containing the signatures of all contractors and subcontractors involved in the implementation of the SWP3 as proof acknowledging that they reviewed and understand the conditions and responsibilities of the SWP3. The written document shall be created and signatures of each individual contractor shall be obtained prior to their commencement of work on the construction site.

F. Total Maximum Daily Load (TMDL) allocations

If a TMDL is approved for any waterbody into which the permittee's site discharges and requires specific BMPs for construction sites, the director may require the permittee to revise his/her SWP3.

G. SWP3 Requirements

Operations that discharge storm water from construction activities are subject to the following requirements and the SWP3 shall include the following items:

1. Site description. Each SWP3 shall provide:

   a. A description of the nature and type of the construction activity (e.g., low density residential, shopping mall, highway, etc.);

   b. Total area of the site and the area of the site that is expected to be disturbed (i.e., grubbing, clearing, excavation, filling or grading, including off-site borrow areas);

   c. An estimate of the impervious area and percent imperviousness created by the construction activity;

   d. A calculation of the runoff coefficients for both the pre-construction and post construction site conditions;

   e. Existing data describing the soil and, if available, the quality of any discharge from the site;

   f. A description of prior land uses at the site;

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g. An implementation schedule which describes the sequence of major construction operations (i.e., grubbing, excavating, grading, utilities and infrastructure installation) and the implementation of erosion, sediment and storm water management practices or facilities to be employed during each operation of the sequence;

h. The name and/or location of the immediate receiving stream or surface water(s) and the first subsequent named receiving water(s) and the areal extent and description of wetlands or other special aquatic sites at or near the site which will be disturbed or which will receive discharges from disturbed areas of the project. For discharges to an MS4, the point of discharge to the MS4 and the location where the MS4 ultimately discharges to a stream or surface water of the State must be indicated;

i. For subdivided developments where the SWP3 does not call for a centralized sediment control capable of controlling multiple individual lots, a detail drawing of a typical individual lot showing standard individual lot erosion and sediment control practices.

   This does not remove the responsibility to designate specific erosion and sediment control practices in the SWP3 for critical areas such as steep slopes, stream banks, drainage ways and riparian zones.

j. Location and description of any storm water discharges associated with dedicated asphalt and dedicated concrete plants covered by this permit and the best management practices to address pollutants in these storm water discharges;

k. A copy of the permit requirements (attaching a copy of this permit is acceptable);

l. A cover page or title identifying the name and location of the site, the name and contact information of all construction site operators, the name and contact information for the person responsible for authorizing and amending the SWP3, preparation date, and the estimated dates that construction will start and be complete;

m. A log documenting grading and stabilization activities as well as amendments to the SWP3, which occur after construction activities commence; and

n. Site map showing:

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i. Limits of earth-disturbing activity of the site including associated off-site borrow or spoil areas that are not addressed by a separate NOI and associated SWP3;

ii. Soils types should be depicted for all areas of the site, including locations of unstable or highly erodible soils;

iii. Existing and proposed contours. A delineation of drainage watersheds expected during and after major grading activities as well as the size of each drainage watershed, in acres;

iv. Surface water locations including springs, wetlands, streams, lakes, water wells, etc., on or within 200 feet of the site, including the boundaries of wetlands or stream channels and first subsequent named receiving water(s) the permittee intends to fill or relocate for which the permittee is seeking approval from the Army Corps of Engineers and/or Ohio EPA;

v. Existing and planned locations of buildings, roads, parking facilities and utilities;

vi. The location of all erosion and sediment control practices, including the location of areas likely to require temporary stabilization during the course of site development;

vii. Sediment and storm water management basins noting their sediment settling volume and contributing drainage area;

viii. Permanent storm water management practices to be used to control pollutants in storm water after construction operations have been completed.

ix. Areas designated for the storage or disposal of solid, sanitary and toxic wastes, including dumpster areas, areas designated for cement truck washout, and vehicle fueling;

x. The location of designated construction entrances where the vehicles will access the construction site;

xi. The location of any in-stream activities including stream crossings;

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2. Controls. The SWP3 must contain a description of the controls appropriate for each construction operation covered by this permit and the operator(s) must implement such controls. The SWP3 must clearly describe for each major construction activity identified in Part III.G.1.g: (a) appropriate control measures and the general timing (or sequence) during the construction process that the measures will be implemented; and (b) which contractor is responsible for implementation (e.g., contractor A will clear land and install perimeter controls and contractor B will maintain perimeter controls until final stabilization). The SWP3 shall identify the subcontactors engaged in activities that could impact storm water runoff. The SWP3 shall contain signatures from all of the identified subcontractors indicating that they have been informed and understand their roles and responsibilities in complying with the SWP3. Ohio EPA recommends that the primary site operator review the SWP3 with the primary contractor prior to commencement of construction activities and keep a SWP3 training log to demonstrate that this review has occurred.

   Ohio EPA recommends that the erosion, sediment, and storm water management practices used to satisfy the conditions of this permit should meet the standards and specifications in the current edition of Ohio's Rainwater and Land Development (see definitions) manual or other standards acceptable to Ohio EPA. The controls shall include the following minimum components:

   a. **Non-Structural Preservation Methods.** The SWP3 must make use of practices which preserve the existing natural condition as much as feasible. Such practices may include: preserving riparian areas adjacent to surface waters of the State, preserving existing vegetation and vegetative buffer strips, phasing of construction operations in order to minimize the amount of disturbed land at any one time and designation of tree preservation areas or other protective clearing or grubbing practices. The recommended buffer that operators should leave undisturbed along a surface water of the State is 25 feet as measured from the ordinary high water mark of the surface water.

   b. **Erosion Control Practices.** The SWP3 must make use of erosion controls that are capable of providing cover over disturbed soils unless an exception is approved in accordance with Part III.G.4. A description of control practices designed to restabilize disturbed areas after grading or construction shall be included in the SWP3. The SWP3 must provide specifications for stabilization of all disturbed areas of the site and provide guidance as to which method of stabilization will be employed for any time of the year. Such practices may include: temporary seeding, permanent seeding, mulching, matting, sod stabilization, vegetative buffer strips, phasing of construction operations, use of construction entrances and the use of alternative ground cover.

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i. **Stabilization.** Disturbed areas must be stabilized as specified in the following tables below. Permanent and temporary stabilization are defined in Part VII.

Table 1: Permanent Stabilization

Area requiring permanent stabilization	Time frame to apply erosion controls
Any areas that will lie dormant for one year or more	Within seven days of the most recent disturbance
Any areas within 50 feet of a surface water of the State and at final grade	Within two days of reaching final grade
Any other areas at final grade	Within seven days of reaching final grade within that area

Table 2: Temporary Stabilization

Area requiring temporary stabilization	Time frame to apply erosion controls
Any disturbed areas within 50 feet of a surface water of the State and not at final grade	Within two days of the most recent disturbance if the area will remain idle for more than 21 days
For all construction activities, any disturbed areas that will be dormant for more than 21 days but less than one year, and not within 50 feet of a surface water of the State	Within seven days of the most recent disturbance within the area For residential subdivisions, disturbed areas must be stabilized at least seven days prior to transfer of permit coverage for the individual lot(s).
Disturbed areas that will be idle over winter	Prior to the onset of winter weather

Where vegetative stabilization techniques may cause structural instability or are otherwise unobtainable, alternative stabilization techniques must be employed.

ii. **Permanent stabilization of conveyance channels**. Operators shall undertake special measures to stabilize channels and outfalls and prevent erosive flows. Measures may include seeding, dormant seeding (as defined in the current edition of the Rainwater and Land Development manual), mulching, erosion control matting, sodding, riprap, natural channel design with bioengineering techniques or rock check dams.

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c. **Runoff Control Practices.** The SWP3 shall incorporate measures which control the flow of runoff from disturbed areas so as to prevent erosion from occurring. Such practices may include rock check dams, pipe slope drains, diversions to direct flow away from exposed soils and protective grading practices. These practices shall divert runoff away from disturbed areas and steep slopes where practicable. Velocity dissipation devices shall be placed at discharge locations and along the length of any outfall channel to provide non-erosive flow velocity from the structure to a water course so that the natural physical and biological characteristics and functions are maintained and protected.

d. **Sediment Control Practices.** The plan shall include a description of structural practices that shall store runoff allowing sediments to settle and/or divert flows away from exposed soils or otherwise limit runoff from exposed areas. Structural practices shall be used to control erosion and trap sediment from a site remaining disturbed for more than 14 days. Such practices may include, among others: sediment settling ponds, silt fences, earth diversion dikes or channels which direct runoff to a sediment settling pond and storm drain inlet protection. All sediment control practices must be capable of ponding runoff in order to be considered functional. Earth diversion dikes or channels alone are not considered a sediment control practice unless those are used in conjunction with a sediment settling pond.

The SWP3 must contain detail drawings for all structural practices.

i. Timing. Sediment control structures shall be functional throughout the course of earth disturbing activity. Sediment basins and perimeter sediment barriers shall be implemented prior to grading and within seven days from the start of grubbing. They shall continue to function until the up slope development area is restabilized. As construction progresses and the topography is altered, appropriate controls must be constructed or existing controls altered to address the changing drainage patterns.

ii. Sediment settling ponds. A sediment settling pond is required for any one of the following conditions:

- concentrated storm water runoff (e.g., storm sewer or ditch);
- runoff from drainage areas, which exceed the design capacity of silt fence or other sediment barriers;
- runoff from drainage areas that exceed the design capacity of inlet protection; or
- runoff from common drainage locations with 10 or more acres of disturbed land.

Part III.G.2.d.ii

The permittee may request approval from Ohio EPA to use alternative controls if the permittee can demonstrate the alternative controls are equivalent in effectiveness to a sediment settling pond.

The sediment settling pond volume consists of both a dewatering zone and a sediment storage zone. The volume of the dewatering zone shall be a minimum of 1800 cubic feet (ft^3) per acre of drainage (67 yd^3/acre) with a minimum 48-hour drain time for sediment basins serving a drainage area over 5 acres. The volume of the sediment storage zone shall be calculated by one of the following methods: Method 1: The volume of the sediment storage zone shall be 1000 ft^3 per disturbed acre within the watershed of the basin. OR Method 2: The volume of the sediment storage zone shall be the volume necessary to store the sediment as calculated with RUSLE or a similar generally accepted erosion prediction model. The accumulated sediment shall be removed from the sediment storage zone once it's full. When determining the total contributing drainage area, off-site areas and areas which remain undisturbed by construction activity must be included unless runoff from these areas is diverted away from the sediment settling pond and is not co-mingled with sediment-laden runoff. The depth of the dewatering zone must be less than or equal to five feet. The configuration between inlets and the outlet of the basin must provide at least two units of length for each one unit of width (> 2:1 length:width ratio), however, a length to width ratio of 4:1 is recommended. When designing sediment settling ponds, the permittee must consider public safety, especially as it relates to children, as a design factor for the sediment basin and alternative sediment controls must be used where site limitations would preclude a safe design. The use of a combination of sediment and erosion control measures in order to achieve maximum pollutant removal is encouraged.

iii. Silt Fence and Diversions. Sheet flow runoff from denuded areas shall be intercepted by silt fence or diversions to protect adjacent properties and water resources from sediment transported via sheet flow. Where intended to provide sediment control, silt fence shall be placed on a level contour downslope of the disturbed area. This permit does not preclude the use of other sediment barriers designed to control sheet flow runoff. The relationship between the maximum drainage area to silt fence for a particular slope range is shown in the table below.

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Maximum drainage area (in acres) to 100 linear feet of silt fence	Range of slope for a particular drainage area (in percent)
0.5	< 2%
0.25	≥ 2% but < 20%
0.125	≥ 20% but < 50%

Placing silt fence in a parallel series does not extend the size of the drainage area. Storm water diversion practices shall be used to keep runoff away from disturbed areas and steep slopes where practicable. Such devices, which include swales, dikes or berms, may receive storm water runoff from areas up to 10 acres.

iv. Inlet Protection. Other erosion and sediment control practices shall minimize sediment laden water entering active storm drain systems, unless the storm drain system drains to a sediment settling pond. All inlets receiving runoff from drainage areas of one or more acres will require a sediment settling pond.

v. Surface Waters of the State Protection. If construction activities disturb areas adjacent to surface waters of the State, structural practices shall be designed and implemented on site to protect all adjacent surface waters of the State from the impacts of sediment runoff. No structural sediment controls (e.g., the installation of silt fence or a sediment settling pond) shall be used in a surface water of the State. For all construction activities immediately adjacent to surface waters of the State, it is recommended that a setback of at least 25-feet, as measured from the ordinary high water mark of the surface water, be maintained in its natural state as a permanent buffer. Where impacts within this setback area are unavoidable due to the nature of the construction activity (e.g., stream crossings for roads or utilities), the project shall be designed such that the number of stream crossings and the width of the disturbance within the setback area are minimized.

vi. Modifying Controls. If periodic inspections or other information indicates a control has been used inappropriately or incorrectly, the permittee must replace or modify the control for site conditions.

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e. **Post-Construction Storm Water Management Requirements.** So that the receiving stream's physical, chemical, and biological characteristics are protected and stream functions are maintained, post-construction storm water practices shall provide perpetual management of runoff quality and quantity. To meet the post-construction requirements of this permit, the SWP3 must contain a description of the post-construction BMPs that will be installed during construction for the site and the rationale for their selection. The rationale must address the anticipated impacts on the channel and floodplain morphology, hydrology, and water quality. Post-construction BMPs cannot be installed within a surface water of the State (e.g., wetland or stream) unless it's authorized by a CWA 401 water quality certification, CWA 404 permit, or Ohio EPA non-jurisdictional wetland/stream program approval. Note: localities may have more stringent post-construction requirements.

Detail drawings and maintenance plans must be provided for all post-construction BMPs. Maintenance plans shall be provided by the permittee to the post-construction operator of the site (including homeowner associations) upon completion of construction activities (prior to termination of permit coverage). For sites located within a community with a regulated municipal separate storm sewer system (MS4), the permittee, land owner, or other entity with legal control of the property may be required to develop and implement a maintenance plan to comply with the requirements of the MS4. Maintenance plans must ensure that pollutants collected within structural post-construction practices, be disposed of in accordance with local, state, and federal regulations. To ensure that storm water management systems function as they were designed and constructed, the post construction operation and maintenance plan must be a stand-alone document, which contains: (1) a designated entity for storm water inspection and maintenance responsibilities; (2) the routine and non-routine maintenance tasks to be undertaken; (3) a schedule for inspection and maintenance; (4) any necessary legally binding maintenance easements and agreements; and (5) a map showing all access and maintenance easements. Permittees are not responsible under this permit for operation and maintenance of post-construction practices once coverage under this permit is terminated.

Post-construction storm water BMPs that discharge pollutants from point sources once construction is completed, may in themselves, need authorization under a separate NPDES permit (one example is storm water discharges from regulated industrial sites).

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Construction activities that do not include the installation of any impervious surface (e.g., soccer fields), abandoned mine land reclamation activities regulated by the Ohio Department of Natural Resources, stream and wetland restoration activities, and wetland mitigation activities are not required to comply with the conditions of Part III.G.2.e of this permit. Linear construction projects, (e.g., pipeline or utility line installation), which do not result in the installation of additional impervious surface, are not required to comply with the conditions of Part III.G.2.e of this permit. However, linear construction projects must be designed to minimize the number of stream crossings and the width of disturbance and achieve final stabilization of the disturbed area as defined in Part VII.H.1.

Large Construction Activities. For all large construction activities (involving the disturbance of five or more acres of land or will disturb less than five acres, but is a part of a larger common plan of development or sale which will disturb five or more acres of land), the post construction BMP(s) chosen must be able to detain storm water runoff for protection of the stream channels, stream erosion control, and improved water quality. The BMP(s) chosen must be compatible with site and soil conditions. Structural (designed) post-construction storm water treatment practices shall be incorporated into the permanent drainage system for the site. The BMP(s) chosen must be sized to treat the water quality volume (WQv) and ensure compliance with Ohio's Water Quality Standards in OAC Chapter 3745-1. The WQv shall be equivalent to the volume of runoff from a 0.75-inch rainfall and shall be determined according to the following equation:

$WQv = C * P * A / 12$
where:
WQv = water quality volume in acre-feet
C = runoff coefficient appropriate for storms less than 1 inch
(Either use the following formula: $C = 0.858i^3 - 0.78i^2 + 0.774i + 0.04$, where i = fraction of post-construction impervious surface or use Table 1)
P = 0.75 inch precipitation depth
A = area draining into the BMP in acres

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Table 1
Runoff Coefficients Based on the Type of Land Use

Land Use	Runoff Coefficient
Industrial & Commercial	0.8
High Density Residential (>8 dwellings/acre)	0.5
Medium Density Residential (4 to 8 dwellings/acre)	0.4
Low Density Residential (<4 dwellings/acre)	0.3
Open Space and Recreational Areas	0.2

Where the land use will be mixed, the runoff coefficient should be calculated using a weighted average. For example, if 60% of the contributing drainage area to the storm water treatment structure is Low Density Residential, 30% is High Density Residential, and 10% is Open Space, the runoff coefficient is calculated as follows (0.6)(0.3) + (0.3)(0.5) + (0.1)(0.2) = 0.35.

An additional volume equal to 20 percent of the WQv shall be incorporated into the BMP for sediment storage. Ohio EPA recommends that BMPs be designed according to the methodology included in the Rainwater and Land Development manual or in another design manual acceptable for use by Ohio EPA.

The BMPs listed in Table 2 below shall be considered standard BMPs approved for general use. However communities with a regulated MS4 may limit the use of some of these BMPs. BMPs shall be designed such that the drain time is long enough to provide treatment, but short enough to provide storage for successive rainfall events and avoid the creation of nuisance conditions. The outlet structure for the post-construction BMP must not discharge more than the first half of the WQv or extended detention volume (EDv) in less than one-third of the drain time. The EDv is the volume of storm water runoff that must be detained by a structural post-construction BMP. The EDv is equal to 75 percent of the WQv for wet extended detention basins, but is equal to the WQv for all other BMPs listed in Table 2.

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Table 2
Structural Post-Construction BMPs & Associated Drain (Drawdown) Times

Best Management Practice	Drain Time of WQv
Infiltration Basin^	24 - 48 hours
Enhanced Water Quality Swale	24 hours
Dry Extended Detention Basin*	48 hours
Wet Extended Detention Basin**	24 hours
Constructed Wetland (above permanent pool)[+]	24 hours
Sand & Other Media Filtration	40 hours
Bioretention Cell^	40 hours
Pocket Wetland[#]	24 hours
Vegetated Filter Strip	24 hours

* Dry basins must include forebay and micropool each sized at 10% of the WQv
** Provide both a permanent pool and an EDv above the permanent pool, each sized at 0.75 * WQv
[+] Extended detention shall be provided for the full WQv above the permanent water pool.
^ The WQv shall completely infiltrate within 48 hours so there is no standing or residual water in the BMP.
[#] Pocket wetlands must have a wet pool equal to the WQv, with 25% of the WQv in a pool and 75% in marshes. The EDv above the permanent pool must be equal to the WQv.

The permittee may request approval from Ohio EPA to use alternative post-construction BMPs if the permittee can demonstrate that the alternative BMPs are equivalent in effectiveness to those listed in Table 2 above. Construction activities shall be exempt from this condition if it can be demonstrated that the WQv is provided within an existing structural post-construction BMP that is part of a larger common plan of development or if structural post-construction BMPs are addressed in a regional or local storm water management plan. A municipally operated regional storm water BMP can be used as a post-construction BMP provided that the BMP can detain the WQv from its entire drainage area and release it over a 24 hour period.

Transportation Projects The construction of new roads and roadway improvement projects by public entities (i.e., the state, counties, townships, cities, or villages) may implement post-construction BMPs in compliance with the current version (as of the effective date of this permit) of the Ohio Department of Transportation's "Location and Design Manual, Volume Two Drainage Design" that has been accepted by Ohio EPA as an alternative to the conditions of this permit.

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Offsite Mitigation of Post-Construction Ohio EPA may authorize the offsite mitigation of the post-construction requirements of Part III.G.2.e of this permit on a case by case basis provided the permittee clearly demonstrates the BMPs listed in Table 2 are not feasible and the following criteria is met: (1) a maintenance agreement or policy is established to ensure operations and treatment in perpetuity; (2) the offsite location discharges to the same HUC-14 watershed unit; and (3) the mitigation ratio of the WQv is 1.5 to 1 or the WQv at the point of retrofit, whichever is greater. Requests for offsite mitigation must be received prior to receipt of the NOI applications.

Redevelopment Projects Sites that have been previously developed where no post-construction BMPs were installed shall either ensure a 20 percent net reduction of the site impervious area, provide for treatment of at least 20 percent of the WQ_v, or a combination of the two. A one-for-one credit towards the 20 percent net reduction of impervious area can be obtained through the use of pervious pavement and/or green roofs. Where projects are a combination of new development and redevelopment, the total WQv that must be treated shall be calculated by a weighted average based on acreage, with the new development at 100 percent WQv and redevelopment at 20 percent WQv.

Non-Structural Post-Construction BMPs The size of the structural post-construction can be reduced by incorporating non-structural post-construction BMPs into the design. Practices such as preserving open space will reduce the runoff coefficient and, thus, the WQv. Ohio EPA encourages the implementation of riparian and wetland setbacks. Practices which reduce storm water runoff include permeable pavements, green roofs, rain barrels, conservation development, smart growth, low-impact development, and other site design techniques contained in the Ohio Lake Commission's Balanced Growth Program (see http://www.epa.state.oh.us/oleo/bg1/index.html). In order to promote the implementation of such practices, the Director may consider the use of non-structural practices to demonstrate compliance with Part III.G.2.e of this permit for areas of the site not draining into a common drainage system of the site, i.e., sheet flow from perimeter areas such as the rear yards of residential lots, for low density development scenarios, or where the permittee can demonstrate that the intent of pollutant removal and stream protection, as required in Part III.G.2.e of this permit is being addressed through non-structural post-construction BMPs based upon review and approval by Ohio EPA.

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Use of Alternative Post-Construction BMPs This permit does not preclude the use of innovative or experimental post-construction storm water management technologies. However, the Director may require these practices to be tested using the protocol outlined in the Technology Acceptance Reciprocity Partnership's (TARP) Protocol for Stormwater Best Management Practice Demonstrations (see http://www.dep.state.pa.us/dep/deputate/pollprev/techservices/tarp).

The Director may require discharges from such structures to be monitored to ensure compliance with Part III.G.2.e of this permit. Permittees must request approval from Ohio EPA to use alternative post-construction BMPs if the permittee can demonstrate that the alternative BMPs are equivalent in effectiveness to those listed in Table 2 above. To demonstrate this equivalency, the permittee must show that the alternative BMP has a minimum total suspended solids (TSS) removal efficiency of 80 percent. Also, the WQv discharge rate from the practice must be reduced to prevent stream bed erosion and protect the physical and biological stream integrity unless there will be negligible hydrological impact to the receiving surface water of the State. The discharges will have a negligible impact if the permittee can demonstrate that one of the following four conditions exist:

i. The entire WQv is recharged to groundwater;

ii. The larger common plan of development or sale will create less than one acre of impervious surface;

iii. The project is a redevelopment project within an ultra-urban setting (i.e., a downtown area or on a site where 100 percent of the project area is already impervious surface and the storm water discharge is directed into an existing storm sewer system); or

iv. The storm water drainage system of the development discharges directly into a large river (fourth order or greater) or to a lake and where the development area is less than 5 percent of the watershed area upstream of the development site, unless a TMDL identified water quality problems in the receiving surface waters of the State.

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The Director shall only consider the use of alternative BMPs on projects where the permittee can demonstrate that the implementation of the BMPs listed in Table 2 is infeasible due to physical site constraints that prevent the ability to provide functional BMP design. Alternative practices may include, but are not limited to, underground detention structures, vegetated swales and vegetated filter strips designed using water quality flow, natural depressions, rain barrels, permeable pavements green roofs, rain gardens, catch basin inserts, and hydrodynamics separators. The Director may also consider non-structural post-construction approaches where no local requirement for such practices exist.

Small Construction Activities. For all small land disturbance activities (which disturb one or more, but less than five acres of land and is not a part of a larger common plan of development or sale which will disturb five or more acres of land), a description of measures that will be installed during the construction process to control pollutants in storm water discharges that will occur after construction operations have been completed must be included in the SWP3. Structural measures should be placed on upland soils to the degree attainable. Such practices may include, but are not limited to: storm water detention structures (including wet basins); storm water retention structures; flow attenuation by use of open vegetated swales and natural depressions; infiltration of runoff onsite; and sequential systems (which combine several practices). The SWP3 shall include an explanation of the technical basis used to select the practices to control pollution where flows exceed pre-development levels.

f. **Surface Water Protection.** If the project site contains any streams, rivers, lakes, wetlands or other surface waters, certain construction activities at the site may be regulated under the CWA and/or state non-jurisdictional stream and wetland requirements. Sections 404 and 401 of the Act regulate the discharge of dredged or fill material into surface waters and the impacts of such activities on water quality, respectively. Construction activities in surface waters which may be subject to CWA regulation and/or state requirements include, but are not limited to: sewer line crossings, grading, backfilling or culverting streams, filling wetlands, road and utility line construction, bridge installation and installation of flow control structures. If the project contains streams, rivers, lakes or wetlands or possible wetlands, the permittee must contact the appropriate U.S. Army Corps of Engineers District Office. (CAUTION: Any area of seasonally wet hydric soil is a potential wetland - please consult the Soil Survey and list of hydric soils for your County, available at your county's Soil and Water Conservation District. If you have any questions about Section 401 water quality certification, please contact the Ohio Environmental Protection Agency, Section 401 Coordinator.)

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U.S. Army Corps of Engineers (Section 404 regulation):
Huntington, WV District (304) 399-5210 (Muskingum River, Hocking River, Scioto River, Little Miami River, and Great Miami River Basins)
Buffalo, NY District (716) 879-4191 (Lake Erie Basin)
Pittsburgh, PA District (412) 395-7154 (Mahoning River Basin)
Louisville, KY District (502) 315-6733 (Ohio River)

Ohio EPA 401/404 and non-jurisdictional stream/wetland coordinator can be contacted at (614) 644-2001 (all of Ohio)

Concentrated storm water runoff from BMPs to natural wetlands shall be converted to diffuse flow before the runoff enters the wetlands. The flow should be released such that no erosion occurs downslope. Level spreaders may need to be placed in series, particularly on steep sloped sites, to ensure non-erosive velocities. Other structural BMPs may be used between storm water features and natural wetlands, in order to protect the natural hydrology, hydroperiod, and wetland flora. If the applicant proposes to discharge to natural wetlands, a hydrologic analysis shall be performed. The applicant shall attempt to match the pre-development hydroperiods and hydrodynamics that support the wetland. The applicant shall assess whether their construction activity will adversely impact the hydrologic flora and fauna of the wetland. Practices such as vegetative buffers, infiltration basins, conservation of forest cover, and the preservation of intermittent streams, depressions, and drainage corridors may be used to maintain wetland hydrology.

g. **Other controls.** The SWP3 must also provide BMPs for pollutant sources other than sediment. Non-sediment pollutant sources, which may be present on a construction site, include paving operations, concrete washout, structure painting, structure cleaning, demolition debris disposal, drilling and blasting operations, material storage, slag, solid waste, hazardous waste, contaminated soils, sanitary and septic wastes, vehicle fueling and maintenance activities, and landscaping operations.

i. **Non-Sediment Pollutant Controls.** No solid or liquid waste, including building materials, shall be discharged in storm water runoff. The permittee must implement all necessary BMPs to prevent the discharge of non-sediment pollutants to the drainage system of the site or surface waters of the State. Under no circumstance shall concrete trucks wash out directly into a drainage channel, storm sewer or surface waters of the State. No exposure of storm water to waste materials is recommended.

ii. **Off-site traffic.** Off-site vehicle tracking of sediments and dust generation shall be minimized.

Part III.G.2.g

iii. **Compliance with other requirements.** The SWP3 shall be consistent with applicable State and/or local waste disposal, sanitary sewer or septic system regulations, including provisions prohibiting waste disposal by open burning and shall provide for the proper disposal of contaminated soils to the extent these are located within the permitted area.

iv. **Trench and ground water control**. There shall be no turbid discharges to surface waters of the State resulting from dewatering activities. If trench or ground water contains sediment, it must pass through a sediment settling pond or other equally effective sediment control device, prior to being discharged from the construction site. Alternatively, sediment may be removed by settling in place or by dewatering into a sump pit, filter bag or comparable practice. Ground water dewatering which does not contain sediment or other pollutants is not required to be treated prior to discharge. However, care must be taken when discharging ground water to ensure that it does not become pollutant-laden by traversing over disturbed soils or other pollutant sources.

v. **Contaminated Sediment.** Where construction activities are to occur on sites with contamination from previous activities, operators must be aware that concentrations of materials that meet other criteria (is not considered a Hazardous Waste, meeting VAP standards, etc.) may still result in storm water discharges in excess of Ohio Water Quality Standards. Such discharges are not authorized by this permit. Appropriate BMPs include, but are not limited to:
   - The use of berms, trenches, and pits to collect contaminated runoff and prevent discharges;
   - Pumping runoff into a sanitary sewer (with prior approval of the sanitary sewer operator) or into a container for transport to an appropriate treatment/disposal facility; and
   - Covering areas of contamination with tarps or other methods that prevent storm water from coming into contact with the material.

Operators should consult with Ohio EPA Division of Surface Water prior to seeking permit coverage.

h. **Maintenance.** All temporary and permanent control practices shall be maintained and repaired as needed to ensure continued performance of their intended function. All sediment control practices must be maintained in a functional condition until all up slope areas they control are permanently stabilized. The SWP3 shall be designed to minimize maintenance requirements. The applicant shall provide a description of maintenance procedures needed to ensure the continued performance of control practices.

Part III.G.2

i. **Inspections.** At a minimum, procedures in an SWP3 shall provide that all controls on the site are inspected at least once every seven calendar days and within 24 hours after any storm event greater than one-half inch of rain per 24 hour period. The inspection frequency may be reduced to at least once every month if the entire site is temporarily stabilized or runoff is unlikely due to weather conditions (e.g., site is covered with snow, ice, or the ground is frozen). A waiver of inspection requirements is available until one month before thawing conditions are expected to result in a discharge if all of the following conditions are met: the project is located in an area where frozen conditions are anticipated to continue for extended periods of time (i.e., more than one month); land disturbance activities have been suspended; and the beginning and ending dates of the waiver period are documented in the SWP3. Once a definable area has been finally stabilized, you may mark this on your SWP3 and no further inspection requirements apply to that portion of the site. The permittee shall assign "qualified inspection personnel" to conduct these inspections to ensure that the control practices are functional and to evaluate whether the SWP3 is adequate and properly implemented in accordance with the schedule proposed in Part III.G.1.g of this permit or whether additional control measures are required.

Following each inspection, a checklist must be completed and signed by the qualified inspection personnel representative. At a minimum, the inspection report must include:

i. the inspection date;
ii. names, titles, and qualifications of personnel making the inspection;
iii. weather information for the period since the last inspection (or since commencement of construction activity if the first inspection) including a best estimate of the beginning of each storm event, duration of each storm event, approximate amount of rainfall for each storm event (in inches), and whether any discharges occurred;
iv. weather information and a description of any discharges occurring at the time of the inspection;
v. location(s) of discharges of sediment or other pollutants from the site;
vi. location(s) of BMPs that need to be maintained;
vii. location(s) of BMPs that failed to operate as designed or proved inadequate for a particular location;
viii. location(s) where additional BMPs are needed that did not exist at the time of inspection; and
ix. corrective action required including any changes to the SWP3 necessary and implementation dates.

Part III.G.2.i

Disturbed areas and areas used for storage of materials that are exposed to precipitation shall be inspected for evidence of or the potential for pollutants entering the drainage system. Erosion and sediment control measures identified in the SWP3 shall be observed to ensure that those are operating correctly. Discharge locations shall be inspected to ascertain whether erosion and sediment control measures are effective in preventing significant impacts to the receiving waters. Locations where vehicles enter or exit the site shall be inspected for evidence of off-site vehicle tracking.

The permittee shall maintain for three years following the submittal of a notice of termination form, a record summarizing the results of the inspection, names(s) and qualifications of personnel making the inspection, the date(s) of the inspection, major observations relating to the implementation of the SWP3 and a certification as to whether the facility is in compliance with the SWP3 and the permit and identify any incidents of non-compliance. The record and certification shall be signed in accordance with Part V.G. of this permit.

i. **When practices require repair or maintenance.** If the inspection reveals that a control practice is in need of repair or maintenance, with the exception of a sediment settling pond, it must be repaired or maintained within three days of the inspection. Sediment settling ponds must be repaired or maintained within 10 days of the inspection.

ii. **When practices fail to provide their intended function.** If the inspection reveals that a control practice fails to perform its intended function and that another, more appropriate control practice is required, the SWP3 must be amended and the new control practice must be installed within 10 days of the inspection.

iii. **When practices depicted on the SWP3 are not installed.** If the inspection reveals that a control practice has not been implemented in accordance with the schedule contained in Part III.G.1.g of this permit, the control practice must be implemented within 10 days from the date of the inspection. If the inspection reveals that the planned control practice is not needed, the record must contain a statement of explanation as to why the control practice is not needed.

Part III.G

3. **Approved State or local plans.** All dischargers regulated under this general permit must comply, except those exempted under state law, with the lawful requirements of municipalities, counties and other local agencies regarding discharges of storm water from construction activities. All erosion and sediment control plans and storm water management plans approved by local officials shall be retained with the SWP3 prepared in accordance with this permit. Applicable requirements for erosion and sediment control and storm water management approved by local officials are, upon submittal of a NOI form, incorporated by reference and enforceable under this permit even if they are not specifically included in an SWP3 required under this permit. When the project is located within the jurisdiction of a regulated municipal separate storm sewer system (MS4), the permittee must certify that the SWP3 complies with the requirements of the storm water management program of the MS4 operator.

4. **Exceptions.** If specific site conditions prohibit the implementation of any of the erosion and sediment control practices contained in this permit or site specific conditions are such that implementation of any erosion and sediment control practices contained in this permit will result in no environmental benefit, then the permittee shall provide justification for rejecting each practice based on site conditions. Exceptions from implementing the erosion and sediment control standards contained in this permit will be approved or denied on a case-by-case basis.

   The permittee may request approval from Ohio EPA to use alternative methods to satisfy conditions in this permit if the permittee can demonstrate that the alternative methods are sufficient to protect the overall integrity of receiving streams and the watershed. Alternative methods will be approved or denied on a case-by-case basis.

PART IV. NOTICE OF TERMINATION REQUIREMENTS

A. Failure to notify.

The terms and conditions of this permit shall remain in effect until a signed Notice of Termination (NOT) form is submitted. Failure to submit an NOT constitutes a violation of this permit and may affect the ability of the permittee to obtain general permit coverage in the future.

B. When to submit an NOT

1. Permittees wishing to terminate coverage under this permit must submit an NOT form in accordance with Part V.G. of this permit. Compliance with this permit is required until an NOT form is submitted. The permittee's authorization to discharge under this permit terminates at midnight of the day the NOT form is

Part IV.B

submitted. Prior to submitting the NOT form, the permittee shall conduct a site inspection in accordance with Part III.G.2.i of this permit and have a maintenance agreement is in place to ensure all post-construction BMPs will be maintained in perpetuity.

2. All permittees must submit an NOT form within 45 days of completing all permitted land disturbance activities. Enforcement actions may be taken if a permittee submits an NOT form without meeting one or more of the following conditions:

   a. Final stabilization (see definition in Part VII) has been achieved on all portions of the site for which the permittee is responsible (including, if applicable, returning agricultural land to its pre-construction agricultural use);

   b. Another operator(s) has assumed control over all areas of the site that have not been finally stabilized;

   c. For residential construction only, temporary stabilization has been completed and the lot, which includes a home, has been transferred to the homeowner. (Note: individual lots without housing which are sold by the developer must undergo final stabilization prior to termination of permit coverage.); or

   d. An exception has been granted under Part III.G.4.

C. How to submit an NOT

Permittees must use Ohio EPA's approved NOT form. The form must be completed and mailed according to the instructions and signed in accordance with Part V.G of this permit.

PART V. STANDARD PERMIT CONDITIONS.

A. Duty to comply.

1. The permittee must comply with all conditions of this permit. Any permit noncompliance constitutes a violation of ORC Chapter 6111. and is grounds for enforcement action.

2. Ohio law imposes penalties and fines for persons who knowingly make false statements or knowingly swear or affirm the truth of a false statement previously made.

B. Continuation of an expired general permit.

An expired general permit continues in force and effect until a new general permit is issued.

Part V

C. Need to halt or reduce activity not a defense.

It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

D. Duty to mitigate.

The permittee shall take all reasonable steps to minimize or prevent any discharge in violation of this permit which has a reasonable likelihood of adversely affecting human health or the environment.

E. Duty to provide information.

The permittee shall furnish to the director, within 10 days of written request, any information which the director may request to determine compliance with this permit. The permittee shall also furnish to the director upon request copies of records required to be kept by this permit.

F. Other information.

When the permittee becomes aware that he or she failed to submit any relevant facts or submitted incorrect information in the NOI, SWP3, NOT or in any other report to the director, he or she shall promptly submit such facts or information.

G. Signatory requirements.

All NOIs, NOTs, SWP3s, reports, certifications or information either submitted to the director or that this permit requires to be maintained by the permittee, shall be signed.

1. These items shall be signed as follows:

    a. For a corporation: By a responsible corporate officer. For the purpose of this section, a responsible corporate officer means:

        i. A president, secretary, treasurer or vice-president of the corporation in charge of a principal business function or any other person who performs similar policy or decision-making functions for the corporation; or

Part V.G.1.a

ii. The manager of one or more manufacturing, production or operating facilities, provided, the manager is authorized to make management decisions which govern the operation of the regulated facility including having the explicit or implicit duty of making major capital investment recommendations and initiating and directing other comprehensive measures to assure long-term environmental compliance with environmental laws and regulations; the manager can ensure that the necessary systems are established or actions taken to gather complete and accurate information for permit application requirements; and where authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures;

b. For a partnership or sole proprietorship: By a general partner or the proprietor, respectively; or

c. For a municipality, State, Federal or other public agency: By either a principal executive officer or ranking elected official. For purposes of this section, a principal executive officer of a Federal agency includes (1) the chief executive officer of the agency or (2) a senior executive officer having responsibility for the overall operations of a principal geographic unit of the agency (e.g., Regional Administrators of U.S. EPA).

2. All reports required by the permits and other information requested by the director shall be signed by a person described in Part V.G.1 of this permit or by a duly authorized representative of that person. A person is a duly authorized representative only if:

a. The authorization is made in writing by a person described in Part V.G.1 of this permit and submitted to the director;

b. The authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility or activity, such as the position of manager, operator of a well or well field, superintendent, position of equivalent responsibility or an individual or position having overall responsibility for environmental matters for the company. (A duly authorized representative may thus be either a named individual or any individual occupying a named position); and

c. The written authorization is submitted to the director.

Part V.G

3. Changes to authorization. If an authorization under Part V.G.2 of this permit is no longer accurate because a different individual or position has responsibility for the overall operation of the facility, a new authorization satisfying the requirements of Part V.G.2 of this permit must be submitted to the director prior to or together with any reports, information or applications to be signed by an authorized representative.

H. Certification.

Any person signing documents under this section shall make the following certification:

> *"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."*

I. Oil and hazardous substance liability.

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties to which the permittee is or may be subject under section 311 of the CWA or 40 CFR Part 112. 40 CFR Part 112 establishes procedures, methods and equipment and other requirements for equipment to prevent the discharge of oil from non-transportation-related onshore and offshore facilities into or upon the navigable surface waters of the State or adjoining shorelines.

J. Property rights.

The issuance of this permit does not convey any property rights of any sort, nor any exclusive privileges, nor does it authorize any injury to private property nor any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

K. Severability.

The provisions of this permit are severable and if any provision of this permit or the application of any provision of this permit to any circumstance, is held invalid, the application of such provision to other circumstances and the remainder of this permit shall not be affected thereby.

Part V

L. Transfers.

Ohio NPDES general permit coverage is transferable. Ohio EPA must be notified in writing sixty days prior to any proposed transfer of coverage under an Ohio NPDES general permit. The transferee must inform Ohio EPA it will assume the responsibilities of the original permittee transferor.

M. Environmental laws.

No condition of this permit shall release the permittee from any responsibility or requirements under other environmental statutes or regulations.

N. Proper operation and maintenance.

The permittee shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the permittee to achieve compliance with the conditions of this permit and with the requirements of SWP3s. Proper operation and maintenance requires the operation of backup or auxiliary facilities or similar systems, installed by a permittee only when necessary to achieve compliance with the conditions of the permit.

O. Inspection and entry.

The permittee shall allow the director or an authorized representative of Ohio EPA, upon the presentation of credentials and other documents as may be required by law, to:

1. Enter upon the permittee's premises where a regulated facility or activity is located or conducted or where records must be kept under the conditions of this permit;
2. Have access to and copy at reasonable times, any records that must be kept under the conditions of this permit; and
3. Inspect at reasonable times any facilities or equipment (including monitoring and control equipment).

PART VI. REOPENER CLAUSE

A. If there is evidence indicating potential or realized impacts on water quality due to any storm water discharge associated with construction activity covered by this permit, the permittee of such discharge may be required to obtain coverage under an individual permit or an alternative general permit in accordance with Part I.C of this permit or the permit may be modified to include different limitations and/or requirements.

B. Permit modification or revocation will be conducted according to ORC Chapter 6111.

PART VII. DEFINITIONS

A. "Act" means Clean Water Act (formerly referred to as the Federal Water Pollution Control Act or Federal Water Pollution Control Act Amendments of 1972) Pub. L. 92-500, as amended Pub. L. 95-217, Pub. L. 95-576, Pub. L. 96-483, Pub. L. 97-117 and Pub. L. 100-4, 33 U.S.C. 1251 et. seq.

B. "Best management practices (BMPs)" means schedules of activities, prohibitions of practices, maintenance procedures and other management practices (both structural and non-structural) to prevent or reduce the pollution of surface waters of the State. BMP's also include treatment requirements, operating procedures and practices to control plant and/or construction site runoff, spillage or leaks, sludge or waste disposal or drainage from raw material storage.

C. "Commencement of construction" means the initial disturbance of soils associated with clearing, grubbing, grading, placement of fill or excavating activities or other construction activities.

D. "Concentrated storm water runoff" means any storm water runoff which flows through a drainage pipe, ditch, diversion or other discrete conveyance channel.

E. "Director" means the director of the Ohio Environmental Protection Agency.

F. "Discharge" means the addition of any pollutant to the surface waters of the State from a point source.

G. "Disturbance" means any clearing, grading, excavating, filling, or other alteration of land surface where natural or man-made cover is destroyed in a manner that exposes the underlying soils.

H. "Final stabilization" means that either:

1. All soil disturbing activities at the site are complete and a uniform perennial vegetative cover (e.g., evenly distributed, without large bare areas) with a density of at least 70 percent cover for the area has been established on all unpaved areas and areas not covered by permanent structures or equivalent stabilization measures (such as the use of landscape mulches, rip-rap, gabions or geotextiles) have been employed. In addition, all temporary erosion and sediment control practices are removed and disposed of and all trapped sediment is permanently stabilized to prevent further erosion; or

2. For individual lots in residential construction by either:

   a. The homebuilder completing final stabilization as specified above or

Part VII.H.2

b. The homebuilder establishing temporary stabilization including perimeter controls for an individual lot prior to occupation of the home by the homeowner and informing the homeowner of the need for and benefits of, final stabilization. (Homeowners typically have an incentive to put in the landscaping functionally equivalent to final stabilization as quick as possible to keep mud out of their homes and off sidewalks and driveways.); or

3. For construction projects on land used for agricultural purposes (e.g., pipelines across crop or range land), final stabilization may be accomplished by returning the disturbed land to its pre-construction agricultural use. Areas disturbed that were previously used for agricultural activities, such as buffer strips immediately adjacent to surface waters of the State and which are not being returned to their pre-construction agricultural use, must meet the final stabilization criteria in (1) or (2) above.

I. "Individual Lot NOI" means a Notice of Intent for an individual lot to be covered by this permit (see parts I and II of this permit).

J. "Larger common plan of development or sale"- means a contiguous area where multiple separate and distinct construction activities may be taking place at different times on different schedules under one plan.

K. "MS4" means municipal separate storm sewer system which means a conveyance or system of conveyances (including roads with drainage systems, municipal streets, catch basins, curbs, gutters, ditches, man-made channels or storm drains) that are:

1. Owned or operated by the federal government, state, municipality, township, county, district(s) or other public body (created by or pursuant to state or federal law) including special district under state law such as a sewer district, flood control district or drainage districts or similar entity or a designated and approved management agency under section 208 of the act that discharges into surface waters of the State; and

2. Designed or used for collecting or conveying solely storm water,

3. Which is not a combined sewer and

4. Which is not a part of a publicly owned treatment works.

L. "National Pollutant Discharge Elimination System (NPDES)" means the national program for issuing, modifying, revoking and reissuing, terminating, monitoring and enforcing permits and enforcing pretreatment requirements, under sections 307, 402, 318 and 405 of the CWA. The term includes an "approved program."

Part VII

M. "NOI" means notice of intent to be covered by this permit.

N. "NOT" means notice of termination.

O. "Operator" means any party associated with a construction project that meets either of the following two criteria:

1. The party has operational control over construction plans and specifications, including the ability to make modifications to those plans and specifications; or

2. The party has day-to-day operational control of those activities at a project which are necessary to ensure compliance with an SWP3 for the site or other permit conditions (e.g., they are authorized to direct workers at a site to carry out activities required by the SWP3 or comply with other permit conditions).

As set forth in Part II.A, there can be more than one operator at a site and under these circumstances, the operators shall be co-permittees.

P. "Owner or operator" means the owner or operator of any "facility or activity" subject to regulation under the NPDES program.

Q. "Permanent stabilization" means the establishment of permanent vegetation, decorative landscape mulching, matting, sod, rip rap and landscaping techniques to provide permanent erosion control on areas where construction operations are complete or where no further disturbance is expected for at least one year.

R. "Percent imperviousness" means the impervious area created divided by the total area of the project site.

S. "Point source" means any discernible, confined and discrete conveyance, including but not limited to, any pipe, ditch, channel, tunnel, conduit, well, discrete fissure, container, rolling stock, concentrated animal feeding operation, landfill leachate collection system, vessel or the floating craft from which pollutants are or may be discharged. This term does not include return flows from irrigated agriculture or agricultural storm water runoff.

T. "Qualified inspection personnel" means a person knowledgeable in the principles and practice of erosion and sediment controls, who possesses the skills to assess all conditions at the construction site that could impact storm water quality and to assess the effectiveness of any sediment and erosion control measures selected to control the quality of storm water discharges from the construction activity.

Part VII

U. "Rainwater and Land Development" is a manual describing construction and post-construction best management practices and associated specifications. A copy of the manual may be obtained by contacting the Ohio Department of Natural Resources, Division of Soil & Water Conservation.

V. "Riparian area" means the transition area between flowing water and terrestrial (land) ecosystems composed of trees, shrubs and surrounding vegetation which serve to stabilize erodible soil, improve both surface and ground water quality, increase stream shading and enhance wildlife habitat.

W. "Runoff coefficient" means the fraction of total rainfall that will appear at the conveyance as runoff.

X. "Sediment settling pond" means a sediment trap, sediment basin or permanent basin that has been temporarily modified for sediment control, as described in the latest edition of the Rainwater and Land Development manual.

Y. "State isolated wetland permit requirements" means the requirements set forth in Sections 6111.02 through 6111.029 of the ORC.

Z. "Storm water" means storm water runoff, snow melt and surface runoff and drainage.

AA. "Surface waters of the State" or "water bodies" means all streams, lakes, reservoirs, ponds, marshes, wetlands or other waterways which are situated wholly or partially within the boundaries of the state, except those private waters which do not combine or effect a junction with natural surface or underground waters. Waters defined as sewerage systems, treatment works or disposal systems in Section 6111.01 of the ORC are not included.

BB. "SWP3" means storm water pollution prevention plan.

CC. "Temporary stabilization" means the establishment of temporary vegetation, mulching, geotextiles, sod, preservation of existing vegetation and other techniques capable of quickly establishing cover over disturbed areas to provide erosion control between construction operations.

DD. "Water Quality Volume (WQ_v)" means the volume of storm water runoff which must be captured and treated prior to discharge from the developed site after construction is complete. WQ_v is based on the expected runoff generated by the mean storm precipitation volume from post-construction site conditions at which rapidly diminishing returns in the number of runoff events captured begins to occur.

OHIO DEPARTMENT OF TRANSPORTATION
DISTRICT 10 • 338 MUSKINGUM DRIVE • MARIETTA, OHIO 45750
TED STRICKLAND, GOVERNOR • JAMES G. BEASLEY, P.E., P.S., DIRECTOR • LARRY WOODFORD, DISTRICT DEPUTY DIRECTOR

November 13, 2008

The Honorable Paul Wiehl
Mayor of the City of Athens
8 E. Washington Street
Athens, Ohio 45701-2411

RE: ATH-US 33-15.05 (PID 21904)

Dear Mayor Wiehl:

The Ohio Department of Transportation is in the process of preparing plans for rehabilitating United States Route 33 and 50 within the City of Athens corporation boundary. The ODOT is seeking consent legislation so the work can be performed.

Enclosed, please find three copies of legislation to be presented to your City Council for enactment. Please prepare two signed copies and return them to the District 10 Office at 338 Muskingum Drive in Marietta to the attention of William McElfresh.

Please affix the City seal on page 3. In the event there is no such seal, a signed letter to that effect from the proper body is required.

If you have any questions, please contact William McElfresh at 740-568-4311.

Respectfully,

Debra K. Fought, P.E.
Planning and Programs Administrator

W. C. McElfresh

William C. McElfresh
Administrative Assistant

WCM

enc

c: D. Fought - W. McElfresh - File

JB

OHIO DEPARTMENT OF TRANSPORTATION
DISTRICT 10 • 338 MUSKINGUM DRIVE • MARIETTA, OHIO 45750
TED STRICKLAND, GOVERNOR • JAMES G. BEASLEY, P.E., P.S., DIRECTOR • LARRY WOODFORD, DISTRICT DEPUTY DIRECTOR

September 23, 2008

Mr. Dennis Decker
Division Administrator
Federal Highway Administration
200 North High Street
Columbus, Ohio 43215

CERTIFICATION OF RIGHT OF WAY

Re: ATH-33-15.05
Federal Project No.: E040(437)
PID No.: 21904

Dear Mr. Decker:

Pursuant to 23 CFR 635.309, the status of rights of way for subject project is certified as follows:

a. All necessary construction work for this project will be performed within existing rights of way.

b. No utilities are involved on this project.

c. There will be no displacement of persons on this project.

d. Highway Management will be notified of project limits and to address encroachments as needed.

Respectfully,

Saleh A. Eldabaja
District 10
Production Administrator

Connie S. Gillum

Connie S. Gillum
District 10
Real Estate Administrator

SAE/CSG:csg

c: S. Eldabaja, J. Booher, Utility File, File

OHIO DEPARTMENT OF TRANSPORTATION
DISTRICT 10 • 338 MUSKINGUM DRIVE • MARIETTA, OHIO 45750
TED STRICKLAND, GOVERNOR • JAMES G. BEASLEY, P.E., P.S., DIRECTOR • LARRY WOODFORD, DISTRICT DEPUTY DIRECTOR

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Real Estate Administrator

SAE/CSG:csg

c: S. Eldabaja, J. Booher, Utility File, File

Ohio Department of Transportation

County ATH **Route** 33 **Section** 15.05 **PID** 21904

w/ ATH-50-11.46 & 14.14

ENVIRONMENTAL CONSULTATION FORM

Date of Plan Submission to Office of Project Coordination: 01-Dec-08

Funding Source(s): [X] federal [X] state [ ] local [ ] private

Type of Environmental Document:

[X] Exempt [ ] CE-1 [ ] CE-2 [ ] CE-3 [ ] CE-4 [ ] EA/FONSI [ ] EIS/ROD

Date of Environmental Approval: 16-Jul-08

Environmental Reevaluation Screening:

Have changes taken place, such as development, controversy, regulatory changes, etc. that would cause impacts not previously included in the approved NEPA document? ____ Yes X No

If "Yes", what date was the NEPA Reevaluation ____

If the type of approval was an EIS-ROD:

Most recent date of an FHWA authorization for the project (final design, r/w acquisition): ____

Has there been more than three years between federal approvals? ____ Yes X No

If "Yes", what date was the NEPA Reevaluation approved? ____

If so, does the current environmental document and approval cover all of the applicable federal regulatory requirements? X Yes ____ No

Commitments:

Were any commitments made during the project development process? ____ Yes X No

If "Yes", the commitments and their disposition are listed beginning on Page 3. Page 3 Deleted

Ohio Department of Transportation

County ATH **Route** 33 **Section** 15.05 **PID** 21904

w/ ATH-50-11.46 & 14.14

Permits:

Type of Permit	Required for this Project?		Obtained?		Approval by, and date	Incorporated Into the Construction Contract?	
	Yes	No	Yes	No		Yes	No
404 Nationwide		X					
404 individual		X					
401 WQC		X					
NPDES		X					
Flood Plain		X					
Section 9		X					
Section 10		X					

After reviewing the current status of this project, the Department considers that the NEPA document remains valid. In our review, we have confirmed that there have been no changes to the proposed action, including its scope or location, which would result in environmental impacts not considered in the NEPA document or reevaluation, and that there is no new information or circumstances relevant to environmental concerns, and bearing on the proposed action or its impacts, which would result in substantial environmental impact not considered in the NEPA document or the reevaluation.

Prepared by: Anthony T. Durm, P.E. Date: 25-Nov-08

Approved by: Anthony T. Durm PE Date: 11-25-08

c: Environmental Project File
Planning Admin. Project File
Production Project Manager

Ohio Department of Transportation

County ATH **Route** 33 **Section** 15.05 **PID** 21904

w/ ATH-50-11.46 & 14.14

ENVIRONMENTAL CONSULTATION FORM

Date of Plan Submission to Office of Project Coordination: 01-Dec-08

Funding Source(s): [X] federal [X] state [ ] local [ ] private

Type of Environmental Document:

[X] Exempt [ ] CE-1 [ ] CE-2 [ ] CE-3 [ ] CE-4 [ ] EA/FONSI [ ] EIS/ROD

Date of Environmental Approval: 16-Jul-08

Environmental Reevaluation Screening:

Have changes taken place, such as development, controversy, regulatory changes, etc. that would cause impacts not previously included in the approved NEPA document? ____ Yes X No

If "Yes", what date was the NEPA Reevaluation _____

If the type of approval was an EIS-ROD:

Most recent date of an FHWA authorization for the project (final design, r/w acquisition): _____

Has there been more than three years between federal approvals? ____ Yes X No

If "Yes", what date was the NEPA Reevaluation approved? _____

If so, does the current environmental document and approval cover all of the applicable federal regulatory requirements? X Yes ____ No

Commitments:

Were any commitments made during the project development process? ____ Yes X No

If "Yes", the commitments and their disposition are listed beginning on Page 3. Page 3 Deleted

Ohio Department of Transportation

County ATH **Route** 33 **Section** 15.05 **PID** 21904

w/ ATH-50-11.46 & 14.14

Permits:

Type of Permit	Required for this Project?		Obtained?		Approval by, and date	Incorporated Into the Construction Contract?	
	Yes	No	Yes	No		Yes	No
404 Nationwide		X					
404 individual		X					
401 WQC		X					
NPDES		X					
Flood Plain		X					
Section 9		X					
Section 10		X					

After reviewing the current status of this project, the Department considers that the NEPA document remains valid. In our review, we have confirmed that there have been no changes to the proposed action, including its scope or location, which would result in environmental impacts not considered in the NEPA document or reevaluation, and that there is no new information or circumstances relevant to environmental concerns, and bearing on the proposed action or its impacts, which would result in substantial environmental impact not considered in the NEPA document or the reevaluation.

Prepared by: Anthony T. Durm, P.E. Date: 25-Nov-08

Approved by: Anthony T. Durm PE Date: 11-25-08

c: Environmental Project File
Planning Admin. Project File
Production Project Manager

Notice of Intent (NOI) For Coverage Under Ohio Environmental Protection Agency General Permit

(Read accompanying instructions carefully before completing this form)
Submission of this NOI constitutes notice that the party identified in Section I of this form intends to be authorized to discharge into state surface waters under Ohio EPA's NPDES general permit program. Becoming a permittee obligates a discharger to comply with the terms and conditions of the permit. Complete all required information as indicated by the instructions. Forms transmitted by fax will not be accepted. A check for the proper amount must accompany this form and be made payable to "Treasurer, State of Ohio." (See the fee table in Attachment D of the NOI instructions for the appropriate processing fee)

I. Applicant Information/Mailing Address

Company (Applicant) Name: Ohio Department of Transportation

Mailing (Applicant) Address: 338 Muskingum Dr.

City: Marietta **State:** OH **Zip Code:** 45750

Contact Person: Steve Williams **Phone:** (740) 568-3927 **Fax:** (740) 373-7317

Contact E-Mail Address: steve.williams@dot.state.oh.us

II. Facility/Site Location Information

Facility Name: ATH-33/50-15.05/11.46 PID 21904 District 10

Facility Address/Location: United States Routes 33 and 50 in the City of Athens

City: Athens **State:** OH **Zip Code:** 45701

County(ies): Athens **Township(s):** Athens, Canaan

Facility Contact Person: Don Tillis **Phone:** (740) 568-4354 **Fax:** (740) 992-9245

Facility Contact E-Mail Address: don.tillis@dot.state.oh.us

Quarter: _____ **Section(s):** _____ **Range:** _____

Receiving Stream or MS4: Hocking River

If aware of a state nature preserve within 1,000 feet of the facility/site, check here: ☐

Enter river code here, if discharge is to a river designated scenic, wild, or recreational, or to a tributary within 1,000 feet (see instructions): _____

General Permit Number: OHC000003 Construction Storm Water **Initial Coverage:** ☒ **Renewal Coverage:** ☐

Type of Activity: Construction SW / Darby SW - 20 or more acres disturbed Fee = $500

SIC Code(s): - _____ - _____ - _____ - _____

Existing NPDES Permit Number: _____

ODNR Coal Mining Application Number: _____

Outfall	Design Flow (MGD)	Latitude	Longitude

For Ohio EPA Use Only

Check ID (OFA): _____

Person: _____

Place: _____

DOC #: _____

ORG #: _____

Rev. ID #: _____

Other DSW Permits Required: _____

Proposed Project Start Date (MO DY YR): 03/15/09 **Estimated Completion Date: (MO DY YR):** 12/31/10

Total Land Disturbance (Acres): 52.50 **MS4 Drainage Area (Square Miles):** _____

Payment Information: **Check #** ISTV **Check Amount:** _____ **Date of Check:** _____

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Applicant Name: Larry Woodford **Title:** District Deputy Director

Applicant Signature: Larry Woodford **Date:** 12/1/08

EPA 4494 (Rev. 9/07)

FOR CONSTRUCTION STORM WATER, ATTACH LOCATION MAP

Click to clear all entered information CLEAR

OHIO DEPARTMENT OF TRANSPORTATION

DISTRICT 10 • 338 MUSKINGUM DRIVE • MARIETTA, OHIO 45750

TED STRICKLAND, GOVERNOR • JAMES G. BEASLEY, P.E., P.S., DIRECTOR • LARRY WOODFORD, DISTRICT DEPUTY DIRECTOR

November 25, 2008

Ohio Environmental Protection Agency
Office of Fiscal Administration
P. O. Box 1049
Columbus, Ohio 43216-1049

Dear Sir or Madam:

Enclosed, please find a Notice of Intent for Ohio Department of Transportation Project ATH-33/50-15.05/11.46, PID 21904, District 10.

Please process the Interstate Transfer Voucher as per the standard OEPA/ODOT process.

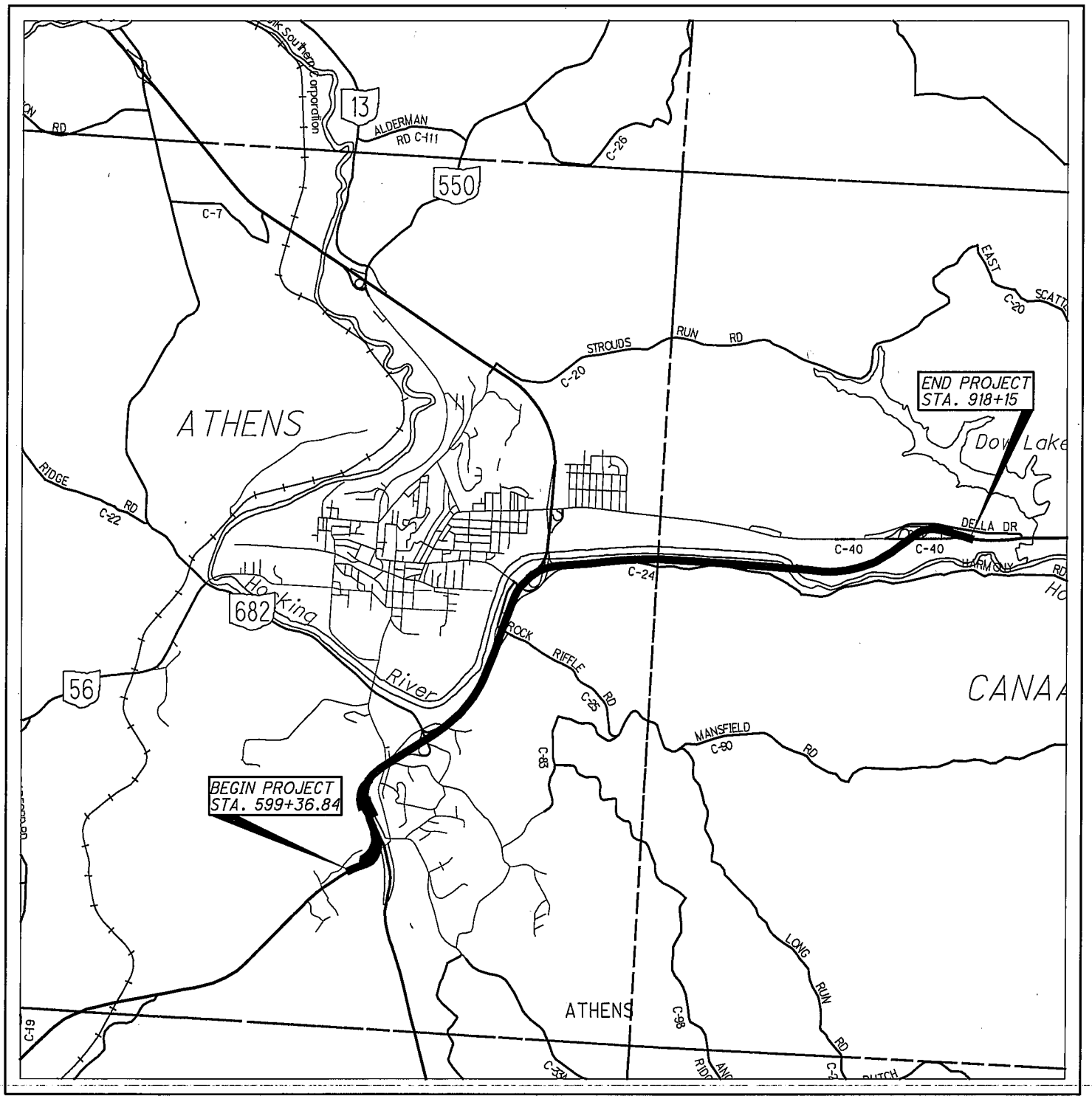
Sincerely,

Alan L. Craig, P. E.
Transportation Engineer

ALC/cs

Enclosure

cc: S. Eldabaja
S.Williams
T. Smith
ATH-33/50-15.05/11.46 File



PROJECT LOCATION MAP

LATITUDE: 39°19'53" LONGITUDE: 82°4'57"

SCALE IN MILES

0 1 2 3 4

N

ODOT PROJECT ATH-33/50-15.05/11.46

PROJECT VICINITY MAP

ATHENS COUNTY, OHIO

FACILITY CONTACT PERSON: DON TILLIS, 1-740-568-4354

PAVEMENT REHABILITATION PROJECT